

# ANALYSIS OF RADIATION EXPOSURE FOR NAVAL UNITS OF OPERATION CROSSROADS

Volume III-(Appendix B) Support Ships

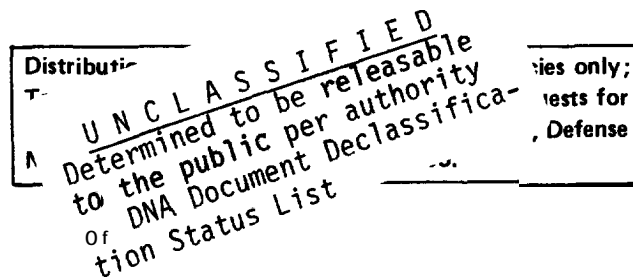
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20. ABSTRACT (Continue on reverse side if necessary and identify by block number)  External radiation doses are reconstructed for crews of support and target ships of Joint Task Force One at Operation CROSSROADS, 1946. Volume I describes the reconstruction 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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## 20. ABSTRACT (Continued)

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 range from zero to 11.7 rem. 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.



# ANALYSIS OF RADIATION EXPOSURES FOR NAVAL UNITS OF OPERATION CROSSROADS

## VOLUME III

### APPENDIX B: SUPPORT SHIPS

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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-1, 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 = 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 NOMOGRAPHY

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:

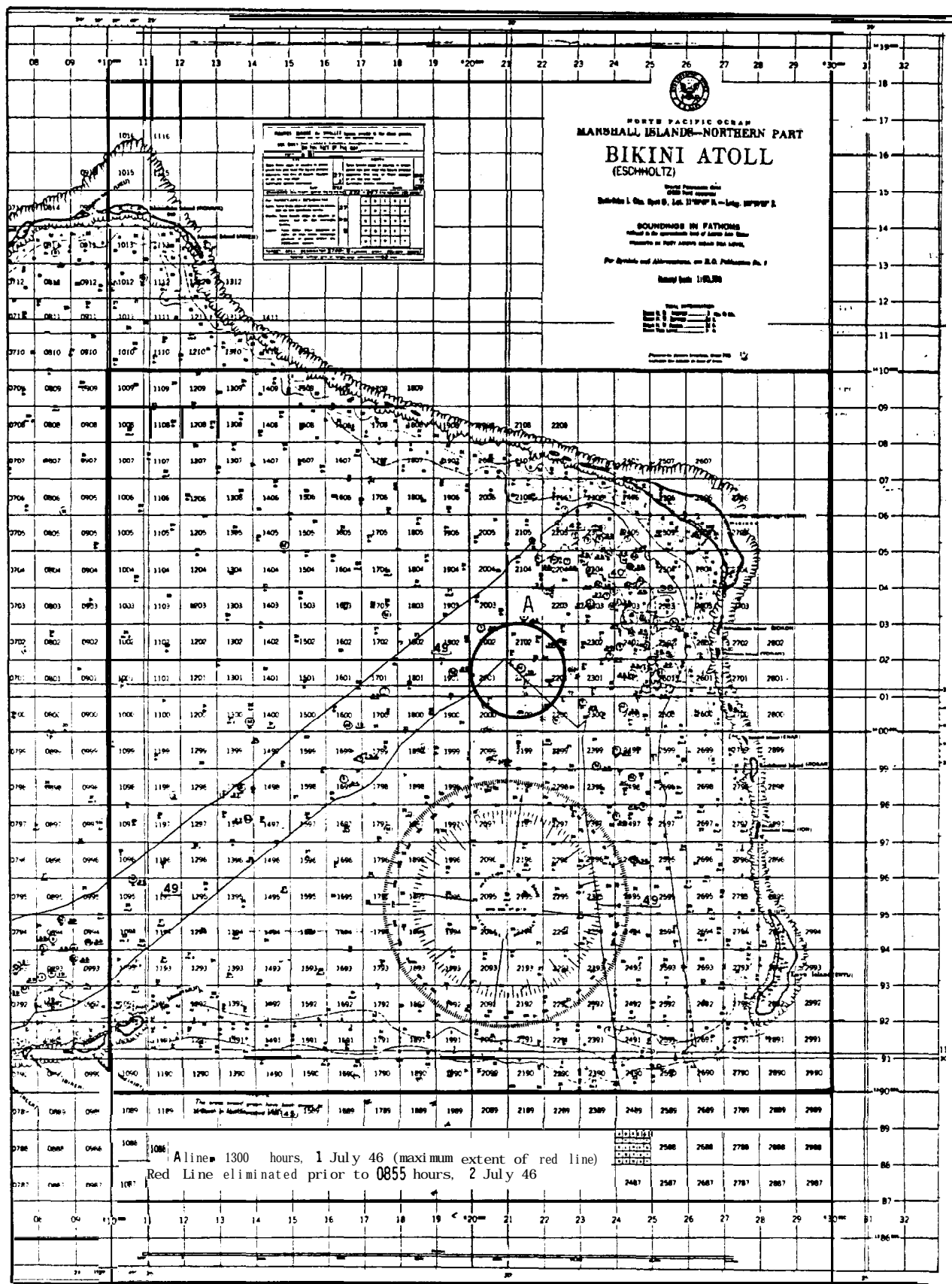
1. The contamination intensity decayed as  $t^{-1.3}$ .
2. Initial steaming in clean water reduced the ship contamination intensity by a factor of 1/2. Further reduction in intensity was due to radioactive decay only.

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  $t_o$ , 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.





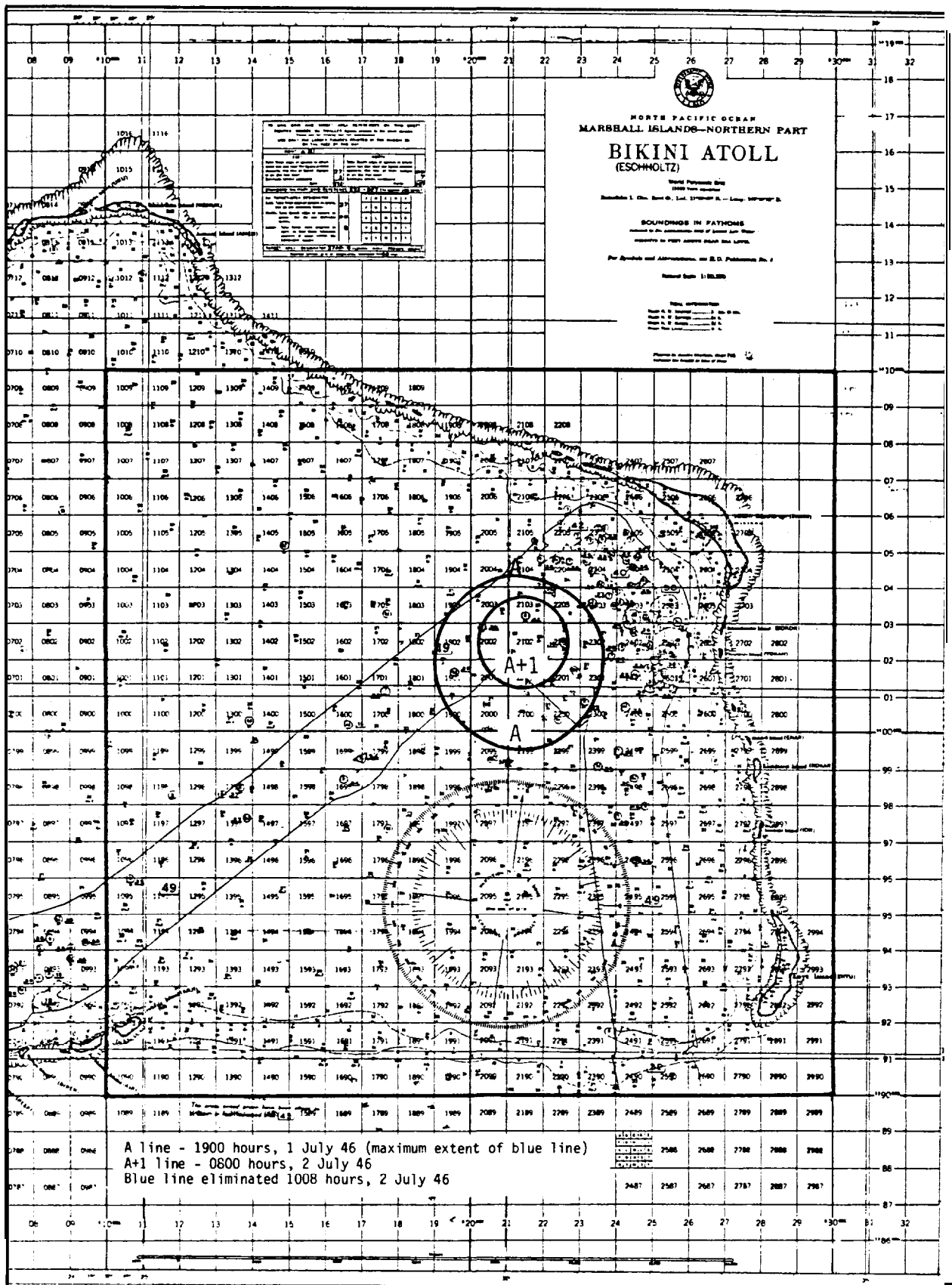
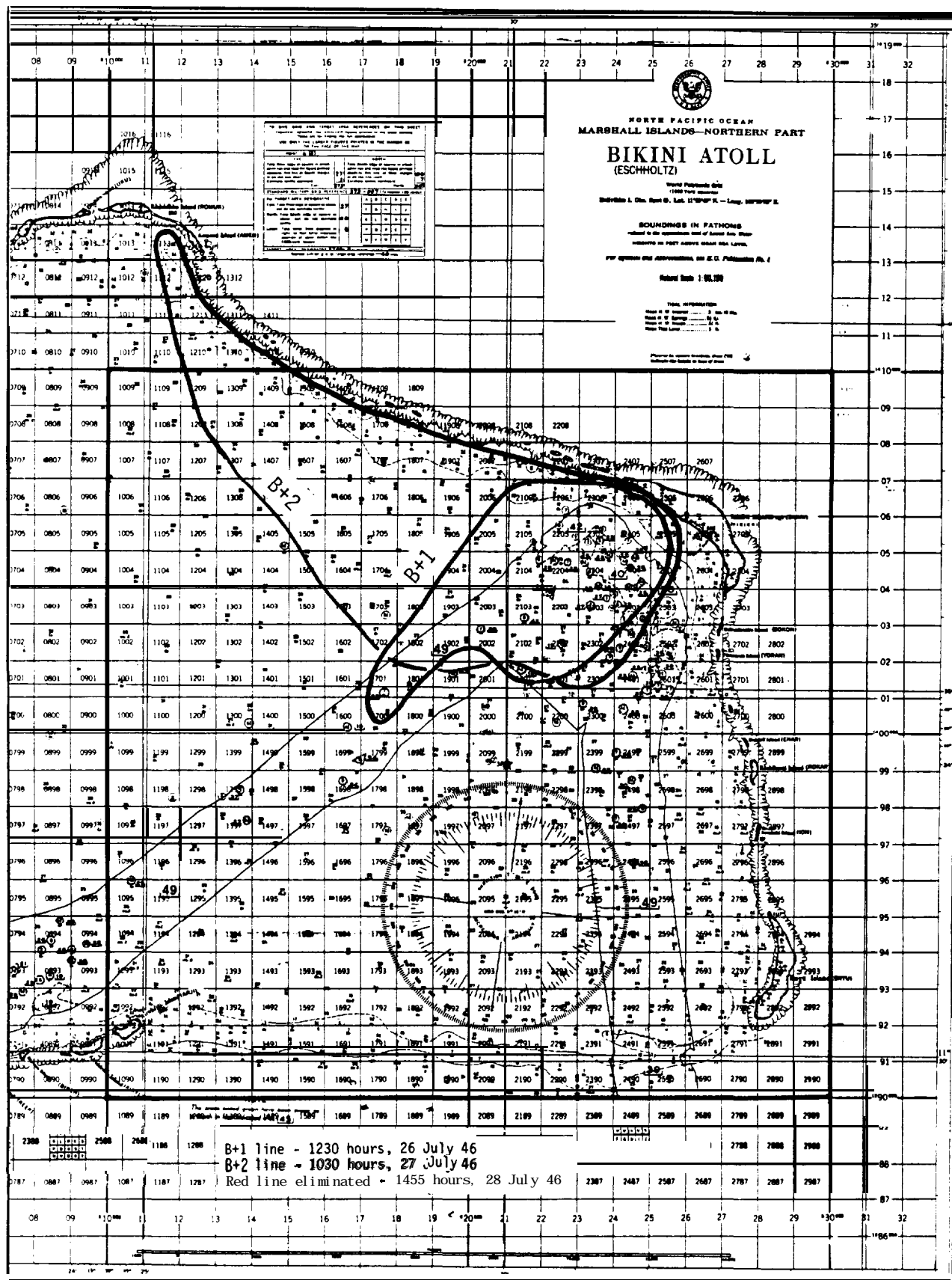


Figure B-2. Shot ABLE Blue Lines ( $I=0.1 R/\text{day}$ )



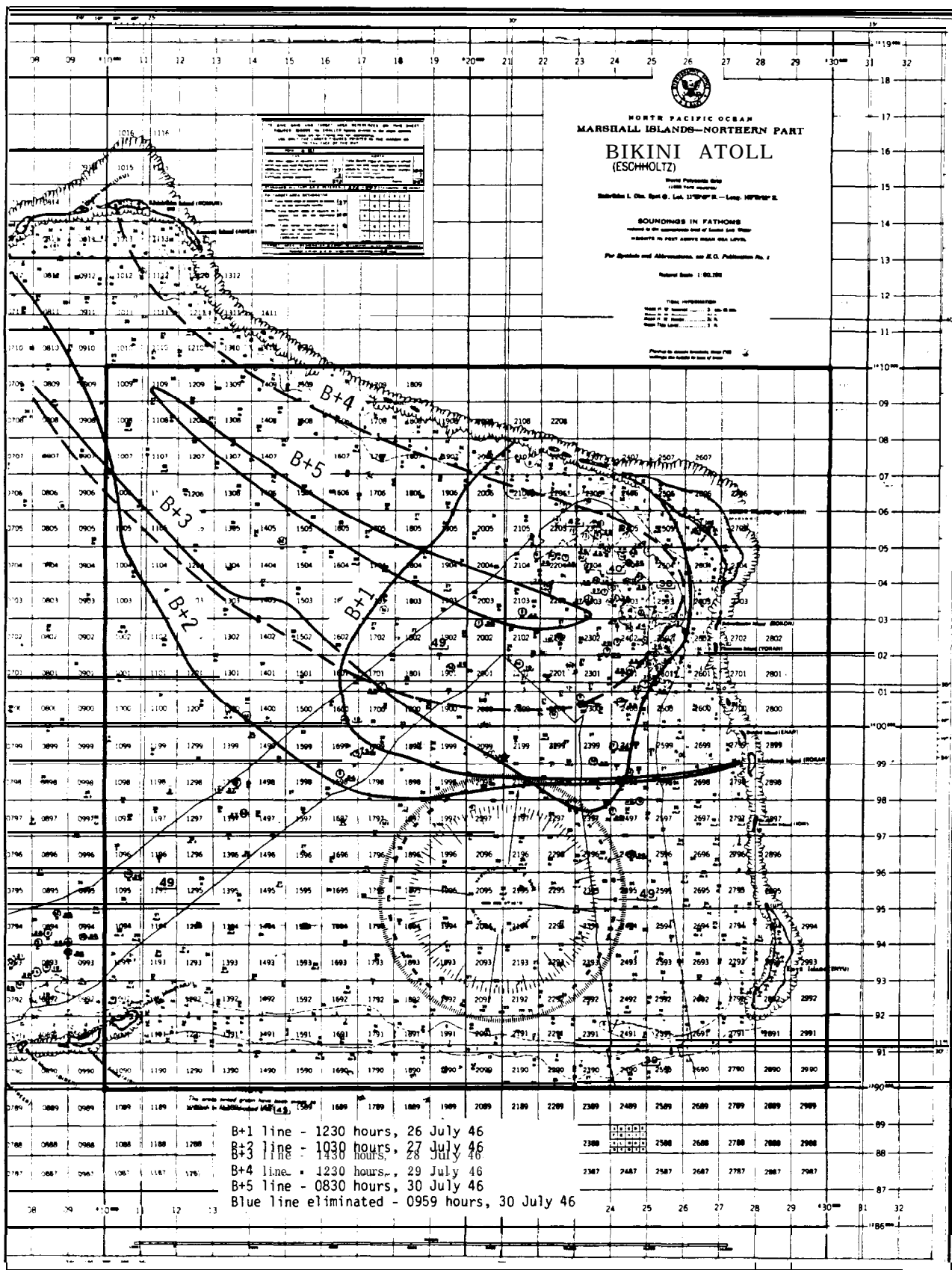


Figure B-4. Shot BAKER Blue Lines ( $I=0.1$  R/day)

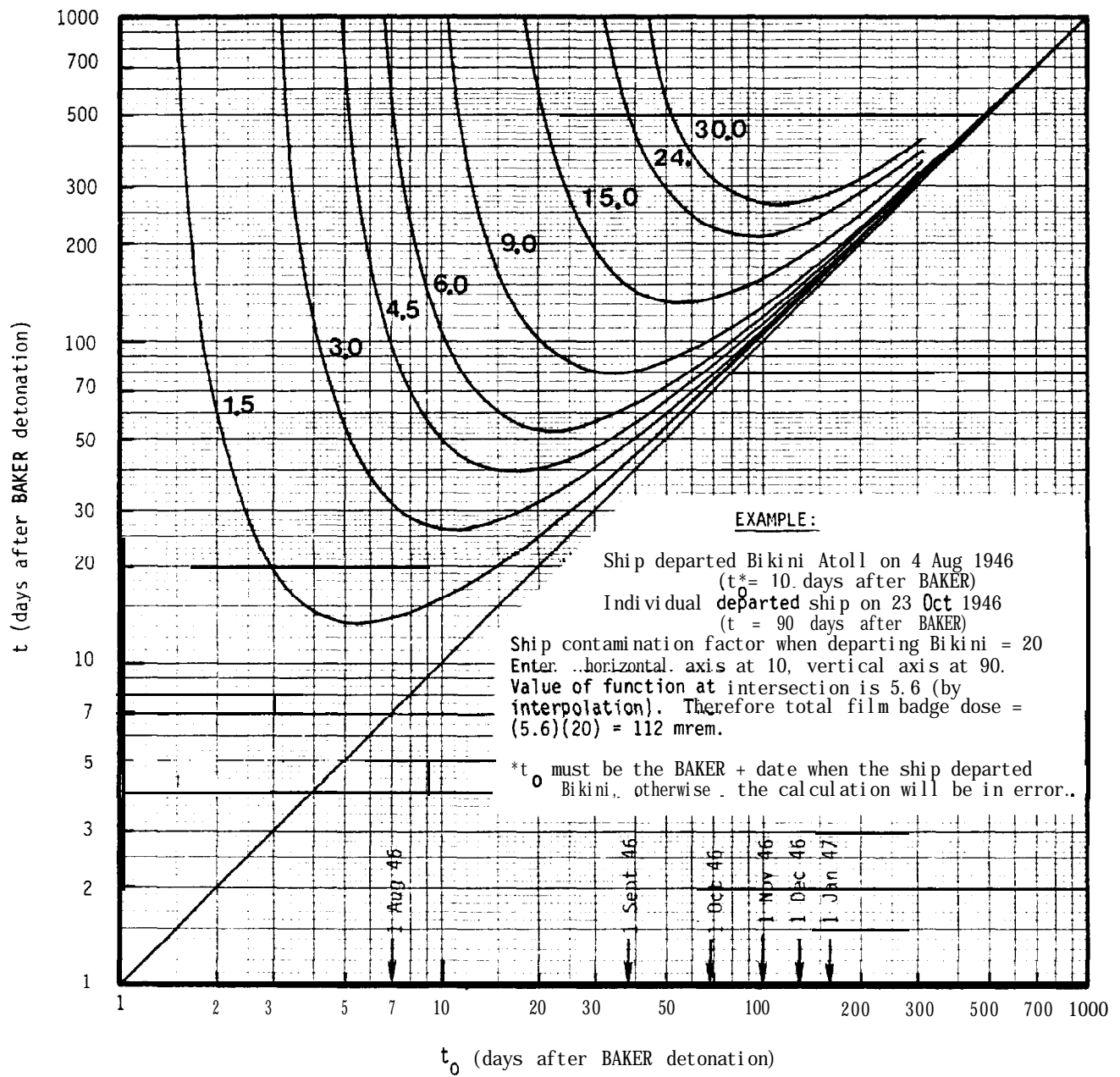


Figure B-5. Post-Bikini Dose Nomograph

Table B-l. Calendar Date Conversion for Operation CROSSROADS

<u>Calendar Date</u>	<u>July Date</u>	<u>BAKER+ Date</u>	<u>Calendar Date</u>	<u>July Date</u>	<u>BAKER+ Date</u>	<u>Calendar Date</u>	<u>BAKER+ Date</u>
Jul 1, 1946	01		Aug 1	32	7	Sept 1	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	57
6	06		6	37	12	25	62
7	07		7	38	13	30	67
8	08		8	39	14		
9	09		9	40	15	Oct 1	68
10	10		10	41	16	5	72
11	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	22		22	53	28	25	123
23	23		23	54	29	30	128
24	29		24	55	30		
25	25	0	25	56	31	Dec 1	129
26	26	1	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
<hr/>			<hr/>			<hr/>	
Jan 1, 1947		160	Feb 1, 1947		191	Mar 1, 1947	219
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:	<u>TEST</u>	<u>DATE (TIME)</u>	<u>YIELD</u>	<u>TYPE</u>	<u>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: 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)



# PATH REPORT FOR THE USS ACHOMAWI

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE FROM A DISTANCE OF APPROXIMATELY 12 MILES
011253	2591M	ENTERED BIKINI
011340	2795A	ALONGSIDE PALMYRA (BERTH "A")
011425	2795A	UNDERWAY AND LYING TO EAST OF TARGET ARRAY
011802	2793R	ANCHORED IN BERTH "GEORGE"
020750	2793R	UNDERWAY
020830	2402G	VICINITY OF USS HAVEN
020840	2402G	UNDERWAY
020903	2201K	ALONGSIDE SAKAWA
020905	2201K	LEAVING SAKAWA
020930	2201K	ALONGSIDE SAKAWA
020936	2201K	LEAVING SAKAWA
020957	2201K	ALONGSIDE SAKAWA
021025	2201K	LEAVING SAKAWA
021232	2793R	ANCHORED BERTH "G"
022358	2793R	PASSING SUMMARY 8
022359	2793R	SUMMARY IS A F C 10'S S-IP USED TO RECORD THE DOSE RECEIVED BY ACHOMAWI WHILE ALONGSIDE TARGET SHIPS AFTER SHOT ABLE
030936	2793R	UNDERWAY
031007	2100N	ALONGSIDE ARDC-13
031117	2100N	LEAVING ARDC-13
031345	27940	TOW WIRE CAST OFF FROM ARDC-13
031445	2793R	ANCHORED BERTH "G"
032359	2793R	PASSING SUMMARY 4
042400	2793R	ANCHORED AS BEFORE
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
061017	2201F	ALONGSIDE PENSACOLA
061139	2201F	LEAVING PENSACOLA
061200	9999A	TOWED USS PENSACOLA AS BERN FOR APPROXIMATELY 2 HRS 30 MIN
061450	2301A	ALONGSIDE SALT LAKE CITY
061619	2301A	LEAVING SALT LAKE CITY
070918	2001I	ALONGSIDE CRITTENDEN
071020	2001I	LEAVING CRITTENDEN
071200	9999A	TOWED USS CRITTENDEN BERN FOR APPROXIMATELY 1 HR 30 MIN
081625	27940	ALONGSIDE ARDC-13
081733	27940	LEAVING ARDC-13
101200	9999A	TOWED USS YO-160 FOR APPROXIMATELY 1 HR 30 MIN
101201	9999A	ALONGSIDE USS YO-160 FOR 31 MIN
101202	9999A	TOWED USS YO-160 FOR OVER 1 HR 30 MIN

121200 9999A TOWING ASTERN USS SARATOGA FOR 2 HRS  
 151200 9999A ALONGSIDE YOG-83 FOR APPROXIMATELY 2 HRS  
 151201 9999A TOWED ALONGSIDE YOG-83 FOR 1 HOUR  
 161200 9999A TOWED ALONGSIDE TARGET SHIF USS SARATOGA FOR APPROXIMATELY 2 HR 30 MIN  
 171200 9999A ALONGSIDE YW-92 FOR APPROXIMATELY 8.5 HOURS  
 171201 9999A TOWED YW-92 FOR APPROXIMATELY 5 HOURS  
 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 "G"  
 260001 2793R ANCHORED AS BEFORE  
 281542 2793R UNDERWAY  
 281640 1893S ANCHORED 1375 YARDS SOUTH OF BERTH #377  
 290749 1893S UNDERWAY  
 290831 2100G ALONGSIDE SKATE1  
 290935 2100G LEAVING SKATE1  
 291144 2502C OFF BOKON ISLAND WITH USS SKATE IN TOW  
 291307 2797K ANCHORED OFF ION ISLAND WITH SKATE ASTERN  
 291504 2797K UNDERWAY  
 291819 2797M ANCHORED SKATE OFF ION ISLAND  
 291850 1893S 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 TUNA1  
 301705 2793R ANCHORED IN BERTH "G"  
 310741 2793R UNDERWAY TO USS SKATE  
 310805 2797M ALONGSIDE SKATE1  
 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 ALONGSIDE 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

331355 2002D LEAV ING STACK2  
331515 2002D UNDERWAY  
331634 1893S 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  
381409 2200U LEAVING PENNSYLVANIA  
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  
501014 2001J LEAVING DAWSON  
501240 2591M EXITED BIKINI LAGOON WITH USS DAWSON IN TOW - ENROUTE  
KWAJALEIN  
530551 2591M RE-ENTERED BIKINI LAGOON  
531532 2591M EXITED BIKINI LAGOON WITH USS NEW YORK IN TOW - ENROUT  
E KWAJALEIN  
560710 2591M RE-ENTERED BIKINI LAGOON  
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

USS ACHOMAWI 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	48		49	49
JUL 3	A+2	0	3		3	52
JUL 4	A+3	0	0		0	52
JUL 5 THRU 24		0	0			52
JUL 25	B+0	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
JUL 30	B+5	0	177	21	198	337
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+10	0	ij	14	14	816
AUG 5	B+11	3	0	12	15	831
AUG 6	B+12	2	6	11	19	850
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	8	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	0	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 prepare 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>	<u>( T I M E )</u>	<u>TYPE</u>	<u>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: 0.191 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 MILES
011815	2591M	ENTERED BIKINI LAGOON
011912	2698R	ANCHORED IN BERTH #270
021434	2698R	UNDERWAY TO SHIFT BERTHS
021455	2599D	ANCHORED IN BERTH #207
042400	2599D	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 BEFORE
541150	2394K	UNDERWAY TO KWAJALEIN
541235	2591M	DEPARTED BIKINI LAGOON ON 23 AUGUST 1946

USS AJAX 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	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	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	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
AUG 5	B+11	0	0	5	5	63
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>	<u>DATE (TIME)</u>	<u>YIELD</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 E1, 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
010900	2592M	MOORED AT KWAJALEIN FOR ABLE SHOT
040834	2592M	SHIP ENTERED BIKINI LAGOON
041012	2304E	ANCHORED IN BERTH #40
042400	2304E	ANCHORED AS BEFORE
250835	2592M	OBSERVED SHOT BAKER FROM G DISTANCE IN EXCESS OF 8 MILES
251430	2592M	ENTERED BIKINI AFTER BAKER SHOT
251447	2595M	ANCHORED BERTH #368
251835	2595M	UNDERWAY FROM BERTH #368
251849	2592M	DEPARTED BIKINI LAGOON ON 25 JULY 1946
260001	2592M	ENROUTE KWAJALEIN

USS ALBEMARLE 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 THRU 24		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>	<u>( T I M E )</u>	<u>YIELD</u>	<u>TYPE</u>	<u>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

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE AT 278 DEGREES AND 19 MILES DISTANCE E
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	2197P	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 OCEANOGRAPHIC TESTS
261815	2395K	COMPLETED TESTS - LEAVING THE AREA
261829	2595M	ANCHORED - LAT. 11 DEG 32 MIN NORTH LONG. 165 DEG 32 MIN EAST "B" 56 DEG "C" 16 DEG
261912	2595M	UNDERWAY FROM ANCHORAGE
261915	2995S	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 MIN EAST R.TAN ROKAR IS. 35 DEG R.TAN ION IS. 54 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	2595T	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

271807 2295C ANCHORED IN BERTH #360  
 281550 2295C UNDERWAY 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  
 N ION IS. 75 DEG R.TAN ENYU IS. 107 DEG  
 290550 2094A UNDERWAY FROM GNCHORGGE  
 290605 2493K CHGNEL BUOY #3 ABEAM TO PORT - 350 YARDS  
 290610 2591M EXITED BIKINI LAGOON  
 291430 2591M RE-ENTERED BIKINI LAGOON  
 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 BETWEEN 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 LAGOON  
 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  
 410750 2502M UNDERWAY IN CHANNEL  
 410824 2591M DEPARTED BIKINI LAGOON ON 10 AUGUST 1946 - ENROUTE PEA  
 RL HGREOR

USS A M SUMNER CGLCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHI PS	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+?	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	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>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.131 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 NOT ENTER BIKINI LAGOON DURING THE PERIOD 1 JULY T cI 4 JULY 1945
250835	2591M	SHOT BAKER
411200	2591M	ENTERED BIKINI LAGOON UNDER TOW OF USS SIOUX
411532	2305G	MOORED ALONGSIDE PORTSIDE TO USS GENEVA IN BERTH 21
451330	2305G	UNDERWAY TO BERTH 113
451400	2403M	MOORED ALONG PORTSIDE OF USS GENEVA BETWEEN 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	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	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
GUG 1	B+7	0	0	0	0	0
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	79
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	109
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

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</u>	<u>TYPE</u>	<u>DETONATION</u>
	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: 0.001 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	2591M	OBSERVED SHOT ABLE FROM POSITION APPROXIMATELY 18 MILE S NORTHEAST OF BIKINI ATOLL
011459	2591M	ENTERED BIKINI LAGOON
011609	2598E	ANCHORED BERTH #251
020950	2598E	UNDERWAY
021034	2205B	ANCHORED BERTH #9
030000	2205B	ANCHORED AS BEFORE
041707	2205B	UNDERWAY TO KWAJALEIN
041800	2591M	DEPARTED BIKINI LAGOON
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	2394A	ANCHORED AS BEFORE
261634	2394A	UNDERWAY TO KWAJALEIN
261722	2591M	DEPARTED BIKINI LAGOON
280834	2591M	ENTERED BIKINI LAGOON
280902	2394A	ANCHORED BERTH #363
281544	2394A	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	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	A t 0	0	ij		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 THRU 24		0	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

## SUPPORT SHIP INFORMATION SUMMARY

SHIP: USS APPLING (APA-58)

CREW SIZE: 226

GROUP: TRANSPORT

MISSION: APPLING, a member of the Transport 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 **reconnaissance work**.

SHOT DATA:	<u>TEST</u>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.116 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

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE
011116	2591M	LAUNCHING RAD PATROL BOATS AT LAGOON ENTRANCE
011723	2591M	ENTERED BIKINI LAGOON
011758	2097K	ANCHORED IN BERTH 278
020615	2097K	LOWERED RAD PATROL BOATS
021400	2097K	UNDERWAY FROM BERTH 278
021449	2302T	ANCHORED IN BERTH 144A
042400	2302T	ANCHORED AS BEFORE
250835	2591M	OBSERVED SHOT BAKER
251013	2591M	ENTERED BIKINI LAGOON
251017	2591M	LAUNCHING RAD PATROL BOATS
251033	2591M	EXIT BIKINI LAGOON
251515	2591M	REENTER BIKINI LAGOON
251530	2693X	ANCHORED IN BERTH "T"
260001	2693X	ANCHORED AS BEFORE
281530	2693X	UNDERWAY TO SHIFT BERTHS
291617	2092M	ANCHORED
300824	2092M	UNDERWAY TO SHIFT BERTHS
300900	2098H	ANCHORED IN BERTH 263
321256	2098H	UNDERWAY FROM BERTH 263
321327	2304N	ANCHORED IN BERTH 56
331731	2304N	UNDERWAY
331807	2591M	EXIT BIKINI LAGOON
390820	2591M	REENTER BIKINI LAGOON
390851	2500U	ANCHORED IN BERTH 206
391717	2500U	UNDERWAY
391744	2591M	DEPARTED BIKINI LAGOON ENROUTE TO PEARL HARBOR 08 AUG 1946

USS AFFLING 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	2	0		2	2
JUL 3	A+2	0	0		0	2
JUL 4	A+3	0	0		0	2
JUL 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
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

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.265 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)



PATH REPORT FOR THE USS ARD-29

TIME	PLACE	REMARKS
010800	2591M	LOCATION 10 DEGREES 16 MINUTES NORTH LAT.; 166 DEGREES 14 MINUTES EAST LONG. JUST PRIOR TO SHUT ABLE
010900	2591M	OBSERVED SHOT ABLE
020715	2591M	ENTERED CHANNEL TO BIKINI LAGOON
020930	2698T	MOORED TO BUOY IN BERTH 270A
042400	2698T	ANCHORED AS BEFORE
250835	2591M	AT RONGELAP ATOLL AT TIME OF SHOT BAKER
310810	2591M	ENTERED BIKINI LAGOON
310945	2504B	NEAR BERTH #43
311043	2504B	ANCHORED IN BERTH #43
340830	2504B	UNDERWAY IN TOW FROM BERTH
341108	2698T	ANCHORED IN BERTH 270A
352400	2698T	ANCHORED AS BEFORE
380855	2698T	UNDERWAY TO SHIFT BERTHS
381135	2504B	ANCHORED IN BERTH #43
560538	2504B	UNDERWAY FOR KWAJALEIN
560600	2591M	DEPARTED BIKINI LAGOON ON 25 AUGUST 1946 (TIME ESTIMATED)

## USS ARD-29 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 THRU 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	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	16	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	3	12	172
AUG 10	B+16	8	0	3	11	183
AUG 11	B+17	7	0	3	10	193
AUG 12	B+18	6	0	3	9	202
AUG 13	B+19	6	0	2	8	210
AUG 14	B+20	5	0	2	7	217
AUG 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

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>( T I M E )</u>	<u>TYPE</u>	<u>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: 0.216 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)

# PATH REPORT FOR THE USS ARTEMIS

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE FROM APPROXIMATELY 12 MILES
011105	2591M	ENTERING BIKINI LAGOON
011129	2591M	DEPLOY RAD PATROL BOATS AND EXIT CHANNEL
011702	2591M	REENTERING BIKINI LAGOON
011715	2591M	PASSED ENTRANCE BUOY AREA
011752	2097U	ANCHORED IN BERTH 296
02124E	2097U	UNDERWAY FROM BERTH 296
021335	2 05K	ANCHORED IN BERTH 17
042400	2105K	ANCHORED AS BEFORE
250835	2591M	OBSERVED SHOT BAKER FROM A DISTANCE OF APPROXIMATELY 8 MILES
251018	2591M	AT LAGOON ENTRANCE
251020	2591M	DROPPED OFF RAD PATROL BOATS AND PROCEED OUT OF CHANNEL
251508	2591M	REENTER BIKINI LAGOON
251531	2394S	ANCHORED IN BERTH #385
260001	2394S	ANCHORED AS BEFORE
281527	2394S	UNDERWAY TO SHIFT BERTHS
281555	2292G	ANCHORED WEST OF BERTH "J"
300853	2292G	UNDERWAY TO SHIFT BERTHS
300930	1899B	ANCHORED NEAR USS CORTLAND
301035	1899B	UNDERWAY FROM USS CORTLAND
301058	2298B	ANCHORED IN BERTH 264
310847	2298B	UNDERWAY TO SH FT BERTHS
311012	2305G	ANCHORED IN BERTH #2
331250	2305G	UNDERWAY TO SHIFT BERTHS
331408	2194R	ANCHORED IN BERTH "A"
380828	2194R	UNDERWAY TO SHIFT BERTHS
380919	2204D	ANCHORED IN BERTH #34
400753	2204D	UNDERWAY
400836	2591M	EXITING LAGOON
401225	2591M	REENTER LAGOON
401320	2204D	ANCHORED IN BERTH #34
480815	2204D	RAD SAFE TEAM CHECKED SHIP AND DECLARED IT SAFE
491720	2204D	UNDERWAY
491758	2591M	DEPARTED BIKINI LAGOON ENROUTE TO PEARL HARBOR 18AUG 1946

USS ARTEMIS 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	2	0		2	2
JUL 3	A+2	0	0		0	2
JUL 4	A+3	0	0		0	2
JUL 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
JUL 30	B+5	3	0	6	9	11
JUL 31	B+6	11	0	13	24	35
AUG 1	B+7	14	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	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	205
AUG 17	B+23	4	0	2	6	211
AUG 18	B+24	3	0	2	5	216

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>( T I M E )</u>	<u>TYPE</u>	<u>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: 0.359 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)

PATH REPORT FOR THE USS ATA-124

TIME	PLGCE	REMARKS
010900	2591M	OESERVED SHOT GDLE WHILE ENROUTE FROM BIKINI GTOLL TO KWAJGLEIN GTOLL
030934	2591M	ENTERED BIKINI LGGOON
030947	2493F	FGSSED BUOY #3 150 YGRDS TO PORT
031108	2504H	ANCHORED YW-92 (WHICH WGS IN TOW) IN EERTH #60
031142	2600K	GNCHORED IN BERTH 191-G
031428	2600K	UNDERWAY FROM BERTH
031445	2401Q	ALONGSIDE LCI-329
031637	2401Q	LEAVING LCI-329
031715	2695S	ALONGSIDE USS WILDCAT
031751	2695S	UNDERWAY FROM USS WILDCAT
031815	2600K	ANCHORED IN BERTH 191-A
032359	2600K	PASSING SUMMARY 0
032400	2600K	"SUMMARY" IS A FICTITIOUS SHIP USED TO RECORD THE DOSE RECEIVED BY THE ATG-124 WHILE ALONGSIDE TGRGET SHIPS AFTER SHOT ABLE
040750	2600K	UNDERWAY
040832	2000Y	ALONGSIDE PGRCHE
041226	2000Y	LEAVING PARCHE
041246	2100M	ALONGSIDE GPOGON
041745	2100M	LEAVING GFOGON
041825	2599N	ANCHORED OFF BOW OF USS FULTON FOR REPAIR IN VICINITY OF BERTH 231
042359	2599N	PASSING SUMMGY 2
042400	2599N	ANCHORED AS BEFORE
051200	9999A	PASSING SUMMGY 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 JULY THROUGH 24 JULY
120750	9999A	FROM 0750 TO 0830 MOORED TO USS NEW YORK
120845	9999A	MOORED TO USS PENSACOLA FROM 0845 TO 0935
120957	9999A	MOORED TO USS SKATE FROM 0957 TO 1037
141045	9999A	MOORED TO USS NEVADA FROM 1045 TO 1100
180836	9999A	MOORED TO USS SKIPJACK FROM 0836 TO 0934
180945	9999G	MOORED TO USS DENTUDA FROM 0945 TO 1059
181107	9999A	MOORED TO USS SKATE FROM 1107 TO 1230
220940	9999G	MOORED TO USS GRKANS GS 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	MOORED TO PRINZ EUGEN FROM 1510 TO 1555
231557	9999A	MOORED 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

281112	2591M	EXITED BIKINI LAGOON ENROUTE TO RONGELAP ATOLL
301600	2591M	RE-ENTERED BIKINI LAGOON - ESTIMATED TIME
301707	2603G	ANCHORED IN BOAT POOL AREA
301820	2603G	UNDERWAY FOR NEW BERTH
301934	2699G	ANCHORED IN BERTH #231-A
310503	2699G	UNDERWAY TO AMEN ISLAND
310615	1113M	IN VICINITY OF AMEN ISLAND
310645	1113M	PROCEEDING TO BIKINI ISLAND
310800	2504D	ANCHORED IN BERTH 63 (ESTIMATED POSITION)
310830	2504D	UNDERWAY
310845	2601P	ANCHORED IN BERTH 169
310930	2601P	UNDERWAY FROM BERTH
310956	2504B	MOORED TO ARD-29
311055	2504B	UNDERWAY FROM ARD-29
311145	1113M	OFF AMEN ISLAND
311210	1113M	ANCHORED OFF AMEN ISLAND
311437	1113M	UNDERWAY
311632	2504D	ANCHORED IN BERTH 63 (ESTIMATED POSITION)
311740	2504D	UNDERWAY FROM BERTH
311757	2600K	ANCHORED IN BERTH 191-A
331500	2600K	UNDERWAY FROM BERTH
331728	2694X	MOORED YF-990 TO LST-861
331737	2694X	UNDERWAY
331550	2594S	MOORED TO USS WILDCAT
331845	2594S	UNDERWAY FROM USS WILDCAT
330854	2794P	ANCHORED WEST OF ENYU ISLAND
340517	2794P	UNDERWAY
340553	2504B	LYING TO OFF ARD-29
340614	2504B	MOORED TO ARD-29
340831	2504B	UNDERWAY - ASSISTING ARD-29 TO NEW BERTH
341115	2698T	ARD-29 ANCHORED IN ASSIGNED BERTH
341122	2794P	ANCHORED WEST OF ENYU ISLAND
342400	2794P	ANCHORED AS BEFORE
431044	2199A	ALONGSIDE TUNA2
431153	2199A	LEAVING TUNA2
521448	2199A	ALONGSIDE TUNA2
521541	2199A	LEAVING TUNA2
531140	2504B	ALONGSIDE HUGHES
531412	2504B	LEAVING HUGHES
540713	2591M	EXITED BIKINI LAGOON FOR KWAJALEIN
560650	2591M	RE-ENTERED BIKINI LAGOON
560940	2591M	DEPARTED BIKINI LAGOON WITH PGM-24 IN T.O.W. 0425 AUGUST

1946 - ENROUTE KWAJALEIN



## USS ATA-124 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	1		1	1
JUL 5 THRU 24		0	1			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	1	1	3
JUL 29	B+4	0	0	1	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	21	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	Et15	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	320
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

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.547 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)

PATH REPORT FOR THE USS ATA-180

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	2402G	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	2304B	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 RECEIVED 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 TARGET SHIP DOSES RECEIVED BY THIS SHIP FOR THE PERIOD 5 JULY THROUGH 24 JULY
060750	2201P	ALONGSIDE 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	GLONGSIDE LSM-60
080817	2304E	LEAVING LSM-60
081520	2304E	GLONGSIDE 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 OPERATIONS FROM 1440 TO 1540
130910	9999A	FROM 0910 TO 1605 ASSISTED IN TOWING AND MOORING ARDC-

13

150945 9999A TOWING LCI-332 FROM 0945 TO 1020  
151115 9999A TOWING LCI-327 FROM 1115 TO 1135  
151155 9999A TOWING LCI-332 FROM 1155 TO 1216  
151320 9999A FROM 1320 TO 1415 PICKUP APA HOOK FROM USS FILLMORE  
170710 9999A FROM 0710 TO 1735 ASSISTED IN TOWING AND MOORING USS I  
NDEPENDENCE

250835 2591M OBSERVED SHOT BAKER  
251125 2591M ENTERED BIKINI LAGOON  
251145 2793F ANCHORED IN BERTH "J"  
251240 2793F UNDERWAY TO USS BLADEN  
251300 2298C STAND BY USS BLADEN  
251310 2298C UNDERWAY TO BERTH "J"  
251333 2793F ANCHORED IN BERTH "J"  
281207 2793F UNDERWAY TO TOW USS DENTUDA  
281254 2695S ALONGSIDE USS RECLAIMER IN BERTH #370  
281350 2695S UNDERWAY FROM USS RECLAIMER  
281455 2100P ALONGSIDE DENTUDA  
281555 2893M BEACHED USS DENTUDA BETWEEN USS HUGHES AND USS FALLON  
281710 2893M LEAVING DENTUDA  
281748 1992E ANCHORED 1575 YARDS SOUTH OF BERTH #379  
300753 1992E UNDERWAY FROM ANCHORAGE  
300759 2094S STAND BY USS KENNETH WHITING  
300830 2094S UNDERWAY FROM USS KENNETH WHITING  
300900 2202K STAND BY NEAR USS NEVADA  
300940 2202K ALONGSIDE NEVADA  
300946 2202K LEAVING NEVADA  
301020 2101Q ALONGSIDE PENSACOLA  
301025 2101Q LEAVING PENSACOLA  
301030 2101Q ALONGSIDE PENSACOLA  
301055 2101Q LEAVING PENSACOLA  
301100 2101Q RADIATION MONITORS REPORT CREW RECEIVED MAXIMUM DAILY  
TOLERANCE

301125 2101Q UNDERWAY TO USS KENNETH WHITING  
301150 2304C ANCHORED 200 YARDS OFF STARBOARD BEAM OF USS HAVEN  
301507 2304C UNDERWAY FOR USS SEVERN  
301535 2698P SECURED TO USS SEVERN  
301607 2698P CAST OFF FROM USS SEVERN  
301623 2793F ANCHORED IN BERTH "JIG"  
310702 2793F UNDERWAY FROM ANCHORAGE  
310736 2304N STAND OFF USS KENNETH WHITING  
310745 2304N UNDERWAY FROM USS KENNETH WHITING  
310804 2200B STAND BY USS GASCONADE  
310814 2200B UNDERWAY  
310827 2200S UNDERWAY FROM USS CATRON  
310845 2101B ALONGSIDE BRULE  
310903 2101B LEAVING BRULE  
310920 2304H STAND OFF USS KENNETH WHITING AND USS HAVEN  
310926 2304H UNDERWAY  
310945 2101B ALONGSIDE BRULE

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 2599D ANCHORED 268 YARDS OFF STARBOARD BEAM OF USS FULTON  
321207 2599D UNDERWAY FROM USS FULTON  
321220 2501Q ALONGSIDE USS QUARTZ (ESTIMATED TIME)  
321430 2501Q UNDERWAY FROM USS QUARTZ  
321506 2793F ANCHORED IN BERTH "J"  
331400 2793F UNDERWAY FROM BERTH "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 2200I ALONGSIDE BRISCOE2  
340958 2200I LEAVING BRISCOE2  
341007 2200B RESUME WASHING DOWN USS GASCONADE  
341045 2200B SECURE FROM WASH DOWN  
341100 2200B UNDERWAY FOR ANCHORAGE  
341140 1992E ANCHORED 1575 YARDS SOUTH OF BERTH #379  
351700 1992E ANCHORED AS BEFORE  
501055 2002E ALONGSIDE WILSON?  
501157 2002E LEAVING WILSON2  
501328 2591M EXITED BIKINI LAGOON FOR KWAJALEIN WITH USS WILSON IN TOW  
540600 2591M RE-ENTERED BIKINI LAGOON  
541240 1903W ALONGSIDE WAINWRIGHT2  
541350 1903W LEAVING WAINWRIGHT2  
541500 2591M EXITED BIKINI LAGOON FOR KWAJALEIN WITH USS WAINWRIGHT IN TOW  
570630 2591M RE-ENTERED BIKINI LAGOON  
571243 2894H ALONGSIDE HUGHES  
571252 2894H LEAVING HUGHES  
571320 2591M EXITED BIKINI LAGOON FOR KWAJALEIN WITH USS HUGHES IN TOW  
600540 2591M RE-ENTERED BIKINI LAGOON  
631236 2301Q ALONGSIDE LCI-332  
631350 2401G LEAVING LCI-332  
631351 2401G ALONGSIDE LCI-327  
631550 2401G LEAVING LCI-327  
631630 2591M DEPARTED BIKINI ATOLL FOR KWAJALEIN WITH LCI-327 AND LCI-332 IN TOW -- ON 1 SEPTEMBER 1946

## USS ATA-180 CALCULATED FILM BGDGE DOSE (IN MREM)

DATE	TIME	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	0	32		32	35
JUL 4	A+3	0	0		0	35
JUL 5 THRU 2 4		0	1			36
JUL 25	B+0	5	0	9	14	50
JUL 26	B+1	0	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	0	0	16	16	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	0	18	18	279
GUG 3	B+9	1	1	16	18	297
GUG 4	B+10	0	0	14	14	311
AUG 5	B+11	0	0	12	12	323
AUG 6	B+12	2	0	11	13	336
GUG 7	B+13	5	0	10	15	351
AUG 8	B+14	10	0	9	19	370
AUG 9	B+15	9	0	8	17	387
GUG 10	B+16	8	0	8	16	403
GUG 11	B+17	7	0	7	14	417
AUG 12	B+18	6	0	7	13	430
GUG 13	B+19	6	0	6	12	442
GUG 14	B+20	5	0	6	11	453
GUG 15	B+21	5	0	5	10	463
AUG 16	B+22	4	0	5	9	472
AUG 1 7	B+23	4	0	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	0	0	4	4	503
AUG 21	B+27	0	0	4	4	507
AUG 22	B+28	0	0	4	4	511
AUG 23	B+29	0	1	4	5	516
GUG 24	B+30	0	0	3	3	519
AUG 25	B+31	0	0	3	3	522
GUG 26	B+32	0	0	3	3	525
GUG 27	B+33	0	0	3	3	528
AUG 2 8	B+34	0	0	3	3	531
AUG 29	B+35	1	0	3	4	535
GUG 30	B+36	1	0	3	4	539
AUG 31	B+37	1	0	3	4	543
SEP 1	B+38	0	2	2	4	547

## SUPPORT SHIP INFORMATION SUMMARY

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:	<u>TEST</u>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.593 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)

PATH REPORT FOR THE USS ATA-185

TIME	PLACE	REMARKS
010900	2591M	MANEUVERING ABOUT OFF BIKINI ATOLL WITH TASK FORCE 1.2 7 *T TIME OF SHOT ABLE
011245	2591M	ENTRANCE D BIKINI LAGOON
011400	2501K	LAY TO EAST OF TARGET ARRAY
011731	2501K	UNDERWAY TO BERTH "R"
011800	2793H	ANCHORED IN BERTH "R"
020700	2793H	UNDERWAY FROM ANCHORAGE
020730	24026	LAY TO IN VICINITY OF USS HAVEN
020842	24026	ENROUTE TO SAKAWA
020855	2101D	LAY TO NEAR SAKAWA
021110	2101D	UNDERWAY TO USS KENNEDY
021115	2101V	UNDERWAY TO USS KENNEDY
021152	2101V	UNDERWAY TO USS KENNEDY
021230	2101V	UNDERWAY TO USS KENNEDY
021340	2304B	UNDERWAY FROM USS HAVEN
021425	2304N	MOORED TO USS KENNEDY
021442	2304N	UNDERWAY
021522	2793H	ANCHORED IN BERTH "R"
022359	2793H	UNDERWAY SUMMARY 22
022400	2793H	SUMMARY IS A FICTITIOUS SHIP USED TO RECORD THE DOSE RECEIVED BY ATA-185 WHILE ALONGSIDE TARGET SHIPS AFTER SHOT ABLE
042400	2793H	ANCHORED AS BEFORE
050930	2101D	ALONGSIDE YD-160
051035	2101D	UNDERWAY YD-160
051200	9999A	PASSING SUMMARY 5 PLUS 5
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
061415	9999A	UNDERWAY TO NAGATO FROM 1415 TO 1812
071010	9999A	FROM 1010 TO 1155 ASSISTED IN TOWING NAGATO
090735	9999A	USS CURRENT BEGAN TOWING NAGATO WITH ATA-185 STANDING BY TO ASSIST -- AT 0840 CAST OFF TOW WIRE FROM NAGATO
100740	9999A	AT 0740 MOORED TO USS ARKANSAS TO ASSIST IN TOWING TO NEW BERTH -- AT 1445 UNDERWAY AFTER ANCHORING USS ARKANSAS
111600	9999A	ASSISTING IN TOWING USS NEVADA FROM 1600 TO 1700
120655	9999A	AT 0655 ARRIVED AT USS SARATOGA AND STOOD BY TO ASSIST IN SHIFTING TO NEW BERTH -- AT 1040 CAST OFF FROM USS SARATOGA
200600	9999A	FROM 0600 TO 0920 MOORED TO USS TUNA TO ASSIST IN SHIFTING BERTHS
220620	9999A	AT 0620 ARRIVED AT USS APOGON AND LAY TO AWAITING INSTRUCTIONS -- FROM 0701 TO 1606 ANCHORED 240 YARDS FROM APOGON
250835	2591M	OBSERVED SHOT BAKER IN COMPANY OF TU-1.2.7 OFF BIKINI



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 BERTHS  
 261450 2693Y ANCHORED 300 'YARDS FROM BERTH "K"  
 281544 2693Y UNDERWAY FROM ANCHORAGE  
 281616 1992C ANCHORED - "C" 39 DEG "A" 92 DEG  
 290728 1992C UNDERWAY FROM ANCHORAGE  
 290740 2194Q BY USS KENNETH WHITING  
 290758 2194Q 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 2094S ALONGSIDE USS KENNETH WHITING  
 291159 2094S UNDERWAY  
 291212 1993V ANCHORED - "A" 93 DEG "C" 40 DEG  
 300725 1993V UNDERWAY  
 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 2200S COMPLETED INSTRUMENT RECOVERY  
 301023 2200B ARRIVED AT USS GASCONADE  
 301027 2200B COMPLETED INSTRUMENT RECOVERY  
 301038 2200I COMPLETED INSTRUMENT RECOVERY 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 2101Q 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 1901T RECOVERED INSTRUMENTS FROM USS BARROW

320958 2200B RECOVERED INSTRUMENTS FROM USS GASCONADE  
 321017 2304N ARRIVED IN VICINITY OF USS KENNETH WHITING  
 321027 2304N UNDERWAY  
 321108 2793K 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 2200U ALONGSIDE PENNSYLVANIA  
 511230 2200U LEAVING PENNSYLVANIA  
 561730 2101I ALONGSIDE FALLON  
 561800 2101I LEAVING FALLON  
 671728 2591M DEPARTED BIKINI LAGOON FOR KWAJALEIN IN TANDEM TOW WITH  
 H USS CONSERVER TOWING LCT-1184; LCT-1420; AND YOG-83  
 -- ON 5 SEPTEMBER 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 THRU 24		0	4			23
JUL 25	B+0	0	0	0	0	23
JUL 26	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	1b	182	205
JUL 30	B+5	3	0	22	25	230
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	302
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	16	352
AUG 8	B+14	10	0	9	19	371
AUG 9	B+15	9	0	a	17	388
AUG 10	B+16	a	0	a	16	404
AUG 11	B+17	7	0	7	14	418
AUG 12	B+18	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	523
AUG 21	B+27	3	0	4	7	530
AUG 22	B+28	2	0	4	6	536
AUG 23	B+29	2	0	4	6	542
AUG 24	B+30	2	0	3	5	547
AUG 25	B+31	2	7	3	12	559
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	1	0	3	4	579
AUG 31	B+37	1	0	3	4	583
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
SEP 5	Bt42	0	0	2	2	593

## SUPPORT SHIP INFORMATION SUMMARY

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> ( <u>T I M E</u> )	<u>TYPE</u>	<u>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: 0.347 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)

PATH REPORT FOR THE USS GTG-187

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT GRLE
011913	2591M	ENTERED BIKINI LAGOON
011950	2595L	ANCHOR NEAR BERTH #368 - R.TGN. BIKINI 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	2403B	BY US S WHARTON
021222	2601F	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
031608	2604Q	MOORED TO USS PRESQUE ISLE
032400	2604Q	ANCHORED AS BEFORE
041137	2604Q	UNDERWAY
041300	2504Y	LSM-60 ALONGSIDE FOR TOW
041324	2505U	ANCHORED LSM-60 IN BERTH #38
041338	2505U	UNDERWAY FROM LSM-60
041404	2405T	UNDERWAY WITH YW-92 ALONGSIDE (ESTIMATED POSITION)
041452	2502L	YW-92 PUT GLONGSIDE GRB-8 AND UNDERWAY FOR GNCHORGGE
041515	2604Q	MOORED TO USS PRESQUE ISLE
042400	2604Q	MOORED AS BEFORE
250835	2591M	OBSERVED SHOT BAKER - BEARING 247 DEGREES (DISTANCE UNKNOWN)
310809	2591M	ENTERED BIKINI LAGOON
310844	2591M	PASS BUOY #1
310915	2502T	LAY TO OFF USS BARTON
310925	2502T	UNDERWGY FROM USS EGRTON
310948	2591M	MADE FAST TO ARD-29 TO TOW
311044	2504B	ANCHORED IN BERTH #48 WITH TON
311105	2603G	UNDERWAY FOR SMALL BOAT FOOL
311132	2603G	ANCHORED IN BERTH #117
311235	2603G	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	MOORE5 TO USS SEVERN
311736	2695W	UNDERWGY FROM USS SEVERN
311818	2402H	MOORED TO USS HESPERIG
311846	2402H	UNDERWAY FROM USS HESPERIG
311900	2601P	ANCHORED IN BERTH #117
331541	2601P	UNDERWAY
331600	2204D	NEAR USS SGIDOR (ESTIMATED)
331830	2594D	NEAR USS HESPERIA
331905	2594D	UNDERWGY
331945	2594J	ANCHORED IN BERTH "P"

340510 2594J UNDERWAY  
 340700 2504B MADE FAST TO ARD-29  
 340831 2504B UNDERWAY WITH ARD-29  
 341110 2698T ARD-29 ANCHORED  
 341119 2698T UNDERWAY FROM ARD-29  
 341127 2694S ANCHORED IN BERTH "R"  
 341504 2694S UNDERWAY FROM ANCHORAGE TO SEARCH FOR WHALE POATS ADRI  
 F?  
 341645 2694S ANCHORD IN BERTH "R"  
 342400 2694S 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 ALONGSIDE HUGHES  
 531432 2202U LEAVING HUGHES  
 550900 2591M DEPARTED BIKINI LAGOON ENROUTE KWAJALEIN WITH SF-990 I  
 N TOW -- ON 24 AUGUST 1946

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	THRU 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	6	0	14	20	20
AUG 1	B+7	12	0	21	33	53
AUG 2	B+8	10	0	18	28	81
AUG 3	B+9	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	B+13	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	B+17	7	0	7	14	230
AUG 12	B+18	6	0	7	13	243
AUG 13	B+19	6	0	6	12	255
AUG 14	B+20	4	0	6	10	265
AUG 15	B+21	5	0	5	10	275
AUG 16	B+22	4	0	5	9	284
AUG 17	B+23	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	B+27	3	0	4	7	321
AUG 22	B+28	2	11	4	17	338
AUG 23	B+29	2	0	4	6	344
AUG 24	B+30	0	0	3	3	347

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</u>	<u>TYPE</u>	<u>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: 0.547 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)



PATH REPORT FOR THE USS ATA-192

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE
011305	2591M	ENTERED BIKINI LAGOON
011325	22980	FIGHT FIRE ON THE USS NIAGARA
011407	22980	FIGHT FIRE ON THE USS BLADEN
011413	22980	PROCEED TO USS BRACKEN
011417	2299H	FIGHT FIRE ON USS BRACKEN
011446	2299H	UNDERWGY TO EGST OF TGRGET GRRGY
011455	2699H	LAY TO EAST OF TGRGET ARRAY
011732	2699H	UNDERWAY TO ANCHORAGE
011755	2793M	GNCHORED IN BERTH "S"
020700	2793M	UNDERWAY
020740	2402G	LAY TO OFF USS HAVEN
020815	2402G	UNDERWAY TO TGRGET ARRAY
020945	21010	IN VICINITY OF Y0-160
021045	21010	UNDERWGY WITH Y0-160 IN TOW
021229	2499H	MOORED Y0-160 NEGR BERTH 229 (SPENT 30 MINUTES GLONGS I DE Y0-160)
021510	2499H	UNDERWAY TO ANCHORAGE
021528	2793M	GNCHORED IN BERTH "S"
022359	2793M	PASSING SUMMARY 81
030947	2793M	UNDERWAY FROM BERTH
031039	2100G	ALONGSIDE ARDC-13
031204	2100G	LEAVING ARDC-13
031431	27950	BEACH ARDC-13 ON REEF NEAR ENYU ISLAND - POSITION ESTIMATED
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 RECEIVED BY GTG-192 WHILE ALONGSIDE TARGET SHIPS AFTER SHOT ABLE
032400	2793M	PASSING SUMMARY 13
042400	2793M	GNCHORED GS BEFORE
051145	2301R	GLONGSIDE LCI-332
051200	9999A	FGSSING SUMMARY 5 FLUS 2
051201	9999A	SUMMARY 5 FLUS IS THE SUM TOTAL OF ALL FREE FIELD TGRGET SHIP DOSES RECEIVED BY THIS SHIP FOR THE PERIOD 5 JULY THROUGH 24 JULY
051227	2301R	LEAVING LCI-332
061400	2201U	ALONGSIDE NGGGTO
061402	2201U	LEGVING NGGGTO
061416	2201U	GLONGSIDE NGGATO
061731	2201U	LEGVING NGGGTO
070614	2201U	ALONGSIDE NGGGTO
071220	2202V	LEAVING NGGGTO
100725	9999A	FROM 0725 TO 1236 ASSISTED IN SHIFTING USS ARKANSAS TO

NEW BERTH

101624 9999A AT 1624 PLACED BOARDING PARTY ABOARD YO-160 TO TOW THIS VESSEL

111010 9999A FROM 1010 TO 1705 ASSISTED IN MOVING USS NEVADA

120641 9999A FROM 0641 TO 1120 ASSISTED IN MOVING USS SARATOGA TO NEW BERTH

150810 9999A FROM 0810 TO 1040 ASSISTED IN TOWING AND MOVING YOG-83

160554 9999A FROM 0554 TO 0837 ASSISTED IN MOVING USS SARATOGA

170645 9999A FROM 0645 TO 0819 ASSISTED IN MOVING USS CRITTENDEN

171059 9999A FROM 1059 TO 1350 ASSISTED USS SALT LAKE CITY IN SHIFTING BERTHS

230527 9999A FROM 0527 TO 0613 MOORED TO USS MAYRANT

250835 2591M OBSERVED SHOT BAKER

251120 2591M ENTERED BIKINI LAGOON

251130 2793B ANCHORED IN BERTH "I"

251249 2793B UNDERWAY TO TARGET ARRAY

251314 2298M ESTIMATED TARGET POSITION

251333 2793B ANCHORED IN BERTH "I"

260001 2793B ANCHORED AS BEFORE

261735 2793B UNDERWAY TO AID IN BEACHING USS HUGHES

261742 2894H AID IN BEACHING USS HUGHES

261827 2894H RETURN TO ANCHORAGE

261859 27931 ANCHORED IN BERTH "I"

281155 27931 UNDERWAY FROM BERTH

281255 2100P MOORED NEXT TO USS DEN-00A

281256 2100P ALONGSIDE DEN-00A1

281328 2100P LEAVING DEN-00A1

281332 2100P UNDERWAY WITH USS DENT-00A IN TOW

281545 2893M RELIEVED OF TOW BY USS AT-100

281805 1892D ANCHORED 1700 YARDS SOUTH OF BERTH #377

290750 1892D UNDERWAY

290838 2201Y IN VICINITY OF USS NEW YORK

290850 22001 IN VICINITY OF USS BRISCOE

290853 22005 IN VICINITY OF USS CATRON

290857 22005 LAY TO

290902 2200X IN VICINITY OF USS BRACKEN

290910 2200X LAY TO

290913 2200U IN VICINITY OF USS PENNSYLVANIA

290930 2200B IN VICINITY OF USS GASCONADE

290948 2101Q IN VICINITY OF USS PENSACOLA

290953 2000D IN VICINITY OF USS INDEPENDENCE

291006 1901T IN VICINITY OF USS BARROW

291015 2001L IN VICINITY OF USS CRITTENDEN

291022 2001J IN VICINITY OF USS DAWSON

291035 2101B IN VICINITY OF USS BRULE

291041 2002L IN VICINITY OF PRINZ EUGEN

291052 2002D IN VICINITY OF USS STACK

291058 2002E IN VICINITY OF USS WILSON

291108 2102X IN VICINITY OF USS MAYRANT

291115 2202Q IN VICINITY OF USS NEVADA AND NAGATO

291210 22020 PROCEED TO USS KENNETH WHITING  
 291250 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 ALONGSIDE LCT-816  
 300957 2894H LEGVING LCT-816  
 300958 2894H LYING TO  
 301130 2894H UNDERWAY  
 301154 2793B 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 PGLMYHG  
 311325 2794C UNDERWGY FROM USS PGLMYRG  
 311415 2393M TWO MILES WEST OF ENYU ISLAND  
 311450 2794C MOORED TO USS PGLMYRG  
 311650 2794C 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 2205I UNDERWGY TO USS WILDCAT  
 321309 2595S 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 1650 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 DEPRTED BIKINI LAGOON FOR KWJGLEIN WITH USS STACK IN  
 TOW  
 540946 2591M RE-ENTER BIKINI LAGOON  
 551035 2200B GLONGSIDE GGSCONGDE2  
 551209 2200B LEGVING GASCONADE2  
 551330 2591M DEPARTED BIKINI LAGOON FOR KWAJALEIN WITH USS GGSCONGD  
 E IN TOW

580925 2591M RE-ENTER BIKINI LAGOON  
 581019 1901X ALONGSIDE 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

## USS ATA-192 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	2	57		59	59
JUL 3	A+2	0	9		9	68
JUL 4	A+3	0	0		0	68
JUL 5 THRU 24		0	1			69
JUL 25	B+0	5	0	9	14	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	144
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 2	B+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	354
AUG 9	B+15	9	0	8	17	371
AUG 10	B+16	8	0	8	16	387
AUG 11	B+17	7	0	7	14	401
AUG 12	B+18	6	0	7	13	414
AUG 13	et19	6	0	6	12	426
AUG 14	B+20	5	0	6	11	437
AUG 15	B+21	5	0	5	10	447
AUG 16	B+22	4	0	5	9	456
AUG 17	B+23	4	0	5	9	465
AUG 18	B+24	3	0	4	7	472
AUG 19	B+25	1	4	4	9	481
AUG 20	B+26	0	0	4	4	485
AUG 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
AUG 25	B+31	0	0	3	3	521
AUG 26	B+32	0	0	3	3	524
AUG 27	B+33	0	1	3	4	528
AUG 28	B+34	0	0	3	3	531
AUG 29	B+35	0	0	3	3	534
AUG 30	B+36	0	0	3	3	537
AUG 31	B+37	0	0	3	3	540
SEP 1	B+38	0	0	2	2	542
SEP 2	B+39	0	3	2	5	547

## SUPPORTSHIP INFORMATION SUMMARY

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:	<u>TEST</u>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.903 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)

PATH REPORT FOR THE USS ATR-40

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE - "FELT DISTINCT SHOCK"
011313	2591M	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 FURTHER ORDERS
011537	2200P	WENT ALONGSIDE USS CURRENT FOR GEIGER CHECK - RESULTS NEGATIVE
011600	2200P	LEAVING USS CURRENT TO EAST SIDE OF TARGET ARAY
011816	2793F	ANCHORED IN BERTH "JIG"
020705	2793F	UNDERWAY - ASSIST CLEGRING DGMGGED SHIPS
021501	2793F	ANCHORED IN BERTH "JIG"
042400	2793F	ANCHORED AS BEFORE
050807	2793F	UNDERWGY TO NEW ANCHORAGE
051200	9999A	PASSING SUMMARY 5 PLUS 4
051201	9999A	SUMMARY 5 PLUS IS THE SUM TOTAL OF ALL FREE FIELD TGRGET SHIP DOSES RECEIVED BY THIS SHIP FOR THE PERIOD 5 JULY THROUGH 24 JULY
060723	2100J	ALONGSIDE SALT LAKE CITY
060937	2301A	LEAVING SALT LAKE CITY
061032	2201F	ALONGSIDE PENSACOLA
061349	2398M	LEAVING PENSACOLA
061457	2301M	GLONGSIDE SALT LAKE CITY
061630	2301M	LEAVING SALT LAKE CITY
071113	2001R	ALONGSIDE DAWSON
071251	2101F	LEAVING DAWSON
171300	9999A	ALONGSIDE USS CRITTENDEN FOR 3 HOURS
171301	9999A	ALONGSIDE NAGGTO FOR THREE HOURS
201200	9999A	ALONGSIDE YO-160 FOR THREE HOURS WHILE ASSISTING IN ANCHORING
250835	2591M	OBSERVED SHOT BAKER ("EXPLOSION VISIBLE AND AUDIBLE; BUT NO NOTICEABLE WAVES IN GREG OF THIS VESSEL")
251057	2591M	ENTERED BIKINI LAGOON
251137	2794M	GNCHORED IN BERTH "OBOE"
260001	2794M	GNCHORED AS BEFORE
261530	2793M	UNDERWGY TO STAND CLEAR WHILE USS RECLGIMER BEACHES USS HUGHES AT ENYU ISLAND
261823	2693E	GNCHORED - "A" 143.5 DEG POLE ON N.TGNAGENT ENYU IS. 59 DEG
271115	2894H	WASH DOWN OF USS HUGHES COMPLETED; RETURNING TO ANCHORAGE
271231	2693B	MOORED STARBOARD SIDE TO USS RECLGIMER
271245	2693B	UNDERWAY TO ASSIST BEACHING USS FGLLON
271313	2101I	GLONGSIDE FALLON
271319	2101I	LEAVING FGLLON

271323 2101I ALONGSIDE FGLLON  
271328 2101I LEAVING FGLLON  
271406 2894H ALONGSIDE FGLLON  
271413 2894H LEAVING FGLLON  
271455 2693B MOORED TO USS RECLAIMER  
271521 2693B UNDERWAY TO ANCHORAGE  
271528 2794M ANCHORED IN BERTH "OBOE"  
281514 2794M UNDERWAY SHIFTING BERTHS  
281609 1893D ANCHORED - "E" 21.5 DEG "B" 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 MOORED 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  
300900 2201Y COMMENCED WASHDOWN OF USS NEW YORK  
301235 2201Y MANEUVERING CLOSE ABOARD "SS NEW YORK TO MONITOR RADIO  
ACTIVITY  
301312 2201Y MONITORING COMPLETED; PROCEEDING TO GNCHORGGE  
301340 2794M ANCHORED - POLE 71 DEG "A" 162 DEE  
310825 2794M UNDERWAY TO "SS PALMYRA FOR FRESH WATER WATER ANT! FOAM  
ITE  
310905 2794C MOORED STARBOARD SIDE TO USS PALMYRA  
311030 2794C UNDERWAY FROM USS PALMYRA 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 YORK1  
311540 2201Y "NDEFWGY TO "SS WILDCAT FOR FRESH WATER  
311712 2595S MOORED PORT SIDE TO "SS WILDCAT  
311741 2595S UNDERWAY TO ANCHORAGE  
311752 2794M ANCHORED IN BERTH "OBOE"  
330936 2794M UNDERWAY TO ATR-87  
330950 2794G MOORED TO ATR-87 IN BERTH NAN  
330953 2794G 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  
331502 1793N ATR-87 ANCHORED - "H" 259 DEG "B" 346 DEG  
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 LEAVING NEVADA1  
400813 2200U GLONGSIDE PENNSYLVANIA  
401618 2200U LEAVING PENNSYLVANIA  
410832 2200U GLONGSIDE PENNSYLVANIA



411634 2200U LEAVING PENNSYLVANIA  
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 IN TOW ON 23 AUG  
UST 1946 -- ENROUTE KWAJALEIN

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	A+1	0	0		0	3
JUL 3	A+2	0	0		0	3
JUL 4	A+3	0	0		0	3
JUL 5 THRU 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
JUL 28	B+3	1	0	17	18	172
JUL 29	B+4	5	0	21	26	198
JUL 30	B+5	5	0	30	35	233
JUL 31	B+6	4	12	25	41	274
AUG 1	B+7	1	0	21	22	296
AUG 2	B+8	2	0	18	20	316
AUG 3	B+9	0	0	1b	1b	332
AUG 4	B+10	0	0	14	14	346
AUG 5	B+11	0	0	12	12	358
AUG 6	B+12	3	0	11	14	372
AUG 7	B+13	5	55	10	70	442
AUG 8	B+14	9	56	9	74	516
AUG 9	B+15	9	125	B	142	658
AUG 10	B+16	8	114	B	130	788
AUG 11	B+17	7	0	7	14	802
AUG 12	B+18	6	0	7	13	815
AUG 13	B+19	6	0	6	12	827
AUG 14	B+20	5	0	6	11	838
AUG 15	B+21	5	0	5	10	848
AUG 16	B+22	4	0	5	9	857
AUG 17	B+23	4	0	5	9	866
AUG 18	B+24	3	0	4	7	873
AUG 19	B+25	1	4	4	9	882
AUG 20	B+26	0	0	4	4	886
AUG 21	B+27	0	0	4	4	890
AUG 22	B+28	1	0	4	5	895
AUG 23	B+29	0	4	4	8	903

## SUPPORT SHIP INFORMATION SUMMARY

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> ( <u>T I M E</u> )	<u>TYPE</u>	<u>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: 0.485 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

TIME	PLACE	REMARKS
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	UNDERWAY FROM PENNSYLVANIA
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	2402G	STANDING BY USS HAVEN
020926	2402G	PROCEED TO AREA OF USS INDEPENDENCE
021010	2101Y	NEAR USS INDEPENDENCE
021017	2101Y	PROCEED TO USS DAWSON
021230	2001R	STANDING OFF USS DAWSON
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 -- AT 1328 MOORED LET-1114 STARBOARD SIDE TO LCT-1115
051328	2201B	ALONGSIDE LCT-1114
051332	2201B	LEAVING LCT-1114
052358	9999A	PASSING SUMMARY 5 PLUS 1
052359	9999A	SUMMARY 5 PLUS IS THE SUM TOTAL OF ALL FREE FIELD TARGET SHIP DORES RECEIVED BY THIS SHIP FOR THE PERIOD 5 JULY THROUGH 24 JULY
060745	2201P	ALONGSIDE NEVADA
061125	2201P	LEAVING NEVADA
070845	9999A	STANDING BY USS RHIND FROM 0845 TO 0937
071006	2001I	ALONGSIDE CRITTENDEN
071134	2001I	LEAVING CRITTENDEN
110744	9999A	MOORED PORT SIDE USS BRULE FROM 0744 TO 0848
110848	9999A	USS BRULE UNDERWAY TO ANCHORAGE -- ASSISTED BY USS RECLAIMER WITH ATR-67 ON PORT QUARTER -- AT 1049 ATR-87 UNDERWAY FROM BRULE
111205	9999A	FROM 1205 TO 1223 MOORED TO USS FALLON TO PREPARE IN SHIFTING BERTHS
111223	9999A	AT 1223 USS FALLON UNDERWAY ASSISTED BY ATR-87 ON THE STARBOARD BOW -- AT 1450 ATR-87 UNDERWAY FROM USS FALLON
120800	9999A	STANDING BY AS USS HUGHES GETS UNDERWAY -- AT 0835 UNDERWAY TO ANCHORAGE
170923	9999A	FROM 0923 TO 1230 MOORED TO USS SALT LAKE CITY
171315	9999A	FROM 1315 TO 1335 ALONGSIDE NAGATO

171335	9999A	NAGATO UNDERWAY TO SHIFT BERTHS ASSISTED BY ATR-87 TOWING FROM STERN -- FROM 1335 TO 1438
230600	9999A	AT 0600 STANDING BY USS BRISCOE -- AT 0725 CAST OFF TO WIR <sup>2</sup> TO <sup>00</sup> SS BRISCOE
250835	2591M	OBSERVED SHOT BAKER FROM 35 MILES SOUTHEAST
251059	2591M	ENTERED BIKIN LAGOON
251139	2794G	ANCHORED BERTH "NAN"
260001	2794G	ANCHORED AS BEFORE
261541	2794G	UNDERWAY FROM ANCHORAGE
261824	2693I	ANCHORED 450 YARDS WEST OF "JIG" ("A"132 DEG "B" 19 DEG "POL" 52 DEG
281457	2693I	UNDERWAY FOR USS HUGHES (BEACHED)
281513	2894H	COMMENCE WASH DOWN HUGHES
281531	2024H	COMPLETED WASH DOWN
281848	1893N	ANCHORED - 1075 YARDS SOUTH OF BERTH 377
291514	1893N	UNDERWAY FOR HUGHES AND DENTUDA
291647	2894H	COMMENCE WASHDOWN OF HUGHES AND DENTUDA
291800	2894H	UNDERWAY
291830	2293A	STANDING BY USS HAVEN
291831	2293A	PROCEEDING TO ANCHORAGE
291840	1793T	ANCHORED (BN'S "B" 69 DEG "H"258 DEG FLOAT 345 DEG)
300803	1793T	UNDERWAY FOR USS PENNSACOLA
300855	2101Q	WASHING DOWN PENSACOLA
301238	2101Q	ALONGSIDE PENSACOLA
301300	2101Q	LEAVING PENSACOLA
301350	2101Q	UNDERWAY FOR ANCHORAGE
301458	2794G	ANCHORED IN BERTH "NAN"
310812	2794G	UNDERWAY
310905	2304B	STAND BY IN VICINITY OF <sup>00</sup> SS HAVEN
310918	2304B	UNDERWAY FOR USS PENSACOLA
310955	2101Q	LEAVING <sup>00</sup> M <sup>00</sup> N USS PENSACOLA
311105	2101Q	UNDERWAY TO USS PALMYRA
311200	2794C	STAND BY IN VICINITY OF PALMYRA
311238	2794C	UNDERWAY TO ANCHORAGE
311239	2695A	ANCHORED BERTH 343
311340	2695A	UNDERWAY FOR USS PALMYRA
311403	2794C	MOORED TO PALMYRA IN BERTH MIKE
311443	2794C	UNDERWAY
311500	2794G	ANCHORED IN BERTH "NAN"
330957	2794G	UNDERWAY TO SHIFT BERTH
331029	2694R	ANCHORED 600 YARDS WEST OF BERTH "HOW" (BN'S "A" 139 DEG "B"26 DEG POLE 68 DEG)
331352	2694R	UNDERWAY FOR ANCHORAGE
331505	1793N	ANCHORED (BN'S "H" 257 DEG "A"95 DEG FLOAT 346.5 DEG)
352400	1793N	ANCHORED AS BEFORE
371400	2200B	ALONGSIDE G <sup>0</sup> SCONADE2
371424	2200B	LEAVING G <sup>0</sup> SCONADE2
371509	2200B	ALONGSIDE G <sup>0</sup> SCONADE2
371516	2200B	LEAVING G <sup>0</sup> SCONADE2

380925	2101B	ALONGSIDE BRLE
380955	2101B	LEAVING BRLE
391545	2200X	ALONGSIDE BRACKEN2
391614	2200X	LEAVING BRACKEN2
401342	2001J	ALONGSIDE DAWSON
401420	2001J	LEAVING DAWSON
410824	2202K	ALONGSIDE NEVADA2
411633	2202K	LEAVING NEVADA2
511020	2102H	ALONGSIDE TRIPPE2
511120	2102H	LEAVING TRIPPE2
511330	2591M	DEPARTED BIKINI LAGOON ENROUTE KWAJALEIN WITH USS TRIPPE IN TOW
541305	2591M	REENTER BIKINI LAGOON
551047	2591M	LEAVE BIKINI LAGOON WITH AFL-27 IN TOW - ENROUTE KWAJALEIN
581116	2591M	REENTER BIKINI LAGOON HEADING FOR ANCHORAGE IN BERTH 245
591010	2301G	ALONGSIDE MUSTIN2
591055	2301G	LEAVING MUSTIN2
591220	2591M	DEPARTED BIKINI LAGOON WITH USS MUSTIN IN TOW - ENROUTE KWAJALEIN
620933	2591M	REENTER BIKINI LAGOON
631507	2403H	ALONGSIDE LCT 112
631649	2202N	ALONGSIDE LCT-818
631803	2591M	LEAVING LCT-112
631804	2591M	LEAVING LCT 818
631914	2591M	DEPARTED BIKINI LAGOON 1 SEPTEMBER 1946 - ENROUTE KWAJALEIN WITH LCT-818 AND LCT 1112 IN TOW

## USS ATR-87 CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	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	9
JUL 5	THRU 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	1b	52	63
JUL 31	B+6	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	165
AUG 6	B+12	3	17	11	31	196
AUG 7	B+13	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	B+17	7	0	7	14	349
AUG 12	B+18	b	0	7	13	362
AUG 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 16	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
AUG 21	B+27	0	0	4	4	442
AUG 22	B+28	0	0	4	4	446
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
AUG 30	B+36	0	0	3	3	473
AUG 31	B+37	1	0	3	4	477
SEP 1	B+38	0	b	2	8	485

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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-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-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: 0.147 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
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010900	2591M	OBSERVED SHOT ABLE
011438	2591M	ENTERED BIKINI LAGOON
011545	2204K	ANCHORED IN BERTH 54
011603	2204K	UNDERWAY FROM BERTH 54
011632	2402W	ANCHORED IN BERTH 145
021225	2402W	UNDERWAY FROM BERTH 145
021251	2203U	ANCHORED IN BERTH 108A
042400	2203U	ANCHORED AS BEFORE
250835	2591M	OBSERVED SHOT BAKER
251419	2591M	ENTERED BIKINI LAGOON
251443	2795F	ANCHORED IN BERTH "B"
260001	2795F	ANCHORED AS BEFORE
281710	2795F	UNDERWAY FROM BERTH "B"
281800	2393I	PASSED BUOY #3 LEAVING HARBOR
281810	2591M	EXIT BIKINI LAGOON
291050	2591M	REENTER BIKINI LAGOON
291100	2393I	PASSED BUOY #3
291109	2292H	ANCHORED IN BERTH "K"
300758	2292H	UNDERWAY FROM BERTH "K"
300856	2205I	ANCHORED IN BERTH 20
331500	2205I	UNDERWAY FROM BERTH 20
331630	2293D	ANCHORED IN BERTH "B"
380935	2293D	UNDERWAY
380953	2591M	DEPART BIKINI LAGOON FOR SAN FRANCISCO 07 AUG 1946

USS AVERY **ISLAND** 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	A+1	8	0		8	11
JUL 3	A+2	1	0		1	12
JUL 4	A+3	0	0		0	<b>12</b>
JUL 5	THRU 24	0	0			<b>12</b>
JUL 25	B+0	0	0	0	0	<b>12</b>
JUL 26	B+1	0	0	0	0	<b>12</b>
JUL 27	B+2	0	0	1	1	<b>13</b>
JUL 28	B+3	1	0	5	6	<b>19</b>
JUL 29	B+4	0	0	4	4	23
JUL 30	B+5	9	0	11	20	<b>43</b>
JUL 31	B+6	14	0	<b>13</b>	27	70
AUG 1	B+7	15	0	11	26	<b>96</b>
AUG 2	B+8	10	0	9	19	<b>115</b>
AUG 3	B+9	0	0	8	8	<b>123</b>
AUG 4	B+10	0	0	7	7	130
AUG 5	B+11	0	0	6	6	<b>136</b>
AUG 6	B+12	0	0	6	6	<b>142</b>
AUG 7	B+13	0	0	5	5	<b>147</b>

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>( T I M E )</u>	<u>TYPE</u>	<u>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: 0.519 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	2292I	UNDERWAY IN LAGOON
011125	1302M	CHANGED COURSE TO 090 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 BERTH 367 "A"
020744	2598E	ANCHORED IN BERTH 251 "A" "S"
042400	2598E	ANCHORED AS BEFORE
250940	2591M	ENTER BIKINI LAGOON
250952	2594U	PASSED BUOY #4 TO PORT
250958	2595K	CHANGED COURSE TO 255 DEG.
251030	1594M	CHANGED COURSE TO 270 DEG.
251112	2591M	DEPARTED BIKINI LAGOON
260140	2591M	RE-ENTERED BIKINI LAGOON
260211	2592W	LYING TO IN GRID SQUARE 2592W FOR RADIOLOGICAL SOUNDING
260232	2592W	UNDERWAY TO GRID SQUARE 2596W
260348	2596W	ANCHORED IN BERTH 342
281550	2596W	UNDERWAY
281607	2594U	PASSED BUOY #4 TO STARBOARD
281615	2591M	DEPARTED BIKINI LAGOON TO BEGIN DOWNWIND RADIOLOGICAL SOUNDING TRACK
291125	2591M	REENTER BIKINI LAGOON
291135	2292E	ANCHORED
291421	2292E	UNDERWAY TO SHIFT ANCHORAGE
291433	2794B	ANCHORED
301431	2794B	UNDERWAY TO REFUEL
301802	2502S	ANCHORED IN BERTH 127 "W"
310830	2502S	UNDERWAY TO SHIFT BERTHS
310835	2502Q	ANCHORED IN BERTH 147 "W"
310906	2502Q	UNDERWAY TO SHIFT BERTHS
310910	2502T	ANCHORED IN BERTH 147 "E"
331440	2502T	UNDERWAY TO SHIFT BERTHS
331526	2293U	ANCHORED IN BERTH "E"
360740	2293U	UNDERWAY
360746	2591M	DEPARTED BIKINI LAGOON
361705	2591M	RE-ENTERED BIKINI LAGOON
361715	2293U	ANCHORED IN BERTH "E"
380852	2293U	UNDERWAY TO SHIFT BERTHS
380918	2502Q	ANCHORED IN BERTH 147 "W"
411230	2502Q	UNDERWAY TO EXIT LAGOON
411305	2591M	DEPARTED BIKINI LAGOON ENROUTE TO SAN FRANCISCO VIA PEARL HARBOR 10 AUG 1946

USS BARTON CALCULATED FILM BGDGE DOSE (IN MREM)

DATE	TIME	LGGOON WATER	TARGET SHIPS	SHIP CONTGMINGTION	DGILV TOTAL	CUM TOTGL
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	0	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	B+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 6	B+12	0	0	13	13	451
GUG 7	B+13	b	0	11	17	468
GUG 8	B+14	10	0	10	20	488
GUG 9	B+15	9	0	10	19	507
GUG 10	B+16	3	0	9	12	519

## SUPPORT SHIP INFORMATION SUMMARY

SHIP: USS **BAYFIELD (APA-33)**

CREW SIZE: 428

GROUP: TRANSPORT

MISSION: BAYFIELD, a member of the Transport Unit, 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 **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 M E )	<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: 0.063 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)

PATH 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	2194Q	ANCHORED BERTH "A"
300829	2194Q	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 CONTAHINGTON	DAILY TOTAL	curl 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 THRU 24		0	0			1
JUL 25	B+0	0	0	0	0	1
JUL 26	B+1	1	0	0	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	43
AUG 2	B+8		0	7	14	57
AUG 3	B+9	0	0	6	6	63



## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.114 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	2591M	OBSERVED SHOT ABLE FROM A DISTANCE OF APPROXIMATELY 15 MILES TO THE SOUTHEAST
011130	2591M	ENTERED BIKINI LAGOON
011215	2793M	ANCHORED OFF ENYU ISLAND
011528	2793M	UNDERWAY
011610	2405S	ANCHORED IN BERTH 37
042400	2405S	ANCHORED AS BEFORE
251030	2591M	ENTERING BIKINI LAGOON
251054	2793M	ANCHORED OFF ENYU ISLAND
260001	2793M	ANCHORED AS BEFORE
281558	2793M	UNDERWAY TO SHIFT BERTHS
281630	2292H	ANCHORED IN BERTH "J"
301030	2292H	UNDERWAY FROM BERTH "J"
301110	2405S	ANCHORED IN BERTH 37
331300	2205S	UNDERWAY
331530	2293L	ANCHORED IN BERTH "D"
340740	2293L	UNDERWAY TO REFUEL AT USS CHIKASKIA
340823	2696N	MOORED TO USS CHIKASKIA FOR REFUELING
341220	2696N	UNDERWAY
341221	2591M	DEPARTED BIKINI LAGOON ENROUTE FOR PEARL HARBOR 03 AUG 1946

USS BEGOR 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	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	0	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	12	13	114

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>( T I M E )</u>	<u>TYPE</u>	<u>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 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: 0.236 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 FOR 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	ENTERED BIKINI LAGOON AFTER SHOT BAKER
300751	2402W	ANCHORED BERTH #145
331501	2402W	UNDERWAY TO SHIFT BERTHS
331724	2392D	ANCHORED BERTH "NAN"
380855	2392D	UNDERWAY FROM 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 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 THRU 24		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	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	6	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	12	142
GUG 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	200
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 1	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

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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-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-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: 0.231 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

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE ON A BEARING OF 055 DEG AND G DISTANCE OF 22 MILES
011646	2591M	ENTERED BIKINI 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 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
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	2097K	ANCHORED IN BERTH 273
331633	2097K	UNDERWAY TO SHIFT BERTHS
331722	1895Y	ANCHORED IN BERTH 351
340801	1895Y	UNDERWAY TO SHIFT BERTHS
340820	2094E	ANCHORED IN BERTH 355
380802	2094E	UNDERWAY TO SHIFT BERTHS
380842	2097K	ANCHORED IN BERTH 278
541530	2097K	UNDERWAY TO EXIT LAGOON
541540	2591M	TOOK DEPARTURE OF BIKINI LAGOON ENROUTE TO KWAJALEIN 23 AUG 1946



USS BEXAR CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	curl TOTAL
JUL 1	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
JUL 5	THRU 24	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	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	2	0	5	7	12
JUL 31	B+6	6	0	12	18	30
AUG 1	B+7	9	0	11	20	50
AUG 2	B+8	B	0	9	17	67
AUG 3	B+9	ij	0	8	B	75
AUG 4	B+10	ij	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	12	106
GUG B	B+14	10	0	5	15	121
AUG 9	B+15	9	0	4	13	134
AUG 10	B+16	B	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	B	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	224
AUG 22	B+28	2	0	2	4	228
AUG 23	B+29	1	0	2	3	231

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>( T I M E )</u>	<u>TYPE</u>	<u>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: 0.001 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
010900	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	2305G	ANCHORED AS BEFORE
250835	2591M	OBSERVED 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	GNCHOED IN BERTH 357
301030	2194B	UNDERWAY TO PEARL HARBOR VIA EONGELAF
301100	2591M	EXITED BIKINI LAGOON 30 JULY 1746 - ENPOUTE TO PEARL HARBOR VIA RONGELAP

USS BLUE RIDGE 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	0	0		0	1
JUL 4	A+3	0	0		0	1
JUL 5 THRU 24		0	0			1
JUL 25	B+0	0	0	0	0	1
JUL 25	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	0	0	0	0	1

## SUPPORT SHIP INFORMATION SUMMARY

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 detonations.

SHOT DATA:	<u>TEST</u>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.178 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	REMARKS
010900	2591M	OBSERVED SHOT ABLE FROM AREA MARMON
011703	2591M	ENTERED BIKINI LAGOON AFTER SHOT ABLE
011730	2197N	ANCHORED IN BERTH 299
021403	2197N	UNDERWAY TO BERTH 224
021421	2100X	ANCHORED IN BERTH 224
040900	2100X	ANCHORED A S BEFORE
250835	2591M	OBSERVED S H O T BAKER FROM AREA MARMON
300545	2591M	ENTERED BIKINI LAGOON AFTER SHOT BAKER
300633	2098H	ANCHORED IN BERTH 261
331428	2098H	UNDERWAY TO NEW ANCHORAGE
331446	2195P	ANCHORED I N BERTH 356
380754	2195P	UNDERWAY TO N E W ANCHORAGE
380814	2098H	ANCHORED IN BERTH 2 6 1
410528	2098H	UNDERWAY TO DEPART BIKINI
410610	2591M	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 TOTAL	CUM 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	THRU 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	20	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	6	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

## SUPPORT SHIP INFORMATION SUMMARY

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:	<u>TEST</u>	<u>D A T E</u> ( <u>T I M E</u> )	<u>TYPE</u>	<u>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). 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
250835	2591M	OBSERVED SHOT BAKER FROM A DISTANCE OF 13 MILES TO THE NORTHEAST OF SURFACE ZERO
270800	2591 M	DEPARTED BIKINI WATERS ENROUTE PEARL HARBOR -- BOUNTIF UL DID NOT RE-ENTER BIKINI LAGOON AFTER SHOT 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	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

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.143 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
011847	2596M	ANCHORED IN BERTH 322
031259	2596M	UNDERWAY FROM BERTH 322
031322	2599K	ANCHORED IN BERTH 230
042400	2599K	ANCHORED AS BEFORE
250835	2591M	ANCHORED AT RONGELAP ATOLL AT TIME OF SHOT BAKER
321345	2591M	ENTERED BIKINI LAGOON
321416	2598E	ANCHORED IN BERTH 251
331505	2598E	UNDERWAY TO SHIFT BERTHS
331533	2393H	ANCHORED BETWEEN BERTHS #385 AND "ITEM" - "A" 104 DEG "B" 52 DEG "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)

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 THRU 24		0	0			0
JUL 25	B+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	5	0	4	9	9
AUG 2	B+8	8	0	9	17	26
AUG 3	B+9	0	0	8	8	34
AUG 4	B+10	0	0	7		41
AUG 5	B+11	0	0	6	6	47
AUG 6	B+12	0	0	6	6	53
AUG 7	B+13	0	0	5	5	58
AUG 8	B+14	0	0	5	5	63
AUG 9	B+15	0	0	4	4	67
AUG 10	B+16	0	0	4	4	71
AUG 11	B+17	0	0	4	4	75
AUG 12	B+18	0	0	3	3	78
AUG 13	B+19	0	0	3	3	81
AUG 14	B+20	0	0	3	3	84
AUG 15	B+21	0	0	3	3	87
AUG 16	B+22	0	0	3	3	90
AUG 17	B+23	0	0	2	2	92
AUG 18	B+24	0	0	2	2	94
AUG 19	B+25	0	0	2	2	96
AUG 20	B+26	0	0	2	2	98
AUG 21	B+27	0	0	2	2	100
AUG 22	B+28	0	0	2	2	102
AUG 23	B+29	0	0	2	2	104
AUG 24	B+30	0	0	2	2	106
AUG 25	B+31	0	0	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 31	B+37	0	0	1	1	116
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

SEP 5	B+42	0	0	1	1	121
SEP 6	B+43	0	0	1	1	122
SEP 7	B+44	0	0	1	1	123
SEP 8	B+45	0	0	1	1	124
SEP 9	B+46	0	0	1	1	125
SEP 10	B+47	0	0	1	1	126
SEP 11	B+48	0	0	1	1	127
SEP 12	B+49	0	0	1	1	128
SEP 13	B+50		0	1	1	129
SEP 14	B+51	0	0	1	1	130
SEP 15	B+52	0	0	1	1	131
SEP 16	B+53		0	1	1	132
SEP 17	B+54	0	0	1	1	133
SEP 18	B+55	0	0	1	1	134
SEP 19	B+56	0	0	1	1	135
SEP 20	B+57		0	1	1	136
SEP 21	B+58		0	1	1	137
SEP 22	B+59	0	0	1	1	138
SEP 23	B+60	0	0	1	1	139
SEP 24	B+61	0	0	1	1	140
SEP 25	B+62	0	0	1	1	141
SEP 26	B+63	0	0	1	1	142
SEP 27	B+64	0	0	1	1	143

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>( T I M E )</u>	<u>TYPE</u>	<u>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: 0.302 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 REPORT FOR THE USS BRAMBLE

TIME	PLACE	REMARKS
-----	-----	-----
010900	2591M	UNDERWAY FROM PEARL HARBOR TO KWAJALEIN DURING SHOT A5 LE
250835	2591M	OBSERVED SHOT BAKER BEARING 250 DEGREES 15 MILES
250836	2591M	DEPARTED 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 PERSONNEL CAME ABOARD FROM HAVEN TO CHECK FFOR RADIOACTIVITY-NONE FOUND
551233	2591M	DEPARTED BIKINI LAGOON ENROUTE KWAJALEIN 24 AUGUST 194 6



USS BRAMBLE 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 THRU 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	6	0	15	21	21
AUG 1	B+7	10	0	19	29	50
AUG 2	B+8	8	0	17	25	75
AUG 3	B+9	0	0	14	14	89
AUG 4	B+10	0	0	13	13	102
AUG 5	B+11	0	0	11	11	113
AUG 6	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	0	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	B+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	0	4	7	289
AUG 22	B+28	2	0	3	5	294
AUG 23	B+29	2	0	3	5	299
AUG 24	B+30	0	0	3	3	302

## SUPPORT SHIP INFORMATION SUMMARY

**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>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.066 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 SHIFT BERTHS
011618	2503L	ANCHORED IN BERTH #115
021252	2503L	UNDERWAY TO SHIFT BERTHS
021317	2003T	ANCHORED IN BERTH #107
040900	2003T	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	RETURNED FROM SEA TO LAGOON
290905	2294M	ANCHORED IN BERTH #383
300805	2294M	UNDERWAY
300921	2403S	ANCHORED BETWEEN BERTHS 113 AND 115
301711	2403S	UNDERWAY
301750	2591M	DEPARTED LAGOON FOR KWAJALEIN
350833	2591M	RETURNED TO BIKINI LAGOON
350856	2293M	ANCHORED IN BERTH DOG
361440	2293M	UNDERWAY
361456	2591M	DEPARTED BIKINI LAGOON 5 AUGUST 1946

USS BURLESON 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	0		4	4
JUL 3	A+2	1	0		1	5
JUL 4	A+3	0	0		0	5
JUL 5 THRU 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	11	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

## SUPPORTSHIP INFORMATION SUMMARY

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:	<u>TEST</u>	<u>D A T E</u>	<u>( T I M E )</u>	<u>TYPE</u>	<u>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-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-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: 0.229 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	2698C	ANCHORED BERTH #251A
021400	2698C	UNDERWAY TO NEW ANCHORAGE
021419	2599D	ANCHORED IN BERTH #207A
042400	2599D	ANCHORED AS BEFORE
250835	2591M	STEAMING IN AREA PACKARD ENROUTE TO RONGELAP AT TIME O F SHOT BAKER
301656	2591M	ENTERED BIKINI LAGOON
301740	2599D	ANCHORED IN BERTH 207A
331504	2599D	UNDERWAY TO BERTH "ROGER"
331601	2594T	ANCHORED IN BERTH "ROGER"
352400	2594T	ANCHORED AS BEFORE
541400	2503D	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 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 THRU 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	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	6	6	86
AUG 6	B+12	0	0	6	6	92
AUG 7	B+13	7	0	5	12	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

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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). 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 TO 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 F 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	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

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.400 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

TIME	PLACE	REMARKS
010900 2591M		OBSERVED SHOT ABLE
011305 2591M		ENTERED BIKINI LAGOON
011426 2501K		LYING TO EASTWARD OF TARGET AREA
011815 2794G		ANCHORED BERTH "F"
020845 2794G		UNDERWAY TO USS HAVEN TO EMBARK RADIOLOGICAL MONITORS
030919 2402L		UNDERWAY TO USS INDEPENDENCE
021104 2101X		OFF STATION BOW OF USS INDEPENDENCE
02 215 2101X		UNDERWAY WITH USS INDEPENDENCE IN TOW
02 845 596G		ALONGSIDE MOORING BUOY IN BERTH #307
021738 1596D		UNDERWAY
021800 1596D		ANCHORED BERTH 307
030827 1596D		UNDERWAY
030953 17961		ANCHORED BERTH 292
042400 17961		ANCHORED AS BEFORE
051200 99991		PASSING SUMMARY 5 PLUS 1.4
051201 99991		SUMMARY 5 PLUS IS THE SUM TOTAL OF ALL TARGET SHIP DOES RECEIVED BY THIS SHIP FOR THE PERIOD 5 JULY THROUGH 24 JULY
07 300 9999A		ALONGSIDE USS DAWSON FOR 1 HR 15 MIN
091200 99991		ALONGSIDE USS INDEPENDENCE FOR 4 HRS 40 MIN
101200 9999A		ALONGSIDE USS ARKANSAS FOR 4 HRS 50 MIN
111200 99991		ALONGSIDE USS NEADA FOR 4 HRS 6 MIN
121200 99991		ALONGSIDE USS SARATOGA FOR 2 HRS 26 MIN
151200 9999A		ALONGSIDE USS CRITTENDEN FOR 2 HRS 11 MIN
161200 99991		ALONGSIDE USS SARATOGA FOR 2 HRS 11 MIN
161201 9999A		ALONGSIDE USS MAYRANT FOR 2 HRS 55 MIN
250835 2591M		DISCOVERED SHOT BAKER BEARING 320 DEG AND DISTANCE OF 12 MILES
250116 2591M		ENTERING BIKINI LAGOON
250143 2794V		ANCHORED BERTH "H"
251240 2794V		UNDERWAY (ORDERED TO TOW USS SARATOGA
251311 2399M		ENROUTE TO USE SARATOGA - ORDER REVERSED
251337 2794V		ANCHORED BERTH "H"
260001 2794V		ANCHORED AS BEFORE
281248 2794V		UNDERWAY
281330 2199A		CUT USS TUNA'S ANCHOR AND RIGGED TOW WIRE
281403 2199A		UNDERWAY - USE TUNA IN TOW
281636 2794C		MOORED USS TUNA TO BUOY IN LEE OF FOKOR ISLAND
281649 2798C		UNDERWAY
281725 1993M		ANCHORED 1400 YARDS SOUTH OF BERTH 378
290905 1993M		UNDERWAY
290940 2894H		ANCHORED IN VICINITY OF USS HUGHES
291829 2894H		UNDERWAY
291902 1993M		ANCHORED ON BEARINGS - "B" 67 DEG "C" 43 DEG "F" 22 DEG
301758 1093M		UNDERWAY

301848 2591M EXITED BIKINI LAGOON  
 320803 2591M RE-ENTERED BIKINI LAGOON  
 320929 2794V ANCHORED BERTH "H"  
 331508 2794V UNDERWAY TO SHIFT BERTHS  
 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 DEPARTED BIKINI LAGOON  
 530950 2591M RE-ENTERED BIKINI LAGOON  
 541059 2301A UNDERWAY WITH USS SALT LAKE CITY IN TOW  
 541252 2591M DEPARTED 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	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 THRU 24		0	1			3
JUL 25	B+0	5	0	7	12	15
JUL 26	B+1	0	0	2	2	17
JUL 27	B+2	0	0	2	2	19
JUL 28	B+3	4	0	25	29	48
JUL 29	B+4	1	0	21	22	70
JUL 30	B+5	0	0	18	18	88
JUL 31	B+6	0	0	15	15	103
AUG 1	B+7	0	0	13	13	116
AUG 2	B+8	0	0	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	B+15	9	40	8	57	267
AUG 10	B+16	8	0	8	16	283
AUG 11	B+17	7	0	7	14	297
AUG 12	B+18	6	0	7	13	310
AUG 13	B+19	6	0	6	12	322
AUG 14	B+20	5	0	6	11	333
AUG 15	B+21	5	0	5	10	343
AUG 16	B+22	4	0	5	9	352
AUG 17	B+23	4	0	5	9	361
AUG 18	B+24	3	0	4	7	368
AUG 19	B+25	1	0	4	5	373
AUG 20	B+26	0	0	4	4	377
AUG 21	B+27	0	0	4	4	381
AUG 22	B+28	1	0	4	5	386
AUG 23	B+29	1	0	4	5	391
AUG 24	B+30	0	0	3	3	394
AUG 25	B+31	0	0	3	3	397
AUG 26	B+32	0	0	3	3	400

## SUPPORTSHIPINFORMATIONSUMMARY

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>	<u>D</u>	<u>A</u>	<u>T</u>	<u>E YIELD</u>	<u>(TIME)</u>	<u>TYPE</u>	<u>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: 0.198 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	2591M	ENTERED BIKINI LAGOON
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 TGRG ET SHIP DOSES RECEIVED BY THIS SHIP FOR THE PERIOD 5 J ULY THROUGH 24 JULY
060848	1597U	ALONGSIDE SGRATOGA
061340	1597U	LEAVING SARATOGA
100740	2200W	ALONGSIDE PENNSYLVANIA
101155	2200W	LEAVING PENNSYLVANIA
101635	2598R	ALONGSIDE NEVADA
110752	2598R	LEAVING NEVADA
140742	2201P	ALONGSIDE ARKANSAS
141050	2201P	LEAVING ARKANSAS
250835	2591M	OBSERVED SHOT BAKER WHILE ANCHORED GT KWAJALEIN ATOLL
301709	2591M	ENTERED BIKINI LAGOON
301735	2598B	ANCHORED IN BERTH #250
330655	2598B	UNDERWAY FOR USS ENOREE
330719	2697V	ALONGSIDE USS ENOREE IN BERTH #305
331629	2697V	UNDERWAY FROM USS ENOREE
331708	2591M	EXITED BIKINI LAGOON TO DISLHGRGE CONTAMINATED OIL
331832	2591M	ANCHORED SOUTHWEST OF BUOY #1
340642	2591M	UNDERWAY FOR USS ENOREE - RE-ENTERING BIKINI LAGOON
340708	2594G	ALONGSIDE USS ENOREE IN BERTH "0808"
341333	2594G	UNDERWAY FROM USS ENOREE
341356	2591M	DEPARTED BIKINI LAGOON FOR KWAJALEIN
450607	2591M	RE-ENTERED BIKINI LAGOON
511132	2400R	LCDR J W DROWN GND DR. E F KINNEY COMPLETED TEST AND R EPORTED ENGINEERING SPACES SAFE FOR PERSONNEL
541706	2591M	DEPARTED BIKINI LAGOON ON 23 AUGUST 1946 - ENROUTE PEARL HARBOR VIA KWAJALEIN



USS CHIKASKIA CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIFS	SHIP CONTAMI NATION	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 THRU 24		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	B+5	1	0	2	3	4
JUL 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 6	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	B+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 16	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

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</u>	<u>TYPE DETONATION</u>
	ABLE	1 July 46 (0900)	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-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

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE AT A DISTANCE OF 94 MILES; BEARING 340 DEGREES
020642	2591M	ENTERED BIKINI LAGOON
020755	2504B	ANCHORED IN BERTH 43
020850	2504B	UNDERWAY
020930	2596M	LYING TO ASTERN OF USS BOWDITCH
020948	2596M	UNDERWAY
021005	2591M	EXITED BIKINI LAGOON FOR KWAJALEIN
021102	2591M	RE-ENTER BIKINI LAGOON TO PICK UP PASSENGERS FROM DIXIE
021110	2594U	PASS BUDY #4 - 200 YARDS TO PORT
021130	2500M	STAND BY USS DIXIE TO RECEIVE PASSENGERS
021203	2500M	UNDERWAY
021216	2494Y	PASS BUDY #4 200 YARDS TO STARBOARD
021223	2591M	DEPARTED BIKINI LAGOON FOR KWAJALEIN
041122	2591M	RE-ENTERED BIKINI LAGOON
041139	2594U	PASS BUDY #4; 250 YARDS TO PORT
041229	2600K	ANCHORED IN BERTH 191A
041525	2600K	UNDERWAY
041605	2602A	MOORED NORTHWEST OF BEACON "CHARLEY" (POSITION ESTIMATED)
041611	2602A	UNDERWAY
041626	2600K	ANCHORED IN BERTH 191A
042400	2600K	ANCHORED AS BEFORE
051200	9999A	PASSING SUMMARY 5 PLUS 0
051201	9999A	SUMMARY 5 PLUS IS THE SUM TOTAL OF ALL FREE FIELD TARGET SHIP DESEs RECEIVED BY THIS SHIP FOR THE PERIOD 5 JULY THROUGH 24 JULY
131200	9999A	MOORED ALONGSIDE USS PENNSYLVANIA FOR APPROXIMATELY 3 HOURS
171200	9999A	ALONGSIDE USS INDEPENDENCE FOR APPROXIMATELY 5 MINUTES
171201	9999A	MOORED ALONGSIDE USS ARKANSAS FOR APPROXIMATELY 31 MINUTES
181200	9999A	ALONGSIDE USS INDEPENDENCE FOR APPROXIMATELY 10 MINUTES
250835	2591M	OBSERVED SHOT BAKER BEARING 260 DEGREES
310724	2591M	ENTERED BIKINI LAGOON
310740	2494Y	PASS BUDY #4 - 30 YARDS
310815	2599D	ANCHORED IN BERTH #207
310938	2599D	UNDERWAY
311031	2604K	MOORED YF-990 TO LST-361 IN BERTH #64
311159	2098W	MOORED YO-132 TO APA-33 IN BERTH #279
311202	2098W	UNDERWAY FROM APA-33
311232	2600P	ANCHORED IN BERTH 191A
320756	2600P	UNDERWAY
320859	2304B	PICK UP RADIOACTIVITY MONITOR FROM USS HAVEN

320912 2304B UNDERWAY  
 321030 9594T ANCHORED OFF CHIEERETE ISLAND - R.TAN. CHIEERETE IS. 2  
 53 DEG L.TAN. CHIEERETE 222 DEG R. TAN. ROKOJ ISLAND  
 167 DEG  
 321234 9594T UNDERWAY  
 321406 9513C ANCHORED OFF NAMU ISLAND - R.TAN. NAMU 51.5 DEG R.TAN  
 BOKONEJLEN 280 DEG  
 321615 9513C 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)  
 340811 0813P ANCHORED OFF YURO ISLAND - RIGHT TREE YURO 347.5 DEG  
 LEFT TREE YURO 302 DEG RIGHT TREE UORIKKU ISLAND 47.5  
 DEG  
 341225 0813P UNDERWAY  
 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 BERTH 364  
 352400 2395H ANCHORED AS BEFORE  
 450948 2002E ALONGSIDE WILSON2  
 451235 2002E LEAVING WILSON2  
 451247 2102H ALONGSIDE TRIPPE2  
 451414 2102H LEAVING TRIPPE2  
 451430 2102X ALONGSIDE MAYRANT2  
 451610 2102X LEAVING MAYRANT2  
 461424 2201Y ALONGSIDE NEW YORK2  
 461533 2201Y LEAVING NEWYORK2  
 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  
 591815 2591M DEPARTED BIKINI LAGOON WITH USS BRULE IN TOW ON 28 AUG  
 US? 1946 -- ENROUTE KWAJALEIN

## USS CHOWANOC CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TDTGL
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	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	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 6	B+12	6	0	11	17	168
AUG 7	B+13	6	0	10	16	184
AUG 8	E+14	10	0	9	19	203
AUG 9	B+15	9	0	8	17	220
AUG 10	B+16	8	0	8	16	236
AUG 11	E+17	7	0	7	14	250
AUG 12	B+18	6	0	7	13	263
AUG 13	B+19	6	0	6	12	275
AUG 14	B+20	5	55	6	66	341
AUG 15	B+21	5	1	5	11	352
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	B+29	0	0	4	4	401

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.651 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	2200S	ALONGSIDE CATRON
011450	2200S	LEAVING CATRON
011510	2200S	ALONGSIDE CATRON
011515	2200S	LEAVING CATRON
011632	2200S	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 RECEIVED BY THE USS CLAMP WHILE ALONGSIDE TARGET SHIPS AFTER SHOT ABLE
020710	2793A	UNDERWAY
020817	2200S	ALONGSIDE CATRON
020820	2200S	INITIAL BOARD TEAM NO. 2 BOARDED
020849	2200S	BOARDING TEAM RETURNED
020850	2200S	LEAVING CATRON
020859	2200I	ALONGSIDE BRISCOE
020901	2200I	BOARDING TEAM BOARDS USS BRISCOE
020947	2200I	BOARDING PARTY RETURNS
020948	2200I	LEAVING BRISCOE
021008	2301A	ALONGSIDE CARTERET
021011	2301A	BOARDING TEAM BOARDS VESSEL
021050	2301A	BOARDING TEAM RETURNS
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	ALONGSIDE RALPH TALBOT
021242	2201M	BOARDING TEAM BOARDED VESSEL
021320	2201M	BOARDING TEAM LEAVES VESSEL
021328	2201M	LEAVING RALPH TALBOT
021414	2201V	ALONGSIDE NAGATO
021415	2201V	BOARDING TEAM BOARDS VESSEL
021525	2201V	BOARDING TEAM RETURNS
021527	2201V	LEAVING NAGATO
021539	2201P	ALONGSIDE NEVADA
021541	2201P	BOARDING TEAM BOARDS VESSEL
021647	2201P	BOARDING TEAM RETURNS
021648	2201P	LEAVING NEVADA
021725	2103H	BOARDING TEAM DISEMBARKED TO AF-7 (USS WHARTON)
021729	2103H	UNDERWAY

021827 2794K	MODRED ALONGSIDE USS DELIVER
022359 2794K	PASSING SUMMARY 18
031113 2794K	UNDERWAY FROM USS DELIVER FOR USS SOLICITE (A A 99)
031615 2793F	ANCHORED IN BERTH "ITEM"
042400 2793F	ANCHORED AS BEFORE
051321 22010	ALONGSIDE HUGHES
051441 22010	LEAVING - JHES
051850 22010	ALONGSIDE NAGATO FOR 37 HRS 9 MIN
052359 9999A	PASSING SUMMARY 5 PLUS 9.8
052400 9999A	SUMMARY 5 PLUS 15 --E SUM TOTAL OF ALL FREE FIELD TARG
	ET SHIP DOSES RECEIVED BY THIS SHIP FOR THE PERIOD 5 J
	ULY THROUGH 24 JULY
070759 22010	END OF PERIOD ALONGSIDE NAGATO (BEGINS 051850)
111200 9999A	ALONGSIDE ASDC-13 FOR 7 HRS 11 MIN
131200 9999A	ALONGSIDE ASDC 3 FOR 10 HRS 22 MIN
250835 2591M	OBSERVED SHIP BAKER BEARING 151 DEGREES; DISTANCE 12
	MILES
251052 2591M	ENTERED BIKINI LAGOON
251145 2796V	PROCEEDING TO USS BLADEN (APA-63)
251207 2298C	ALONGSIDE BLADEN
251227 2298C	LEAV NG BLADEN
251303 2502M	ALONGSIDE LCI-549
251307 2502M	LEAV NG LC -549
251355 2796V	ANCHORED IN BERTH "BAKER"
251413 2796V	UNDERWAY TO LCI-1013
251450 1701E	ALONGSIDE LCI-1013
251500 1701E	LEAVING LCI-1013
251505 1701E	LYING TO AWAITING INSTRUCTIONS
251620 1701E	UNDERWAY TO BERTH BAKER
251641 2796V	ANCHORED IN BERTH BAKER
252400 2796V	ASSIGNED BAKER DAY DOSE OF 166 MR 4 HOURS AT THE RE
	D LINE
260001 2796V	ANCHORED AS BEFORE
270835 2796V	UNDERWAY TO USS KENNETH WHITING
270915 2594G	STANDING OFF USS KENNETH WHITING
270943 2594G	UNDERWAY TO USS NIAGARA
271019 22980	ALONGSIDE N AGARA
271144 22980	LEAVING N AGARA
271200 2298M	ALONGSIDE GENEVA
271201 2298M	LEAV NG GENEVA
271209 2298C	ALONGSIDE BLADEN
271317 2298C	LEAV NG BLADEN
271329 2299S	ALONGSIDE FILLMORE
271344 2299S	LEAV NG FILLMORE
271422 2594G	UNDERWAY TO USS CHICKASAW
271510 2794V	UNDERWAY TO USS CHICKASAW
271559 2794V	UNDERWAY TO USS BEGON
271610 2793M	USS BEGON (ESTIMATED TIME)
271623 2794V	USS CHICKASAW
281310 2092D	ANCHORED NEAR BERTH "HOW" - "A" 92 DEG "B" 59 DEG "C



" 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	2093C	IN VICINITY OF USS PALMYRA
300800	2093C	PROCEEDING TO USS KENNETH WHITING
300817	2094S	NEAR USS KENNETH WHITING
300822	2494S	PROCEEDING TO TARGET ARRAY
300917	2300X	MOORED 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 PALMYRA
301137	2093C	NEAR USS PALMYRA
301141	2093C	PROCEEDING TO USS CHICKASAW
301156	1993M	MOORED TO USS CHICKASAW
301321	1993M	UNDERWAY TO USS CONYNGHAM
301352	1802D	COMMENCED SPRAYING USS CONYNGHAM WITH FOAM
301523	1802D	PROCEEDING TO USS MUGFORD
301543	2003V	OPERATIONS ON USS MUGFORD COMPLETED - PROCEEDING TO USS BEGOR
301613	2405S	MOORED TO USS BEGOR
301654	2405S	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 CITY
311235	2301A	PROCEEDING TO ANCHORAGE
311241	2203R	ANCHORED - "B" 133 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	2101Q	COMMENCED WASHDOWN OF USS PENSACOLA
321002	2101Q	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	1800D	ALONGSIDE CARTERET1
321106	1800D	LEAVING CARTERET1
321123	2101Q	COMMENCED WASHDOWN OF USS PENSACOLA
321145	2101Q	PROCEEDING TO USS WHARTON
321235	2402W	MOORED TO USS PRESERVER
321330	2402W	PROCEEDING TO USS CHICKASAW
321359	2794V	MOORED TO USS CHICKASAW

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 2405S MOORED TO USS BEGOR  
331800 2405S PROCEEDING 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  
340806 2394A PROCEEDING TO USS BUTTE  
340835 1900B GLGNGS IDE BUTTE  
340852 1900B LEAVING BUTTE  
340925 2000G LYING TO OFF USS RALPH TALBOT  
341058 2000G PROCEEDING TO USS BUTTE  
341104 1900B ALONGSIDE BUTTE  
341128 1900B LEAVING BUTTE  
341252 2394A PROCEEDING TO USS SYLVANIA  
341308 2392D STGNDING NEAR USS SYLVANIA  
341422 2392D UNDERWAY TO USS CHICKASAW  
341446 1993M MOORED TO USS CHICKASGW  
352400 1993M MOORED AS EEFGE  
441600 2893M ALONGSIDE HUGHES  
441620 2893M MOORED TO USS HUGHES AND UNDERWAY TOWING HUGHES TO ION  
ISLAND  
441653 2798P LEAVING HUGHES  
501050 2101Q ALONGSIDE PENSACOLA  
501140 2101Q LEAVING PENSACOLA  
520740 2301A ALONGSIDE SALT LAKE CITY2  
520832 2301A LEAVING SALT LAKE CITY?  
520847 2101Q ALONGSIDE PENSACOLA  
520914 2101Q LEAVING PENSACOLA  
530752 2101Q ALONGSIDE PENSACOLA  
530857 2101Q LEAVING PENSACOLA  
561635 2101I GLGNGSIDE FLLGN  
561700 2101I LEAVING FALLGN  
570918 2202B ALONGSIDE LST-52

571014 2202B LEAVING LST-52  
571115 2397M ALONGSIDE LST-52  
571211 2397M LEAVING LST-52  
571330 2591M DEPARTED BIKINI LAGOON ON 26 AUGUST 1946 - ENHOUTE KWA  
JALEIN

USS CLAMF CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	A+0	8	1		9	9
JUL 2	A+1	4	13		17	26
JUL 3	A+2	0	1j		0	2
JUL 4	A+3	0	0		0	26
JUL 5 THRU 24		0	7			33
JUL 25	B+0	38	48	55	141	174
JUL 26	B+1	0	0	23	23	197
JUL 27	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
JUL 30	B+5	5	0	20	25	275
JUL 31	B+6	8	0	25	33	308
AUG 1	B+7	7	0	21	28	336
AUG 2	B+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	12	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	0	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	3	618
AUG 25	B+31	0	6	7	9	627
AUG 26	B+32	0	21	3	24	651

## SUPPORT SHIP INFORMATION SUMMARY

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:	<u>TEST</u>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.195 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	OBSERVED SHOT ABLE FROM A DISTANCE OF 23 MILES NORTH NORTHWEST OF GZ
011650	2591M	ENTERED BIKINI LAGOON
011840	2398M	ANCHORED BERTH #286
021221	2398M	UNDERWAY TO CHANGE BERTHS
021313	2103W	ANCHORED BERTH #108
042400	2103W	ANCHORED AS BEFORE
250835	2591M	OBSERVED SHOT BAKER FROM 17 MILES EAST OF GZ
301448	2591M	ENTERED BIKINI LAGOON
301557	2205A	ANCHORED BERTH #9
320725	2205A	UNDERWAY FOR SEA TO PUMP CONTAMINATED FUEL OIL OVER THE SIDE
320838	2591M	DEPARTED BIKINI LAGOON
321354	2591M	RE-ENTERED BIKINI LAGOON AFTER PUMPING CONTAMINATED OIL OVERBOARD
321435	2598R	ANCHORED BERTH #269
331432	2598R	UNDERWAY TO CHANGE BERTHS
331510	2392V	ANCHORED BERTH "NAN"
352400	2392V	ANCHORED AS BEFORE
451350	2591M	RADIOLOGICAL SAFETY SECTION OF JTF-1 REPORTED ABOARD TO INSPECT SHIP FOR RADIOACTIVITY
451500	2591M	SHIP DECLARED FREE OF RADIOACTIVITY BY RADIOLOGICAL SAFETY SECTION
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	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM 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	THRU 2 4	0	0			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	27	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	12	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

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</u>	<u>TYPE</u>	<u>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: 0.919 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
010900	2591M	NOBSERVED SHOT ABLE FROM A DISTANCE OF APPROXIMATELY 2 2 MILES
010932	2591M	ENTERED BIKINI LAGOON
011338	2795H	ANCHORED OFF ENYU ISLAND - BEARINGS "B"20 DEG LEFT TA 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 STACK
021300	2001R	ALONGSIDE DAWSON
021327	2001R	LEAVING DAWSON
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 CHOAAGE
021740	2695F	ANCHORED IN BERTH B
022358	2695F	PASSING SUMMARY 14
022359	2695F	SUMMARY IS A FICTITIOUS SHIP USED TO RECORD THE DOSE R ECEIVED BY CONSERVER WHILE ALONGSIDE TARGET SHIPS AFTE R SHOT ABLE
040815	2695F	UNDERWAY TO USS SALT LAKE CITY
040845	21000	ALONGSIDE SALT LAKE CITY
041055	21000	LEAVING SALT LAKE CITY
041151	2603R	ANCHORED OFF BIKINI ISLAND - "D" 5 DEG "E"329 TREE 51 DEG
041705	2603R	UNDERWAY TO BERTH
041812	2004H	ANCHORED IN BERTH 50
042359	2004H	PASSING SUMMARY 1
042400	2004H	ANCHORED AS BEFORE
051200	9999A	PASSING SUMMARY 5 PLUS 3
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
061330	2201P	ALONGSIDE NEVADA
061712	2201P	LEAVING NEVADA
071200	9999A	CONTINUED SALVAGE OPERATIONS ON USS NEVADA FOR APPROXI MATELY 4 HOUES
090001	9999A	CONTINUED SALVAGE OPERATIONS ON USS NEVADA FOR AFFROXI MATELY 2 HOURS
091418	2201P	ALONGSIDE NEVADA
091715	2201P	LEAVING NEVADA
101200	9999A	CONTINUED SALVAGE OPERATIONS ON USS NEVADA FOR APPROXI

111200 9999A MANEUVERED OFF USS GRKNGSGS' PORT QUARTER AND BEGNN HE  
 MOVING HEAVY GEAR FROM THE SHIP -- THIS PROCEDURE TOOK  
 APPROXIMATELY 2 HOURS  
 120744 2201P ALONGSIDE NEVG DG  
 121115 2201P LEAVING NEVADA  
 121517 2201P ALONGSIDE NEVADA  
 121548 2201P LEAVING NEVADA  
 130944 2101E ALONGSIDE ARKANSAS  
 131144 2101E LEAVING GRKNGSGS  
 141200 9999A CONSERVER SPENT APPROXIMATELY 45 MINUTES GNCHORED OFF  
 USS ARKANSAS CONDUCTING SALVAGE OPERAT IONS  
 151009 2200U ALONGSIDE PENNSYLVANIA  
 151107 2200U LEAVING PENNSYLVANIA  
 151559 2200U ALONGSIDE PENNSYLVANIA  
 151639 2200U LEAVING PENNSYLVANIA  
 151720 2200U ALONGSIDE PENNSYLVANIA  
 151744 2200U LEAVING PENNSYLVANIA  
 161200 9999A ANCHORED OFF USS BUTTE FOR APPROXIMATELY 2 HOURS  
 201429 2200D ALONGSIDE SGLT LAKE CITY  
 201601 2200D LEAVING SALT LAKE CITY  
 211012 2201P ALONGSIDE NEVG DG  
 211027 2201P LEAVING NEVADA  
 211311 2201P ALONGSIDE NEVG DG  
 211352 2201P LEAVING NEVADA  
 221128 2101E ALONGSIDE ARKANSAS  
 221201 2101E LEAVING ARKANSAS  
 221355 2201P ALONGSIDE NEVADA  
 221435 2201P LEAVING NEVG DG  
 231200 9999A SPENT APPROXIMATELY 5 HOURS PUTTING ANCHORS ON USS SKI  
 PJACK  
 250835 2591M OBSERVED SHOT BAKER FROM A DISTANCE IN EXCESS OF 10 MI  
 LES  
 251112 2591M ENTERED BIKINI LAGOON  
 251125 2796L ANCHORED OFF ENYU ISLAND - R. TAN. ENYU 169 DEG L. TG  
 N. ENYU 138 DEG  
 251402 2796L UNDERWAY TO USS BUTTE  
 251440 1900B LAYING CLOSE ABOARD BUTTE  
 251441 1900B BUTTE RADIOACTIVE; PROCEEDING TO SOUTHEAST OF TARGET A  
 RRGY  
 251450 2498Y LYING TO SOUTHEAST OF TARGET GRRGY  
 251630 2498Y PROCEEDING TO ANCHORAGE  
 251638 2795B ANCHORED OFF ENYU ISLAND - "A" 167 DEG "B" 29 DEG  
 260001 2795B ANCHORED AS BEFORE  
 270923 2795B UNDERWAY TO USS BRACKEN  
 271004 2200X BOGRDING TEAM ABOARD BRACKEN  
 271007 2200X ALONGSIDE BRACKEN1  
 271021 2200X LEAVING BRACKEN1  
 271217 1800D RECOVERED INSTRUMENT FROM USS CARATARET; PROCEEDING TO  
 USS CORTLGND

271238 18000 INSTRUMENTS RECOVERED  
271239 1800V ALONGSIDE CORTLAND  
271251 1800V LEAVING CORTLAND  
271320 25946 ANCHORED OFF USS KENNETH WHITING  
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 BRACKEN1  
281353 2200X LEAVING BRACKEN1  
281428 2200S ALONGSIDE CATRON  
281438 2200S LEAVING CATRON  
281507 2299S ALONGSIDE FILLMORE  
281528 2299S LEAVING FILLMORE  
281547 2298C ALONGSIDE BLADEN  
281602 2298C LEAVING BLADEN  
281615 2298M ALONGSIDE GENEVA  
281637 2298M LEAVING GENEVA  
281734 2093S ANCHORED - "A" 95 DEG "B" 61 DEG "C" 36 DEG  
291251 2093S UNDERWAY TO USS BURLESON  
291309 2294M NMR TEAM ABOARD; PROCEEDING TO USS CATRON  
291341 2200S ALONGSIDE CATRON  
291357 2200S LEAVING CATRON  
291422 2200B WITHDRAWING FROM USS GASCONADE; PROCEEDING TO USS BRISCOE  
291455 22001 ALONGSIDE BRISCOE1  
291505 22001 LEAVING BRISCOE1  
291543 2294M MOORED TO USS BURLESON  
291604 2294M PROCEEDING TO ANCHORAGE  
291640 2093S ANCHORED - "A" 95 DEG "B" 61 DEG "D" 27  
301243 2093S UNDERWAY TO BURLESON  
301320 2403S PROCEEDING FROM USS BURLESON TO USS GASCONADE  
301350 2200B ALONGSIDE GASCONADE1  
301406 2200B LEAVING GASCONADE1  
301422 2403S ANCHORED OFF BURLESON  
301655 2403S UNDERWAY TO ANCHORAGE  
301724 2796V ANCHORED - "B" 30 DEG L.TAN. ENYU ISLAND 132 DEG  
310722 2796V UNDERWAY TO USS BRISCOE  
310822 22001 COMMENCED SEAWATER WASHDOWN OF BRISCOE  
310902 22001 WASHDOWN OF BRISCOE COMPLETED; PROCEEDING TO USS BRACKEN  
310930 2200X COMMENCED WASHDOWN OF USS BRACKEN  
311015 2200X WASHDOWN OF BRACKEN COMPLETED; PROCEEDING TO USS BRISCOE  
311146 22001 COMMENCED SPRAYING OF BRISCOE WITH FOAMITE  
311213 22001 COMPLETED SPRAYING OF BRISCOE  
311226 22001 ANCHORED  
311400 22001 UNDERWAY TO CONTINUE SPRAYING BRISCOE  
311414 22001 SPRAYING BRISCOE WITH SECOND COAT OF FOAM  
311452 22001 SPRAYING COMPLETED; PROCEEDING TO USS SALT LAKE CITY

311515	2301A	ALONGS	SE	SALT LAKE CITY2
311525	2301A	LEAVING	SALT LAKE CITY2	
311604	2200X	COMMENCED SPRAYING	USS BRACKEN	WITH FOAMITE
311641	2200X	SPRAYING COMPLETED;	PROCEEDING	TO ANCHORAGE
311703	2795C	ANCHORED	- "A" 69 DEG	"B"25
320711	2795C	UNDERWAY	TO USS WHARTON	
320730	2402W	LYING	TO OFF USS WHARTON	
320810	2301A	LYING	TO OFF USS SALT LAKE CITY	
320920	2301A	ALONGSIDE	SALT LAKE CITY2	
321348	2301A	LEAVING	SALT LAKE CITY2	
321430	2402R	ANCHORED	"C" 98 DEG	R.TAN, BIKINI ISLAND 58 DEG
330755	2402R	UNDERWAY	TO USS SALT LAKE CITY	
330815	2301A	ALONGSIDE	SALT LAKE CITY2	
331617	2301A	LEAVING	SALT LAKE CITY2	
331755	2093U	ANCHORED	"A" 95 DEG	"B" 62 DEG "C" 37 DEG
352400	2093U	ANCHORED	AS BEFORE	
381628	2105J	ALONGSIDE	LST-545	
381836	2105J	LEAVING	LST-545	
640825	2201H	ALONGSIDE	LCT 874	
650755	2200M	LEAVING	LCT-874	
671201	2102W	ALONGS	DE YOG 83	
671458	2 02W	LEAVING	YOG-83	
671730	2591M	EXTERMIN	B K N	LOGBOOK ON 5 SEPTEMBER 1946 - ENROUTE KWAJALEIC

## USS CONSERVER 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	6	10		16	16
JUL 3	A+2	0	0		0	16
JUL 4	A+3	0	1		1	17
JUL 5 THRU 24		0	2			19
JUL 25	B+0	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	B+4	1	25	29	55	206
JUL 30	B+5	3	55	26	84	290
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	16	525
AUG 4	B+10	0	0	14	14	539
AUG 5	B+11	0	0	12	12	551
AUG 6	B+12	0	0	11	11	562
AUG 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	B+18	6	0	7	13	664
AUG 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 16	B+22	4	0	5	9	706
AUG 17	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	743
AUG 22	B+28	2	0	4	6	749
AUG 23	B+29	2	0	4	6	755
AUG 24	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
AUG 27	B+33	1	0	3	4	773
AUG 28	B+34	1	0	3	4	777
AUG 29	B+35	1	0	3	4	781
AUG 30	B+36	1	0	3	4	785
AUG 31	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	B+42	0	101	2	103	919

## SUPPORTSHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</u>	<u>TYPE DETONATION</u>
	ABLE	1 July 46 (0900)	23 KT	Air Burst (+520 feet)
	BAKER	25 July 46 (0835)	23 <b>KT</b>	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: 0.556 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

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE FROM POSITION AT SEA EAST OF BIKINI ATOLL
011255	2591M	ENTERING BIKINI LAGOON
011341	2501K	EAST OF ARAY - MANEUVERING AT VARIOUS COURSES AND SPEEDS IN BIKINI LAGOON
011735	2400V	PUT SCIENTIFIC BOARDING PARTY ABOARD USS CONYNGHAM (DD 371)
011753	2400V	SCIENTIFIC BOARDING PARTY RETURNED TO SHIP
011827	2200V	PUT SCIENTIFIC BOARDING PARTY ABOARD USS PENNSYLVANIA (BB38)
011855	2200V	SCIENTIFIC BOARDING PARTY RETURNED TO SHIP; PROCEEDING TO ANCHORAGE
011958	2393F	ANCHORED IN BERTH LOVE
041007	2393F	UNDERWAY TO BERTH 161
041156	2201F	ANCHORED IN BERTH 161
051200	9999A	PASSING SUMMARY 5 PLUS 0
051201	9999A	SUMMARY 5 PLUS IS THE SUM TOTAL OF ALL FREE FIELD TARGET SHIP DORES RECEIVED BY THIS SHIP FOR THE PERIOD 5 JULY THROUGH 24 JULY
060850	9999A	DIVING OPERATIONS ON USS GILLIAM FROM 0850 TO 1055
121115	9999A	RAN LINE FROM STERN USS BRULE AT 1115 -- DIVING OPERATIONS FROM 1400 TO 1920
141355	9999A	AT 1355 TOOK IN TOW AND STERN LINES FROM USS BRULE -- UNDERWAY AT 1600
211200	9999A	RAN MANILA LINE FROM PORT QUARTER TO STERN OF USS ARKANSAS -- DIVING OPERATIONS FROM 0820 TO 1215
240600	9999A	ANCHORED AT 0600 ALONGSIDE USS PILOTFISH -- COMMENCED FLOODING USS PILOTFISH -- USS PILOTFISH SUBMERGED AT 0900
250835	2591M	OBSERVED SHOT BAKER WHILE IN FORMATION OF C.T.U. 1.2.7 OUTSIDE OF BIKINI LAGOON
251117	2591M	ENTERED BIKINI LAGOON
251203	2594G	BY USS KENNETH WHITING
251245	2298Q	NEAR USS NIAGARA
251401	2192D	ANCHORED IN BERTH FOX
260001	2192D	ANCHORED AS BEFORE
261543	2192D	UNDERWAY TO BERTH
261827	2694X	ANCHORED IN NEW BERTH (ENYU ISLAND STAFF 067 DEG. ±N. "A" 140.6 DEG.)
270813	2694X	UNDERWAY TO RAISE USS TUNA
271023	2199A	ANCHORED VICINITY OF SUBMERGED TUNA
271230	2199A	UNDERWAY
271309	2694N	ANCHORED (BEARINGS - BN "A" 144.9 DEG BN"B" 24.5 DEG)
271330	2694N	UNDERWAY TO ALTER POSITION SLIGHTLY
271340	2693M	ANCHORED (BEARINGS - BN "A" 122.9 DEG BN "B" 22.5 DEG )

280850 2693M UNDERWAY TO RAISE USS DENTUDA  
 281016 2100P ANCHORED VICINITY OF SUBMERGED USS DENTUDA  
 281202 2100P UNDERWAY  
 281617 1894V ANCHORED (BEARINGS - BN'S "A" 95.8 DEG "E" 25.2 DEG  
 "D" 36.5 DEG)  
 290837 1894V UNDERWAY TO USS SEARAVEN  
 290921 2199D ANCHORED VICINITY OF SUBMERGED USS SEARAVEN  
 291126 2099 UNDERWAY  
 291324 1893A ANCHORED 800 YARDS SOUTH OF BERTH 376  
 301010 1893A UNDERWAY TO RAISE USS SKIPJACK  
 301056 2200K ANCHORED VICINITY OF SUBMERGED SKIPJACK  
 301441 2200K UNDERWAY TO RAISE USS PILOTFISH  
 301530 2201L MOORED OVER SUBMERGED PILOTFISH  
 301559 2201L UNDERWAY  
 301646 2794K ANCHORED (BN "A" 53.2 DEG ENYU IS. POL 77.2)  
 31 212 2794K UNDERWAY TO USS SEARAVEN  
 311306 2199D ALONGSIDE SEARAVEN  
 311355 2199D LEAVING SEARAVEN  
 311406 2000T LAID TO OFF USS PARCHE; SENT BOAT WITH GEIGER MONITOR  
 TO CHECK ACTIVITY LEVEL ON PARCHE  
 311418 2000T UNDERWAY (BOAT WITH MONITOR RETURNED)  
 311746 2794K ANCHORED NEAR ENYU IS. (BN "A" 52.8 DEG POL 60.7 DEG)  
 321241 2794K UNDERWAY TO MAKE RADIOLOGICAL SURVEYS OF USS PILOTFISH  
 321617 2304E :AFOSON; AND SKIPJACK  
 321733 2304E MOORED TO USS SYLVANIA TO TAKE ON AIR FREIGHT  
 321801 2794K UNDERWAY TO RETURN TO ANCHORAGE  
 321822 2794K ANCHORED  
 321830 2694K UNDERWAY  
 330543 2694K ANCHORED (BN "A" 137 DEG ENYU IS POL 79 DEG)  
 330610 2200K UNDERWAY TO SUNKEN USS SKIPJACK  
 LET GO #1 BUOY FOR 4 POINT MOORING OVER SKIPJACK IN BERTH 200  
 400800 2200K ANCHORED AS BEFORE  
 660001 2200D ANCHORED IN BERTH 2.2  
 660705 2000D ALONGSIDE LCT-874  
 661451 2000D LEAVING LCT-874  
 661628 2591M DEPARTED BIKINI LAGOON 4 SEP 1946 - ENROUTE TO KWAJALE  
 IN WITH LCT-874 AND LCT-412 IN TOW



USS COUCAL CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	A+0	1	0		1	1
JUL 2	A+1	0	0		0	1
JUL 3	A+2	0	0		0	1
JUL 4	A+3	0	0		0	1
JUL 5	THRU 2 4	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	36	69
JUL 29	B+4	2	0	30	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	B+8	11	0	18	29	214
AUG 3	B+9	16	0	16	32	246
AUG 4	B+10	14	0	14	28	274
AUG 5	B+11	13	0	12	25	299
AUG 6	B+12	12	0	11	32	322
AUG 7	B+13	11	0	10	21	343
AUG 8	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	6	12	429
AUG 14	B+20	5	0	6	11	440
AUG 15	B+21	5	0	5	10	450
AUG 16	B+22	4	0	5	9	459
AUG 17	B+23	4	0	5	9	468
AUG 18	B+24	3	0	4	7	475
AUG 19	B+25	3	0	4	7	482
AUG 20	B+26	3	0	4	7	489
AUG 21	B+27	3	0	4	7	496
AUG 22	B+28	2	0	4	6	502
AUG 23	B+29	2	0	4	6	508
AUG 24	B+30	2	0	3	5	513
AUG 25	B+31	2	0	3	5	518
AUG 26	B+32	1	0	3	4	522
AUG 27	B+33	1	0	3	4	526
AUG 28	B+34	1	0	3	4	530
AUG 29	B+35	1	0	3	4	534
AUG 30	B+36	1	0	3	4	538
AUG 31	B+37	1	0	3	4	542
SEP 1	B+38	0	0	2	2	544
SEP 2	B+39	0	0	2	2	546
SEP 3	B+40	0	0	2	2	548
SEP 4	B+41	0	6	2	8	556

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.284 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	2603B	ANCHORED AS BEFORE
250835	2591M	OBSERVED SHOT BAKER - BEARING 240 DEGREES; DISTANCE 12 MILES (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 LAGOON ON 21 AUGUST 1946 - ENROUTE KWA JALEIN

USS CREON 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 THRU 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	15	25	25
GUG 1	B+7	14	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
GUG 15	B+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
GUG 21	B+27	1	0	3	4	284

## SUPPORT SHIP INFORMATION SUMMARY

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:	<u>TEST</u>	<u>DATE (TIME)</u>	<u>YIELD</u>	<u>TYPE</u>	<u>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: 0.061 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

TIME	PLACE	REMARKS
010835	2591M	OBSERVED SHOT ABLE AT A DISTANCE OF 19 MILES
011421	2591M	ENTERED BIKINI LAGOON
011530	2304N	ANCHORED IN BERTH 56
011627	2304N	UNDERWAY FROM ANCHORAGE
011705	2502R	ANCHORED IN BERTH 147
021019	2502R	UNDERWAY FROM BERTH 147
021044	2304S	ANCHORED IN BERTH 56
040900	2304S	ANCHORED AS BEFORE
250835	2591M	OBSERVED SHOT BAKER
251340	2591M	ENTERED BIKINI LAGOON
251425	2294T	ANCHORED IN BERTH 384
260001	2294T	ANCHORED AS BEFORE
281715	2294T	UNDERWAY FROM BERTH 384
281737	2591M	EXIT BIKINI LAGOON
291251	2591M	REENTER BIKINI LAGOON
291327	2293W	ANCHORED IN BERTH "G"
300753	2293W	UNDERWAY FROM BERTH "G"
300855	2304S	ANCHORED IN BERTH 56
320547	2304S	UNDERWAY FROM BERTH 56
320642	2591M	TOK DEPARTURE OF BIKINI ENROUTE FOR SAN PEDRO 01 AUG 1946

USS CUMBERLAND SOUND CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	curl 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	THHU 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
JUL 30	B+5	12	0	8	20	22
JUL 31	B+6	17	0	10	27	49
AUG 1	B+7	4	0	8	12	61

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</u>	<u>TYPE</u>	<u>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: 0.885 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

TIME	PLACE	REMARKS
010900 2591M		OBSERVED SHOT ABLE FROM A DISTANCE OF OVER 15 MILES
011214 2591M		ENTER BIKINI LAGOON
011430 2200P		ALONGSIDE PENNSYLVANIA
011525 2200P		LEAVING PENNSYLVANIA
011624 2200P		ALONGSIDE PENNSYLVANIA
011711 2200P		LEAVING PENNSYLVANIA
011744 2200P		UNDERWAY
011845 2793M		ANCHORED BERTH H
011900 2793M		PASSING SUMMARY 1.5
011901 2793M		"SUMMARY IS A FICTITIOUS SHIP USED TO RECORD THE RADIA TION DOSE ACCUMULATED WHILE THE CURRENT WAS ALONGSIDE VARIOUS TARGET SHIPS AFTER SHOT ABLE
020739 2793M		LEAVE BERTH H
020850 21011		ALONGSIDE FALLON
020923 21011		LEAVING FALLON
020938 2200D		ALONGSIDE SALT LAKE CITY
021046 2200D		LEAVING SALT LAKE CITY
021125 2299K		ALONGSIDE AFGON
021135 2299K		LEAVING AFGON
021152 2299K		ALONGSIDE SKIPJACK
021202 2299K		LEAVING SKIPJACK
021323 2101Y		ALONGSIDE INDEPENDENCE
021412 2101Y		LEAVING INDEPENDENCE
021751 1796S		MORRIS BERTH 310
021900 1796S		PASSING SUMMARY 30
030930 1796S		UNDERWAY
031143 1696B		ANCHORED IN BERTH 290
031312 1696B		UNDERWAY
031448 2004M		ANCHORED IN BERTH 75
031706 2004M		UNDERWAY
031720 2005M		ANCHORED IN BERTH #31
032400 2005M		ANCHORED AS BEFORE
041052 2005M		UNDERWAY
041154 2796M		ANCHORED CLOSE ABORARD ARDC-13 OFF ENYU ISLAND - "C" 35 6.25 DEG "B" 14 DEG "A" 166.25 DEG
041359 2796M		UNDERWAY TO GO ALONGSIDE ARDC-13
041410 2796M		ALONGSIDE ARDC 3
051128 2796M		LEAVING ARDC-13
051141 2894H		ALONGSIDE SKATE
051744 2894H		LEAVING SKATE
052358 9999A		PASSING SUMMARY 4 PLUS 73
052359 9999A		SUMMARY 4 PLUS IS THE SUM TOTAL OF ALL FREE FIELD TARG ET SHIP DOSES RECEIVED BY THIS SHIP FOR THE PERIOD 4 J ULY THROUGH 24 JULY
060544 2796M		ALONGSIDE ARDC-13
061245 2796M		LEAVING ARDC-13

061501 9999A ANCHORED CLOSE ABOARD NAGATO FROM 1501 TO 1008 THE NEXT DAY (19 HRS 7 MIN)  
071008 9999A CONCLUDING TIME CLOSE ABOARD NAGATO  
071200 9999A TOWED TARGET SHIP NAGATO ASTERN FOR 1 HE 49 MIN  
071355 2201U ALONGSIDE NAGATO  
081423 2201U LEAVING NAGATO  
081510 2201U ALONGSIDE NAGATO  
081839 2201U LEAVING NAGATO  
081901 9999A ANCHORED WITH STERN SECURED TO NAGATO FROM 1901 TO 0716 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 1 MIN  
121201 9999A MOORED ALONG STERN OF LST-125 FOR 29 MINUTES  
160900 9999A MOORED ALONGSIDE NAGATO FOR 2 HRS 47 MIN  
161029 9999A ANCHORED CLOSE ABOARD PRINZ EUGEN FROM 1029 TO 0755 THE NEXT DAY (21 HRS 26 MIN)  
161200 9999A ATA-180 MOORED ALONGSIDE CURRENT FOR 15 MINUTES  
170755 9999A CONCLUDING TIME CLOSE ABOARD PRINZ EUGEN  
200937 9999A ANCHORED CLOSE ABOARD STARBOARD BOW OF USS SARATOGA FROM 0937 TO 1023 THE FOLLOWING DAY (24 HRS 46 MIN)  
211023 9999A CONCLUDING TIME CLOSE ABOARD USS SARATOGA  
250835 2591M OBSERVED SHOT BAKER FROM A DISTANCE OF OVER 10 MILES  
251105 2591M ENTER BIKINI LAGOON  
251206 2298L ALONGSIDE GENEVA  
251219 2298L LEAVING GENEVA  
251407 2795A NORTH POINT ENYU IS  
251450 1700E ALONGSIDE LCT-705  
251502 1700E LEAVING LCT-705  
251620 2695E ANCHORED BERTH D  
260001 2695E ANCHORED AS BEFORE  
281124 2695E LEAVE BERTH D  
281224 2505J ALONGSIDE LST-545  
281233 2505J LEAVING LST-545  
281248 2104E ALONGSIDE LST-220  
281256 2104E LEAVING LST-220  
281324 2502U ALONGSIDE LCI-329  
281431 2502U LEAVING LCI-329  
281547 2401G ALONGSIDE LCI-327  
281553 2401G LEAVING LCI-327  
281653 19930 ANCHORED - "A" 96.5 DEG "B" 65 DEG "C" 39.5 DEG "D" 29.5 DEG  
290837 19930 LEAVE ANCHORAGE  
290841 2401G ALONGSIDE LCI-327  
291008 2401G LEAVING LCI-327  
291041 1903W ALONGSIDE WAINWRIGHT1  
291052 1903W LEAVING WAINWRIGHT1  
291307 1902E ALONGSIDE MUGFORD1  
291311 1902E LEAVING MUGFORD1  
291409 18000 ALONGSIDE CARTERET 1

291424 18000 LEAVING CARABRET  
 291615 1902E ALONGSIDE MUGFORD  
 291620 1902E LEAVING MUGFORD  
 291714 1993T ANCHORED "A" 97 DEG "D" 30 DEG "C" 40 DEG  
 300814 1993T UNDERWAY  
 300901 1902E WASHING DOWN USS MUGFORD  
 301059 1902E ALONGSIDE MUGFORD1  
 301108 1902E LEAVING MUGFORD1  
 301110 1903W WASHING DOWN USS MAINWRIGHT  
 301252 1903W ALONGSIDE MAINWRIGHT1  
 301350 1903W LEAVING MAINWRIGHT1  
 301740 0718Y ANCHORED "N" CINITY OF YUROCHI ISLAND  
 302024 0718Y PROCEED TO ENYU ISLAND  
 302319 2695M ANCHORED OFF ENYU ISLAND  
 310743 2695M HEADING TOWARD TARGET ARRAY  
 311018 1902E ALONGSIDE MUGFORD1  
 311036 1902E LEAVING MUGFORD1  
 311320 1902E ALONGSIDE MUGFORD1  
 311327 1902E LEAVING MUGFORD1  
 311335 1900B WASHING DOWN USS BUTTE  
 311613 1900B ALONGSIDE BUTTE  
 311628 1900B LEAVING BUTTE  
 311701 2394Y LEAVING OFF USS CUMBERLAND SOUND  
 311726 2394Y UNDERWAY FOR ENYU ISLAND  
 311805 2695Y ANCHORED IN ... OF ENYU IS. - "B" 265 DEG POLE 103 DE  
 320759 2695Y G "A" 158 DEG  
 320857 2200H UNDERWAY FOR USS BRISCOE  
 321153 2200H WASHING DOWN USS BRISCOE  
 321156 2200H ALONGSIDE BRISCOE2  
 321245 2299C LEAVING BRISCOE2  
 321608 2299C WASHING DOWN USS BRACKEN  
 321622 2299C ALONGSIDE BRACKEN2  
 321735 2695Y LEAVING BRACKEN2  
 ANCHORED OFF ENYU IS. - POLE 107 DEG "B" 34.5 DEG "A"  
 " 157.5 DEG  
 330750 2695Y UNDERWAY  
 330925 2200H ALONGSIDE BRISCOE2  
 331047 2200H LEAVING BRISCOE2  
 331121 1700E ALONGSIDE LCT-705  
 331130 1700E LEAVING LCT-705  
 331157 1700E ALONGSIDE LCT-705  
 331253 1700E LEAVING LCT-705  
 331434 1993T ANCHORED "A" 96 DEG "B" 65 DEG "C" 40 DEG  
 340815 1993T UNDERWAY  
 341015 2299C WASHING DOWN USS BRACKEN  
 341130 2299C ALONGSIDE BRACKEN2  
 341200 2299C LEAVING BRACKEN2  
 341319 2002C WASHING DOWN USS RHIND  
 341527 2002C ALONGSIDE RHIND2  
 341535 2002C LEAVING RHIND2

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

## USS CURRENT CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIF CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	A+0	15	1		1b	1b
JUL 2	A+1	3	21		24	40
JUL 3	A+2	0	0		0	40
JUL 4	A+3	0	0		0	40
JUL 5 THRU 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	B+4	10	60	36	106	353
JUL 30	B+5	7	73	30	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	1b	21	643
AUG 4	B+10	0	0	14	14	657
AUG 5	B+11	0	0	12	12	669
AUG 6	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	733
AUG 10	B+16	8	0	8	1b	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	b	11	799
AUG 15	B+21	5	0	5	10	809
AUG 16	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	0	4	7	848
AUG 21	B+27	3	0	4	7	855
AUG 22	B+28	2	0	4	b	861
AUG 23	B+29	2	0	4	b	867
AUG 24	B+30	2	0	3	5	872
AUG 25	B+31	0	10	3	13	885

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.952 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
010900	2591M	OBSERVED SHOT ABLE
011258	2591M	ENTERED BIKINI LAGOON
011340	2794K	ANCHORED BERTH "DOG"
020708	2794K	UNDERWAY TO TARGET SHIPS
020900	2504X	BOARDING PARTY LEFT SHIFT TO INSPECT LANDING CRAFT ON BEACH
020902	2504X	ANCHORED BERTH #94
021105	2504X	BOARDING PARTY RETURNED TO SHIP
021111	2504X	UNDERWAY TO BOARD TARGET SHIPS
021140	2001I	ALONGSIDE CRITTENDEN
021230	2001I	BOARDING PARTY RETURNED FROM CRITTENDEN (WENT ON BOARD AT 1140)
021232	2001I	LEAVING CRITTENDEN
021301	2100G	ALONGSIDE ARDC-13
021412	2100G	BOARDING PARTY RETURNED (WENT ON BOARD AT 1301)
021413	2100G	LEGVINS ARDC-13
021442	2201G	ALONGSIDE F' ENSGCOLG
021622	2201G	BOARDING PARTY RETURNED TO DELIVER (WENT ABOARD AT 1442)
021625	2201G	LEAVING F' ENSGCOLG
021644	2504Y	ALONGSIDE USS GUNSTON HALL
021649	2504Y	UNDERWAY TO USS WHARTON
021705	2103H	LYING OFF USS WHARTON - BERTH #89; BOARDING PARTY #4 LEFT SHIP
021707	2103H	UNDERWAY TO GNCHORGGE
021735	2794K	ANCHORED BERTH "DOG" (OFF IONCHEBI ISLAND)
022358	2794K	PASSING SUMMARY 58
022359	2794K	SUMMARY IS A FICTITIOUS SHIP USED TO RECORD THE DOSE RECEIVED BY DELIVER WHILE ALONGSIDE TARGET SHIPS AFTER SHOT ABLE
042400	2794K	GNCHORED AS BEFORE
051200	9999A	PASSING SUMMARY 5 PLUS 2.9
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
171200	9999A	ALONGSIDE USS INDEPENDENCE FOR 25 HRS 10 MIN
181200	9999A	CONCLUDING ALONGSIDE USS INDEPENDENCE (FROM 17 JULY)
250835	2591M	OBSERVED SHOT BAKER - BEARING 326 DEG; DISTANCE 12 MILES
251115	2591M	ENTERED BIKINI LAGOON -- UNDERWAY TO BERTH "EASY"
251159	2794K	GNCHORED IN BERTH "EASY"
260001	2794K	ANCHORED AS BEFORE
261537	2794K	UNDERWAY
261600	2795F	MOORED ALONGSIDE OF USS CLGMP IN BERTH "BAKER"
270838	2795F	ANCHORED IN BERTH "BAKER" AS BEFORE
281234	2795F	UNDERWAY TO TAKE TARGET SHIP LET-818 IN TOW

281310	2202J	ALONGSIDE LCT-81 <sup>e</sup>
281325	2202J	LEAVING LCT-818
281427	2499H	MOORED LCT-818 TO BUOY #15; BERTH #229
281548	2499H	CIRCLING LCT-818; WASHING IT DOWN
281620	2499H	ALONGSIDE LCT-818
281652	2499H	LEAVING LCT-818
281750	2094U	ANCHORED 1275 YARDS SOUTH OF BERTH #379
290825	2094U	UNDERWAY TO LCT-818
290900	2499H	ALONGSIDE LCT-818
290959	2499H	LEAVING LCT-818
291037	1802D	ALONGSIDE CONYNGHAM1
291105	1802D	LEAVING CONYNGHAM1
291125	1802D	UNDERWAY TO USS HAVEN
291145	2193N	LYING TO IN VICINITY OF USS HAVEN IN BERTH "C"
291215	2193N	UNDERWAY TO TARGET SHIP LCT-1013
291255	2403P	ALONGSIDE LCT-1013
291315	2403P	LEAV NG LCT-1013
291339	17001	ALONGSIDE LCT-705
291349	17001	LEAV NG LCT-705
291410	1802D	ALONGSIDE CONYNGHAM1
291544	1802D	LEAVING CONYNGHAM1
291705	2192N	LYING TO OFF USS AVERY ISLAND - BERTH "KING"
291719	2192N	UNDERWAY TO ASSIGNED BERTH
291739	2094U	ANCHORED 1200 YARDS SOUTH OF BERTH #379
300820	2094U	UNDERWAY
300840	1999B	STOPPED TO PICK UP TWO BUOYS AT BERTH 216-A
300902	1802D	COMMENCED HOSING DOWN USS CONYNGHAM
301048	1802D	ALONGSIDE CONYNGHAM1
301050	1802D	LEAVING CONYNGHAM1
301312	1802D	ALONGSIDE CONYNGHAM1
301332	1802D	BOARDING PARTY RETURNED (WENT ABOARD 1312)
301335	1802D	LEAVING CONYNGHAM1
301402	1903Y	BEGAN FOAMING DOWN USS MUGFORD
301425	1903Y	ALONGSIDE MUGFORD1
301436	1903Y	BOARDING PARTY RETURNED (WENT ABOARD 1425)
301451	1903Y	LEAVING MUGFORD1
301459	1903Y	SHIP RECEIVED RADIATION DOSE TOLERANCE FOR ONE DAY
301534	2794K	ANCHORED IN BERTH "E"
310618	2794K	UNDERWAY TO USS PALMYRA
310630	2794C	MOORED ALONGSIDE PALMYRA
310850	2794C	UNDERWAY TO USS PENNSYLVANIA
310925	2200Q	IN VICINITY OF USS PENNSYLVANIA
311345	2200Q	PROCEEDING TO ANCHORAGE IN BERTH "EASY"
311418	2794K	ANCHORED IN BERTH "EASY"
320720	2794K	UNDERWAY TO USS PENNSYLVANIA
320812	2200Q	ALONGSIDE PENNSYLVANIA
320925	2200Q	LEAVING PENNSYLVANIA
320945	2300A	ALONGSIDE NEW YORK2
321020	2300A	LEAVING NEW YORK2
321035	2202K	ALONGSIDE NEVADA1



321042 2202K LEAVING NEVADA1  
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; PROCEEDING 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 LEAVING 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 2594Q ALONGSIDE USS QUARTZ  
341524 2594Q 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 2101Q ALONGSIDE PENSACOLA  
391112 2101Q 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 2301G ALONGSIDE MUSTIN2  
441731 2301G LEAVING MUSTIN2  
500934 2300A ALONGSIDE NEW YORK?  
500956 2300A LEAVING NEW YORK2  
501010 2200Q ALONGSIDE PENNSYLVANIA  
501023 2200Q LEAVING PENNSYLVANIA  
501047 2002D ALONGSIDE STACK2  
501137 2002D LEAVING STACK2  
501241 2202K ALONGSIDE NEVADA2

501530 2200K LEAVING NEVGDG?  
511212 2591M EXITED BIKINI LAGOON ENROUTE TO KWGJGLEIN ON 20 AUGUST  
1946

USS DELIVER 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	2	41		43	43
JUL 3	A+2	0	0		0	43
JUL 4	A+3	0	0		0	43
JUL 5	THRU 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 10	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	901
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
AUG 20	B+26	1	0	4	5	952

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.214 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

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE AT A BEARING OF 205 DEG AND DISTANC E OF 22.1 MILES
011753	2591M	ENTERED BIKINI LAGOON
020001	2598M	ANCHORED BERTH 269
021106	2598M	UNDERWAY TO SHIFT BERTHS
021135	2500M	ANCHORED BERTH 191
042400	2500M	ANCHORED AS BEFORE
250835	2591M	OBSERVED SHOT BAKER AT A BEARING OF 269 DEG AND DISTAN CE OF 7 1 LES
300644	2591M	ENTERED BIKINI LAGOON
300716	2500M	ANCHORED BERTH 191
310000	2500M	ANCHORED AS BEFORE
331507	2500M	UNDERWAY TO SHIFT BERTHS
331556	2394D	ANCHORED IN BERTH #365
352400	2394D	ANCHORED AS BEFORE
561727	2591M	DEPARTED BIKINI LAGOON FOR KWAJALEIN ON 25 AUGUST 1946

USS DIXIE 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 THRU 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	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	0	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 8	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
AUG 11	B+17	7	0	3	10	141
GUG 12	B+18	6	0	3	9	150
GUG 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
AUG 25	B+31	1	0	1	2	214

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.306 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	2591M	NOT AT BIKINI FOR SHOT ABLE
250835	2591M	ENROUTE FROM PEARL HARBOR TO KWAJALEIN AT TIME OF SHOT BAKER
340830	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	2495S	MOORED PORT SIDE TO USS WILDCAT FOR FRESH WATER
350950	2495S	UNDERWAY
351000	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
720732	2591M	DEPARTED BIKINI LAGOON 14 SEP 1946 - ENROUTE KWAJALEIN



USS BUTTON 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 THRU 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	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	6	0	14	20	20
AUG 8	B+14	10	0	13	23	43
AUG 9	B+15	9	0	12	21	64
AUG 10	B+16	8	0	11	19	83
AUG 11	B+17	7	0	10	17	100
AUG 12	B+18	6	0	9	15	115
AUG 13	B+19	6	0	9	15	130
AUG 14	B+20	5	0	8	13	143
AUG 15	B+21	5	0	8	13	156
AUG 16	B+22	4	0	7	11	167
AUG 17	B+23	4	0	7	11	178
AUG 18	B+24	3	0	6	9	187
AUG 19	B+25	3	0	6	9	196
AUG 20	B+26	3	0	6	9	205
AUG 21	B+27	3	0	5	8	213
AUG 22	B+28	2	0	5	7	220
AUG 23	B+29	2	0	5	7	227
AUG 24	B+30	2	0	5	7	234
AUG 25	B+31	2	0	5	7	241
AUG 26	B+32	1	0	4	5	246
AUG 27	B+33	0	0	4	4	250
AUG 28	B+34	0	0	4	4	254
AUG 29	B+35	0	0	4	4	258
AUG 30	B+36	0	0	4	4	262
AUG 31	B+37	0	0	4	4	266
SEP 1	B+38	0	0	3	3	269
SEP 2	B+39	0	0	3	3	272
SEP 3	B+40	0	0	3	3	275
SEP 4	B+41	0	0	3	3	278

SEP 5	B+42	0	0	3	3	281
SEP 6	B+43	0	0	3	3	284
SEP 7	B+44	0	0	3	3	287
SEP 8	B+45	0		3	3	290
SEP 9	B+46	0	0	3	3	293
SEP 10	B+47	0	0	3	3	296
SEP 11	B+48	0	0	3	3	299
SEP 12	B+49	0	0	3	3	302
SEP 13	B+50	0	0	2	2	304
SEP 14	B+51	0		2	2	306

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.198 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	ANCHORED IN KWAJALEIN ATOLL DURING SHOT ABLE
040715	2591M	ENTERED BIKINI LAGOON AFTER SHOT ABLE
040751	2697W	ANCHORED IN BERTH 305
250835	2591M	OBSERVED SHOT BAKER WHILE STEAMING IN COMPANY WITH USS DIXIE
300649	2591M	ENTERED BIKINI LAGOON AFTER SHOT BAKER
300729	2697W	ANCHORED IN BERTH 305
331640	2697W	UNDERWAY TO SHIFT BERTHS
331725	2595X	ANCHORED IN BERTH 080E
381250	2595X	UNDERWAY
381313	2697W	ANCHORED IN BERTH 305
551513	2591M	DEPARTED BIKINI LAGOON ENROUTE FOR KWAJALEIN 24 AUGUST 1946

USS ENDREE 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 THRU 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	2	0	6	8	8
JUL 31	B+6	6	0	14	20	28
AUG 1	B+7	9	0	13	22	50
AUG 2	B+8	8	0	11	19	69
AUG 3	B+9	0	0	10	10	79
AUG 4	B+10	0	0	9	9	88
AUG 5	B+11	0	0	8	8	96
AUG 6	B+12	0	0	7	7	103
AUG 7	B+13	0	0	6	6	109
AUG 8	B+14	0	0	6	6	115
AUG 9	B+15	0	0	5	5	120
AUG 10	B+16	0	0	5	5	125
AUG 11	B+17	0	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	6	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

## SUPPORTSHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</u>	<u>TYPE DETONATION</u>
	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: 0.689 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)

# PATH REPORT FOR THE USS ETLAH

TIME	PLACE	REMARKS
010900	2591M	OBSERVE@ SHOT ABLE FROM A DISTANCE IN EXCESS OF 28 MILES
011340	2591M	ENTERED BIKINI LAGOON
011347	2501T	ALONGSIDE LCI-549
011352	2501T	LEAVING LCI-549
011404	2401Q	ALONGSIDE LCI-329
011418	2401Q	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	2303Q	ALONGSIDE PILOTFISH
011607	2303Q	LEAVING PILOTFISH
011617	2403E	ALONGSIDE LCT-1113
011625	2403E	LEAVING LCT-1113
011629	2403I	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 SHIPS ON 1 JULY
020700	2694M	UNDERWAY FROM BERTH
020740	2203R	PLACE BOARDING TEAM ABOARD USS TUNA
020751	2203R	UNDERWAY FROM TUNA
020805	2302U	PLACE BOARDING TEAM ON USS DENTUDA
020829	2202I	PLACE TEAM ON USS SEARGVEN
020854	2203G	PLACE TEAM ON LSG-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"

042400	2694M	ANCHORED AS BEFORE
250835	2591M	OBSERVED SHOT BAKER FROM A DISTANCE OF APPROXIMATELY 1 6 MILES
251035	2591M	ENTERED BIKINI LAB <sup>01</sup>
251125	2793M	ANCHORED IN L <sup>ee</sup> OF <sup>ee</sup> NYU ISLAND
251200	2793M	UNDERWAY FOR USS NIAGARA
251240	22980	ALONGSIDE NIAGARA
251325	22980	LEAVING NIAGARA
251340	2299M	ALONGSIDE GENEVA
251350	2298M	LEAVING GENEVA
251400	22980	ALONGSIDE BLADEN
251435	22980	LEAVING BLADEN
251455	2194U	BOARDING TEAM RETURNED TO USS KENNETH WHITING (BERTH 3 81)
251500	2292N	ANCHORED IN BERTH "QUEEN"
260001	2292N	ANCHORED AS BEFORE
280910	2292N	UNDERWAY FROM ANCHORAGE
281020	2199A	ALONGSIDE TUNAI
281050	2199A	LEAVING TUNAI
281245	2404M	ANCHORED OFF BIKINI BEACH
281355	2404M	UNDERWAY FOR ION ISLAND
281425	2697M	ANCHORED OFF ION ISLAND
281500	2697M	UNDERWAY FOR BERTH
281510	2092N	ANCHORED IN BERTH "Q"
281535	2092N	UNDERWAY
281600	2092N	ANCHORED 1750 YARDS SOUTH OF BERTH #380
290805	2092N	UNDERWAY FROM ANCHORAGE
290855	2403E	ALONGSIDE LCT-1113
290909	2403E	LEAVING LCT-1113
290916	2403I	ALONGSIDE LCT-1112
290930	2403I	LEAVING LCT-1112
290936	2403P	ALONGSIDE LCT-1078
290947	2403P	LEAVING LCT-1078
291000	2302H	ALONGSIDE LCT-874
291009	2302H	LEAVING LCT-874
291508	2092N	ANCHORED IN ASSIGNED BERTH
300801	2092N	UNDERWAY TO TARGET ARRAY
301528	2092N	ANCHORED IN BERTH "Q"
340755	2092N	UNDERWAY
341605	2201Y	ALONGSIDE USS SUNCOCK
341615	2201Y	PROCEEDING TO ANCHORAGE
341630	2092N	ANCHORED 1750 YARDS SOUTH OF BERTH #380
352400	2092N	ANCHORED AS <sup>ee</sup> FDR <sup>ee</sup>
380920	2002D	ALONGSIDE STACK2
380955	2002D	LEAVING STACK2
381015	2102H	ALONGSIDE TRIPPEZ <sup>ee</sup>
381200	2102H	LEAVING TRIPPEZ
381350	1901X	ALONGSIDE BANNER
381505	1901X	LEAVING BANNER
390900	20006	ALONGSIDE RALPH TALBOT2



390927	2000G	LEAV NG	Rail. TALBot2
390945	2002C	ALONGS SE RH ND2	
391012	2002C	LEAVING RHIND2	
391023	2002E	ALONGS DE WILSON2	
391110	2002E	LEAVING WILSON2	
391120	2101B	ALONGSIDE BRUL E	
391150	2101B	LEAVING BRUL E	
460847	2200X	ALONGSIDE BRACKEN2	
460915	2200X	LEAVING BRACKEN2	
460930	2200X	ALONGSIDE BRACKEN2	
461155	2200X	LEAVING BRACKEN2	
461310	2200B	ALONGSIDE GASCONE2	
461700	2200B	LEAVING GASCONE2	
470807	2002E	ALONGSIDE WLS2	
470915	2002E	LEAVING WLS2	
470930	2200B	ALONGSIDE GASCONE2	
471345	2200B	LEAVING GASCONE2	
480855	2200B	ALONGSIDE GASCONE2	
481115	2200B	LEAVING GASCONE2	
550855	1901X	ALONGSIDE BANNER	
551150	1901X	LEAVING BANNER	
580953	2102X	ALONGS DE MAYRANT2	
581030	2102X	LEAVING MAYRANT2	
581100	2591M	DEPARTED BIKINI LAGOON WITH USS MAYRANT IN TOW ON 27	
AUGUST 1946 -- ENROUTE KWAJALEIN			

## USS ETLAH CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM 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	THRU 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	B+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	B+11	0	0	12	12	230
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	354
AUG 10	B+16	8	0	8	16	370
AUG 11	B+17	7	0	7	14	384
AUG 12	B+18	6	0	7	13	397
AUG 13	B+19	6	0	6	12	409
AUG 14	B+20	5	0	6	11	420
AUG 15	B+21	5	69	5	79	499
AUG 16	B+22	4	74	5	83	582
AUG 17	B+23	4	34	5	43	625
AUG 18	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	B+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	B+31	2	0	3	5	678
AUG 26	B+32	1	0	3	4	682
AUG 27	B+33	0	4	3	7	689

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>( T I M E )</u>	<u>TYPE</u>	<u>DETONATION</u>
	ABLE	1 July 46	(0900)	23 KT	Air <b>Burst</b> (+520 feet)
	BAKER	25 July 46	(0835)	23 KT	<b>Shallow</b> 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

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 LAGOON
281555	2591M	EXIT BIKINI LAGOON
291258	2591M	REENTER BIKINI LAGOON
291319	2692D	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 LAGOON
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
661828	2591M	DEPARTED BIKINI LAGOON FOR KWAJALEIN 04 SEP 1946

USS FALL RIVER 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	0		4	4
JUL 3	A+2	1	0		1	5
JUL 4	A+3	0	0		0	5
JUL 5 THRU 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	14	0	3	7	22
JUL 31	B+6	21	0	3	24	46
AUG 1	B+7	19	0	3	22	68
AUG 2	B+8	15	0	2	17	85
AUG 3	B+9	6	0	2	8	103
AUG 4	B+10	0	0	2	2	105
AUG 5	B+11	0	0	2	2	107
AUG 6	B+12	0	0	1	1	108
AUG 7	B+13	7	0	1	8	116
AUG 8	B+14	10	0	1	11	127
AUG 9	B+15	9	0	1	10	137
AUG 10	B+16	8	0	1	9	146
AUG 11	B+17	7	0	1	8	154
AUG 12	B+18	6	0	1	7	161
AUG 13	B+19	6	0	1	7	168
AUG 14	B+20	3	0	1	4	172
AUG 15	B+21	5	0	1	6	178
AUG 16	B+22	2	0	1	3	182
AUG 17	B+23	0	0	1	1	183
AUG 18	B+24	2	0	1	3	186
AUG 19	B+25	3	0	1	4	190
AUG 20	B+26	3	0	1	4	194
AUG 21	B+27	3	0	0	3	197
AUG 22	B+28	2	0	0	2	199
AUG 23	B+29	2	0	0	2	201
AUG 24	B+30	2	0	0	2	203
AUG 25	B+31	1	0	0	1	204
AUG 26	B+32	0	0	0	0	204
AUG 27	B+33	0	0	0	0	204
AUG 28	B+34	0	0	0	0	204
AUG 29	B+35	0	0	0	0	204
AUG 30	B+36	0	0	0	0	204
AUG 31	B+37	0	0	0	0	204
SEP 1	B+38	0	0	0	0	204
SEP 2	B+39	0	0	0	0	204
SEP 3	B+40	0	0	0	0	204
SEP 4	B+41	0	0	0	0	204

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>( T I M E )</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: 0.428 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

TIME	PLACE	REMARKS
010900	2591M	o-SERVED SHOT ABLe
011810	2591M	ENTERED zIKINI LAGOON
011827	2596V	ANCHoRed N zERTH #342
020920	2596V	UNDERWAY FROM zERTH #342
020935	2591M	EX TED BIKINI LAGOON FOR DRUK ISLAND
021507	2591M	Re-ENTERed BIK NI LAGOON
021553	25030	ANCHORED IN BERTH #116
042400	25030	ANCHORED at zEFORe
250835	2591M	ANCHORED AT KWAJALEIN at TIME OF SHOT EAKSR
260706	2591M	ENTERed z K NI LAGOON
260727	25940	ANCLoRed N zERTH "R"
260851	25940	UNDERWAY TO SHIFT BERTHS
260908	2393N	ANCHORED IN BERTH "I"
261800	2393N	UNDERWAY FROM BERTH "I"
261812	2591M	DEPARTED BIKINI LAGOON FOR KWAJALEIN
280744	2591M	Re-ENTERed zIKINI LAGOON
280759	2594M	ANCHORED IN BERTH "Q"
281529	2594M	UNDERWAY FROM zERTH "Q"
281636	2094V	ANCHORED IN BERTH "A"
281758	2094V	UNDERWAY FROM BERTH "A"
281817	2591M	DEPARTED BIKINI LAGOON FOR KWAJALEIN
300818	2591M	Re-ENTERED BIKINI LAGOON
300912	25031	ANCHORED IN BERTH #116N
331530	25031	UNDERWAY FROM BERTH #116N
331636	21920	ANCHoRed IN BERTH "J" NORTH
352400	21920	ANCHoRed AS zEFoRe
561556	2591M	DEPARTED zIKINI LAGOON FOR KWAJALEIN
630822	2591M	Re-ENTERED BIKINI LAGOON
661823	2591M	DEPARTED BIKINI LAGOON ON 4 SEPTEMBER 1946
		ENROUTE

PEARL HARBOR VIA KWAJALEIN

# USS FLUSSER 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	THRU 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	3	3	3
JUL 29	B+4	0	0	4	4	7
JUL 30	B+5	9	0	23	32	39
JUL 31	B+6	14	0	30	44	83
AUG 1	B+7	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	14	14	201
AUG 6	B+12	0	0	13	13	214
AUG 7	B+13	0	0	11	11	225
AUG 8	B+14	4	0	10	14	239
AUG 9	B+15	9	0	10	19	258
AUG 10	B+16	2	0	9	11	269
AUG 11	B+17	0	0	8	8	277
AUG 12	B+18	2	0	8	10	287
AUG 13	B+19	6	0	7	13	300
AUG 14	B+20	5	0	7	12	312
AUG 15	B+21	5	0	6	11	323
AUG 16	B+22	4	0	6	10	333
AUG 17	B+23	4	0	6	10	343
AUG 18	B+24	3	0	5	8	351
AUG 19	B+25	3	0	5	8	359
AUG 20	B+26	3	0	5	8	367
AUG 21	B+27	3	0	4	7	374
AUG 22	B+28	2	0	4	6	380
AUG 23	B+29	2	0	4	6	386
AUG 24	B+30	2	0	4	6	392
AUG 25	B+31	1	0	4	5	397
AUG 26	B+32	0	0	4	4	401
AUG 27	B+33	0	0	3	3	404
AUG 28	B+34	0	0	3	3	407
AUG 29	B+35	0	0	3	3	410
AUG 30	B+36	0	0	3	3	413
AUG 31	B+37	0	0	3	3	416
SEP 1	B+38	0	0	3	3	419
SEP 2	B+39	0	0	3	3	422
SEP 3	B+40	0	0	3	3	425
SEP 4	B+41	0	0	3	3	428



## SUPPORTSHIPINFORMATIONSUMMARY

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 (SS-184), USS APOGON (SS-308), USS TUNA (SS-203), USS PARCHE (SS-384), USS SKATE (SS-305), USS PILOTFISH (SS-386), USS SEARAVEN (SS-196), and USS DENTUDA (SS-335). These submarines were employed in the 84 ship target array utilized at CROSSROADS.

SHOT DATA:	<u>TEST</u>	<u>DATE (TIME)</u>	<u>YIELD</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-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-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: 0.267 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	2591M	OBSERVED SHOT ABLE FROM 21 MILES TO THE SOUTHWEST OF SURFACE ZERO
011448	2591M	ENTERED BIKINI LAGOON AFTER SHOT ABLE
011512	2599N	ANCHORED IN BERTH 231
031515	2599N	PILOTFISH MOORED ALONGSIDE TO PORT
031546	2599N	DENTUDA MOORED ALONGSIDE PILOTFISH
031630	2599N	SEARAVERN MOORED ALONGSIDE TO DENTUDA
031643	2599N	TUNA MOORED ALONGSIDE SEARAVERN
040900	2599N	ANCHORED AS BEFORE
250835	2591M	OBSERVED SHOT BAKER BEARING 235 DEGREES 14 MILES DISTANCE
300700	2591M	ENTERED BIKINI LAGOON AFTER SHOT BAKER
300735	2599N	ANCHORED IN BERTH 231
331508	2599N	UNDERWAY FOR NEW ANCHORAGE
331630	2692F	ANCHORED IN BERTH 386
380902	2692F	UNDERWAY
381019	2599N	ANCHORED IN BERTH 231
441025	2599N	ALONGSIDE DENTUDA2
451302	2599N	LEAVING DENTUDA2
451500	2403B	ALONGSIDE DENTUDA2
511040	2403B	ALONGSIDE PARCHE2
511642	2403B	LEAVING PARCHE2
531200	2403B	LEAVING DENTUDA2
560800	2591M	DEPARTED BIKINI LAGOON ENROUTE KWAJALEIN 25 AUGUST 194

USS FULTON CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
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	THRU 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	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	65
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
AUG 6	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
AUG 12	B+18	6	0	3	9	150
AUG 13	B+19	b	4	2	12	162
AUG 14	B+20	5	6	2	13	175
AUG 15	B+21	5	6	2	13	188
AUG 16	B+22	4	6	2	12	200
AUG 17	B+23	4	6	2	12	212
AUG 18	B+24	3	5	2	10	222
AUG 19	B+25	3	5	2	10	232
AUG 20	B+26	3	10	2	15	247
AUG 21	B+27	3	4	1	8	255
AUG 22	Bt28	2	2	1	5	260
AUG 23	Bt29	2	0	1	3	263
AUG 24	B+30	2	0	1	3	266
AUG 25	B+31	0	0	1	1	267

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</u>	<u>TYPE</u>	<u>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: 0.002 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)

# PATH REPORT FOR THE USS PURSE

TIME	PLACE	REMARKS
011841 2591M		ENTERED BIKINI LAGOON
011906 2496J		ANCHORED IN BERTH 321
021445 2496J		UNDERWAY
021516 2696N		MOORED TO USS CHICKASKIA
021746 2696N		UNDERWAY TO BERTH 54 A
021825 2204U		ANCHORED IN BERTH 54 A
031350 2204U		UNDERWEAY FROM BERTH 54 A
031437 2695S		MOORED ALONGSIDE USS WILDCAT IN BERTH 370
031753 2695S		UNDERWAY FROM BERTH 370
031825 2204S		ANCHORED IN BERTH 54 A
042400 2204S		ANCHORED AS BEFORE
250835 2691M		OBSERVED SHOT BAKER AT A DISTANCE OF 11 MILES ON A BEA
		RING OF 230 DEGREES
260512 2691M		ENTERING BIKINI LAGOON
260540 2694S		STOP AT USS KENNETH WHITING
260555 2691M		UNDERWAY TO EXIT LAGOON
271436 2591M		REENTER BIKINI LAGOON
271516 2292Y		ANCHORED IN BERTH "N"
271636 2292Y		UNDERWAY FOR USS SAIDOR
271747 2691M		EXITING BIKINI LAGOON
281637 2691M		REENTER BIKINI LAGOON
281725 2292A		ANCHORED IN BERTH "H"
281832 2392A		UNDERWAY TO EXIT LAGOON
281947 2591M		TOOK DEPARTURE OF BIKINI LAGOON ENROUTE FOR KWAJALEIN
		28 JUL 1946

# USS FURSE 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	1	0		1	2
JUL 4	A+3	0	0		0	2
JUL 5 THRU 24		0	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

## SUPPORT SHIP INFORMATION SUMMARY

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 A T E</u> ( <u>T I M E</u> )	<u>TYPE</u>	<u>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: 0.248 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 CLYMER

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	2299L	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
381521	2097C	ANCHORED IN BERTH 279
401026	2097C	EVAPORATORS INSPECTED AND FOUND RADIOLOGICALLY SAFE
401545	2097C	RADIOLOGICAL INSPECTION OF SHIP COMPLETED
450957	2097C	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 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 THRU 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	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+8	12	0	7	19	63
AUG 3	B+9	16	0	6	22	85
AUG 4	B+10	14	0	5	19	104
AUG 5	B+11	13	0	5	18	122
AUG 6	B+12	12	0	4	16	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	0	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	B+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

## SUPPORT SHIP INFORMATION SUMMARY

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 DATA:	<u>TEST</u>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.211 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	PLACE	REMARKS
-----	-----	-----
010900	2591M	OBSERVED SHOT ABLE
011827	2591M	ENTERED BIKINI LAGOON
011910	2504Y	ANCHORED IN BERTH #94
021650	2504Y	UNDERWAY TO KWAJALEIN
021735	2591M	DEPARTED BIKINI LAGOON
040829	2591M	RE-ENTERED BIKINI LAGOON
040919	2504Y	ANCHORED IN BERTH #94
042400	2504Y	ANCHORED AS BEFORE
250835	2591M	OBSERVED SHOT BAKER WHILE ENROUTE TO RONGELAP
301446	2591M	ENTERED BIKINI LAGOON
301526	2504Y	ANCHORED IN BERTH #94
331646	2504Y	UNDERWAY TO SHIFT BERTHS
331722	2692A	ANCHORED IN BERTH "U"
352400	2692A	ANCHORED AS BEFORE
501720	2591M	EXITED BIKINI LAGOON - ENROUTE KWAJALEIN
520821	2591M	RE-ENTERED BIKINI LAGOON
561714	2591M	DEPARTED BIKINI LAGOON ON 25 AUGUST 1946 - ENROUTE KWAJALEIN

USS GUNSTON HALL 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 THRU 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	4	0	3	7	7
JUL 31	B+6	12	0	10	22	29
AUG 1	B+7	14	0	8	22	51
AUG 2	B+8	10	0	7	17	68
AUG 3	B+9	0	0	6	6	74
AUG 4	B+10	0	0	5	5	79
AUG 5	B+11	0	0	5	5	84
AUG 6	B+12	0	0	4	4	88
AUG 7	B+13	6	0	4	10	98
AUG 8	B+14	10	0	3	13	111
AUG 9	B+15	9	0	3	12	123
AUG 10	B+16	8	0	3	11	134
AUG 11	B+17	7	0	3	10	144
AUG 12	B+18	6	0	3	9	153
AUG 13	B+19	6	0	2	8	161
AUG 14	B+20	5	0	2	7	158
AUG 15	B+21	5	0	2	7	175
AUG 16	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	203
AUG 23	B+29	2	0	1	3	206
AUG 24	B+30	2	0	1	3	209
AUG 25	B+31	1	0	1	2	211

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.516 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 NOT 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 TARG ET SHIP DOSES RECEIVED BY THIS SHIP FOR THE PERIOD 5 J ULY THROUGH 24 JULY
201200	9999A	ALONGSIDE USS APOGON FOR 2 HRS 3 MIN
211200	9999A	ALONGSIDE USS DENTUDA FOR 1 H R 21 MIN
221200	9999A	ALONGSIDE USS DENTUDA FOR 1 HOUR
221201	9999A	ALONGSIDE USS TUNA FOR 2 HRS 15 MIN
250835	2591M	OBSERVED SHOT BAKER FROM ABOUT 12 MILES TO THE SOUTHEA ST
251130	2591M	ENTERED BIKINI LAGOON
251210	2793S	ANCHORED OFF ENYU ISLAND - L.TAN. ENYU 24 DEG "A" 161 D E G (NEAR BERTH "SUGAR")
260001	2793S	ANCHORED AS BEFORE
280958	2793S	UNDERWAY FROM NEAR BERTH "SUGAR"
281043	2100P	ARRIVED VICINITY OF USS DENTUDA
281135	2100P	BEGAN HEADING TOWARD USS PALMYRA
281200	2695C	LAYING OFF USS PALMYRA
281305	2695C	UNDERWAY TO ANCHORAGE
281325	2793S	ANCHORED IN BERTH "SUGAR"
281610	2793S	UNDERWAY TO DISCHARGE TWO ANCHORS FOR MOORING USS DEN? UDG
281838	1792M	ANCHORED - "A" 90 DEG "B" 66 DEG
291229	1792M	UNDERWAY TO RECOVER SUBMARINE ANCHORS IN TARGET AREA
291400	2100R	BEGAN RECOVERY OPERATION
291520	2100R	PROCEEDING TO VICINITY ION ISLAND (ANCHOR RECOVERED)
291555	2798W	DISCHARGED ANCHOR - IN LEE OF ION ISLAND - FEARING 148 DEG FROM B; DISTANCE 1100 YARDS
291620	2798W	PROCEEDING TO RECOVER SECOND ANCHOR
291830	2697N	ANCHORED - "B" 99 DEG L.TAN. ENYU ISLAND 141.5 DEG "A" " 163 DEG
300600	2697N	UNDERWAY
300705	2094S	LYING TO OFF USS RECLAIMER
300749	2094S	UNDERWAY FOR USS SEARAVEN
300824	2199D	ALONGSIDE SEARAVEN1
300840	2199D	LEAVING SEARAVEN1
300841	2199D	GEIGER METER READING ABOVE TOLERANCE
300910	2199D	BEGAN WASH I NG DOWN SEARAVEN
301155	2199D	UNDERWAY AFTER COMPLETING WASHING
301600	2793M	ANCHORED IN LEE OF ENYU ISLAND - "A" 159 DEG "B" 5 DE G
320556	2793M	UNDERWAY FROM ANCHORAGE
320640	2199D	ALONGSIDE SEARAVEN1

320725 2199D LEAVING SEARAVEN1  
321020 2798L DISCHARGED ANCHORS IN LEE OF ENYU ISLAND - "B" 148 DEG  
"A" 172 DEG  
321145 2199D ALONGSIDE SEARAVEN1  
321540 2199D LEAVING SEARAVEN1  
321618 2793I ANCHORAGE IN BERTH OFF ENYU ISLAND - "B" 5 DEG TOWER  
MIDDLE ENYU 70 DEG "A" 163 DEG  
330915 2793I UNDERWAY TO SHIFT BERTHS  
330931 2795A ANCHORED - "B" 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 SEARAVEN1  
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 2201I LEAVING LCT-874  
520757 2201Y ALONGSIDE NEW YORK2  
521600 2201Y LEAVING NEW YORK2  
540825 1900B ALONGSIDE BUTTE  
541559 1900B LEAVING BUTTE  
641907 2200K ALONGSIDE SKIPJACK  
651946 2200K LEAVING SKIPJACK  
660745 2504V ALONGSIDE LCT-1113  
660824 2504V LEAVING LET-1113  
671918 2591M DEPARTED BIKINI LAGOON ON 5 SEPTEMBER 1946 WITH USS S  
KIPJACK IN TOW - ENEOUTE KWAJALEIN

USS GYPSY CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTGMINAT ION	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 THRU 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	3	0	11	14	14
JUL 29	B+4	3	0	20	23	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	14	14	169
AUG 5	B+11	0	0	12	12	181
AUG 6	B+12	2	0	11	13	194
AUG 7	B+13	11	0	10	21	215
AUG 8	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	14	285
AUG 12	B+18	6	0	7	13	298
AUG 13	B+19	5	17	6	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
AUG 18	B+24	3	0	4	7	372
AUG 19	B+25	3	0	4	7	379
AUG 20	B+26	3	0	4	7	386
AUG 21	B+27	3	7	4	14	400
AUG 22	B+28	2	0	4	6	406
AUG 23	B+29	2	4	4	10	416
AUG 24	B+30	2	0	3	5	421
AUG 25	B+31	2	0	3	5	426
AUG 26	B+32	1	0	3	4	430
AUG 27	B+33	1	0	3	4	434
AUG 28	B+34	1	0	3	4	438
AUG 29	B+35	1	0	3	4	442
AUG 30	B+36	1	0	3	4	446
AUG 31	B+37	1	0	3	4	450
SEP 1	B+38	0	0	2	2	452
SEP 2	B+39	0	11	2	13	465
SEP 3	B+40	0	45	2	47	512
SEP 4	B+41	0	0	2	2	514
SEP 5	B+42	0	0	2	2	516



## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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-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-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: 0.250 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	2402B	ANCHORED BERTH 131A
021046	2402B	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	2594T	LEAVE FOR BERTH C
281644	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
450806	2403B	LEAVE 92 FOR BERTH 111
450851	2303V	ANCHORED BERTH 111
561603	2303V	DEPARTED BIKINI LAGOON 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	THRU 24	0	0			7
JUL 25	B+0	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	17	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	167
AUG 11	B+17	7	0	3	10	177
AUG 12	B+18	6	0	3	9	186
AUG 13	B+19	6	0	2	8	194
AUG 14	B+20	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 23	B+29	2	0	1	3	245
AUG 24	B+30	2	0	1	3	248
AUG 25	B+31	1	0	1	2	250

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.226 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 DISCHARGING RADIOLOGICAL PATROL BOATS
011703	2591M	ENTERED BIKINI LAGOON ENROUTE TO ANCHORAGE
011740	2096H	ANCHORED IN BERTH 315
021335	2096H	UNDERWAY TO SHIFT BERTHS
021402	2000E	ANCHORED IN BERTH 219
042400	2000E	ANCHORED GS BEFORE
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
071200	9999A	ALONGSIDE USS SALT LAKE CITY FOR 15 HRS 19 MIN
081200	9999A	ALONGSIDE USS SALT LAKE CITY FOR 24 HOURS
091200	9999A	ALONGSIDE USS SGLT LAKE CITY FOR 24 HOURS
101200	9999A	ALONGSIDE USS SALT LAKE CITY FOR 16 HRS 25 MIN
251008	2591M	OPERATING NEAR LAGOON ENTRANCE WHILE DISCHARGING RADIOLOGICAL PATROL 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 BUOY #3 TO STARBOARD
281610	21930	ANCHORED 500 YARDS WEST OF ANCHORAGE CHARLIE
300755	21930	UNDERWAY TO SHIFT BERTHS
300834	2199U	ANCHORED IN BERTH 242
301720	2199U	UNDERWAY TO SHIFT BERTHS
301815	2205F	ANCHORED 300 YARDS WEST OF BERTH 21
310939	2205F	UNDERWAY
310948	2105M	ANCHORED
311250	2105M	UNDERWAY
311313	2205E	ANCHORED IN BERTH 22A
331200	2205E	UNDERWAY FOR NEW ANCHORAGE
331422	2095M	ANCHORED IN BERTH 754
471634	2591M	DEPARTED BIKINI LAGOON ENROUTE PEARL HARBOR 16 AUGUST 1446

USS HENRICO CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIF CONTAMINATION	DAILY TOTAL	curl 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 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
JUL 30	B+5	7	0	7	14	1b
JUL 31	B+6	14	0	10	24	40
AUG 1	B+7	15	0	8	23	63
AUG 2	B+8	14	0	7	21	84
AUG 3	B+9	16	0	6	22	106
AUG 4	B+10	14	0	5	19	125
AUG 5	B+11	0	0	5	5	130
AUG 6	B+12	0	0	4	4	134
AUG 7	B+13	6	0	4	10	144
AUG 8	B+14	10	0	3	13	157
AUG 9	B+15	9	0	3	12	1b9
AUG 10	B+16	8	0	3	11	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
AUG 14	B+20	5	0	2	7	214
AUG 15	B+21	5	0	2	7	221
AUG 1b	B+22	3	0	2	5	22b

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>( T I M E )</u>	<u>YIELD</u>	<u>TYPE</u>	<u>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: 0.245 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 HESPERIA

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE FROM KWAJALEIN
021117	2591M	ENTERED BIKINI LAGOON AFTER SHOT ABLE
021222	2599K	ANCHORED IN BERTH #230
031234	2599K	UNDERWAY TO SHIFT BERTHS
031349	2402W	ANCHORED IN BERTH #145
040900	2402W	ANCHORED AS BEFORE
250835	2591M	OBSERVED SHOT BAKER BEARING 272 DEGREES 15 MILES
300756	2591M	ENTERED BILKINI LAGOON AFTER SHOT FAKER HAVING SPENT 5 DAYS AT ANCHOR IN RONGELAP ATOLL
300857	2402W	ANCHORED IN BERTH #145
301026	2402W	UNDERWAY TO SHIFT BERTHS
301100	2402H	ANCHORED IN BERTH #131A
331701	2402H	UNDERWAY TO SHIFT BERTHS
331749	2594D	ANCHORED IN BERTH PAPA
331847	2594D	SHIFTED BERTHS 300 YARDS NORTH
331852	2595T	ANCHORED IN BERTH #369
380826	2595T	UNDERWAY
380926	2402H	ANCHORED IN BERTH #131A
450949	2402H	UNDERWAY TO SHIFT BERTHS
451020	2500M	ANCHORED IN BERTH 191
530900	2500M	SHIP WAS INSPECTED BY RADSAFE SHIP CLEARING BOARD OF J TF-1 FOR RADIOACTIVITY. SHIP CLEARANCE WAS GIVEN WITH EXCEPTION OF EVAPORATORS.
541355	2500M	UNDERWAY FORM BERTH #191
541440	2591M	DEPARTED BIKINI LAGOON ENROUTE KWAJALEIN 23 AUGUST 1946



USS HESPERIA 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 THRU 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	10	0	9	19	19
JUL 31	B+6	16	0	11	27	46
AUG 1	B+7	16	0	9	25	71
AUG 2	B+8	11	0	8	19	90
AUG 3	B+9	0	0	7	7	97
AUG 4	B+10	0	0	6	6	103
AUG 5	B+11	0	0	5	5	108
AUG 6	B+12	0	0	5	5	113
AUG 7	B+13	7	0	4	11	124
AUG 8	B+14	10	0	4	14	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	3	10	172
AUG 12	B+18	6	0	3	9	181
AUG 13	B+19	6	0	3	9	190
AUG 14	B+20	5	0	3	8	198
AUG 15	B+21	5	0	2	7	205
AUG 16	B+22	4	0	2	6	211
AUG 17	B+23	4	0	2	6	217
AUG 18	B+24	3	0	2	5	222
AUG 19	B+25	3	0	2	5	227
AUG 20	B+26	3	0	2	5	232
AUG 21	B+27	3	0	2	5	237
AUG 22	B+28	2	0	2	4	241
AUG 23	B+29	2	0	2	4	245

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.505 REM

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

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

# PATH REPORT FOR THE USS INGRAHAM

TIME	PLACE	REMARKS
010900	2591M	OPERATING IN AREA NORTH OF BIKINI ATOLL NEAR POINT VICTOR DURING ABLE SHOT
021218	2591M	SIGHTED ENYU ISLAND 10 MILES
021254	2591M	ENTERED BIKINI LAGOON
021319	2695D	ANCHORED IN BERTH #344
040900	2695M	ANCHORED AS BEFORE
250835	2591M	OBSERVED BAKER SHOT FROM 16 MILES TO THE NORTHWEST
260947	9692D	ANCHORED NEAR LAGOON ENTRANCE IN RUJI PASS
261552	9692D	UNDERWAY
261605	9793U	ANCHORED NEAR ERIK ISLAND TO SOUTH OF LAGOON
261729	9793U	UNDERWAY TO INVESTIGATE OIL SLICK 2 MILES NORTH OF NANU ISLAND
261848	0219M	IN OIL SLICK BETWEEN NANU AND YURO ISLANDS
261946	0219M	ENROUTE FOR BIKINI LAGOON ENTRANCE
262000	2909M	AS BEFORE
262200	2990M	AS BEFORE
262236	2591M	ENTERING LAGOON
262301	2593K	ANCHORED NEAR BERTH SUGAR
281549	2593K	UNDERWAY TO SHIFT BERTH
281613	2292K	ANCHORED IN BERTH NAN
300953	2292K	UNDERWAY TO REFUEL
301020	2695M	ALONGSIDE USS ENDREE
301133	2695M	UNDERWAY FOR ANCHORAGE
301157	2292K	ANCHORED IN BERTH NAN
301258	2292K	UNDERWAY
301342	2595T	MOORED ALONGSIDE USS DIXIE
310703	2595T	UNDERWAY FOR NEW BERTH
310734	2400B	ANCHORED IN BERTH #189
330859	2400B	UNDERWAY FOR OPEN SEA
330937	2591M	EXITING LAGOON
350943	2591M	RE-ENTERING THE LAGOON
351007	21920	ANCHORED IN BERTH KING
380928	21920	UNDERWAY
381004	2400B	ANCHORED IN BERTH #189
410754	2400B	UNDERWAY
410820	2591M	DEPARTED BIKINI LAGOON ENROUTE SAN DIEGO VIA FEARL HARBOR 10 AUGUST 1946

USS INGRAHAM 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 THRU 24		0	0			0
JUL 25	B+0	0	0	0	0	0
JUL 26	B+1	32	0	35	67	67
JUL 27	B+2	0	0	87	87	154
JUL 28	B+3	0	0	52	52	206
JUL 29	B+4	0	0	36	36	242
JUL 30	B+5	3	0	29	32	274
JUL 31	B+6	10	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	395
AUG 4	B+10	0	0	16	16	411
AUG 5	B+11	0	0	14	14	425
AUG 6	B+12	0	0	13	13	438
AUG 7	B+13	6	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

## SUPPORT SHIP INFORMATION SUMMARY

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

CREW SIZE: 40

GROUP: SURVEY

MISSION: JAMES M. GILLISS 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>DATE (TIME)</u>	<u>YIELD</u>	<u>TYPE</u>	<u>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: 0.202 REM

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

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

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	2695S	MOORED ALONGSIDE WILDCAT
041635	2695S	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 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 THRU 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	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	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	B+20	5	0	8	13	144
AUG 15	B+21	5	0	8	13	157
AUG 16	B+22	4	0	7	11	168
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

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.335 REM

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

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



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
042400	2600K	ANCHORED AS BEFORE
250835	2591M	ANCHORED IN RONGELAP LAGOON AT TIME OF SHOT BAKER
320602	2591M	ENTERED BIKINI LAGOON
320655	2304H	ANCHORED - "C" 130 DEG "B" 149 DEG
320840	2304H	UNDERWAY TO SURVEY BOTTOM
320900	2001Y	(ESTIMATED) SAMPLING LOCATION
321435	2001Y	UNDERWAY FOR ANCHORAGE
321442	2600F	ANCHORED "B" 148.5 DEG "C" 24.5 DEG "A" 166.5 DEG
330831	2600F	UNDERWAY TO TAKE BOTTOM SAMPLES
330850	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	2192Y	UNDERWAY FROM ANCHORAGE TO TAKE BOTTOM SAMPLES
340850	2001Y	(ESTIMATED) SAMPLING LOCATION
341710	2001Y	UNDERWAY TO ANCHORAGE
341732	2192Y	ANCHORED "B" 50 DEG BUOY #2 102 DEG BUOY #1 113 DEG
351005	2192Y	UNDERWAY FOR USS WILDCAT
351038	2494S	MOORED PORT SIDE TO USS WILDCAT
351138	2494S	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 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	THRU 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	0	0	0	0	0
AUG 1	B+7	10	0	22	32	32
AUG 2	B+8	10	0	26	36	68
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	14	14	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
AUG 11	B+17		0	10	17	240
AUG 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
AUG 15	B+21	5	0	8	13	288
AUG 16	B+22	4	0	7	11	299
AUG 17	B+23	4	0	7	11	310
AUG 18	B+24	3	0	6	9	319
AUG 19	B+25	3	0	6	9	328
AUG 20	B+26	1	0	6	7	335

## SUPPORT SHIP INFORMATION SUMMARY

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:	<u>TEST</u>	<u>D A T E</u>	<u>( T I M E )</u>	<u>TYPE</u>	<u>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-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-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 14, 1946 (BAKER + 20)

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

# PATH REPORT FOR THE USS KENNETH WHITING

TIME	PLACE	REMARKS
011400 2591M	ENTERED BIKINI LAGOON	AFTER SHOT ABLE
011553 2304N	ANCHORED	IN BERTH 55
011616 2304N	UNDERWAY	FROM BERTH 55
011634 2502E	ANCHORED	IN BERTH 146
021245 2502E	UNDERWAY	TO SHIFT BERTHS
021318 2304N	ANCHORED	IN BERTH 55
042400 2304N	ANCHORED	AS BEFORE
251028 2591M	ENTERED BIKINI LAGOON	"FTER SHOT BAKER
251100 25946	ANCHORED	IN BERTH "0B0E"
260001 25946	ANCHORED	AS BEFORE
281552 25946	UNDERWAY	
281632 21940	ANCHORED	IN BERTH 381
290824 21940	UNDERWAY	
290913 20945	ANCHORED	500 YARDS WEST OF BERTH ABLE
300900 20945	UNDERWAY	FROM BERTH ABLE
301007 2304N	ANCHORED	IN BERTH 55
331500 2304N	UNDERWAY	
331612 21940	ANCHORED	IN BERTH 382
380951 21940	UNDERWAY	
381050 2304N	ANCHORED	IN BERTH 55
450844 2304N	UNDERWAY	TO DEPART LAGOON
450935 2591M	DEPARTED BIKINI LAGOON	ENROUTE PEARL HARBOR 14 AUGUST 1946

USS KENNETH WHITING 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	3	0		3	3
JUL 3	A+2	0	0		0	3
JUL 4	A+3	0	0		0	3
JUL 5 THRU 24		0	0			3
JUL 25	B+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 1	B+7	17	0	8	25	81
AUG 2	B+8	10	0	7	17	98
AUG 3	B+9	0	0	6	6	104
AUG 4	B+10	0	0	5	5	109
AUG 5	B+11	0	0	5	5	114
AUG 6	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	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

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>( T I M E )</u>	<u>YIELD</u>	<u>TYPE</u>	<u>DETONATION</u>
	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)

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

# PATH REPORT FOR THE USS LAFFEY

TIME	PLACE	REMARKS
-----	-----	-----
010900	2591M	OBSERVED SHOT ABLE FROM A DISTANCE OF APPROXIMATELY 19 MILES
042400	2591M	LAFLEY DID NOT ENTER BIKINI LAGOON UNTIL 5 JULY
250835	2591M	OBSERVED SHOT BAKER FROM A DISTANCE OF APPROXIMATELY 13 MILES
260954	2591M	ENTERED BIKINI LAGOON
261015	2396P	ANCHORED IN BERTH #338
281600	2396P	UNDERWAY TO NEW BERTH
281635	2394S	ANCHORED IN BERTH #385N
300900	2394S	UNDERWAY
301600	2502M	ANCHORED IN BERTH #147S
310000	2502M	ANCHORED AS BEFORE
331345	2502M	UNDERWGY
331428	2392A	ANCHORED IN BERTH "HOW SOUTH"
352400	2392A	ANCHORED AS BEFORE
360740	2392A	UN DE R W A Y
360800	2591M	EXITED BIKINI LAGOON
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 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 THRU 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	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	14	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	0	10	20	302
AUG 9	B+15	9	0	10	19	321
AUG 10	B+16	2	0	9	11	332



## SUPPORT SHIP INFORMATION SUMMARY

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, inter-atoll freight and passenger service.

SHOT DATA:	<u>TEST</u>	<u>DATE (TIME)</u>	<u>YIELD</u>	<u>TYPE</u>	<u>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: 0.176 REM

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

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

PATH REPORT FOR THE USS LCI-977

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE WHILE ANCHORED AT KWAJALEIN
250835	2591M	OBSERVED SHOT BAKER WHILE ANCHORED AT KWAJALEIN
400635	2591M	ENTERED BIKINI LAGOON
401125	24990	ANCHORED - "C" 40 DEG BUOY #6 203 DEG SIGNAL TOWER 1
		05 DEG
450517	2598E	ANCHORED IN BERTH 251A
530845	2591M	DEPARTED BIKINI LAGOON 22 AUGUST 1946 - ENROUTE KWAJAL EIN

USS LCI-977 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	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	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

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</u>	<u>TYPE</u>	<u>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: 0.362 REM

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

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

PATH REPORT FOR THE USS LCI-1062

TIME	PLACE	REMARKS
010900	2591M	LOCATED AT KWAJALEIN FOR SHOT ABLE
250835	2591M	ENROUTE FROM BIKINI TO RONGELAP DURING BAKER SHOT
310945	2591M	ENTERED BIKINI LAGOON AFTER BAKER SHOT
311111	2504E	ANCHORED IN BERTH #61
331604	2504E	UNDERWAY
331709	2693B	ANCHORED OFF ENYU ISLAND
370523	2693B	UNDERWAY
370752	2591M	EXITED BIKINI LAGOON ENROUTE KWAJALEIN
400700	2591M	RE-ENTERED BIKINI LAGOON
400817	2504N	ANCHORED IN BERTH #63
430602	2504N	UNDERWAY
430648	2591M	EXITED BIKINI LAGOON
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	UNDERWAY
530904	2591M	DEPARTED BIKINI LAGOON ENROUTE KWAJALEIN 22 AUGUST 94

USS LCI-1062 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 THRU 24		0	0			0
JUL 25	B+0	0	0	0	0	0
JUL 26	B+1	0	0	0	ij	0
JUL 27	Et2	0	0	0	0	0
JUL 28	Et3	0	0	ij	0	0
JUL 29	B+4	0	0	0	0	0
JUL 30	B+5	0	0	0	0	0
JUL 31	B+6	7	0	20	27	27
AUG 1	B+7	14	0	31	45	72
AUG 2	bta	10	0	27	37	109
AUG 3	Et9	0	0	23	23	132
AUG 4	Bt1ij	0	0	20	20	152
AUG 5	Et11	0	0	1a	1a	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 11	B+17	0	0	10	10	260
AUG 12	B+18	1	0	10	11	271
AUG 13	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 16	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	6	9	348
AUG 21	B+27	3	0	6	9	357
AUG 22	B+28	0	0	5	5	362

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.093 REM

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

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

# PATH REPORT FOR THE USS LCI-1067

TIME	PLACE	REMARKS
010900	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
341630	2094W	UNDERWAY
341648	2594S	MOORED TO USS WILDCAT
341815	2594S	UNDERWAY FROM USS WILDCAT
341832	2394H	ANCHORED IN BERTH #365
351239	2394H	UNDERWAY
351309	2392D	MOORED TO USS SYLVANIA
351357	2392D	UNDERWAY FROM USS SYLVANIA
351416	2394H	ANCHORED IN BERTH #365
352400	2394H	ANCHORED AS BEFORE
390810	2591M	DEPARTED BIKINI LAGOON - ENROUTE KWAJALEIN
440607	2591M	RE-ENTERED BIKINI LAGOON
470645	2591M	DEPARTED BIKINI LAGOON FOR KWAJALEIN
500548	2591M	RE-ENTERED BIKINI LAGOON
530853	2591M	DEPARTED BIKINI LAGOON ON 22 AUGUST 1946 - ENROUTE KWAJALEIN



USS LCI-1067 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 THRU 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	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	0	0	0	0	0
AUG 10	B+16	0	0	0	0	0
AUG 11	B+17	0	0	0	0	0
AUG 12	B+18	0	0	0	0	0
AUG 13	B+19	4	0	9	13	13
AUG 14	B+20	5	0	8	13	26
AUG 15	B+21	5	0	8	13	39
AUG 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

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.380 REM

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

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

PATH REPORT FOR THE USS LCI-1091

TIME	PLACE	REMARKS
010900	2591M	LCI-1091 WAS AT KWAJALEIN AT TIME OF SHOT ABLE (REMAINED AT KWAJALEIN PAST 4 JULY!
250835	2591M	LCI-1091 WAS ANCHORED AT RONGELAP ATOLL AT TIME OF SHOT BAKER
310930	2591M	ENTERED BIKINI LAGOON
311005	2500M	ANCHORED IN BERTH 191
330601	2500M	UNDERWAY FOR KWAJALEIN
330649	2591M	DEPARTED BIKINI LAGOON FOR KWAJALEIN
360645	2591M	RE-ENTERED BIKINI LAGOON
390750	2591M	DEPARTED BIKINI LAGOON FOR KWAJALEIN
420655	2591M	RE-ENTERED BIKINI LAGOON
450809	2591M	DEPARTED BIKINI LAGOON FOR KWAJALEIN
480730	2591M	RE-ENTERED BIKINI LAGOON
481405	2403Q	ALONGSIDE GENEVA
481715	2403Q	LEAVING GENEVA
561103	2404D	UNDERWAY FROM BERTH 42 FOR KWAJALEIN
561142	2591M	DEPARTED BIKINI LAGOON ON 25 AUGUST 1940

USS LC 1091 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	0
JUL 2	A+1	0	0	0	0	0
4 JUL 3	A+2	0	0	0	0	0
JUL 4	A+3	0	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	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	6	0	19	25	25
AUG 1	B+7	11	0	31	42	67
AUG 2	B+8	3	0	27	30	97
AUG 3	B+9	0	0	23	23	120
AUG 4	B+10	0	0	20	20	140
AUG 5	B+11	8	0	18	26	166
AUG 6	B+12	0	0	16	16	182
AUG 7	B+13	4	0	14	18	200
AUG 8	B+14	3	0	13	16	216
AUG 9	B+15	0	0	12	12	228
AUG 10	B+16	0	0	11	11	239
AUG 11	B+17	5	0	10	15	254
AUG 12	B+18	6	0	10	16	270
AUG 13	B+19	5	0	9	14	284
AUG 14	B+20	1	0	8	9	293
AUG 15	B+21	0	0	8	8	301
AUG 16	B+22	0	0	7	7	308
AUG 17	B+23	2	0	7	9	317
AUG 18	B+24	3	0	7	10	327
AUG 19	B+25	3	0	6	9	336
AUG 20	B+26	3	0	6	9	345
AUG 21	B+27	3	0	6	9	354
AUG 22	B+28	2	0	5	7	361
AUG 23	B+29	2	0	5	7	368
AUG 24	B+30	2	0	5	7	375
AUG 25	B+31	0	0	5	5	380

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.326 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 LOWRY

T	M	PLACE	REMARKS
010900	2591M		LOWERY WAS IN SAN FRANCISCO DURING SHOT ABLE
250835	2591M		OBSERVED SHOT BAKER FROM A DISTANCE OF APPROXIMATELY 15 MILES
251651	2591M		ENTERED BIKINI LAGOON AFTER SHOT BAKER
251721	2694M		ANCHORED IN AREA 2694
251835	2694M		UNDERWAY FOR NIGHT RADIOLOGICAL MONITORING
251905	1798F		ANCHORED IN AREA 1798F
260001	1798F		ANCHORED AS BEFORE
260220	1798F		RADS SAFE PERSONNEL REPORTED THE PRESENCE OF RADIATION
260424	1798F		UNDERWAY FOR NEW ANCHORAGE
260506	1995M		ANCHORED IN AREA 1995M
260925	1995M		UNDERWAY
260954	2693B		ANCHORED IN AREA 2693B
271805	2693B		UNDERWAY TO EXIT THE LAGOON
271814	2591M		SEPARATED BIKINI LAGOON ENROUTE KWAJALEIN
290744	2591M		RE-ENTERED BIKINI LAGOON
290810	2194P		ANCHORED IN BERTH 381A
291040	2194P		UNDERWAY FOR NEW ANCHORAGE
291106	1999G		ANCHORED IN BERTH 216A
310744	1999G		UNDERWAY
310815	2697M		MOVED TO USS DIXIE
311258	2697M		UNDERWAY FOR ANCHORAGE
311316	24000		ANCHORED IN BERTH 190
331446	24000		UNDERWAY
331536	2392B		ANCHORED IN BERTH LOVE NORTH
410830	2591M		DEPARTED BIKINI LAGOON ENROUTE SAN DIEGO 10 AUGUST 1946

USS LOWRY 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 THRU 24		0	0			0
JUL 25	B+0	4	0	8	12	12
JUL 26	B+1	2	0	17	19	31
JUL 27	B+2	0	0	7	7	38
JUL 28	B+3	0	0	4	4	42
JUL 29	B+4	0	0	19	25	67
JUL 30	B+5	7	0	35	42	109
JUL 31	B+6	9	0	30	39	148
BUG 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	0	0	11	17	294
AUG 8	B+14	0	0	10	13	307
AUG 9	B+15	0	0	10	10	317
AUG 10	B+16	0	0	9	9	326

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</u>	<u>TYPE</u>	<u>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: 0.277 REM

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

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



PATH REPORT FOR THE USS LST-388

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE
011926	2591M	ENTERED BIKINI LAGOON
011947	25950	ANCHORED IN BERTH 368
021505	25950	UNDERWAY FROM BERTH 368
021643	2504E	ANCHORED IN VICINITY OF BERTH 43
030540	2504E	UNDERWAY FROM ANCHORAGE
030543	2605X	BEACHED AT LST BEACHING AREA ON BIKINI ISLAND
042400	2605X	BEACHED AS BEFORE
250835	2591M	SHOT BAKER
310525	2591M	ENTERED BIKINI LAGOON
310625	2504E	ANCHORED IN VICINITY OF BERTH 61
310640	2504E	UNDERWAY FOR BEACH AREA
310645	2605X	BEACHED ON BIKINI ISLAND
311700	2605X	UNDERWAY FROM BEACH
311705	2505X	ANCHORED IN VICINITY OF BERTH 44
331706	2505X	UNDERWAY FROM ANCHORAGE
331742	2794P	ANCHORED IN VICINITY OF BERTH "ROGER" - "A"151.5 DEG "B" 16 DEG N. ENYU 64 DEG
352400	2794P	ANCHORED AS BEFORE
380620	2794P	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	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	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	5	0	13	18	18
GUG 1	E+7	4	0	17	21	39
GUG 2	B+8	1	0	15	16	55
GUG 3	B+9	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	B+14	10	0	8	18	131
GUG 9	B+15	9	0	7	16	147
GUG 10	B+16	8	0	6	14	151
GUG 11	B+17	7	0	6	13	174
AUG 12	B+18	6	0	6	12	186
GUG 13	B+19	6	0	5	11	197
AUG 14	B+20	5	0	5	10	207
GUG 15	B+21	5	0	5	10	217
AUG 15	B+22	4	0	4	8	225
GUG 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
GUG 21	B+27	3	0	3	6	259
AUG 22	B+28	2	0	3	5	264
GUG 23	B+29	2	0	3	5	269
GUG 24	B+30	2	0	3	5	274
GUG 25	B+31	0	0	3	3	277

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>( T I M E )</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: 0.182 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	2605X	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
321610	2695R	UNDERWAY FROM USS WILDCAT
321714	2605X	BEACHED ON BIKINI ISLAND
340645	2605X	UNDERWAY FROM BEACH
340750	1213U	ANCHORED OFF ADMDEN ISLAND
341827	1213U	UNDERWAY FOR BEACH
341835	12130	BEACHED ON ADMDEN 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	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	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	4	0	13	17	17
AUG 1	B+7	4	0	17	21	38
AUG 2	B+8	1	0	15	16	54
AUG 3	B+9	3	0	13	16	70
AUG 4	B+10	0	0	12	12	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	B+14	0	0	8	8	117
AUG 9	B+15	0	0	7	7	124
AUG 10	B+16	0	0	6	6	130
AUG 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	164
AUG 14	B+20	5	0	5	10	174
AUG 15	B+21	3	0	5	8	182

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</u>	<u>TYPE</u>	<u>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: 0.326 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 REPORT FOR THE USS LST-861

TIME	PLACE	REMARKS
010900	2591M	UNDERWAY TO KWAJALEIN AT TIME OF SHOT ABLE
030701	2591M	ENTERED BIKINI LAGOON
030750	2604F	ANCHORED IN BERTH 64
042400	2604F	ANCHORED AS BEFORE
250835	2591M	UNDERWAY TO KWAJALEIN AT TIME OF SHOT BAKER
281331	2591M	ENTERED BIKINI LAGOON
281347	2393F	ANCHORED - "A" 103 DEG "B" 54 DEG
281508	2393F	UNDERWAY TO SHIFT BERTHS
281530	2093R	ANCHORED - "C" 36 DEG NORTH ENYU BEACON 78 DEG "A" 9 6 DEG (1000 YARDS WEST OF BERTH "C")
281638	2093R	UNDERWAY
281706	2094W	ANCHORED 1000 YARDS SOUTH OF BERTH #380 - ROCKEKARAI I S. 54 DEG L.TAN. ENYU 78 DEG R.TAN. ENYU 98 DEG "C" 153.5 DEG "D" 49 DEG "E" 325 DEG
301100	2094W	(ESTIMATED TIME FOR) UNDERWAY TO BERTH 64
301200	2604F	ANCHORED IN BERTH 64
331626	2604F	UNDERWAY FROM BERTH 64
331725	2694X	ANCHORED - "B" 143 DEG "G" 22 DEG NORTH ENYC BEACON 67.5 DEG
352400	2694X	ANCHORED GS BEFORE
381041	2694X	UNDERWAY FOR NEW ANCHORGGE
551052	2591M	DEPARTED BIKINI LAGOON ON 24 AUGUST 1946 - ENROUTE KWA JALEIN

USS LST-861 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 THRU 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	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	0	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	B+16	8	0	6	14	215
AUG 11	B+17	7	0	6	13	228
AUG 12	B+18	6	0	6	12	240
AUG 13	B+19	6	0	5	11	251
AUG 14	B+20	5	0	5	10	261
AUG 15	B+21	5	0	5	10	271
AUG 16	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	B+25	3	0	4	7	301
AUG 20	B+26	3	0	3	6	307
AUG 21	B+27	3	0	3	6	313
AUG 22	B+28	2	0	3	5	318
AUG 23	B+29	2	0	3	5	323
AUG 24	B+30	0	0	3	3	326



## SUPPORT SHIP INFORMATION SUMMARY

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 DATA:	<u>TEST</u>	<u>D A T E</u>	<u>( T I M E )</u>	<u>YIELD</u>	<u>TYPE</u>	<u>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-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	2591M	MOORED OFF RONGERIK ISLAND IN RONGERIK ATOLL AT TIME 0 F 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 CONTAMI NATION	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		ij	0
JUL 5	THRU 24	0	0			0
JUL 25	B+0	0	0	0	0	0

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.193 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 REPORT FOR THE USS LST-331

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE
011735	2591M	ENTERED BIKINI LAGOON
011823	2405V	ANCHORED IN BERTH 41
040604	2405V	UNDERWAY FROM BERTH 41
040645	2404V	MOORED TO USS ST. CROIX IN BERTH 92
041745	2404V	UNDERWAY FROM USS ST. CROIX
041759	2404I	ANCHORED IN BERTH #57
042400	2404I	ANCHORED AS BEFORE
250835	2591M	OBSERVED SHOT BAKER - BEARING 277 DEGREES AT A DISTANCE 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 AT BIKINI LST BEACHING AREA
321513	2605X	UNDERWAY FROM BEACH
321738	2893Q	MOORED TO PONTOON CAUSEWAY - "A" 191 DEG "B" 351 DEG BUOY #4 282 DEG
351916	2893Q	UNDERWAY
351940	2792P	ANCHORED SOUTHWEST END OF ENYU ISLAND - "A" 66 DEG "B" 8 DEG BUOY #2 226 DEG
352400	2792P	ANCHORED AS BEFORE
531341	2591M	DEPARTED BIKINI LAGOON ON 22 AUGUST 1946 - ENROUTE ENIWETOK

## USS LST-881 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 THRU 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	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	B+14	0	0	7	7	116
AUG 9	B+15	0	0	7	7	123
AUG 10	B+16	0	0	6	6	129
AUG 11	B+17	0	0	6	6	135
AUG 12	B+18	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	B+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

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>( T I M E )</u>	<u>TYPE</u>	<u>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
010900	2591M	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 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 THRU 24		0	0			0
JUL 25	B+0	0	0	0	0	0

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.307 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

TIME	PLACE	REMARKS
010900	2591M	ENROUTE <MAJALEIN FROM PEARL HARBOR AT TIME OF SHOT AB
051200	9999A	LE PASSING SUMMARY 5 PLUS 1
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
090800	2591M	ENTERED BIKINI LAGOON
200916	9999A	FROM 0916 TO 1040 MOORED TO USS YD-160
210621	9999A	FROM 0621 TO 1150 MOORED ALONGSIDE USS PILOTFISH
211523	9999A	AT 1523 UNDERWAY TO GO ALONGSIDE USS SEARAVEN -- AT 17 20 UNDERWAY FROM ALONGSIDE USS SEARAVEN
220555	9999A	MOORED ALONGSIDE USS SKIPJACK FROM 0555 TO 0808
250835	2591M	OBSERVED SHOT BAKER FROM A DISTANCE OF 15 MILES
251128	2591M	ENTERED BIKINI LAGOON
251155	2694X	ANCHORED 300 YARDS EAST OF BERTH "L" - "A" 136 DEG BE ACON ON NORTH END OF ENVU IS. 23 DEG
251405	2694X	UNDERWAY TO SHIFT BERTH
251410	2693G	ANCHORED - POLE ON ENVU IS. 24 DEG "A" 123.5 DEG
281546	2693G	UNDERWAY TO SHIFT BERTHS
281645	1793X	ANCHORED - "A" 93 DEG "B" 68 DEG
291153	1793X	UNDERWAY FROM ANCHORAGE
291210	1994X	ANCHORED IN VICINITY OF USS PALMYRA - "A" 101 DEG "C" 43 DEG
291350	1994X	UNDERWAY FROM ANCHORAGE
291429	2795K	ANCHORED IN VICINITY OF USS PRESERVER
291500	2795K	UNDERWAY
291530	2797S	IN VICINITY OF ION ISLAND
291831	2797S	UNDERWAY FROM VICINITY OF ION SLAND
291912	1993X	ANCHORED - "H" 262 DEG "C" 38 DEG
301449	1993X	UNDERWAY TO SHIFT BERTHS
301534	2792C	ANCHORED - POLE AT NORTH END OF ENVU IS. 27 DEG "A" 122 DEG
321401	2792C	UNDERWAY FROM ANCHORAGE
321421	2894H	ALONGSIDE HUGHES
321715	2894H	LEO NG HUGHES
321731	2793V	ANCHORED "A" 123 DEG "B" 9.5 DEG
321502	2793V	UNDERWAY FROM ANCHORAGE
321547	1892D	ANCHORED "A" 92 DEG "B" 66 DEG "C" 42 DEG
321605	1892D	UNDERWAY FROM ANCHORAGE
321619	1893U	ANCHORED "A" 93 DEG "B" 66 DEG "C" 45 DEG
342400	1893U	ANCHORED AS FORE
410836	2199D	ALONGSIDE SEARAVEN2
410915	2199D	LEAVING SEARAVEN2
410929	2000T	ALONGSIDE PARCHE1
411250	2000T	LEAVING PARCHE1
550838	2101Q	ALONGSIDE PENSACOLA

550900 21010 LEAVING PENSACOLA  
651113 2303P ALONGSIDE LCT-1078  
651930 2303P LEAVING LCT-1078  
660950 2591M DEPARTED BIKINI 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 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 THRU 24		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	3	3	4
JUL 30	B+5	0	0	6	6	10
JUL 31	B+6	0	0	4	4	14
AUG 1	B+7	0	64	4	68	82
AUG 2	B+8	0	0	4	4	86
AUG 3	B+9	0	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	2	97
AUG 7	B+13	0	0	5	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
AUG 14	B+20	5	0	6	11	195
AUG 15	B+21	5	0	5	10	205
AUG 16	B+22	4	0	5	9	214
AUG 17	B+23	4	0	5	7	223
AUG 18	B+24	3	0	4	7	230
AUG 19	B+25	3	0	4	7	237
AUG 20	B+26	3	0	4	7	244
AUG 21	B+27	3	0	4	7	251
AUG 22	B+28	1	0	4	5	256
AUG 23	B+29	1	0	4	5	261
AUG 24	B+30	2	3	3	8	269
AUG 25	B+31	2	0	3	5	274
AUG 26	B+32	1	0	3	4	278
AUG 27	B+33	1	0	3	4	282
AUG 28	B+34	1	0	3	4	286
AUG 29	B+35	1	0	3	4	290
AUG 30	B+36	1	0	3	4	294
AUG 31	B+37	1	0	3	4	298
SEP 1	B+38	0	0	2	2	300
SEP 2	B+39	0	0	2	2	302
SEP 3	B+40	0	1	2	3	305
SEP 4	B+41	0	0	2	2	307

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>D A T E</u>	<u>( T I M E )</u>	<u>YIELD</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-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-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: 0.759 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	REMARKS
010900	2591M	SHOT ABLE
010917	2591M	BEARING FROM TGRGET ARRAY 135 @ 20 MILES
011102	2591M	ENTERED BIKINI LAGOON GFTER GBLE SHOT
011216	2692D	ANCHORED OFF ENYU ISLAND
011305	2692D	UNDERWAY FROM BIKINI TO KWAJGLEIN
011310	2591M	EXITED LGGOON
021017	2591M	ENTERED LGGOON
021047	2696M	MOORED BERTH #324
021159	2696M	UNDERWAY TO SHIFT BERTHS
021235	2502A	ANCHORED BERTH #146
021428	2502A	UNDERWAY FROM BERTH #146
021505	2591M	DEPARTED BIKINI LGGOON ENROUTE FOR PEGRL HARBOR
250835	2591M	SHOT BAKER
251843	2591M	ENTERED LAGOON AFTER BAKER SHOT
251902	2597A	ANCHORED
260001	2597A	ANCHORED AS EEFOR
261018	2597A	UNDERWGY
261050	2593M	GNCHORED
261635	2593M	UNDERWGY
261644	2591M	EXITING LAGOON
270001	2591M	CONDUCTED RGDIOLOGICAL EXAMINATION OF OIL SLICK TO NOR TH OF BIKINI ISLAND
270002	2591M	TOTAL TIME INVESTIGATING OIL SLICK 7 HRS 06 MINS.
270003	2591M	PASSING SUMMARY 100
270004	2591M	ASSUME ESTIMATED DOSE OF 100 MREM
271638	2591M	REENTERING THE LGGOON
271712	2595T	GNCHORED BERTH #369
281525	2595T	UNDERWAY FROM ANCHORAGE
281542	2591M	EXITED LAGOON
290001	2591M	CONDUCTED RADIOLOGICAL PATROL THROUGHOUT THE NIGHT TGK ING WATER SAMPLES EVERY 5 MILES OFF BOKOROUYURN ISLAND AND OURUKNEU ISLAND
291135	2591M	REENTERED LAGOON
291206	1895A	ANCHORED IN BERTH #330
301430	1895A	UNDERWGY
301540	2696N	GNCHORED IN BERTH #324
301643	2696N	UNDERWAY
301639	2400A	ANCHORED IN DEATH #189
331405	2400A	UNDERWAY FROM ANCHORAGE
331445	2392A	ANCHORED BERTH KING
360732	2392H	UNDERWAY
360745	2591M	EXITED LAGOON
361604	2591M	REENTERED LAGOON
361622	2392H	GNCHORED IN BERTH KING
380755	2392H	UNDERWAY
380812	2591M	EXITED LAGOON

381421 2591M REENTERED THE LAGOON  
381505 2096H ANCHORED IN BERTH #305  
401010 2096H UNDERWAY  
401202 2400B ANCHORED BERTH #189  
410800 2400B UNDERWAY FROM ANCHORAGE  
410801 2591M DEPARTED BIKINI LAGOON ENROUTE PEARL HARBOR 10 AUGUST  
1946



USS MOALE 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 THRU 24		0	0			0
JUL 25	B+0	2	0	3	5	5
JUL 26	B+1	37	0	130	167	172
JUL 27	B+2	33	70	95	198	370
JUL 28	B+3	3	0	67	70	440
JUL 29	B+4	0	0	47	47	487
JUL 30	B+5	4	0	34	38	525
JUL 31	B+6	12	0	30	42	567
AUG 1	B+7	14	0	24	58	605
AUG 2	B+8	8	0	21	29	634
AUG 3	B+9	0	0	18	18	652
AUG 4	B+10	0	0	16	16	668
AUG 5	B+11	0	0	14	14	682
AUG 6	B+12	0	0	13	13	695
AUG 7	B+13	4	0	11	15	710
AUG 8	B+14	10	0	10	20	730
AUG 9	B+15	8	0	10	18	748
AUG 10	B+16	2	0	9	11	759

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</u>	<u>TYPE</u>	<u>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: 0.193 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 FOR THE USS MOUNT MCKINLEY

TIME	PLACE	REMARKS
-----	-----	-----
010901	2591M	OBSERVED SHOT ABLE -- USS NEVGGG (CENTER TARGET SHIP) EEGRING 253.5 DEG DISTANCE 11.3 MILES
011505	2591M	ENTERED BIKINI LAGOON GFTEE SHOT GELE
011540	2500M	ANCHORED IN BERTH 191
020944	2500M	UNDERWAY
021010	2303N	GNCHORED IN BERTH 112
040900	2303N	GE BEFORE
250835	2591M	OBSERVED SHOT BAKER FROM 8.9 MILES TO THE SOUTHEGST OF BIKINI LAGOON
251658	2591M	ENTERED THE LGGOON
251718	2594I	ANCHORED IN BERTH PETER
281513	2594I	UNDERWAY TO SHIFT BERTH
281644	2193B	GNCHORED WESTWARD 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 MCKINLEY 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	3	0		3	3
JUL 3	A+2	0			0	3
JUL 4	A+3	0	0		0	3
JUL 5	THRU 24	0	0			7
JUL 25	B+0	0	0	0		7
JUL 26	B+1	0	0		0	3
JUL 27	B+2	0	0	0	0	
JUL 28	B+3	0	0	0		3
JUL 29	B+4	0	0	0	0	3
JUL 30	B+5	15	0	11	26	29
JUL 31	B+6	21		13	34	63
AUG 1	B+7	19		11	30	93
AUG 2	B+8	15	0	10	25	118
AUG 3	B+9	0		8	8	126
AUG 4	B+10	0	0	7		133
AUG 5	B+11	0	0	6	6	139
AUG 6	B+12	0		6	6	145
AUG 7	B+13	5	0	5	10	155
AUG 8	B+14	10	0	5	15	170
AUG 9	B+15	9	0		13	183
AUG 10	B+16	6			10	193

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.368 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
060808	2200B	ALONGSIDE YOG-83
060839	2200B	LEAVING YOG-83
060859	2202A	ALONGSIDE LST-52
060959	2202A	LEAVING LST-52
061020	2203G	ALONGSIDE LST-661
061100	2203G	LEAVING LST-661
061155	2104J	ALONGSIDE LST-220
061248	2104J	LEAVING LST-220
061307	2205K	ALONGSIDE LST-545
061346	2205K	LEAVING LST-545
061505	2201Q	ALONGSIDE HUGHES
061522	2201Q	LEAVING HUGHES
250835	2591M	OBSERVED SHOT BAKER FROM A DISTANCE OF APPROXIMATELY 2 0 MILES
310735	2591M	ENTERED BIKINI LAGOON
310924	2501Q	ANCHORED NORTHEAST OF BERTH 168 (USS QUARTZ ANCHORED 1 00 YARDS ASTERN)
310945	2501Q	UNDERWAY
310950	2501Q	MOORED TO USS QUARTZ
311103	2501Q	UNDERWAY
311113	2501S	ANCHORED EAST OF BERTH 168 - "C" 61 DEG "B" 150 DEG OBSTRUCTION BUOY 179 DEG
320955	2501S	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	2401I	ANCHORED NORTH OF BERTH 167 - "C" 82 DEG "B" 143 DEG
331515	2401I	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	2093G	ANCHORED SOUTH OF BERTH 380 - BUOY #4 85 DEG BUOY #1 122 DEG
340605	2093G	UNDERWAY TOWING USS QUARTZ

340643 2600F ANCHORED I N BERTH 191A  
 340802 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 UNDERWAY  
 341049 2692V ANCHORED SOUTH OF BERTH 386 - R.TAN. ENYU ISLAND 92 DE  
 G "A" 76 DEG  
 350906 2692V UNDERWAY  
 511239 2591M UNDERWAY FOR KWAJALEIN WITH PRINZ EUGEN IN TOW, 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 LAGOON WITH USS BUTTE IN TOW ON 29 AUG  
 U S T 1 4 4 6 - ENROUTE KWAJALEIN (FINAL DESTINATION PEARL  
 HARBOR) (TIME APPROXIMATE)

# USS MUNSEE -CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINAT ON	DAILY TOTAL	CUM TOTAL
JUL 1	A+0	0	0	0	0	0
JUL 2	A+1	0	0	0	0	0
JUL 3	A+2	0	0	0	0	0
JUL 4	A+3	0	0	0	0	0
JUL 5 THRU 24		0	0	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	16	24	24
AUG 1	B+7	6	0	21	27	51
AUG 2	B+8	6	0	18	24	75
AUG 3	B+9	0	0	16	16	91
AUG 4	B+10	4	0	14	18	109
AUG 5	B+11	0	0	12	12	121
AUG 6	B+12	0	0	11	11	132
AUG 7	B+13	5	0	10	15	147
AUG 8	B+14	9	0	9	18	165
AUG 9	B+15	9	0	8	17	182
AUG 10	B+16	8	0	8	16	198
AUG 11	B+17	7	0	7	14	212
AUG 12	B+18	6	0	7	13	225
AUG 13	B+19	6	0	6	12	237
AUG 14	B+20	5	0	6	11	248
AUG 15	B+21	5	0	5	10	258
AUG 16	B+22	4	0	5	9	267
AUG 17	B+23	4	0	5	9	276
AUG 18	B+24	3	0	4	7	283
AUG 19	B+25	3	0	4	7	290
AUG 20	B+26	1	0	4	5	295
AUG 21	B+27	0	0	4	4	299
AUG 22	B+28	0	0	4	4	303
AUG 23	B+29	1	0	4	5	308
AUG 24	B+30	2	40	3	45	353
AUG 25	B+31	0	0	3	3	356
AUG 26	B+32	0	0	3	3	359
AUG 27	B+33	0	0	3	3	362
AUG 28	B+34	0	0	3	3	365
AUG 29	B+35	0	0	3	3	#66



## SUPPORT SHIP INFORMATION SUMMARY

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:	<u>TEST</u>	<u>D A T E</u>	<u>( T I M E )</u>	<u>TYPE</u>	<u>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: 0.185 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

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE FROM A DISTANCE IN EXCESS OF 15 MILES
011836	2591M	ENTERED BIKINI LAGOON
011900	2597X	ANCHORED BERTH #304
021457	2597X	UNDERWAY TO CHANGE BERTHS
021535	2304Q	ANCHORED BERTH 55-A
041613	2304Q	UNDERWAY-ENROUTE KWAJALEIN
041811	2591M	DEPARTED BIKINI LAGOON
250835	2591M	OBSERVED SHOT BAKER FROM A DISTANCE IN EXCESS OF 10 MILES
271223	2591M	ENTERED BIKINI LAGOON
271230	2594I	LYING TO 300 YARDS FROM USS MT MCKINLEY
271245	2594I	UNDERWAY
271256	2591M	EXITED BIKINI LAGOON
291420	2591M	RE-ENTERED BIKINI LAGOON
291443	2393Y	ANCHORED BERTH "MIKE"
300903	2393Y	UNDERWAY TO SHIFT BERTHS
300955	2304Q	ANCHORED BERTH 55-A
310000	2304Q	ANCHORED AS BERTH 55-A
320829	2304Q	UNDERWAY TO RECEIVE FUEL
320912	2697W	MOORED TO USS ENDREE FOR FUEL
321037	2697W	UNDERWAY TO BERTH
321119	2304Q	ANCHORED BERTH 55-A
331310	2304Q	UNDERWAY TO CHANGE BERTHS
331402	2293U	ANCHORED IN BERTH "F"
351330	2293U	UNDERWAY FOR PEARL HARBOR
351441	2591M	EXITED BIKINI LAGOON ON 4 AUGUST 1981

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 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 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
JUL 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

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.175 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

TIME	PLACE	REMARKS
010900	2591M	OBSERVED S-LT ABLE FROM A DISTANCE OF 43 MILES WHILE STATIONED FOR RADIOLOGICAL PATROL
050647	2591M	ENTERED BIKINI LAGOON
051000	2400J	ANCHORED IN BERTH 190N
250835	2591M	OBSERVED SHOT BAKER FROM A DISTANCE OF 12.5 MILES ON A BEARING OF 260 DEG.
261200	2591M	ENTERED BIKINI LAGOON
261225	2196F	ANCHORED IN BERTH 316
261555	2196F	UNDERWAY TO SHIFT ANCHORAGE
261717	2194G	ANCHORED IN BERTH 357
271538	2194G	UNDERWAY FROM BERTH 357
271555	2494T	PASSED BUOY #4
271613	2695S	ANCHORED IN BERTH 370
281554	2695S	UNDERWAY FROM BERTH 370
281602	2494T	PASSED BUOY #4
281619	2692R	ANCHORED IN BERTH U
300920	2692R	UNDERWAY TO SHIFT BERTHS
300937	25920	ANCHORED 600 YARDS NORTHWEST OF BERTH 386
301115	25920	UNDERWAY TO USS ENDREBE
301406	2692N	ANCHORED IN BERTH 386
330813	2692M	UNDERWAY FROM BERTH 386
330900	2503T	ANCHORED IN BERTH 1165
331421	2503T	UNDERWAY FROM BERTH 1165
331516	2393V	ANCHORED IN BERTH "H" NORTH
360742	2393V	UNDERWAY TO SEA
360802	2591M	PASSED BUOY #1 EXIT LAGOON
261706	2591M	ENTER LAGOON
361738	2393V	ANCHORED IN BERTH "H" NORTH
380839	2393V	UNDERWAY FROM BERTH "H" NORTH
380927	2503T	ANCHORED IN BERTH 116 NORTH
390936	2503T	UNDERWAY
391145	25971	ANCHORED N BERTH 386
391218	25971	UNDERWAY
391230	2591M	DEPARTED BIKINI LAGOON FOR PEARL HARBOR 08 AUG 1946

USS O'BRIEN 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 THRU 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	2	2	2
JUL 28	B+3	3	0	23	26	28
JUL 29	B+4	0	0	16	16	44
JUL 30	B+5	0	0	12	12	56
JUL 31	B+6	0	0	10	10	66
AUG 1	B+7	0	0	8	8	74
AUG 2	B+8	4	0	13	17	91
AUG 3	B+9	0	0	16	16	107
AUG 4	B+10	0	0	14	14	121
AUG 5	B+11	0	0	12	12	133
AUG 6	B+12	0	0	11	11	144
AUG 7	B+13	6	0	11	17	161
AUG 8	B+14	4	0	10	14	175

## SUPPORT SHIP INFORMATION SUMMARY

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 DATA:	<u>TEST</u>	<u>DATE (TIME)</u>	<u>YIELD</u>	<u>TYPE</u>	<u>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: 0.582 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

TIME	PLACE	REMARKS
011222	2591M	ENTERED BIKINI LAGOON AFTER ABLE SHOT
011338	22986	ALONGSIDE GENEVA
011438	22986	LEAVING GENEVA
011452	22980	ALONGSIDE NIAGARA
011522	22980	LEAVING NIAGARA
011537	22988	ALONGSIDE BLADEN
011607	22988	LEAVING BLADEN
011635	2299M	ALONGSIDE FILLMORE
011716	2299M	LEAVING FILLMORE
011725	18981	ALONGSIDE MAYRANT
011755	18981	LEAVING MAYRANT
011855	27946	ANCHORED IN LEE OF ENYU ISLAND
012359	27946	PASSING SUMMARY 0
012400	27946	"SUMMARY" IS A FICTITIOUS S. P. USED TO RECORD THE DOSE THE ONEOTA RECEIVED WHILE ALONGSIDE TARGET SHIPS AFTER R SHOT ABLE
020728	27946	UNDERWAY TO PICK UP BOARDING PARTY
020915	2200X	ALONGSIDE BRACKEN
020855	2200X	LEAVING BRACKEN
020925	2000T	ALONGSIDE PARCHE
020944	2000T	LEAVING PARCHE
021122	27946	ANCHORED IN LEE OF ENYU ISLAND
022400	27946	PASSING SUMMARY 0
040900	27946	ANCHORED AS BEFORE
051200	9999A	PASSING SUMMARY 5 PLUS .4
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
051202	9999A	ALONGSIDE LST??? FOR 15 MINUTES
131200	9999A	ALONGSIDE ARDC-13 FOR 2 HRS 40 MIN
161200	9999A	ALONGSIDE LCT??? FOR 5 HRS 40 MIN
251055	2591M	ENTERED BIKINI LAGOON AFTER BAKER SHOT
251810	27946	ANCHORED IN LEE OF ENYU ISLAND
260001	27946	ANCHORED AS BEFORE
281555	27946	UNDERWAY TO SHIFT BERTHS
281635	2596R	ANCHORED
290805	2596R	UNDERWAY
290935	2400P	MOORED TO RAFT-OUTERMOST INSTRUMENTATION GEAR STATION
290936	2400P	NOTE-MAXIMUM DATA POINT ON BALL CRUSHER EXPERIMENT IS 7000 FEET FROM SURFACE ZERO...APPROXIMATE POSITION 240 0P
291017	2400P	UNDERWAY
291155	2094S	ANCHORED IN BERTH 380
300800	2094S	UNDERWAY TO PICK UP INSTRUMENTATION STATIONS
301205	2204K	ANCHORED IN BERTH 54
301345	2204K	UNDERWAY PICKING UP INSTRUMENTATION STATIONS



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 MOORED TO MOORING BUOY IN TARGET ARRAY  
321345 2207K UNDERWAY PICKING UP INSTRUMENTATION STATIONS  
321543 2204K ANCHORED IN BERTH 54  
330745 2204K UNDERWAY TO TARGET ARRAY  
331210 2695S MOORED TO USS WILDCAT IN BERTH 370  
331317 2695S 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 2000G 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

## USS ONEOTA 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	THRU 24	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	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+8	7	0	18	25	296
AUG 3	B+9	0	0	16	16	312
AUG 4	B+10	0	0	14	14	326
AUG 5	B+11	0	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	1j	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	B+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

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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.: 0.262 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

TIME	PLACE	REMARKS
011855	2591M	ENTRANCE TO BIKINI LAGOON
011921	2597K	ANCHORED BERTH 265
020839	2597K	UNDERWAY FROM BERTH 285
021042	2405G	ANCHORED BERTH 22
040900	2405G	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	2094D	ANCHORED IN BERTH 500 YARDS WEST OF BERTH "A"
290828	2094D	UNDERWAY TO SHIFT BERTHS
290945	2594D	ANCHORED IN BERTH "P"
300755	2594D	UNDERWAY FROM BERTH "P"
300849	2405G	ANCHORED BERTH 22
331655	2405G	UNDERWAY FROM BERTH 22
331805	2294T	ANCHORED BERTH 384
340717	2294T	UNDERWAY FROM BERTH 384
340806	2405G	ANCHORED BERTH 22
341235	2405G	SHIFTED FUEL FOR 4.5 DEGREE LIST TO PORT TO SCRAPE WATER LINE ON STARBOARD SIDE
341620	2405G	UNDERWAY FROM BERTH 22
341717	2294T	ANCHORED BERTH 384
350724	2294T	UNDERWAY FROM BERTH 384
350806	2405G	ANCHORED BERTH 22
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 KWAJALEIN 12 AUGUST 1946

USS oRCA 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 THRU 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	2	0	7	9	9
JUL 30	B+5	9	0	22	31	40
JUL 31	B+6	12	0	19	31	71
AUG 1	B+7	14	0	16	30	101
AUG 2	B+8	10	0	14	24	125
AUG 3	B+9	5	0	12	17	142
AUG 4	B+10	4	0	10	14	156
AUG 5	B+11	4	0	9	13	169
AUG 6	B+12	4	0	8	12	181
AUG 7	B+13	7	0	7	14	195
AUG 8	B+14	10	0	7	17	212
AUG 9	B+15	9	0	6	15	227
AUG 10	B+16	8	0	6	14	241
AUG 11	B+17	7	0	5	12	253
AUG 12	B+18	4	0	5	9	262

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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-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-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 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
010900	2591M	OBSERVED SHOT ABLE FROM A DISTANCE IN EXCESS OF 15 MILES
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	2195Y	ANCHORED IN BERTH #359
281837	2195Y	UNDERWAY FOR RONGELAP ATOLL
281915	2591M	DEPARTED BIKINI LAGOON
310558	2591M	RE-ENTERED BIKINI LAGOON
310709	2405P	ANCHORED IN BERTH #35
331600	2405P	UNDERWAY FROM ANCHORAGE
331658	2591M	DEPARTED BIKINI LAGOON ON 2 AUGUST 1946 -- ENROUTE FOR T HUENEME; CALIFORNIA

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	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	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	9	0	10	19	19
AUG 1	B+7	14	0	11	25	44
AUG 2	B+8	10	0	9	19	63



## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>( T I M E )</u>	<u>TYPE</u>	<u>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: 0.378 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
010900	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	2794H	ANCHORED OFF ENYU ISLAND
260001	2794H	ANCHORED AS BEFORE
261602	2794H	UNDERWAY TO NEW ANCHORAGE
261837	2695C	ANCHORED IN BERTH 344
281522	2695C	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	UNDERWAY TO NEW ANCHORAGE
331620	2594M	MOORED ALONGSIDE USS WILDCAT
331816	2594M	UNDERWAY
331850	2093C	ANCHORED SOUTH OF BERTH 330
340858	2093C	UNDERWAY TO SHIFT BERTHS
340932	2794C	ANCHORED IN ANCHORAGE MIKE
671845	2591M	DEPARTED BIKINI LAGOON ENROUTE KWAJALEIN 5 SEPTEMBER 1946

## USS PALMYRA 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 THRU 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	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
AUG 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	12	255
AUG 14	B+20	5	0	6	11	266
AUG 15	B+21	5	0	5	10	276
AUG 16	B+22	4	0	5	9	285
AUG 17	B+23	4	0	5	9	294
AUG 18	Et24	3	0	4	7	301
AUG 19	B+25	3	0	4	7	308
AUG 20	B+26	3	0	4	7	315
AUG 21	B+27	3	0	4	7	322
AUG 22	B+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	344
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

## SUPPORT SHIP INFORMATION SUMMARY

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:	<u>TEST</u>	<u>DATE (TIME)</u>	<u>YIELD</u>	<u>TYPE</u>	<u>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 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	ENTERED BIKINI LAGOON
011541	25988	ANCHORED IN BERTH 250
020954	25988	UNDERWAY TO NEW ANCHORAGE
021145	22065	ANCHORED IN BERTH 20
042400	22065	ANCHORED AS BEFORE
250835	2591M	OBSERVED SHOT BAKER BEARING 300 DEGREES 9 MILES
251645	2591M	ENTERED BIKINI LAGOON AFTER SHOT BAKER
251735	21940	ANCHORED IN BERTH 382
260001	21940	ANCHORED AS BEFORE
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	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	0	0	0
JUL 27	B+2	0	0	0	0	0

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>( T I M E )</u>	<u>YIELD</u>	<u>TYPE</u>	<u>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)

\*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-23

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE FROM A DISTANCE IN EXCEES OF 12 MIL ES
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 ION)
011630	1112M	ARRIVED AMEN ISLAND
011715	1112M	DEPARTED AMEN ISLAND
011857	2105V	ANCHORED IN AREA BRAZIL
020708	2105V	UNDERWAY TO CONDUCT RAD SAFE SURVEY (PROBABLY WESTERN REGION OF BIKINI LAGOON)
021452	2505W	ANCHORED BERTH #40
021615	2505W	CONDUCT SURVEY - LOOKING FOR "HOT" SPOTS
021816	2505W	ANCHORED IN BERTH 40
030653	2505W	UNDERWAY TO CONDUCT SURVEY (PROBABLY WESTERN REGION OF LAGOON)
031201	2194S	ANCHORED
031345	2194S	UNDERWAY TO CONDUCT SURVEY (LOOK ING FOR HOT SPOTS)
031818	2598E	MOORED ALONGSIDE USS BARTON
031821	2598E	UNDERWAY TO ANCHORAGE
031911	2305G	ANCHORED IN BERTH #21
040830	2305G	UNDERWAY
040910	2000R	ANCHORED (PGM-24 CAME ALONGSIDE AT 1035)
042400	2000R	ANCHORED A S BEFORE
250835	2591M	OBSERVED SHOT BAKER FROM A DISTANCE IN EXCESS OF 3 MIL ES
251009	2591M	ENTERED BIKINI LAGOON
251100	1801U	ESTIMATED POSITION
251300	1803D	ESTIMATE@ POSITION
251630	1700A	ESTIMATED POSITION
251730	2198U	ESTIMATED POSITION
251835	2598E	ANCHORED I N BERTH #251
260001	2598E	ANCHORED AS BEFORE
260743	2598E	UNDERWAY ON RAD SAFE SURVEY IN BIKINI LAGOON
261702	2694M	ANCHORED (OCEANOGRAPHERS LE FT SHIP AT 1657)
270550	2694M	UNDERWAY TO VICINITY OF USS HAVEN
270557	2594T	NEAR USS HAVEN
270614	2594T	UNDERWAY ON RAD SAFE SURVEY
270800	1096M	ESTIMATED POSITION
271000	1096M	ESTIMATED POSITION
271158	2793U	ANCHORED IN VICINITY OF USS AFFLING (SHIP EVACUATED AT 1815)
281550	2793U	UNDERWAY TO SHIFT ANCHORAGE
281630	2092K	ANCHORED NEAR USS APPLING
282045	2092K	UNDERWAY TO SHIFT ANCHORAGE



282100	1992K	ANCHORED 1000 YARDS OFF USS APPLING
290902	1992K	UNDERWAY ON RAD SAFESURVEY IN BIKINI LAGOON
291100	1096M	ESTIMATED
291200	1096M	ESTIMATED
291349	2293A	ALONGSIDE USS HAVEN
291500	2293A	UNDERWAY ON RAD SAFE PATROL
291600	1096M	ESTIMATED
291700	1096M	ESTIMATED
291818	2793M	ANCHORED IN BERTH "1"
300657	2793M	UNDERWAY ON RAD SAFE SURVEY
301428	2305V	ANCHORED IN BERTH #3A
310822	2305V	UNDERWAY ON RAD SAFE PATROL
310930	0505M	ESTIMATED
311000	0505M	ESTIMATED
311132	2698D	ANCHORED IN BERTH #21A
311535	2698D	UNDERWAY TO ASSIGNED BERTH
311600	2305V	ANCHORED IN BERTH #3A
320855	2305V	UNDERWAY TO NEW ANCHORAGE
320913	1905D	ANCHORED 400 YARDS NORTHEAST OF BERTH #14
321319	1905D	UNDERWAY TO ASSIGNED ANCHORAGE
321349	2304B	ANCHORED
331030	2304B	UNDERWAY ON DECONTAMINATION RUN
331100	2591M	DEPARTED BIKINI LAGOON (ESTIMATED TIME)
331300	2591M	RE-ENTERED BIKINI LAGOON (TIME ESTIMATED)
331324	2794D	NO REMARK
331400	2794D	UNDERWAY ON DECONTAMINATION RUN (TIME ESTIMATED)
331415	2591M	DEPARTED BIKINI LAGOON (TIME ESTIMATED)
331700	2591M	RE-ENTERED BIKINI LAGOON (TIME ESTIMATED)
331727	2294T	ANCHORED IN BERTH #34
331821	2294T	UNDERWAY TO NEW ANCHORAGE
331835	2295R	ANCHORED
341016	2295R	UNDERWAY FOR DECONTAMINATION RUN IN BIKINI LAGOON
341128	2591M	DEPARTED BIKINI LAGOON
341700	2591M	RE-ENTERED BIKINI LAGOON
341710	2394A	ANCHORED IN BERTH #33
352400	2394A	ANCHORED AS BEFORE
561341	2591M	DEPARTING BIKINI LAGOON ON 25 AUGUST 1946 - ENROUTE KM AJALEIN

USS PGM-23 CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	A+0	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 THRU 24		0	0			4
JUL 25	B+0	38	0	59	97	101
JUL 26	B+1	8	0	73	81	182
JUL 27	B+2	0	0	29	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 31	B+6	11	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+10	0	0	34	34	568
AUG 5	B+11	0	0	30	30	598
AUG 6	B+12	0	0	27	27	625
AUG 7	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	783
AUG 13	B+19	5	0	15	20	803
AUG 14	B+20	5	0	14	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	870
AUG 18	B+24	3	0	11	14	884
AUG 19	B+25	3	0	11	14	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	B+31	1	0	8	9	965

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</u>	<u>TYPE</u>	<u>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: 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)

\*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 T H E USS PGM-24

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE FROM AREA "FRANKLIN"
011145	2591M	ENTERED BIKINI LAGOON
011210	2501D	ARRIVED AREA CHILE (HEADING 310 DEG)
011230	2403E	ESTIMATED POSITION
011530	2201L	LAYING TO TAKING RADIOLOGICAL READINGS
011830	2201L	UNDERWAY TO ANCHORAGE
011853	2302K	ANCHORED IN AREA CHILE
020755	2302K	UNDERWAY ON RAD SAFE PATROL TO NORTHERN PART OF TARGET ARRAY
021000	2002A	IN TARGET ARRAY (ESTIMATED POSITION)
021143	2201P	LYING TO ASTERN OF USS NEVADA
021430	2201P	UNDERWAY TO WESTERN EDGE OF LAGOON
021530	8904M	ARRIVED ON STATION
021548	8904M	UNDERWAY TAKING WEST-EAST SURVEY
021935	2304C	ARRIVED LAST SECTOR NEAR USS HAVEN
021945	2304C	UNDERWAY TO ANCHORAGE
022004	2302D	ANCHORED
030710	2302D	UNDERWAY TO USS HAVEN
030723	2304B	LAYING TO OFF USS HAVEN
030906	2304B	UNDERWAY TO RAD SAFE PATROL
031243	8904M	LAYING TO IN SECTOR 8904
031545	8904M	UNDERWAY TO NEXT STATION
031820	2304B	ANCHORED IN VICINITY OF USS HAVEN
041000	2304B	UNDERWAY TO SURVEY 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 AREA "FRANKLIN"
251225	2591M	ENTER BIKINI LAGOON
251245	2599N	ARRIVED AREA 2599N
251300	2599N	UNDERWAY TO EMBARK BIKINI LANDING PARTY
251320	2504V	WATER IN VICINITY OF LCT-1113 REPORTED CLEAR (OPERATIONS 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 (PGM CREW EVACUATED)
260001	2594I	ANCHORED AS BEFORE
260830	2594I	UNDERWAY TO GRID AREA 0505
261050	0505M	ARRIVED GRID AREA 0505
261500	0505M	DEPARTED AREA FOR USS HAVEN (TIME BASED ON ESTIMATED 2

. 3 HOURS BACK TO HAVEN)  
 261725 2594T ANCHORED IN VICINITY OF USS HAVEN (PGM CREW EVACUATED)  
 270700 2594T UNDERWAY TO GRID AREAS 1798 AND 1898  
 270730 1798K ARRIVE ASSIGNED AREA (ESTIMATED POSITION AND TIME)  
 271145 18980 DEPART ASSIGNED AREA  
 271205 17000 ANCHORED  
 271340 17000 UNDERWAY TO GRID AREA 1800  
 271813 18000 COMPLETED PATROL - COURSE CHANGE 120 DEG HEADING TOWARD USS HAVEN  
 271848 26940 ANCHORED IN VICINITY OF USS HAVEN IN AREA 26940  
 280830 26940 UNDERWAY TO GRID AREA 0990N  
 281000 0992M (0992 IS OUTSIDE LAGOON) ARRIVED ON STATION; COURSE CHANGE 290 DEG PATROLLING WESTWARD  
 281620 0292M COMPLETED PATROL (ESTIMATED POSITION)  
 281825 22931 ANCHORED NEAR USS HAVEN  
 282110 22931 DEPARTED FOR NEW ANCHORAGE (CONCOR WOULD NOT HOLD)  
 282112 2393F ANCHORED  
 291118 2393F UNDERWAY TO USS HAVEN  
 291137 2293A ALONGSIDE USS HAVEN  
 291240 2293A UNDERWAY TO ANCHORAGE  
 291256 2393N ANCHORED  
 300751 2393N UNDERWAY TO AMEN ISLAND  
 300952 1112M OFF VEE AMEN ISLAND (R03 SAFE + EOM OSHORE)  
 301230 1112M UNDERWAY TO NAMU ISLAND  
 301500 9514M ARRIVED NAMU ISLAND (R03 SAFE + EAM ASHORE)  
 301635 9514M UNDERWAY TO ANCHORAGE  
 301929 2304B ANCHORED NEAR USS HAVEN  
 321407 2304B UNDERWAY ON DECONTAMINATION RUN OUTSIDE OF LAGOON  
 321455 2591M DEPARTED BIKINI LAGOON  
 321700 2591M RE-ENTERED BIKINI LAGOON  
 321712 2595S MOVED ALONGSIDE USS WILDCAT  
 321832 2595S UNDERWAY TO ANCHORAGE  
 321945 2304B ANCHORED NEAR USS HAVEN  
 330934 2304B UNDERWAY TO NORTHWESTERN ISLAND  
 331130 9411E ARRIVED GRID AREA 94 E  
 331530 9411E DEPARTED AREA  
 331630 1011M ARRIVED "ATHEN" ISLAND (PROBABLY AMEN ISLAND)  
 331801 1011M DEPARTED "ATHEN" ISLAND (AMEN ISLAND) HEADING 140 DEG TOWARD EYU ISLAND  
 331953 2294M ANCHORED NEAR USS HAVEN (BERTH 383)  
 341125 2294M UNDERWAY TO FLUSH SALT WATER TANKS  
 341215 2591M EXITED BIKINI LAGOON  
 341500 2591M RE-ENTERED BIKINI LAGOON  
 341717 2294M ANCHORED NEAR USS HAVEN  
 352400 2294M ANCHORED AS BEFORE  
 560946 2591M DEPARTED BIKINI LAGOON ON 25 AUGUST 1946

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

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	A+0	41	0		41	41
JUL 2	A+1	13	0		13	54
JUL 3	A+2	0	0		0	54
JUL 4	A+3	0	0		0	54
JUL 5 THRU 24		0	0			54
JUL 25	B+0	38	0	101	139	193
JUL 26	B+1	1	0	54	55	248
JUL 27	B+2	33	0	150	183	431
JUL 28	B+3	0	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
AUG 1	B+7	14	0	52	66	872
AUG 2	B+8	7	0	46	53	925
AUG 3	B+9	0	0	39	39	964
AUG 4	B+10	0	0	34	34	998
AUG 5	B+11	0	0	30	30	1028
AUG 6	B+12	0	0	27	27	1055
AUG 7	B+13	0	0	25	25	1080
AUG 8	B+14	0	0	22	22	1102
AUG 9	B+15	0	0	20	20	1122
AUG 10	B+16	0	0	19	19	1141
AUG 11	B+17	0	0	17	17	1158
AUG 12	B+18	4	0	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	1309
AUG 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+30	2	0	8	10	1354
AUG 25	B+31	0	0	8	8	1362

## SUPPORT SHIP INFORMATION SUMMARY

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 M E )	<u>YIELD</u>	<u>TYPE</u>	<u>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: 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)

\*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-25

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE FROM A DISTANCE IN EXCESS OF 15 MILES
011130	2591M	ENTERED BIKINI LAGOON
011200	25010	ESTIMATED POSITION
011300	2201M	ENTERED RADIOACTIVE AREA - IN AREA DENMARK (BACKED CLEAR 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	2100I	ANCHORED IN NIGHT STATION
030638	2100I	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 MILES
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	2397T	ANCHORED
260009	2397T	UNDERWAY TO NEW ANCHORAGE
260025	2395A	ANCHORED
260145	2395A	UNDERWAY TO NEW ANCHORAGE
260220	2693G	ANCHORED
260905	2693G	UNDERWAY FOR RADIOLOGICAL SAFETY TESTS IN BIKINI LAGOON



N

261000	1598A	ESTIMATED POSITION
261030	1700A	ESTIMATED
261100	1698W	ESTIMATED
261200	1900M	ESTIMATED
261720	2594T	ANCHORED IN VICINITY OF USS HAVEN (SHIP EVACUATED AT 2120)
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	UNDERWAY TO USS HAVEN
291245	2293A	ALONGSIDE USS HAVEN
291341	2293A	UNDERWAY TO NEW ANCHORAGE
291550	2294C	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 ANCHORAGE
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
331613	2304B	UNDERWAY TO SHIFT BERTHS
331700	2194Q	ANCHORED
331821	2194Q	UNDERWAY TO SHIFT BERTHS
331823	2294M	ANCHORED IN VICINITY OF USS HAVEN
341015	2294M	UNDERWAY FOR DECONTAMINATION RUN
341030	2591M	EXITED BIKINI LAGOON (ESTIMATED TIME)
341300	2591M	RE-ENTERED BIKINI LAGOON
341322	2394A	MOORED ALONGSIDE USS ALLEN SUMMER
341701	2394A	UNDERWAY FOR DECONTAMINATION RUN
341715	2591M	EXITED BIKINI LAGOON
341746	2591M	RE-ENTERED BIKINI LAGOON
341803	2294M	ANCHORED IN VICINITY OF USS HAVEN
352400	2294M	ANCHORED AS BEFORE
411815	2591M	DEPARTED BIKINI LAGOON ON 10 AUGUST 1946 - ENROUTE GUAM VIA KWAJALEIN

USS PGM-25 CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	cu M TOTAL
JUL 1	A+0	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+0	3a	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	B+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	795
AUG 2	B+8	11	0	46	57	852
AUG 3	B+9	0	0	39	39	891
AUG 4	B+10	0	0	34	34	925
AUG 5	B+11	0	0	30	30	955
AUG 6	B+12	3	0	27	30	985
AUG 7	B+13	6	0	25	31	1016
AUG 8	B+14	9	0	22	31	1047
AUG 9	B+15	9	0	20	29	1076
AUG 10	B+16	5	0	19	24	1100

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</u>	<u>TYPE</u>	<u>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: 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)

\*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-29

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE
011150	2591M	ENTERED BIKINI LAGOON
011230	2598C	ESTIMATE POSITION IN AREA ENGLAND
011730	2201L	APPROACHING CENTER OF TARGET ARRAY (TIME ESTIMATED)
011820	2503U	ANCHOREI (POSITION ESTIMATED - ASSUMED NEAR PGM'S 24;25; AND 31)
020725	2503U	UNDERWAY ON RAD SAFE SURVEY (PROBABLY WESTERN REGION OF BIKINI LAGOON)
020800	2599U	POSITION ESTIMATED (SAME LATITUDE AS FINAL ANCHORAGE)
021732	8899U	ANCHOREI
030738	8899U	UNDERWAY TO USS HAVEN
030935	2304B	UNDERWAY TO CARRY OUT RAD SAFE TESTS (PICKED UP RAD SAFE TEAM JUST PRIOR TO THIS TIME)
031240	9512M	ANCHOREI OFF NAMU ISLAND
031532	9512M	DEPARTED FOR BERTH #40
031820	2505X	ANCHOREI IN BERTH #40
040917	2505X	UNDERWAY TAKING WATER SAMPLES (PROBABLY WESTERN REGION OF BIKINI LAGOON)
041616	2505X	ANCHOREI IN BERTH #40
042400	2505X	ANCHOREI AS BEFORE
250835	2591M	OBSERVED SHOT BAKER
251100	2591M	ENTERED BIKINI LAGOON
251130	2501K	IN TARGET AREA (AREA MARK)
251300	2401M	APPROACHING CENTER OF ARRAY
251900	2396C	ANCHOREI IN BERTH #320
252120	2396C	UNDERWAY TO NEW ANCHORAGE
252145	2494M	ANCHOREI CREW EVACUATED TO USS APPLING
260001	2494M	ANCHOREI AS BEFORE
261230	2494M	UNDERWAY TO AREA H-LLAND FOR WATER SAMPLES
261300	1894E	ESTIMATE - WAS ON BASE COURSE 275 DEGREES WHEN IT PROCEEDED TO USS MT MCKINLEY TO PICK UP ADMIRAL BLANDY
261350	25941	IN VICINITY OF USS MT MCKINLEY (PICKED UP ADMIRAL BLANDY)
261415	25941	PROCEEDING AROUND IN VICINITY OF TARGET VESSELS
261445	2200Y	ESTIMATE POSITION - IN AREA "CLEASED" ON 25 JULY
261520	25941	IN VICINITY OF USS MT MCKINLEY - ADMIRAL BLANDY DEPARTED SHIP
261645	2494D	ANCHOREI
270722	2494D	UNDERWAY TO AREA ENGLAND
270858	2200D	ESTIMATE POSITION NEAR RED LINE
271058	2000E	ESTIMATE POSITION AND TIME
271230	2002K	ESTIMATE POSITION IN AREA ARGENTINA
271315	2092M	ANCHOREI IN AREA 92
280720	2403B	UNDERWAY FOR WATER SAMPLES IN BIKINI LAGOON
280900	1399M	ESTIMATE POSITION
281430	1399M	ESTIMATE POSITION

281553 2394M CROSSED BOW OF 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  
 300930 2200W TRANSFERRED "MIKE QUEEN" SET TO PGM-32 (POSITION ESTIMATED)  
 300945 2201L POSITION ESTIMATED - PROBABLY TOOK SAMPLES IN AREA DENMARK  
 301515 2401D OPERATION COMPLETE - PROCEEDING TO USS HAVEN  
 301536 2204N ANCHORED IN BERTH #55 (TOOK 20 MINUTES TO GET HERE)  
 312400 2204N ANCHORED AS BEFORE  
 321330 2204N UNDERWAY  
 321435 2500M MOORED ALONGSIDE USS DIXIE  
 321533 2500M UNDERWAY ON DECONTAMINATION RUN IN LAGOON  
 321641 2204N ANCHORED IN BERTH #55  
 330835 2204N UNDERWAY  
 330900 2098M LYING OFF USE ST CROIX  
 330930 2098M UNDERWAY FOR WATER SAMPLES  
 330945 2201L ESTIMATED POSITION - ASSUMED IN AREA DENMARK  
 331614 2401D 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; WEST-EAST RUN  
 341546 2295R ANCHORED IN BERTH #361  
 352400 2295R ANCHORED AS BEFORE  
 411815 2591M DEPARTED BIKINI LAGOON ON 10 AUGUST 1946 - ENROUTE KWAJALEIN

USS PGM-29 CALCULATED F LM BODGE DOSE N MR<M>

DATE	TIME	LAGOON WATER	T <sub>00</sub> BET S <sub>00</sub> 'S	SHIP CONTAMINATION	DAILY TOTAL	CNF TOTAL
0001	A+0	≡	0		≡	≡
JUL 2	A+1	0	0		0	8
JUL 3	A+2	0	0		0	8
JUL 4	A+3	0	0		0	8
JUL 5 THRU 24		0	0			8
JUL 25	B+0	38	0	100	138	146
JUL 26	B+1	1	0	52	53	199
JUL 27	B+2	12	0	95	107	306
JUL 28	B+3	25	0	143	168	474
JUL 29	B+4	0	0	99	99	573
JUL 30	B+5	11	0	74	85	658
JUL 31	B+6	19	0	64	83	741
AUG 1	B+7	17	0	52	69	810
AUG 2	B+8	11	0	46	57	867
AUG 3	B+9	0	0	39	39	906
AUG 4	B+10	0	0	34	34	940
AUG 5	B+11	0	0	30	30	970
AUG 6	B+12	0	0	27	27	997
AUG 7	B+13	4	0	25	29	1026
AUG 8	B+14	10	0	22	32	1058
AUG 9	B+15	9	0	20	29	1087
AUG 10	B+16	5	0	19	24	1111

## SUPPORT SHIP INFORMATION SUMMARY

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:	<u>TEST</u>	<u>D A T E</u>	<u>( T I M E )</u>	<u>YIELD</u>	<u>TYPE</u>	<u>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: 0.812 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)

\*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 FGM-31

T	E	PLACE	REMARKS
010900	2591M		OBSERVED SHOT ABLE FROM A DISTANCE INEXCESS OF 11.7 MILES
011130	2591M		ENTERED BIKINI LAGOON WITH LCPL'S
011200	2496U		ESTIMATED POSITION IN AREA FRANCE
011900	2201L		APPROACHING CENTER OF ARRAY (ESTIMATE TIME)
011955	2503L		ANCHORED IN BERTH #115
020600	2503L		UNDERWAY ON RAD SAFE SURVEY (PROBABLY WESTERN REGION OF LAGOON)
021350	2405X		ANCHORED IN BERTH #42
021603	2405X		UNDERWAY (PROBABLY LOOKING FOR HOT SPOTS)
021910	2299E		ANCHORED IN BERTH #227
030630	2299E		UNDERWAY TO USS HAVEN
030650	2304B		LYING TO NEAR USS HAVEN
030903	2304B		UNDERWAY FOR WATER SAMPLES (PROBABLY IN WESTERN REGION OF LAGOON)
031328	2695S		MOORED ALONGSIDE USS WILDCAT
031412	2695S		UNDERWAY FOR ANCHORAGE
031430	2695R		ANCHORED IN BERTH #370
040925	2695R		UNDERWAY TO GET WATER SAMPLES (PROBABLY WESTERN REGION OF LAGOON)
041505	2405X		ANCHORED IN BERTH #42
042400	2405X		ANCHORED AS BEFORE
250835	2591M		OBSERVED SHOT BAKER FROM A DISTANCE IN EXCESS OF 10 MILES
251030	2591M		ENTERED BIKINI LAGOON
251130	2499D		ESTIMATED POSITION IN AREA ENGLAND
251300	2300L		ESTIMATED POSITION IN AREA ENGLAND; BT GOT VERY HOT. FINDING A GOOD ROUTE TO THE USS SARATOGA (OPERATIONS REPORT)
251337	2591M		EXITED BIKINI LAGOON TO FLUSH DECKS OF CONTAMINATION
251545	2591M		ENTERED BIKINI LAGOON
251600	2694F		ANCHORED (SHIP EVACUATED AT 1845)
260001	2694F		ANCHORED AS BEFORE
260830	2694F		UNDERWAY FOR WATER SAMPLES IN LAGOON
261720	2694F		ANCHORED (35 MINUTES ENROUTE) (SHIP EVACUATED AT 1752)
270700	2694F		UNDERWAY FOR WATER SAMPLES IN TARGET ARRAY
270800	2200M		ESTIMATED POSITION
271300	2000M		ESTIMATED POSITION
271430	2694L		ANCHORED (30 MINUTES ENROUTE) (SHIP EVACUATED AT 2000)
281614	2694L		UNDERWAY TO NEW ANCHORAGE (CONTAMINATED WATER)
281734	2093U		ANCHORED
282135	2093U		UNDERWAY TO NEW ANCHORAGE
282145	2092F		ANCHORED
290830	2092F		UNDERWAY TO USS HAVEN
290910	2293A		ALONGSIDE USS HAVEN
291055	2293A		UNDERWAY (REMAINED IN VICINITY OF USS HAVEN)



291345	2293A	UNDERWAY FOR SPEED RUNS
291440	2591M	ALONGSIDE LSD (25)
291445	2591M	UNDERWAY FROM LSD (25)
291605	1993V	ANCHORED
300845	1993V	UNDERWAY TO COLLECT WATER SAMPLES IN BIKINI LAGOON
301100	1505M	ESTIMATED
301300	1505M	ESTIMATED
301555	2304B	ANCHORED CLOSE TO USS HAVEN
312400	2304B	ANCHORED AS BEFORE
321400	2304B	UNDERWAY ON DECONTAMINATION RUN
321500	2591M	EXITING BIKINI LAGOON
321625	2591M	ENTERED BIKINI LAGOON
321652	2695R	MOORED ALONGSIDE USS WILDCAT
321730	2695R	UNDERWAY TO ANCHORAGE
321800	2304B	MOORED NEAR USS HAVEN
330900	2304B	UNDERWAY FOR WATER SAMPLES IN BIKINI LAGOON
331400	0000M	(ESTIMATED POSITION) SECURED FROM TAKING WATER SAMPLES IN SOUTHWESTERN REGION OF LAGOON
331420	9493M	EXITING BIKINI LAGOON THROUGH CHERRY PASS (STARTING DE CONTAMINATION RUN)
331655	2591M	ENTERING BIKINI LAGOON
331730	2294M	ANCHORED CLOSE TO USS HAVEN
341116	2294M	UNDERWAY FOR DECONTAMINATION RUNS
341137	2591M	DEPARTED BIKINI LAGOON
341635	2591M	RE-ENTERED BIKINI LAGOON
341650	2294M	ANCHORED CLOSE TO USS HAVEN
352400	2294M	ANCHORED AS BEFORE
411809	2591M	DEPARTED BIKINI LAGOON ON 10 AUGUST 1946 - ENROUTE GUA M VIA KWAJALEIN

USS FGM-31 CALCULATED FILM BADGE DOSE (IN MREM)

DGTE	TIME	LAGOON WATER	TARGET SHIFS	SHIF CONTGMINGTION	DGILY TOTAL	CUM TOTAL
JUL 1	A+0	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	THRU 2 4	0	0			9
JUL 25	B+0	38	0	a9	127	136
JUL 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	52	67	621
GUG 2	B+8	7	0	46	53	674
GUG 3	B+9	0	0	39	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	10	0	22	32	a64
GUG 9	B+15	9	0	20	29	893
GUG 10	B+16	0	0	19	19	912

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</u>	<u>TYPE</u>	<u>DETONATION</u>
	ABLE	1 July 46 (0900)	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-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

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE
011133	2591M	ENTERED BIKINI LAGOON
011225	1998Y	ENTERED AREA GREECE - BEGAN SURVEY
011410	2101E	SURVEY OF AREA GREECE COMPLETE - ENTERED AREA HOLLAND
011630	1700E	ESTIMATED POSITION IN AREA HOLLAND
011755	20010	ANCHORED (PROBABLY IN VICINITY OF USS BARROW)
011915	20010	UNDERWAY BECAUSE OF FIRE ON USS BARROW
011930	2004F	ANCHORED
020815	2004F	UNDERWAY (PROBABLY ON EAST-WEST; WEST-EAST SURVEY)
021422	2304B	ANCHORED 500 YARDS OFF BOW OF USS HAVEN
021922	2497U	ANCHORED NEAR BUDDY #6
030625	2497U	UNDERWAY TO USS HAVEN
030700	2304B	LYING OFF USS HAVEN
030900	2304B	UNDERWAY FOR WATER SAMPLES (SOUTHWESTERN REGION OF LAGOON)
031315	9296M	LYING TO OFF ARAN ISLAND
031330	9296M	UNDERWAY TO BORO ISLAND
031400	8700Y	ARRIVE BORO ISLAND
031545	8700Y	UNDERWAY ON COURSE 83 DEGREES TO USS HAVEN
031810	2304B	ANCHORED NEAR USS HAVEN
040941	2304B	UNDERWAY TO WESTERN END OF LAGOON
041429	2305R	ANCHORED IN BERTH 34-A
042400	2305R	ANCHORED AS BEFORE
050835	2591M	OBSERVED SHOT BAKER FROM A DISTANCE OF 7.1 MILES
050957	2591M	ENTERED BIKINI LAGOON
051130	2299H	ESTIMATED POSITION IN AREA FRANCE
051300	24010	ESTIMATED POSITION
051540	24010	ESTIMATED POSITION
051605	2401Y	SECURED PICTURES OF SINKING SARATOGA
051723	2401Y	UNDERWAY TO USS HAVEN
051735	2594M	ANCHORED IN VICINITY OF USS HAVEN
060001	2594M	ANCHORED AS BEFORE
060941	2594M	UNDERWAY TO COLLECT DATA IN BIKINI LAGOON
061230	2300M	ESTIMATED POSITION
061728	2594Y	ANCHORED IN VICINITY OF USS HAVEN (CREW EVACUATED TO USS APPLING)
070745	2594Y	UNDERWAY TO COLLECT DATA NEAR TARGET AREA
071100	2200M	ESTIMATED
071602	2694U	ANCHORED NEAR USS HAVEN
081609	2694U	UNDERWAY TO NEW ANCHORAGE (CONTAMINATED WATER)
081640	2092M	ANCHORED IN VICINITY OF USS APPLING
090300	2092M	UNDERWAY TO COLLECT DATA IN BIKINI LAGOON
091200	2200M	ESTIMATED
091642	2293A	ANCHORED IN VICINITY OF USS HAVEN
090747	2293A	UNDERWAY TO COLLECT DATA IN TARGET ARRAY
090930	2200M	RECEIVED "MIKE QUEEN" SET FROM PGM-29

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 2205I ANCHORED IN BERTH #20  
 331621 2205I 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 (INFERRED FROM DECKLOG)  
 341500 9994M ESTIMATED TIME AND POSITION - APPARENTLY AN EAST-WEST; WEST-EAST HIGH SPEED RUN  
 341653 2294C ANCHORED  
 352400 2294C ANCHORED AS BEFORE  
 411801 2591M DEPARTED BIKINI LAGOON ON 10 AUGUST 1946 - ENROUTE KWAJALEIN

USS PGM-32 CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	A t0	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 THRU 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
JUL 30	B+5	13	0	66	79	631
JUL 31	B+6	18	0	64	82	713
AUG 1	B+7	14	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

## SUPPORT SHIP INFORMATION SUMMARY

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 M E )	<u>M I L D</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: 0.331 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 ABOUT 155 MILES SOUTHEAST OF BIKINI ATOLL
030650	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 18 IS THE SUM TOTAL OF ALL FREE FIELD TARGET SHIP DOSES RECEIVED BY THIS SHIP FOR THE PERIOD 5 JULY THROUGH 24 JULY
051307	2503L	UNDERWAY
051400	2101E	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.) 101 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 THE 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	2502A	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 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	THEU 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	0	0	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	23
JUL 31	B+6	14	0	22	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	6	13	237
AUG 12	B+18	6	0	6	12	249
AUG 13	B+19	6	0	5	11	260
AUG 14	B+20	5	0	5	10	270
AUG 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
AUG 19	B+25	3	0	4	7	310
AUG 20	B+26	3	0	3	6	316
AUG 21	B+27	3	0	3	6	322
AUG 22	B+28	2	0	3	5	327
AUG 23	B+29	1	0	3	4	331

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.117 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	OBSERVED SHOT ABLE WHILE STEAMING IN AREA PACKARD
011800	2591M	ENTERED BIKINI LAGOON
011825	2697G	ANCHORED IN BERTH #287
021043	2697G	UNDERWAY TO SHIFT BERTHS
021124	2402H	ANCHORED IN BERTH 131A
042400	2402H	ANCHORED AS BEFORE
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
201200	9999A	ALONGSIDE LET-1137 FOR 1 HR 43 MIN
211200	9999A	ALONGSIDE LCT-1187 FOR 22 HOURS
221200	9999A	CONCLUDING TIME ALONGSIDE LCT-1187
250835	2591M	OBSERVED SHOT BAKER - BEARING 295 DEGREES; DISTANCE 11 MILES (PROCEEDING TO KWAJALEIN)
360654	2591M	ENTERED BIKINI LAGOON
360740	2594M	ANCHORED IN BERTH Q
501445	2400J	UNDERWAY TO KWAJALEIN
501500	2591M	DEPARTED BIKINI LAGOON ON 19 AUGUST 1946

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

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	A+4	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
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
JUL 30	B+5	0	0	0	0	2
JUL 31	B+6	0	0	0	0	2
AUG 1	B+7	0	0	0	0	2
AUG 2	B+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
AUG 10	B+16	8	0	4	12	50
AUG 11	B+17	7	0	4	11	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	6	108
AUG 18	B+24	3	0	2	5	113
AUG 19	B+25	2	0	2	4	117

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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: 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

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE FROM A DISTANCE OF APPROXIMATELY 12 MILES
011254	2591M	ENTERED BIKINI LAGOON
011340	2795K	ANCHORED IN BERTH "C"
020710	2795K	UNDERWAY
020730	2201D	LYING TO NORTHEAST OF TARGET ARRAY
020806	2201D	BOARDING TEAM LEFT BY BOAT FOR LCT-816 AND LCT-818
020840	2201D	BOARDING TEAM RETURNED TO SHIP
020907	2201D	PROCEEDING TO YOG-83
020918	2200B	ALONGSIDE YOG-83
020921	2200B	BOARDING TEAM ABOARD YOG-83
020945	2200B	BOARDING TEAM RETURNED TO SHIP
020948	2200B	LEAVING YOG-83
021005	2201B	ALONGSIDE BRULE
021006	2201B	BOARDING TEAM BOARDED USS BRULE
021035	2201B	TEAM RETURNED TO SHIP
021042	2201B	LEAVING BRULE
021055	2201Q	LAY TO OFF USS HUGHES
021059	2201Q	BOARDING TEAM LEAVES BY BOAT FOR USS HUGHES
021145	2201Q	TEAM RETURNED TO SHIP
021153	2201Q	UNDERWAY FOR USS NEVADA
021216	2201P	ALONGSIDE NEVADA
021220	2201P	TEAM BOARDED NEVADA
021245	2201P	TEAM RETURNED TO SHIP
021256	2201P	LEAVING NEVADA
021306	2201P	LEAVE VICINITY OF USS NEVADA
021340	2403B	LAY TO OFF USS WHARTON
021403	2403B	UNDERWAY
021433	2795K	ANCHORED IN BERTH "C"
022358	2795K	PASSING SUMMARY 14
022359	2795K	SUMMARY IS A FICTITIOUS SHIP USED TO RECORD THE DOSE RECEIVED BY PRESERVER WHILE ALONGSIDE TARGET SHIPS AFTER SHOT ABLE
030836	2795K	UNDERWAY
030935	2202V	COMMENCE SALVAGE OPERATIONS OF INSTRUMENTS AND DEVICES
031225	2202V	PROCEED TO MAGATO
031240	2202V	RESUME SALVAGE OPERATIONS
031625	2202V	COMPLETE SALVAGE OPERATIONS
031635	2204T	LAYING TO OFF USS KENNETH WHITING
031731	2204T	PROCEEDING TO ANCHORAGE
031751	1903I	ANCHORED IN BERTH #5
042400	1903I	ANCHORED AS BEFORE
051200	9999A	PASSING SUMMARY 5 PLUS 4
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

060643 9999A AT 0643 UNDERWAY TO TOW BRULE  
 060746 9999A AT 0746 MOORED ALONG PORT QUARTER OF USS BRULE  
 060806 9999A AT 0806 UNDERWAY WITH USS BRULE IN TOW ALONGSIDE -- USS  
 BRULE ANCHORED IN BERTH AT 0915  
 061515 9999A UNDERWAY TO ASSIST IN MOVING NAGATO -- AT 1810 PROCEED  
 ED TO ASSIGNED ANCHORAGE  
 081620 9999A UNDERWAY AT 1620 TO TOW YOG-83 -- NEW BERTH -- YOG-83  
 ANCHORED AT 1900  
 091629 9999A MOORED ALONGSIDE USS ARKANSAS FROM 1625 TO 1641  
 LYING TO ALONGSIDE YO-160 TO CONDUCT INVESTIGATION  
 101150 9999A BEGINNING AT 0800 PERFORMED SALVAGE OPERATIONS ON YO-1  
 120800 9999A 60 FOR APPROXIMATELY 4 HRS 30 MIN  
 121605 9999A AT 1605 ATTEMPTED UNSUCCESSFULLY TO TOW YO-160 FROM CO  
 RAL REEF  
 130800 9999A BEGINNING AT 0800 CONDUCTED SALVAGE OPERATIONS ON YO-  
 60 FOR APPROXIMATELY 4 HRS 30 MIN  
 131325 9999A TOWING YO-160 FROM 1325 TO 1432  
 141200 9999A CONDUCTED SALVAGE OPERATIONS ON YO-160 FOR APPROXIMATE  
 LY 3 HOURS  
 151418 9999A AT 1418 TOWED YO-160 TO BERTH -- UNDERWAY AT 1625 TO A  
 SSIST IN MOVING NAGATO  
 200708 9999A AT 0708 MOORED ALONGSIDE YO-160  
 200720 9999A AT 0720 UNDERWAY WITH YO-160 IN TOW -- ANCHORED YO-160  
 AT 0820 -- UNDERWAY FROM ALONGSIDE YO-160 AT 1043  
 211134 9999A MOORED ALONGSIDE USS TRIPPE AT 1134 -- UNDERWAY WITH U  
 SS TRIPPE IN TOW AT 1204 -- USS TRIPPE ANCHORED AT 144  
 8  
 231224 9999A AT 1224 ALONGSIDE NAGATO FOR APPROXIMATELY 1 HOUR  
 250835 2591M OBSERVED SHOT BAKER BEARING 315 DEGREES; DISTANCE 12 M  
 ILES  
 251101 2591M ENTERED BIKINI LAGOON  
 251128 2795K ANCHORED BERTH "C"  
 251142 2795K UNDERWAY  
 251208 2298G ALONGSIDE NIAGARA  
 251221 2298G LEAVING NIAGARA  
 251257 1898C ALONGSIDE LCT-1115  
 251305 1898C LEAVING LCT-1115  
 251356 2795C ANCHORED IN BERTH "C"  
 260001 2795C ANCHORED AS BEFORE  
 261424 2795C UNDERWAY -- MAKE RADIOLOGICAL SURVEY OF WATER IN AREA  
 OF TARGET VESSELS  
 261600 2100K SOVEYNG WATERS  
 261725 21011 PROCEED TO USS FALLON  
 261750 21011 TOW WIRE SECURED TO ANCHOR CHAIN FOR TOWING  
 261830 21011 CAST OFF TOW WIRE DUE TO RADIATION FROM USS FALLON  
 261914 2695D ANCHOR IN BERTH 344  
 270805 2695D UNDERWAY  
 270843 2301M LAY TO NEAR BERTH 15  
 271010 2301M PROCEED TO USS FALLON  
 271045 21011 MANUEVER TO SECURE TOW CABLE

271144	21011	PROCEED TO BEACH AREA WITH USS FALLON IN TOW ASTERN
271359	2894H	CUT TOW TO USS FALLON (NEAR USS HUGHES)
271423	2894H	PROCEED TO USS RECLAIMER
271435	2693B	MOORED TO USS RECLAIMER
271447	2693B	UNDERWAY
271453	2794H	ANCHORED WEST OF BEACHING AREA NEAR USS FALLON ("A" 165 DEG "B" 11 DEG POLE 78 DEG)
271515	2794H	BOARDING TEAM DISEMBARKED FOR USS WHARTON
281348	2794H	UNDERWAY
281406	2394A	LAY TO NEAR USS APPALACHIAN
281530	2394A	PROCEEDING TO TARGET ARRAY
291547	2300H	LAYING TO IN TARGET AREA
281710	1994T	ANCHORED 675 YARDS SOUTH OF BERTH #379
290910	1994T	UNDERWAY TO USS FALLON TO TAKE GEIGER COUNTER READINGS
291005	2894H	MOORED ALONGSIDE USS CHICKASAW
291814	2894H	UNDERWAY
291847	1993C	ANCHORED - "A" 98 "C" 42 "E" 20
300811	1993C	UNDERWAY
300850	2200B	WASH DOWN USS GASCONADE
301015	2200B	ALONGSIDE GASCONADE1
301048	2200B	LEAVING GASCONADE1
301115	2792B	ANCHORED OFF ENYU ISLAND - "A" 107.5 DEG "B" 8 DEG POLE 77 DEG
301430	2792B	UNDERWAY
301450	2894H	PULL STERN OF USS DENTUDA FROM STEM OF USS HUGHES
301708	2894H	UNDERWAY FROM USS DENTUDA
301730	2795K	ANCHORED IN BERTH "C"
310755	2795K	UNDERWAY
310907	1802D	WASHING DOWN USS CONYNGHAM
311010	1802D	ALONGSIDE CONYNGHAM1
311041	1802D	LEAVING CONYNGHAM1
311100	18000	ALONGSIDE CARTERET1
311137	18000	LEAVING CARTERET1
311255	18000	COMPLETED SPRAYING; PROCEED TO LCT-705
311305	1700E	ALONGSIDE LCT-705
311327	1700E	LEAVING LCT-705
311340	1700E	COMPLETED SPRAYING; DEPART FOR LCT-1013
311358	1701E	COMMENCE SPRAYING LCT-1013
311405	1701E	COMPLETED SPRAYING LCT-1013
311407	1701E	UNDERWAY FOR USS PALMYRA
311525	2794K	MOORED TO USS DELIVER
311700	2794K	UNDERWAY TO ANCHORAGE
311726	2795K	ANCHOR IN SPECIAL BERTH "C"
320742	2795K	UNDERWAY FOR TARGET AREA
320810	18000	WASH DOWN USS CARTERET
321014	18000	ALONGSIDE CARTERET1
321027	18000	LEAVING CARTERET1
321030	18000	LAYING TO NEAR CARTERET
321100	18000	UNDERWAY FOR USS RECLAIMER
321125	2402W	MOORED TO USS RECLAIMER



321335	2402W	UNDERWAY FROM USS RECLAIMER
321415	2101Q	LAYING TO NEAR USS PENSACOLA
321425	2101Q	PARTY IN LCVP BOARDED PENSACOLA AND FOUND IT RADIOLOGI
		CALLY UNSAFE FOR BOARDING
321440	2101Q	COMMENCE WASHING DOWN USS PENSACOLA
321522	2101Q	SECURED FROM WASHING DOWN DUE TO TIME LIMIT FOR RADIAT
		ION EXPOSURE
321530	2101Q	LAYING TO NEAR USS PENSACOLA
321545	2101Q	ALONGSIDE PENSACOLA
321550	2101Q	BOARDING PARTY ON BOARD
321620	2101Q	LEAVING PENSACOLA
321700	2402Y	PROCEEDING TO ANCHORAGE EAST OF BERTH 145('C" 92 DEG
		"D" 27 DEG "E" 352 DEG)
330758	2402Y	UNDERWAY
330807	2501Q	MOVED TO USS QUARTZ
330923	2501Q	UNDERWAY FROM USS QUARTZ
330952	2795K	ANCHORED IN BERTH "C"
331452	2795K	UNDERWAY TO SHIFT BERTHS
331534	1993Q	ANCHORED IN SPECIAL BERTH 675 YARDS SOUTH OF BERTH #37
		9
340733	1993Q	UNDERWAY FOR USS NEW YORK
340816	2201Y	COMMENCE WASHING DOWN USS NEW YORK
341110	2201Y	ALONGSIDE NEW YORK2
341137	2201Y	LEAVING NEW YORK2
341215	1993Q	ANCHOR SOUTH OF BERTH 379 ("A" 98 DEG "B" 98 DEG "C" 20-15)
352400	1993Q	ANCHORED AS BEFORE
370848	2894H	ALONGSIDE DENTUDA1
370947	2894H	LEAVING DENTUDA1
390910	2200U	ALONGSIDE PENNSYLVANIA
391625	2200U	LEAVING PENNSYLVANIA
400815	2202K	ALONGSIDE NEVADA1
401610	2202K	LEAVING NEVADA1
501215	2202K	ALONGSIDE NEVADA2
501415	2202K	LEAVING NEVADA2
501704	2591M	DEPARTED BIKINI LAGOON WITH USS NEVADA IN TOW "NR20T
		E KWAJALEIN
540831	2591M	RE-ENTERED BIKINI LAGOON
551203	2591M	EXITED BIKINI LAGOON WITH USS PENSACOLA IN TOW - ENROU
		TE KWAJALEIN
570855	2591M	ALONGSIDE PENSACOLA
570918	2591M	LEAVING PENSACOLA
580716	2591M	RE-ENTERED BIKINI LAGOON
590845	2104E	ALONGSIDE LST-220
591029	2104E	LEAVING LST-220
591252	2591M	DEPARTED BIKINI LAGOON WITH LST-220 IN TOW ON 28 AUGUS
		T 1946 - ENROUTE PEARL HARBOR VIA KWAJALEIN

SS PRESERVER CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	A+0	0	0	6	11	28
JUL 2	A+1	4	10	40	61	89
JUL 3	A+2	0	0	80	104	193
JUL 4	A+3	0	0	58	60	253
JUL 5 THRU 24		0	3	39	40	293
JUL 25	B+0	5	0	30	149	442
JUL 26	B+1	21	0	25	35	477
JUL 27	B+2	24	0	21	64	541
JUL 28	B+3	2	0	18	24	565
JUL 29	B+4	1	0	16	19	584
JUL 30	B+5	1	118	14	14	598
JUL 31	B+6	4	6	12	12	610
AUG 1	B+7	11	32	11	12	622
AUG 2	B+8	6	0	10	16	638
AUG 3	B+9	2	1	9	782	
AUG 4	B+10	0	0	8	970	
AUG 5	B+11	0	0	15	985	
AUG 6	B+12	1	0	14	999	
AUG 7	B+13	6	0	13	1012	
AUG 8	B+14	10	125	7	1024	
AUG 9	B+15	9	171	11	1035	
AUG 10	B+16	7	0	10	1045	
AUG 11	B+17	7	0	9	1054	
AUG 12	B+18	6	0	9	1063	
AUG 13	B+19	6	0	7	1070	
AUG 14	B+20	5	0	4	1083	
AUG 15	B+21	5	0	4	1087	
AUG 16	B+22	4	0	4	1091	
AUG 17	B+23	4	0	4	1095	
AUG 18	B+24	3	0	4	1100	
AUG 19	B+25	2	7	4	1104	
AUG 20	B+26	0	0	3	1107	
AUG 21	B+27	0	0	3	1113	
AUG 22	B+28	0	0	3	1117	
AUG 23	B+29	1	0	3	1122	
AUG 24	B+30	1	0	3		
AUG 25	B+31	0	0	3		
AUG 26	B+32	0	3	4		
AUG 27	B+33	1	0	4		
AUG 28	B+34	0	2	5		

## SUPPORT SHIP INFORMATION SUMMARY

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 DATA:	<u>TEST</u>	<u>D A T E</u>	( <u>T I M E</u> )	<u>TYPE</u>	<u>DETONATION</u>
	ABLE	1 July 46	(0900)	23 KT	Air <b>Burst</b> (+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: 0.280 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	OBSERVED SHOT ABLE FROM APPROXIMATELY 30 MILES NORTH OF BIKINI LAGOON
011910	2591M	ENTERED BIKINI LAGOON
011921	2497E	PASSED BUDY #4 ABEAM TO STARBOARD
011940	2595T	ANCHORED IN BERTH 369
031212	2595T	UNDERWAY TO SHIFT BERTHS
031258	2604Q	ANCHORED IN BERTH 95
042400	2604Q	ANCHORED AS BEFORE
250655	2591M	ENROUTE FROM BIKINI TO RONGELAP DURING SHOT BAKER
301825	2591M	ENTERED BIKINI LAGOON AFTER SHOT BAKER
301900	2394S	ANCHORED IN BERTH 385
310827	2394S	UNDERWAY TO SHIFT BERTHS
310925	2604Q	ANCHORED IN BERTH 95
331550	2604Q	UNDERWAY TO NEW ANCHORAGE
371655	2693S	ANCHORED EAST OF BERTH TARE
380828	2693S	UNDERWAY
380927	2604Q	ANCHORED IN BERTH 95
430911	2604Q	UNDERWAY TO BERTH 116
430913	2503Q	ANCHORED IN BERTH 116
451115	2503Q	UNDERWAY
451126	2604Q	ANCHORED IN BERTH 95
501640	2604Q	UNDERWAY
501730	2591M	DEPARTED BIKINI LAGOON ENROUTE KWAJALEIN 19 AUGUST 194

USS PRESQUE ISLE CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	cut1 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 THRU 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	8	0	13	21	21
AUG 1	B+7	14	0	18	32	53
AUG 2	B+8	9	0	16	25	78
AUG 3	B+9	0	0	13	13	91
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	9	0	7	16	181
AUG 10	B+16	8	0	6	14	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

## SUPPORT SHIP INFORMATION SUMMARY

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:	<u>TEST</u>	<u>DATE (TIME)</u>	<u>YIELD</u>	<u>TYPE</u>	<u>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: 0.235 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	ANCHORED IN KWAJALEIN FOE SHOT ABLE
041830	2591M	ENTERED BIKINI LAGOON
041925	2304U	ANCHORED 2 MILES OFF BIKINI ISLAND
250835	2591M	ANCHORED IN BERTH 22 AT RONGELAP ATOLL DURING BAKER SH OT
310900	2591M	ENTERED BIKINI LAGOON
310935	2501Q	ANCHORED IN BERTH #168
340815	2501Q	UNDERWAY TO SHIFT BERTHS
340945	2594Q	ANCHORED EAST OF BERTH ROGER
381310	2594Q	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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WIS CAPT1 CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	B+0	0	0		0	0
JUL 2	B+1	0	0		0	0
JUL 3	B+2	0	0		0	0
JUL 4	B+3	0	0		0	0
JUL 5	TRFD 24	0	0			0
JUL 15	B+0	0	0	0	0	0
JUL 16	B+1	0	0	0	0	0
JUL 17	B+2	0	0	0	0	0
JUL 18	B+3	0	0	0	0	0
JUL 19	B+4	0	0	0	0	0
JUL 20	B+5	0	0	0	0	0
JUL 21	B+6	0	0	7	17	17
AUG 1	B+7	14	0	12	26	43
AUG 2	B+8	14	0	10	24	67
AUG 3	B+9	5	0	0	14	81
AUG 4	B+10	0	0	8	9	89
AUG 5	B+11	0	0	0	0	96
AUG 6	B+12	0	0	6	6	102
AUG 7	B+13	4	0	6	10	112
AUG 8	B+14	10	0	5	15	127
AUG 9	B+15	9	0	5	14	141
AUG 10	B+16	5	0	4	10	151
AUG 11	B+17	0	0	4	11	164
AUG 12	B+18	6	0	4	10	174
AUG 13	B+19	5	0	5	0	180
AUG 14	B+20	5	0	5	5	181
AUG 15	B+21	5	0	3	0	199
AUG 16	B+22	4	0			206
AUG 17	B+23	4	0			213
AUG 18	B+24	5	0			219
AUG 19	B+25	1	0	4	5	224
AUG 20	B+26	1	0			219
AUG 21	B+27	1	0	0	4	233
AUG 22	B+28	0	0	2		235



## SUPPORT SHIP INFORMATION SUMMARY

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 DATA:	<u>TEST</u>	<u>DATE (TIME)</u>	<u>YIELD</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: 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

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE FROM APPROXIMATELY 27 MILES
011219	2592M	ENTERED BIKINI LAGOON
011300	2592M	PROCEEDING TO VICINITY OF USS SARATOGA
011325	2399A	PASSING SARATOGA 0
011524	2399A	LEAVING USS SARATOGA
011525	2200U	PASSING PENNSYLVANIA 0
011600	2200U	LEAVING USS PENNSYLVANIA
011601	2301U	PASSING NEW YORK 0
011625	2301U	LEAVING USS NEW YORK
011733	2201P	PASSING NEVADA 0
011742	2201P	LEAVING USS NEVADA
011759	2001R	NEAR USS DAWSON
011812	1800W	NEAR USS COURTLAND
011820	2002V	NEAR PRINZ EUGEN
011828	2000J	MANEUVERING AS BEFORE
011839	2400J	ANCHORED IN VICINITY OF BERTH 190
020800	2400J	UNDERWAY
021101	2201P	PASSING NEVADA 0
021135	2201P	SECURED FROM FIGHTING FIRE ON USS NEVADA
021305	2102S	PASSING LANSON 0
021620	2101S	NEAR SKATE
021733	2101X	PASSING INDEPENDENCE 0
021757	2101X	PROCEEDING AWAY FROM USS INDEPENDENCE
021848	2404C	ANCHORED IN BERTH #42
030757	2404C	UNDERWAY
031000	2100S	PASSING ARDC-13 0
031030	2100G	PROCEEDING TO USS NEVADA
031041	2201P	ALONGSIDE NEVADA
031210	2201P	LEAVING NEVADA
031220	2101E	ALONGSIDE ARKANSAS
031310	2101E	LEAVING ARKANSAS
031435	2795K	N SALVAGE UNIT ANCHORAGE AREA
031500	2101D	ALONGSIDE YO-160
031505	2101D	LEAVING YO-160
031530	2001I	ALONGSIDE CRITTENDEN
031556	2001I	LEAVING CRITTENDEN
031645	2795K	ANCHORED IN BERTH "BAKER"
031700	2795K	PASSING SUMMARY 12
042400	2795K	ANCHORED IN BERTH "BAKER" AS BEFORE
250835	2591M	OBSERVED SHOT BAKER FROM A DISTANCE IN EXCESS OF 14 MI
LES		
251100	2592M	ENTERED BIKINI LAGOON
251250	2493M	APPROACHING TARGET ARRAY
251330	2297M	ESTIMATED POSITION
251405	2299A	ESTIMATED POINT OF CROSSING RE 0 L NE
251530	2001N	ESTIMATED POSITION

251545	2000J	ESTIMATED POSITION
251555	2000X	ESTIMATED POSITION
251605	2100L	ESTIMATED POSITION
251737	2595M	ANCHORED IN BERTH #368
251900	2595M	PASSING PARCHE 2
260001	2595M	ANCHORED AS BEFORE
261425	2595M	UNDERWAY
261450	2200G	PASSING GASCONADE 15
261500	2201N	ALONGSIDE HUGHES
261518	2201N	LEAVING HUGHES
261640	2793M	ALONGSIDE HUGHES
261648	2793M	LEAVING HUGHES
261740	2793M	ALONGSIDE -06-ES
261749	2793M	LEAVING HUGHES
261805	2101M	IN VICINITY OF USS FALLON
261815	2101M	LEAVING VICINITY OF USS FALLON
261822	2100I	SUB AREA
261854	2695M	ANCHORED IN BERTH #370
270815	2695M	UNDERWAY
270844	2201E	PASSING SALT LAKE CITY 3
270855	2101I	PASSING FALLON 6
270935	2200Q	PASSING PENNSYLVANIA 9
270940	2200X	PASSING BRACKEN 9
270946	2200S	PASSING CATRON 6
271025	2595M	ANCHORED NEAR BERTH #368
271200	2595M	UNDERWAY
271210	2793M	PASSING HUGHES 0
271220	2693M	ANCHORED NEAR ENVU ISLAND - "A" 128.5 DEG "B" 27 DEG
271540	2693M	UNDERWAY
271608	2200Q	PASSING PENNSYLVANIA 12
271610	2200G	PASSING GASCONADE 3
271616	2201Y	PASSING NEW YORK 4
271630	2202V	PASSING NAGATO 4
271631	2202K	PASSING NEVADA 6
271637	2100I	SUB AREA
271655	2000D	PASSING INDEPENDENCE 4
271733	2695M	ANCHORED NEAR BERTH #370
271900	2695M	PASSING LST-133 3
271901	2695M	PASSING PARCHE 0
271902	2695M	PASSING RALPH TALBOT 1
271903	2695M	PASSING MUSTIN 3
280821	2695M	UNDERWAY FROM BERTH #370
280835	2100U	NEAR SUBMARINES IN TARGET ARRAY
280845	2199F	NEAR USS TUNA
280852	2200P	PASSING PENNSYLVANIA 4
280900	2200H	PASSING BRSCOE 4
280903	2201S	PASSING NEW YORK 4
280923	21010	PASSING PENSACOLA 4
280937	2201I	PASSING LST-133 0
280940	2301A	PASSING SALT LAKE CITY 4

280945	22020	PASSING	NAGATO 4
280950	22020	PASSING	NEVADA 4
281000	19030	NEAR LCT-1114	
281009	21051	NEAR LST-545	
281017	2104E	PASSING	LST-220 4
281030	22028	PASSING	LST-52 9
281050	21000	PROCEEDING TO SUB AREA	
281219	2201Y	PASSING	NEW YORK 5
281230	2200M	MANEUVERING AS BEFORE	
281245	2695M	ANCHORED IN BERTH #370	
281543	2695M	UNDERWAY	
281555	2795M	STANDING BY BEACHING OF USS DENTUDA IN BEACHING AREA J	
		FF ENYU ISLAND	
281630	2200M	PROCEEDING TOWARD USS BRISCOE	
281637	2200H	PASSING	BRISCOE 4
281652	22020	PASSING	NAGATO 4
281655	2002M	PASSING	NEVADA 4
281810	21000	IN SUBMARINE AREA	
281825	20945	ANCHORED IN BERTH #380	
281900	20945	PASSING	LST 60 2
281901	20945	PASSING	Y06-83 1
281902	2095E	PASSING	CONYNGHAM 1
281903	20945	PASSING	MUGFORD 1
281904	20945	PASSING	RALPH TALBOT 3
281905	20945	PASSING	MAYRANT 3
281906	20945	PASSING	TRIPE 1
281907	20945	PASSING	RHIND 2
281908	20945	PASSING	STACK 5
281909	20945	PASSING	WILSON 3
281910	20945	PASSING	MUSTIN 1
281911	20945	PASSING	WAINWRIGHT 1
280855	20945	UNDERWAY FROM BERTH #380	
280920	22000	PASSING	PENNSYLVANIA 4
280935	2201U	PASSING	SARATOGA 4
280939	22006	PASSING	GASCONADE 9
280943	22005	PASSING	CATRON 4
280952	2200H	PASSING	BRISCOE 9
281009	2201E	PASSING	SALT LAKE CITY 5
281015	2202V	PASSING	NAGATO 6
281020	2202K	PASSING	NEVADA 4
281032	21016	PASSING	BRULE 9
281039	21010	PASSING	PENSACOLA 9
281058	2201Y	ALONGSIDE	NEW YORK
281105	2201Y	LEAVING	NEW YORK
281120	22985	ANCHORED IN BERTH #282	
281429	22935	UNDERWAY	
281504	2793M	OFF ENYU ISLAND	
281605	2793M	OFF ENYU ISLAND	
281634	2201Y	ALONGSIDE	NEW YORK1
281639	2201Y	LEAVING	NEW YORK1

291648	2201E	PASSING	SALT LAKE CITY 4	
291651	2202V	PASSING	NABATO 6	
291653	2202K	PASSING	NEVADA 12	
291715	2101Q	PASSING	PENSACOLA 9	
291740	2094E	ANCHORED	IN VICINITY OF BERTH #380	
291900	2094S	PASSING	YOG-83 8	
301040	2094S	UNDERWAY	FROM BERTH #380	
301100	2201M	IN TARGET	ARRAY	
301140	2201M	LEAVING	TARGET ARRAY	
301157	2694M	ANCHORED	OFF ENYU ISLAND - "A" 151 DEG "B" 21 DEG	
301200	2694M	PASSING	MAYRANT 4	
301201	2694M	PASSING	TRIPPE 3	
301202	2694M	PASSING	RHIND 3	
301204	2694M	PASSING	WILSON 3	
301430	2694M	UNDERWAY	FROM ANCHORAGE	
301535	2201V	ALONGSIDE	NEW YORK1	
301545	2201V	LEAVING	NEW YORK1	
301600	2101Q	ALONGSIDE	PENSACOLA	
301605	2101Q	LEAVING	PENSACOLA	
301718	2101Q	ALONGSIDE	PENSACOLA	
301725	2101Q	LEAVING	PENSACOLA	
301825	2694M	ANCHORED	OFF ENYU ISLAND - "A" 166 DEG "B" 18 DEG	
310802	2694M	UNDERWAY	FROM ANCHORAGE NEAR BERTH #370	
310830	2201M	INSPECTING	TARGET ARRAY	
311100	2201M	UNDERWAY	TO ANCHORAGE	
311110	2402W	ANCHORED	IN BERTH #145	
311345	2402W	UNDERWAY		
311400	2201M	UNDERWAY	AS BEFORE	
311425	2201E	PASSING	SALT LAKE CITY 4	
311505	1802D	ALONGSIDE	CONYNGHAM1	
311539	1802D	LEAVING	CONYNGHAM1	
311551	1902C	ALONGSIDE	WAINWRIGHT1	
311615	1902C	LEAVING	WAINWRIGHT1	
311621	1902E	ALONGSIDE	MUGFORD1	
311635	1902E	LEAVING	MUGFORD1	
311705	2402W	ANCHORED	IN VICINITY OF BERTH #145	
330835	2402W	UNDERWAY	FROM VICINITY OF BERTH #145	
331002	2101Q	ALONGSIDE	PENSACOLA	
331028	2101Q	LEAVING	PENSACOLA	
331030	2301A	LAYING TO	IN VICINITY OF USS SALT LAKE CITY IN BERTH #	
		188		
331414	2301A	PROCEEDING	TO USS PENSACOLA	
331415	2101Q	ALONGSIDE	PENSACOLA	
331528	2101Q	LEAVING	PENSACOLA	
331537	2100B	ANCHORED	IN VICINITY OF BERTH #219	
331745	2100B	UNDERWAY		
331805	2101Q	ALONGSIDE	PENSACOLA	
331810	2101Q	LEAVING	PENSACOLA	
331830	2195P	ANCHORED	IN VICINITY OF BERTH #356 - "D" 14 DEG "C" 3	
		9 DEG "B" 71.5 DEG		

341500 2195P UNDERWAY FROM ANCHORAGE  
 341623 2000E ANCHORED IN BERTH #219  
 341829 2000E UNDERWAY PROCEEDING TO ANCHORAGE IN VICINITY OF USS FA  
 LL RIVER  
 341850 2194B ANCHORED IN BERTH #357  
 352400 2194B ANCHORED AS BEFORE  
 361425 21010 ALONGSIDE PENSACOLA  
 361518 21010 LEAVING PENSACOLA  
 370932 21010 ALONGSIDE PENSACOLA  
 370937 21010 LEAVING PENSACOLA  
 371375 21010 ALONGSIDE PENSACOLA  
 371410 21010 LEAVING PENSACOLA  
 381415 21010 ALONGSIDE PENSACOLA  
 381548 21010 LEAVING PENSACOLA  
 391509 21010 ALONGSIDE PENSACOLA  
 391610 21010 LEAVING PENSACOLA  
 400956 2102S ALONGSIDE MAYRANT2  
 400946 2102S LEAVING MAYRANT2  
 411025 21010 ALONGSIDE PENSACOLA  
 411126 21010 LEAVING PENSACOLA  
 441630 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 2200Q ALONGSIDE PENNSYLVANIA  
 501622 2200Q LEAVING PENNSYLVANIA  
 510851 2200Q ALONGSIDE PENNSYLVANIA  
 511745 2200Q LEAVING PENNSYLVANIA  
 520820 2201Y ALONGSIDE NEW YORK2  
 521238 2201Y LEAVING NEW YORK2  
 521345 2200Q ALONGSIDE PENNSYLVANIA  
 521412 2200Q LEAVING PENNSYLVANIA  
 531435 2102S ALONGSIDE MAYRANT2  
 531505 2102S LEAVING MAYRANT2  
 571042 2591M ALONGSIDE CRITTENDEN  
 571335 2591M LEAVING CRITTENDEN  
 581247 2101M ALONGSIDE FALLON  
 581415 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 LAGOON ON 1 SEPTEMBER 1946 - ENROUTE K  
 WAJALEIN

USS RECLAIMER CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	A+0	15	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 THRU 24		0	0			29
JUL 25	B+0	29	1	45	75	104
JUL 26	B+1	9	127	42	178	282
JUL 27	B+2	11	51	60	122	404
JUL 28	B+3	18	57	59	134	538
JUL 29	B+4	5	84	40	129	667
JUL 30	B+5	3	32	31	66	733
JUL 31	B+6	11	50	26	87	820
AUG 1	B+7	16	0	21	37	857
AUG 2	B+8	14	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	B+14	10	23	9	42	1168
AUG 9	B+15	9	15	8	32	1200
AUG 10	B+16	8	20	8	36	1236
AUG 11	B+17	7	0	7	14	1250
AUG 12	B+18	6	0	7	13	1263
AUG 13	B+19	6	1	6	13	1276
AUG 14	B+20	5	0	6	11	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 19	B+25	7	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	1532
AUG 24	B+30	0	0	3	3	1535
AUG 25	B+31	0	0	3	3	1538
AUG 26	B+32	0	10	3	13	1551
AUG 27	B+33	0	39	3	42	1593
AUG 28	B+34	1	0	3	4	1597
AUG 29	B+35	1	0	3	4	1601
AUG 30	B+36	1	58	3	62	1663
AUG 31	B+37	1	0	3	4	1667
SEP 1	B+38	0	10	2	12	1679

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</u>	<u>TYPE</u>	<u>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: 0.474 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	REMARKS
050724	2591M	ENTERED BIKINI LAGOON FOR THE FIRST TIME AFTER SHOT AB LE
051050	2502R	ANCHORED IN BERTH #147 AFTER REFUELING FROM USS CHIKAS KIA
260935	2591M	ENTERED BIKINI LAGOON AFTER SHOT BAKER
260954	2696N	ANCHORED IN BERTH #324
281455	2696N	UNDERWAY FOR THE OPEN SEA
281530	2591M	LEFT THE LAGOON
281727	2591M	INVESTIGATED RADIOACTIVE OIL SLICK FOR 36 MINUTES
281728	2591M	ENTERING RADIOACTIVE OIL SLICK
290001	2591M	CONDUCTED RADIOLOGICAL PATROL NORTH OF LAGOON DURING T HE NIGHT
290514	2591M	INVESTIGATED RADIOACTIVE OIL SLICK FOR 55 MINUTES
291249	2591M	REENTERED THE LAGOON
291307	2296M	ANCHORED IN BERTH #337
301301	2296M	UNDERWAY
301358	2295M	MOORED ALONGSIDE ENOREE FOR REFUELING
301512	2295M	UNDERWAY TO ANCHORAGE
301558	25030	ANCHORED BERTH #1165
330719	25030	UNDERWAY FROM BERTH 11b
330819	2692M	ANCHORED IN BERTH #386
331333	2692M	UNDERWAY
331408	2391V	ANCHORED
331544	2391V	UNDERWAY
331603	2591E	ANCHORED IN BERTH VICTOR
360747	2591E	UNDERWAY FOR OPEN SEA
361612	2591M	REENTERED LAGOON
361620	2292M	ANCHORED IN BERTH JIG
380840	2292M	UNDERWAY
380928	25030	ANCHORED IN BERTH #1165
410750	25030	UNDERWAY
410827	2591M	DEPARTED BIKINI LAGOON ENROUTE FOR PEARL HARBOR 10 AUG UST 1946

USS R K HUNTINGTON 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	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	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

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.334 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

TIME	PLACE	REMARKS
010900	2592M	OBSERVED SHOT ABLE FROM A DISTANCE IN EXCESS OF 21 MILES
011642	2592M	ENTERED BIKINI LAGOON
011704	2297M	ANCHORED BERTH #318
021358	2297M	UNDERWAY FROM #318
021444	2099C	ANCHORED BERTH #221
040001	2099C	AS BEFORE
051200	9999A	PASSING SUMMARY 5 PLUS 12
051201	9999A	SUMMARY 5 PLUS 5 THE SUM TOTAL OF ALL FREE FIELD TARGET SHIP LOSSES RECEIVED BY THIS SHIP FOR THE PERIOD 5 JULY THROUGH 24 JULY
061220	9999A	ALONGSIDE USS ARKANSAS FOR 76 HRS 48 MIN
091708	9999A	CONCLUDING TIME ALONGSIDE USS ARKANSAS
250835	2592M	OBSERVED SHOT BAKER FROM A DISTANCE OF 16 MILES (IN AREA "MARKUM")
290613	2592M	ENTERED LAGOON AFTER BAKER SHOT
290630	2293M	ANCHORED BERTH "DOG"
291006	2293M	UNDERWAY FROM DOG
291030	2592M	DEPARTED LAGOON
300558	2592M	REENTERED LAGOON
300624	2298P	ANCHORED BERTH #281
331353	2298P	UNDERWAY FROM #281
331513	1995G	ANCHORED BERTH #332
380958	1995G	UNDERWAY FROM #332
380923	2298P	ANCHORED BERTH #281
401100	2298P	COMPLETED RADIOLOGICAL INSPECTION OF SHIP
401101	2298P	EVAP CONDENSATE COLLECTORS .35R/DAY
441317	2298P	UNDERWAY FROM #281
441418	2402G	ANCHORED BERTH #131A
541542	2402G	UNDERWAY FROM #31A
541607	2592M	DEPARTED BIKINI FOR PEARL HARBOR 23 AUG 1946

USS ROCKBRIDGE 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	0	0		0	1
JUL 4	A+3	0	0		0	1
JUL 5 THRU 24		0	8			9
JUL 25	B+0	0	0	0	0	9
JUL 26	B+1	0	0	0	0	9
JUL 27	B+2	0	0	0	0	9
JUL 28	B+3	0	0	0	0	9
JUL 29	B+4	0	0	0	0	9
JUL 30	B+5	4	0	10	14	23
JUL 31	B+6	7	0	20	27	50
AUG 1	B+7	10	0	19	29	79
AUG 2	B+8	12	0	17	29	108
AUG 3	B+9	0	0	15	15	123
AUG 4	B+10	0	0	13	13	136
AUG 5	B+11	0	0	11	11	147
AUG 6	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	0	7	15	222
AUG 11	B+17	7	0	7	14	236
AUG 12	B+18	6	0	6	12	248
AUG 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	B+22	4	0	5	9	289
AUG 17	B+23	4	0	4	8	297
AUG 18	B+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	B+28	2	0	3	5	330
AUG 23	B+29	1	0	3	4	334

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.241 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

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE FROM A DISTANCE OF APPROXIMATELY 8 MILES
011657	2591M	ENTERED KIN LAGOON
011731	2196K	ANCHORED BERTH 316
021324	2196K	UNDERWAY TO NEW BERTH
021407	2000L	ANCHORED BERTH 218
042400	2000L	ANCHORED AS BEFORE
051200	9999A	PASSING SUMMARY 5 PLUS 4.3
051201	9999A	SUMMARY 5 PLUS IS THE SUM TOTAL OF ALL FREE FIELD TARGET SHIP DISES RECEIVED BY THIS SHIP FOR THE PERIOD 5 JULY THROUGH 24 JULY
071200	9999A	ALONGSIDE USS PENSACOLA FOR 3 DAYS (72 HOURS)
091200	9999A	ENCLOSURE TIME ALONGSIDE USS PENSACOLA
121200	9999A	ALONGSIDE USS LST-545 FOR 40 MINUTES
121201	9999A	ALONGSIDE USS LCT-1115 FOR 2 HRS 37 MIN
221200	9999A	ALONGSIDE USS LST-661 FOR 25 MINUTES
250835	2591M	ARRIVES SHOT BAKER AT A DISTANCE OF APPROXIMATELY 16 MILES
300615	2591M	ENTERED BIKINI LAGOON
300707	2098A	ANCHORED BERTH 240
331534	2098A	UNDERWAY TO NEW BERTH
331620	2094A	ANCHORED BERTH 353
351649	2094A	UNDERWAY TO KWAJALEIN
551718	2591M	DEPARTED BIKINI LAGOON 24 AUGUST 1946 - ENROUTE TO KWAJALEIN

USS ROCKINGHAM 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	0	0		0	1
JUL 4	A+3	0	0		0	1
JUL 5	THRU 24	0	3			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	0	0	4
JUL 28	B+3	0	0	0	0	4
JUL 29	B+4	0	0	0	0	4
JUL 30	B+5	4	0	0	0	4
JUL 31	B+6	7	0	7	11	15
AUG 1	B+7	10	0	13	20	35
AUG 2	B+8	8	0	11	21	56
AUG 3	B+9	0	0	9	17	73
AUG 4	B+10	0	0	8	8	81
AUG 5	B+11	0	0	7	7	88
AUG 6	B+12	0	0	6	6	94
AUG 7	B+13	7	0	6	6	100
AUG 8	B+14	10	0	5	12	112
AUG 9	B+15	9	0	5	15	127
AUG 10	B+16	8	0	4	13	140
AUG 11	B+17	7	0	4	12	152
AUG 12	B+18	6	0	4	11	163
AUG 13	B+19	6	0	3	9	172
AUG 14	B+20	5	0	3	9	181
AUG 15	B+21	5	0	3	8	189
AUG 16	B+22	4	0	3	8	197
AUG 17	B+23	4	0	3	7	204
AUG 18	B+24	3	0	2	6	210
AUG 19	B+25	3	0	2	5	215
AUG 20	B+26	3	0	2	5	220
AUG 21	B+27	3	0	2	5	225
AUG 22	B+28	2	0	2	5	230
AUG 23	B+29	2	0	2	4	234
AUG 24	B+30	1	0	2	4	238
			0	2	3	241



## SUPPORT SHIP INFORMATION SUMMARY

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 ( T I M E )</u>	<u>TYPE</u>	<u>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: 0.208 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
011650	2591M	ENTERED BIKINI LAGOON
011722	2196C	ANCHORED BERTH #317
021340	2196C	UNDERWAY
021428	2199F	ANCHORED BERTH #223
030000	2199F	ANCHORED AS BEFORE
040000	2199F	ANCHORED AS BEFORE
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
121200	9999A	ALONGSIDE LST-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	UNDERWAY
331445	1995W	ANCHORED BERTH #352
340000	1995W	ANCHORED AS BEFORE
350000	1995W	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	0	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	1b	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
AUG 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
AUG 17	B+23	4	0	2	b	199
AUG 18	B+24	3	0	2	5	204
AUG 19	B+25	2	0	2	4	208

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.241 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	ENTERED BIKINI LAGOON
011803	2196U	ANCHORED BERTH 335
011823	2196U	UNDERWAY TO SHIFT BERTHS
011836	2196U	ANCHORED IN BERTH 335
021325	2196U	UNDERWAY TO SHIFT BERTHS
021422	2105N	ANCHORED BERTH 18
041037	2105N	UNDERWAY TO SHIFT BERTHS
041101	2404G	ANCHORED IN BERTH 56A
250835	2591M	OBSERVED BAKER AT BEARING OF 279.5 DEG. 24 MILES
280752	2591M	ENTERED BIKINI LAGOON
280826	2293K	ANCHORED
281550	2293K	UNDERWAY FOR RONGOLAP ATOLL
281623	2591M	EXIT BIKINI LAGOON PASS BUOY 1
310553	2591M	REENTERED BIKINI LAGOON
310650	2404G	ANCHORED IN BERTH 56A
331509	2404G	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	2404G	RAD SAF BOARD COMPLETED TESTS AND LEFT SHIP
571718	2591M	DEPARTED BIKINI LAGOON FOR ENIWETOK ATOLL 26 AUG 1946

## USS RDLETTE 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	2	0		2	2
JUL 3	A+2	0	0		0	2
JUL 4	A+3	0	0		0	2
JUL 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
JUL 30	B+5	0	0	0	0	2
JUL 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	6	95
AUG 7	B+13	4	0	5	9	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	2	0	2	4	230
AUG 24	B+30	2	0	2	4	234
AUG 25	B+31	2	0	2	4	238
AUG 26	B+32	1	0	2	3	241

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</u>	<u>TYPE</u>	<u>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: 0.068 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	2597K	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 IN 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 OPERATIONS
291448	1794A	ANCHORED IN BERTH #348
291813	1794A	UNDERWAY
291825	2591M	EXITED THE LAGOON ENROUTE FOR KWAJALEIN
310700	2591M	FE-ENTERED BIKINI LAGOON
310845	2204D	ANCHORED IN BERTH #34
331543	2204D	UNDERWAY TO SHIFT BERTHS
331702	2193E	ANCHORED IN BERTH "CHARLIE"
351558	2193E	UNDERWAY TO DEPART THE LAGOON
351619	2591M	DEPARTED BIKINI LAGOON ENROUTE PEARL HARBOR 4 AUGUST 1946



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	0
JUL 2	A+1	3	0		3	3
JUL 3	A+2	1	0			4
JUL 4	A+3	0	0		0	4
JUL 5 THRU 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	0	0	4
JUL 28	B+3	0	0	0	0	4
JUL 29	B+4	0	0	0	0	4
JUL 30	B+5	0	0	0	0	4
JUL 31	B+6	13	0	5	18	22
AUG 1	B+7	18	0	5	23	45
AUG 2	B+8	11	0	5	16	61
AUG 3	B+9	0	0	4	4	65
AUG 4	B+10	0	0	3	3	68

## SUPPORT SHIP INFORMATION SUMMARY

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 detonations.

SHOT DATA:	<u>TEST</u>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.072 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 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
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 TO EXIT LAGOON
331834	2591M	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 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	0	0		0	1
JUL 4	A+3	0	0		0	1
JUL 5 THRU 24		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	20	33
AUG 1	B+7	10	0	11	21	54
AUG 2	B+8	9	0	9	18	72

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</u>	<u>TYPE</u>	<u>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: 0,249 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

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE FROM A DISTANCE IN EXCESS OF 20 MILES
011434	2591M	ENTERED BIKINI
011528	2403B	ANCHORED BERTH #94
042400	2403B	ANCHORED AS BEFORE
250835	2591M	OBSERVED SHOT BAKER FROM A DISTANCE IN EXCESS OF TEN MILES
251411	2591M	ENTERED BIKINI LAGOON
251431	2494G	ANCHORED IN BERTH "E"
260001	2494G	ANCHORED AS BEFORE
281531	2494G	UNDERWAY OUT OF BIKINI LAGOON
281630	2591M	EXITED BIKINI LAGOON
291606	2591M	RE-ENTERED BIKINI LAGOON
291630	2692K	ANCHORED 500 YARDS EAST OF BERTH "U" - "A" 119.5 DEG
		BUOY #2 24 DEG BUOY #1 216.5 DEG
		UNDERWAY FOR BERTH #94
300806	2692K	UNDERWAY FOR BERTH #94
300825	2594M	BUOY #4 TO PORT
300847	2397M	BUOY #6 TO STARBOARD
300925	2403B	ANCHORED IN BERTH #94
322400	2403B	ANCHORED AS BEFORE
331518	2403B	UNDERWAY TO SIFT BERTHS
331620	2593J	ANCHORED IN BERTH "TARE"
352400	2593J	ANCHORED AS BEFORE
551630	2591M	DEPARTED BIKINI LAGOON ON 25 AUGUST 1946 - ENROUTE KWA JALEIN

USS SAN MARCOS CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	curl TOTAL
JUL 1	A+0	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	THRU 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
JUL 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	11	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

## SUPPORT SHIP INFORMATION SUMMARY

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:	<u>TEST</u>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.137 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 BIKINI ATOLL AT TIME OF S HOT BAKER
070803	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	2497V	PASSED BUOY #6 - 300 YARDS TO PORT
300759	2698P	ANCHORED IN BERTH #270
310745	2698P	UNDERWAY
310833	2695R	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	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	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	2	0	6	8	8
JUL 31	B+6	3	0	13	16	24
AUG 1	B+7	0	0	10	10	34
AUG 2	B+8	0	0	9	9	43
AUG 3	B+9	0	0	8	8	51
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	95
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
AUG 18	B+24	2	0	3	5	110
AUG 19	B+25	3	0	3	6	116
AUG 20	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

## SUPPORT SHIP INFORMATION SUMMARY

SHIP: USS SHAKAMAXON (AN-88)

CREW SIZE: 38

GROUP: SALVAGE

MISSION: SHAKAMAXON arrived at Bikini prior to the first detonation on July 1, 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>	<u>DATE (TIME)</u>	<u>YIELD</u>	<u>TYPE</u>	<u>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: 0.643 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

TIME	PLACE	REMARKS
010900	2591M	SHOT ABL
011325	2591M	ENTERED BIKINI LAGOON AFTER SHOT ABL
011415	2499N	ALONGSIDE CONYNGHAM
011450	2499N	LEAVING CONYNGHAM
011530	2300U	GOING TO NEAR USS SARATOGA
011735	2300U	PROCEEDING TO ANCHORAGE
011820	2694M	ANCHORED IN BERTH "N"
012359	2694M	PASSING SUMMARY 0
012400	2694M	"SUMMARY" IS A FICTITIOUS SHIP USED TO RECORD THE DOSE THE SHAKAMAXON RECEIVED WHILE ALONGSIDE TARGET SL-AS AFTER SHOT ABL
020710	2694M	UNDERWAY TO USS SARATOGA
020826	2300U	ALONGSIDE SARATOGA
020940	2300U	LEAVING SARATOGA
020958	2300H	ALONGSIDE MUSTIN
021040	2300H	LEAVING MUSTIN
021100	2300J	ALONGSIDE MUGFORD
021130	2300J	LEAVING MUGFORD
021215	2403B	BOARDING TEAM RETURNED TO USS WHARTON IN SMALL BOAT
021220	2403B	UNDERWAY FOR ANCHORAGE
021245	2694M	ANCHORED IN BERTH "N"
022400	2694M	PASSING SUMMARY 0
040900	2694M	ANCHORED 45 BEFORE
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
131200	9999A	ALONGSIDE USS ARDC-13 FOR 1 HR 16 MIN
250835	2591M	SHOT BAKER
251118	2591M	ENTERED BIKINI LAGOON AFTER BAKER SHOT
251212	2593M	ANCHORED IN BERTH "T"
251242	2593M	UNDERWAY FOR TARGET ARRAY
251355	2298C	ALONGSIDE FILLMORE
251423	2298C	LEAVING FILLMORE
251500	2502U	ALONGSIDE LCI-329
251527	2502U	LEAVING LCI-329
251530	2500J	ESTIMATED POSITION
251714	2593M	ANCHORED IN BERTH TARE
260001	2593M	ANCHORED 45 BEFORE
281550	2593M	UNDERWAY
281630	1994M	ANCHORED SOUTH OF BERTH 37
301107	1994M	UNDERWAY
301159	2797K	MOORED TO BUOY OFF 10NCHEB SL-AS
301631	2797K	UNDERWAY
301638	2100G	ALONGSIDE SKATE1
301805	2100G	LEAVING SKATE1

301830 2593M ANCHORED IN BERTH TARE  
 310805 2593M UNDERWAY  
 311125 2698P ANCHORED IN BERTH 270  
 311415 2698P UNDERWAY TO PLANT BUOYS  
 311455 2593M GNCHORED IN BERTH TARE  
 331536 2593M UNDERWAY JO SHIFT BERTHS  
 331615 1994M GNCHORED IN BERTH #268  
 340946 1994M UNDERWAY TO USS WHARTON  
 341010 2394A EMBARKING BOARDING TEAM IN VICINITY OF USS WHARTON (WH  
 ARTON GNCHORED IN BERTH 363)  
 341120 2200G ALONGSIDE GASCONADE2  
 341140 2200G LEAVING GASCONADE2  
 341201 2394A LYING TO IN VICINITY OF USS WHARTON  
 341215 2394A BOARDING TEAM DISEMBARKED  
 341220 2394A UNDERWAY TO ANCHORAGE  
 341235 1993M ANCHORED IN BERTH 378  
 370800 2200G ALONGSIDE PENNSYLVANIA  
 370909 2200G LEAVING PENNSYLVANIA  
 370937 1900B ALONGSIDE BUTTE  
 371005 1900B LEAVING BUTTE  
 371520 2201Y ALONGSIDE NEW YORK2  
 371650 2201Y LEAVING NEW YORK2  
 390910 2201H ALONGSIDE MUSTIN1  
 391020 2201H LEAVING MUSTIN1  
 391034 2102X ALONGSIDE MAYRANT2  
 391110 2102X LEAVING MAYRANT2  
 391130 2001J ALONGSIDE DAWSON  
 391210 2001J LEAVING DAWSON  
 391240 1901T ALONGSIDE BARROW  
 391305 1901T LEAVING BARROW  
 431143 1902E ALONGSIDE MUGFORD2  
 431315 1902E LEAVING MUGFORD2  
 500850 2793M ALONGSIDE HUGHES  
 501125 2793M LEAVING HUGHES  
 501227 2301A ALONGSIDE SALT LAKE CITY2  
 501325 2301A LEAVING SALT LAKE CITY2  
 520845 2101Q ALONGSIDE PENSACOLA  
 520905 2101Q LEAVING PENSACOLA  
 520925 2101Q ALONGSIDE PENSACOLA  
 521300 2101Q LEAVING PENSACOLA  
 531402 2000G ALONGSIDE RALPH TALBOT2  
 531655 2000G LEAVING RALPH TALBOT2  
 540820 2301A ALONGSIDE SALT LAKE CITY2  
 540835 2301A LEAVING SALT LAKE CITY2  
 540858 2793M ALONGSIDE HUGHES  
 541040 2793M LEAVING HUGHES  
 570927 2101I ALONGSIDE FALLON  
 571240 2101I LEAVING FALLON  
 581042 2591M DEPARTED BIKINI LAGOON ENROUTE KWAJALEIN 27 AUGUST 194

USS SHAKAMAXON CALCULATE!! FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	A+0	1	0		1	1
JUL 2	A+1	1	0		1	2
JUL 3	A+2	0	0		0	2
JUL 4	A+3	0	0		0	2
JUL 5 THRU 24		0	0			2
JUL 25	B+0	23	10	38	71	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	6	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+8	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	9	35	9	53	379
AUG 9	B+15	9	0	6	17	396
AUG 10	B+16	8	0	8	16	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	6	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
AUG 22	B+28	2	11	4	17	569
AUG 23	B+29	2	6	4	12	581
AUG 24	B+30	2	0	3	5	586
AUG 25	B+31	1	0	3	4	590
AUG 26	B+32	1	46	3	50	640
AUG 27	B+33	0	0	3	3	643

## SUPPORT SHIP INFORMATION SUMMARY

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's 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>	<u>DATE (TIME)</u>	<u>YIELD</u>	<u>TYPE</u>	<u>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). 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

TIME	PLACE	REMARKS
010901	2592M	OBSERVED ABLE EXPLOSION FROM A DISTANCE OF 47.8 MILES BEARING 310.
030550	2592M	AT BIKINI ENTRANCE TO CHANNEL
030620	2393N	PASSED BOUY #3 TO STARBOARD
030631	2597K	ANCHORED IN BERTH #265
031628	2597K	UNDERWAY
031635	2592M	DEPARTED BIKINI LAGOON
250835	2592M	OBSERVED SHOT BAKER BEARING 310 DISTANCE 40 MILES
260001	2592M	SHANGRI LA DID NOT ENTER BIKINI LAGOON AFTER BAKER SHOT



USS SHANGRI LA 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 THRU 24		0	0			0
JUL 25	B+0	0	0	0	0	0

## SUPPORT SHIP INFORMATION SUMMARY

SHIP: USS SIOUX (ATF-75)

CREW SIZE: 66

GROUP: SERVICE

MISSION: SIOUX 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, SIOX performed such duties as salvage, towing, and emergency repair work.

SHOT DATA:	<u>TEST</u>	<u>DATE (TIME)</u>	<u>YIELD</u>	<u>TYPE</u>	<u>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: 0.301 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

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE FROM A DISTANCE OF 9 MILES - BEARING 331 DEG
020530	2591M	ENTERED BIKINI LAGOON WITH ARD-29 IN TOW
020853	2698T	MOORED ARD-29 TO BERTH 270A
020945	2698T	UNDERWAY
021000	2591M	DEPARTED BIKINI LAGOON FOR KWAJALEIN
041030	2591M	ENTERED BIKINI LAGOON
041345	2504D	MOORED YF-990 TO LST-351 11? BERTH #63
041416	2504D	UNDERWAY
041445	2401Y	ANCHORED - "E" 353 DEG "D" 211 DEG "C" 67 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 TARGET SHIP DOSES RECEIVED BY THIS SHIP FOR THE PERIOD 5 JULY 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 FOR 1 HR 30 MIN
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 USS 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	UNDERWAY
320820	2097C	MOORED TO YO-132 ALONGSIDE USS BAYFIELD IN BERTH #279
320837	2097C	UNDERWAY WITH YO-132 IN TOW
320930	2500W	MOORED YO-132 TO USS AJAX IN BERTH #207
320945	2500W	UNDERWAY
321050	2794C	ANCHORED IN VICINITY OF USS PALMYRA
321530	2794C	UNDERWAY
321650	2002E	NEAR USS WILSON TO WASH HER DOWN
321730	2002E	UNDERWAY FROM USS WILSON
321832	2694Y	ANCHORED - "A" 146 DEG "B" 19 DEG "C" 0 DEG
330700	2694Y	UNDERWAY FROM ANCHORAGE
330732	2401S	ANCHORED NEAR USS WHARTON IN BERTH #145
331550	2401S	UNDERWAY FROM ANCHORAGE

331600 2402H MOORED TO YF-733 ALONGSIDE USS HESPERIA IN BERTH #131A  
331615 2402H UNDERWAY WITH YF-733 IN TOW  
331935 2595T MOORED YF-733 TO USS HESPERIA IN BERTH "UNCLE"  
332023 2595T UNDERWAY FROM YF-733  
332041 2504N ANCHORED - "A" 169 DEG "B" 162 DEG "C" 157 DEG  
340605 2504N UNDERWAY FROM ANCHORAGE  
340645 2505X ANCHORED IN BERTH #44  
340830 2505X UNDERWAY WITH AFD-29 IN TOW  
341114 2698T ANCHORED AFD-29  
341138 2698T UNDERWAY FROM AFD-29  
341143 2793L ANCHORED - "A" 144 DEG "B" 10 DEG TOWERS ON ENYU IS.  
70 DEG  
352400 2793L ANCHORED AS BEFORE  
391701 2591M EXITED BIKINI LAGOON FOR KWAJALEIN  
411200 2591M RE-ENTERED BIKINI LAGOON  
431605 2591M DEPARTED BIKINI LAGOON FOR RONGELAP  
461325 2591M RE-ENTERED BIKINI LAGOON  
511114 2694H ALONGSIDE HUGHES  
511329 2504B LEAVING HUGHES  
530741 2591M EXITED BIKINI LAGOON FOR KWAJALEIN WITH USS QUARTZ  
550745 2591M RE-ENTERED BIKINI LAGOON  
560722 2591M DEPARTED BIKINI LAGOON FOR KWAJALEIN WITH AFD-29 IN TO  
W ON 25 AUGUST 1946

## USS SIOUX CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIF 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	THRU 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	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	0	12	12	127
AUG 6	B+12	0	0	11	11	138
AUG 7	B+13	5	0	10	15	153
AUG 8	B+14	6	0	9	15	168
AUG 9	B+15	0	0	8	8	176
AUG 10	B+16	3	0	8	11	187
AUG 11	B+17	7	0	7	14	201
AUG 12	B+18	4	0	7	11	212
AUG 13	B+19	0	0	6	6	218
AUG 14	B+20	0	0	6	6	224
AUG 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	B+25	3	0	4	7	263
AUG 20	B+26	3	9	4	16	279
AUG 21	B+27	3	0	4	7	286
AUG 22	B+28	0	0	4	4	290
AUG 23	B+29	0	0	4	4	294
AUG 24	B+30	1	0	3	4	298
AUG 25	B+31	0	0	3	3	301

## SUPPORT SHIP INFORMATION SUMMARY

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 picture exchange, as well as recreation, welfare, **and** legal facilities.

SHOT DATA:	<u>TEST</u>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.290 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 NORTHEAST
011907	2591M	ENTERED BIKINI LAGOON
011935	2595T	ANCHORED IN BERTH #369N
021300	2595T	UNDERWAY FROM BERTH
021357	2603G	ANCHORED IN BERTH #117
042400	2603G	ANCHORED AS BEFORE
250835	2591M	OBSERVED SHOT BAKER FROM 20 MILES TO THE EAST
301545	2591M	ENTERED BIKINI LAGOON
301711	2603G	ANCHORED IN BERTH #117
331522	2603G	UNDERWAY
331641	2391C	ANCHORED ON A LINE BETWEEN BERTHS "S" AND "V" - "A" 80 DEG "B" 34 DEG
331746	2391C	UNDERWAY TO ADJUST ANCHORAGE
331802	2593P	ANCHORED ON A LINE BETWEEN BERTHS "V" AND "S" - "A" 101 DEG "B" 32 DEG
351043	2593P	UNDERWAY TO ADJUST ANCHORAGE
351110	2291M	ANCHORED ON 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 KWAJALEIN

USS SPHINX 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	THRU 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	4	0	6	10	10
JUL 31	B+6	12	0	21	33	43
AUG 1	B+7	14	0	18	32	75
AUG 2	B+8	9	0	16	25	100
AUG 3	B+9	0	0	13	13	113
AUG 4	B+10	0	0	12	12	125
AUG 5	B+11	0	0	10	10	135
AUG 6	B+12	0	0	9	9	144
AUG 7	B+13	6	0	8	14	158
AUG 8	B+14	10	0	8	18	176
AUG 9	B+15	9	0	7	16	192
AUG 10	B+16	8	0	6	14	206
AUG 11	B+17	7	0	6	13	219
AUG 12	B+18	6	0	6	12	231
AUG 13	B+19	6	0	5	11	242
AUG 14	B+20	5	0	5	10	252
AUG 15	B+21	5	0	5	10	262
AUG 16	B+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



## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.664 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

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE
011329	2591M	ENTER BIKINI LAGOON
011336	2192D	ANCHOR IN BERTH FOX
011543	2192D	UNDERWAY FROM BERTH FOX
011612	2501K	LAY OFF PORT QUARTER OF ATP-192
011632	2501K	UNDERWAY FROM ATA-192
011653	1800D	LAY OFF STARBOARD QUARTER OF USS GASCONADE
011715	1800D	ALONGS DE GASCONADE
011742	1800D	LEAVING GASCONADE
011800	1900C	ALONGSIDE BUTTE
011810	1900C	LEAVING BUTTE
011815	1800W	LAY OFF PORT QUARTER USS CORTLAND
011830	1800W	UNDERWAY FOR NEW ANCHORAGE
011914	2594J	ANCHOR IN BERTH "PETER"
012358	2594J	PASSING SUMMARY 0
012359	2594J	SUMMARY IS A FICTITIOUS SHIP USED TO RECORD THE DOSE RECEIVED BY SUNCOCK WHILE ALONGSIDE TARGET SHIPS AFTER SHOT ABLE
020705	2594J	UNDERWAY FROM BERTH PETER
020805	1900B	HOVE TO STARBOARD SIDE USS BUTTE
020852	1900B	PROCEED TOWARD USS BARROW
020905	1901T	HOVE TO STARBOARD SIDE USS BARROW
020945	1901T	PROCEED TO USS CORTLAND
021015	1800W	HOVE TO OFF STARBOARD QUARTER USS CORTLAND
021037	1800W	PROCEED TO ANCHORED SEAPLANES IN HARBOR
021050	1902D	PROCEED TO USS WAINWRIGHT
021120	1902D	OFF BOW OF USS WAINWRIGHT
021135	1902D	PROCEED TO USS WILSON
021145	2002E	HOVE TO STERN OF USS WILSON (ESTIMATED TIME)
021201	2002E	PROCEED TO LCT-705
021228	1700I	AT LCT-705 (ESTIMATED TIME)
021245	1700I	PROCEED TO LCT-1013
021250	1701N	AT LCT-1013 (ESTIMATED TIME)
021258	1701N	UNDERWAY FOR USS WHARTON
021410	2403B	HOVE TO - USS WHARTON
021412	2403B	UNDERWAY FOR BERTH PETER
021558	2594B	ANCHORED IN BERTH "PETER"
041015	2594N	UNDERWAY FROM BERTH PETER
041055	2101E	MOORED STERN BUOY OF USS ARKANSAS
041230	2101E	UNDERWAY FROM MOORING
041250	2201F	MOORED STERN BUOY OF USS PENSACOLA
041410	2201F	UNDERWAY FROM MOORING - PROCEEDING TO USS PALMYRA
041620	2594N	ANCHORED IN BERTH "PETER"
042400	2594N	ANCHORED AS BEFORE
051200	9999A	PASSING SUMMARY 5 PLUS 0
051201	9999A	SUMMARY 5 PLUS IS THE SUM TOTAL OF ALL FREE FIELD TARGETS

ET SHIP DOSES RECEIVED BY THIS SHIP FOR THE PERIOD 5 JULY THROUGH 24 JULY

131730 9999A ALONGSIDE ARDC-13 FROM 1730 TO 1907

200945 9999A MGGREI! TO STERN BUOY 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 DESERVED SHOT BAKER

251112 2591M PROBABLE TIME OF ENTERING BIKINI LAGGN

251143 2793C ANCHOR IN BERTH "ROGER" OFF ENYU ISLAND

251151 2793N UNDERWAY FROM BERTH

251241 1800V ALONGSIDE CORTLAND

251306 1800V LEAVING CORTLAND

251310 1800V STOPPED TO THE NORTH OF USS CORTLAND

251402 1800V PROCEED TO USS CARTERET

251412 18000 ALONGSIDE CARTERET 1

251413 18000 UNSAFE FOR BOARDING - PREPARING TO PROCEED NGF' TH

251417 18000 LEAVING CARTERET1

251423 18000 STOPPED NORTH OF 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 INTAKE - 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 2793C UNDERWAY FROM BERTH "ROGER"

311013 2405U ANCHORED 300 YARDS ASTERN OF USS OTTAWA

311042 2405U UNDERWAY TO GO ALONGSIDE OTTAWA

311050 2405F MOORED PORT SIDE OF USS OTTAWA

311235 2405F UNDERWAY TO IONCHEBI ISLAND

311340 2797N LYING TO - WEST OF IONCHEBI ISLAND -- "C" 350 DEG "B" 117 DEG

311530 2797N UNDERWAY FOR USS WILDCAT

311557 2595S MOORED PGRT SIDE OF USS WILDCAT

311758 2595S UNDERWAY FROM USS WILL' CAT

311810 2793C SECURED MAIN ENGINE - BERTH "ROGER"

331625 2793C UNDERWAY FROM BERTH "ROGER"

331704 1993T ANCHORED 1175 YARDS SOUTH OF BERTH #379 - "C" 75 DEG "B" 60 DEG "A" 89 DEG

340759 1993T UNDERWAY FOR USS FULTGN

340825 2599N LYING TO OFF PORT SIDE OF USS FULTGN

340832 2599N UNDERWAY FROM USS FULTON  
 340910 2202K SOUTH OF USS NEVADA  
 341127 2200B MOORED 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  
 341700 1993T ANCHORED 1175 YARDS SOUTH OF BERTH #379 - "C" 41 DEG  
 "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 2202B ALONGSIDE LST-52  
 390953 2200B LEAVING LST-52  
 391004 2201I ALONGSIDE LST-133  
 391012 2201I LEAVING LST-133  
 391032 2001L ALONGSIDE CRITTENDEN  
 391055 2001L LEAVING CRITTENDEN  
 450930 2000T ALONGSIDE PARCHE2  
 451110 2000T LEAVING PARCHE2  
 460954 2001L ALONGSIDE CRITTENDEN  
 461700 2001L LEAVING CRITTENDEN  
 470845 2001J ALONGSIDE DAWSON  
 471153 2001J LEAVING DAWSON  
 471225 2200B ALONGSIDE GASCONADE2  
 471320 2200B LEAVING GASCONADE2  
 471330 2200I 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  
 561244 2101B LEAVING BRULE  
 570925 2200S ALONGSIDE CATRON  
 571415 2200S LEAVING CATRON  
 590847 2104E ALONGSIDE 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  
 610916 2002C LEAVING RHIND2  
 611114 2591M DEPARTED BIKINI LAGOON WITH USS RHIND IN TOW ON 30 AUG  
 UST 1946 -- ENROUTE KWAJALEIN

## USS SUHCOCK 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	2	0		2	4
JUL 3	A+2	0	0		0	4
JUL 4	A+3	0	0		0	4
JUL 5 THRU 24		0	0			4
JUL 25	B+0	17	35	27	79	83
JUL 26	B+1	0	0	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
JUL 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
AUG 4	B+10	0	0	13	13	174
AUG 5	B+11	0	0	12	12	186
AUG 6	B+12	0	0	11	11	197
AUG 7	B+13	5	55	10	70	267
AUG 8	B+14	10	11	9	30	297
AUG 9	B+15	9	0	8	17	314
AUG 10	B+16	8	0	6	16	330
AUG 11	B+17	7	0	7	14	344
AUG 12	B+18	6	0	7	13	357
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
AUG 19	B+25	3	0	4	7	528
AUG 20	B+26	3	0	4	7	535
AUG 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
AUG 25	B+31	2	26	3	31	615
AUG 26	B+32	1	18	3	22	637
AUG 27	B+33	1	0	3	4	641
AUG 28	B+34	1	5	3	9	650
AUG 29	B+35	1	0	3	4	654
AUG 30	B+36	0	7	3	10	664

# SUPPORTSHIP INFORMATION SUMMARY

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 DATA:	<u>TEST</u>	<u>D A T E</u>	<u>( T I M E )</u>	<u>TYPE</u>	<u>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: 0.238 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	REMARKS
010900	2591M	SYLVANIA OBSERVED SHOT ABLE FROM DISTANCE OF 22 MILES
250835	2591M	OBSERVED SHOT BAKER FROM G DISTANCE OF 17 MILES
310915	2591M	ENTERED BIKINI LAGOON
311001	2304E	ANCHORED BERTH 40
320000	2304E	ANCHORED AS BEFORE
331613	2304E	UNDERWAY TO SHIFT BERTHS
331708	2392D	ANCHORED BERTH "MIKE"
340000	2392D	ANCHORED AS BEFORE
350000	2392D	ANCHORED AS BEFORE
561602	2591M	DEPARTED BIKINI LAGOON 25 AUGUST 1946 ENROUTE PEARL HARBOR VIA KWAJALEIN

USS SYLVANIA 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 THRU 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	B+8	11	0	9	20	66
AUG 3	B+9	0	0	8	8	74
AUG 4	B+10	0	0	7	7	81
AUG 5	B+11	0	0	6	6	87
AUG 6	B+12	0	0	6	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	11	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	0	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



## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.267 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 146S
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 146S
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 TELGMON CGLCULGTED FILM BADGE DOSE (IN MREM)

DGTE	TIME	LGGOON 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	THRU 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	5	0	7	12	12
JUL 31	B+6	14	0	22	36	48
GUG 1	B+7	15	0	1a	33	a1
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	1a	183
GUG 9	B+15	9	0	7	1b	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	12	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

## SUPPORT SHIP INFORMATION SUMMARY

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:	<u>TEST</u>	<u>DATE (TIME)</u>	<u>YIELD</u>	<u>TYPE</u>	<u>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-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-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: 0.273 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

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE AT A DISTANCE OF 21 MILES
011810	2591M	ENTERED BIKINI LAGOON
011845	2595E	ANCHORED BERTH 343
020932	2595E	UNDERWAY
021023	2603B	MOORED ALONGSIDE SAN MARCOS (BERTH #74N)
021306	2603B	UNDERWAY
021250	2595E	ANCHORED BERTH 343
030931	2595E	UNDERWAY
031016	2502R	ALONGSIDE YOG-83
031304	2502R	LEAVING YOG-83
031400	2603B	MOORED ALONGSIDE PRESQUE ISLE (BERTH #95)
031556	2603B	UNDERWAY
031640	2405P	ALONGSIDE LST-220
031840	2405P	LEAVING LST-220
031846	2105V	ANCHORED BERTH #33
032358	2105V	PASSING SUMMARY 3
032359	2105V	SUMMARY IS A FICTITIOUS SHIP USED TO RECORD THE DOSE RECEIVED BY TOMBIGBEE WHILE ALONGSIDE TARGET SHIPS AFTER SHOT ABLE
040830	2105V	UNDERWAY
040941	2201K	ALONGSIDE HUGHES
041023	2201K	LEAVING HUGHES
041057	2504Y	MOORED ALONGSIDE GUNSTON HALL
041310	2504Y	UNDERWAY
041350	23001	ALONGSIDE MUSTIN
041445	23001	LEAVING MUSTIN
041500	2502R	ANCHORED BERTH #147
041501	2502R	PASSING SUMMARY 6
050933	2602X	ALONGSIDE PRINZ EUGEN
051357	2602X	LEAVING PRINZ EUGEN
052359	9999A	PASSING SUMMARY 5 PLUS 0
052400	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
071200	9999A	ALONGSIDE USS MAYRANT FOR 50 MINUTES
101200	9999A	ALONGSIDE PRINZ EUGEN FOR 32 MINUTES
111200	9999A	ALONGSIDE USS LST-133 FOR 3 HRS 30 MIN
111201	9999A	ALONGSIDE USS LST-52 FOR 2 HRS 15 MIN
121200	9999A	ALONGSIDE USS SALT LAKE CITY FOR 1 HR 25 MIN
121201	9999A	ALONGSIDE USS FENSACOLA FOR 2 HRS 8 MIN
141200	9999A	ALONGSIDE USS HUGHES FOR 1 HR
201200	9999A	ALONGSIDE PRINZ EUGEN FOR 2 HRS 40 MIN
201201	9999A	ALONGSIDE USS FENSACOLA FOR 1 HR 30 MIN
211200	9999A	ALONGSIDE USS LST-220 FOR 2 HRS 35 MIN
231200	9999A	ALONGSIDE USS WAINWRIGHT FOR 1 HR 15 MIN
250835	2591M	ANCHORED AT RONBELAP ATOLL FOR SHOT BAKER

310635	2591M	ENTERED BIKINI LAGOON
310711	2697W	MOORED ALONGSIDE ENDREE (BERTH #305)
311103	2697W	UNDERWAY
311134	2695R	ALONGSIDE SEVERN (BERTH #370)
311650	2695R	UNDERWAY
311702	2595E	ANCHORED BERTH #343
320821	2595E	UNDERWAY
320913	2303N	MOORED ALONGSIDE MT MCKINLEY (BERTH #112)
321306	2303N	UNDERWAY
321326	1704U	MOORED ALONGSIDE LST-368 (BERTH #68)
321523	1704U	UNDERWAY
321553	2103R	MOORED ALONGSIDE QUARTZ (BERTH #108)
321643	2103R	UNDERWAY
321655	2502R	ANCHORED BERTH 147
331000	2502R	UNDERWAY
331047	2205X	MOORED ALONGSIDE SAIDOR (BERTH #34)
331417	2205X	UNDERWAY
331527	2694Q	ANCHORED BERTH (PETER ROGER)
340000	2694Q	ANCHORED AS BEFORE
350900	2694Q	UNDERWAY
350925	2603G	MOORED ALONGSIDE SPHINX (BERTH #117)
351028	2603G	UNDERWAY
351058	2293G	ANCHORED
351350	2293G	UNDERWAY
351415	2094R	ANCHORED BERTH #380
351425	2094R	UNDERWAY
351505	2099C	MOORED ALONGSIDE ROCKBRIDGE (BERTH #222)
351830	2099C	UNDERWAY
351842	2096W	ANCHORED BERTH #334
401229	2002X	ALONGSIDE PRINZ EUGEN2
401505	2002X	LEAVING PRINZ EUGEN2
451203	2697H	ALONGSIDE FILLMORE
451335	2697H	ALONGSIDE LCI-329
451514	2697H	LEAVING LCI-329
451516	2697H	LEAVING FILLMORE
501350	2502G	ALONGSIDE BLADEN
501745	2502G	LEAVING BLADEN
511119	2303N	ALONGSIDE NIAGARA
511322	2303N	LEAVING NIAGARA
521244	2591M	DEPARTED BIKINI LAGOON 21 AUGUST 1946 - ENROUTE KWAJAL EIN

USE TOMBIGBEE 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	2		2	2
JUL 4	A+3	0	0		0	2
JUL 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
JUL 30	B+5	0	0	0	0	2
JUL 31	B+6	2	0	9	11	13
GUG 1	B+7	12	0	18	30	43
GUG 2	B+8	9	0		25	68
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	1b	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	B+16	5	0	b	11	188
GUG 11	B+17	7	0	b	13	201
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 16	B+22	4	0	4	8	241
GUG 17	B+23	4	0	4	8	249
GUG 18	B+24	3	0	4	7	256
GUG 19	B+25	3	0	4	7	263
GUG 20	B+26	3	0	3	6	269
AUG 21	B+27	1	0	3	4	273

## SUPPORTSHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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: 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	2591M	OBSERVED SHOT ABLE. LOCATED 82 MILES AWAY.
030614	2591M	ENTERED BIKINI LAGOON
030648	2696M	MOORED TO USS CHIKASKIA FOR FUEL IN BERTH 324
030808	2696M	UNDERWAY TO TOUR TARGET AREA
030949	2498T	ANCHORED BERTH 268
031618	2591M	EXITED BIKINI LAGOON - ENROUTE KWAJALEIN
250835	2591M	OBSERVED SHOT BAKER AT A BEARING OF 313 DEG. AND DISTANCE OF 49 MILES
251452	2591M	CHANGED COURSE - ENROUTE PEARL HARBOR
260001	2591M	ENROUTE PEARL HARBOR - DEPARTED VICINITY OF BIKINI LAGOON ON 25 JULY 1946 WITHOUT EVER HAVING ENTERED BIKINI LAGOON AFTER SHOT BAKER

USS TURNER 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 THRU 24		0	0			0
JUL 25	B+0	0	0	0	0	0

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>( T I M E )</u>	<u>TYPE</u>	<u>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: 0.210 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 WATKE

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE FROM A DISTANCE OF APPROXIMATELY 19 MILES
021201	2592M	ENTERED BIKINI LAGOON TO TRANSFER PATIENT
021202	2591M	FOR EMERGENCY APPENDECTOMY
021229	24980	LYING TO IN THE VICINITY OF USS BENEVOLENCE
021257	24980	PROCEEDING TO HAVEN
021323	23048	LYING TO IN THE VICINITY OF USS HAVEN
021331	23048	PROCEED TO USS DIXIE
021415	23000	LYING TO IN THE VICINITY OF DIXIE
021445	23000	PROCEED TO USS HAVEN
021500	23048	LYING TO IN THE VICINITY OF USS HAVEN
021533	23048	UNDERWAY OUT OF LAGOON
021608	2591M	DEPARTED LAGOON TO CONTINUE RADIOLOGICAL PATROL
250835	2591M	OBSERVED SHOT CAPER FROM APPROXIMATELY 15 MILES
261637	0490M	ANCHORED INS DE ERIC PASS
271625	0490M	UNDERWAY FOR GRID POSITION 1895
271755	1895B	ANCHORED IN BERTH 300
281612	1895B	PROCEED TO BERTH 307N
281646	15960	ANCHORED IN BERTH 307N
301017	15960	UNDERWAY TO USS ENDREE
301106	2697M	MOORED ALONGSIDE USS ENDREE
301219	2697M	UNDERWAY TO BERTH 307
301354	15960	ANCHORED IN BERTH 307
310703	15960	UNDERWAY TO BERTH 190N
310811	2400J	ANCHORED IN BERTH 190N
330858	2400J	UNDERWAY
330932	2591M	PASSED BUOY #1
351122	2591M	RE-ENTERED LAGOON
391201	2591M	DEPARTED BIKINI LAGOON ENROUTE PEARL HARBOR 8 AUGUST 1946

USS WALKER 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 THRU 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	1	1	1
JUL 30	B+5	2	0	14	16	17
JUL 31	B+6	9	0	28	37	54
AUG 1	B+7	14	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

## SUPPORT SHIP INFORMATION SUMMARY

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:	<u>TEST</u>	<u>DATE (TIME)</u>	<u>YIELD</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-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-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: 0.301 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 WENATCHEE

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	ANCHORED AS BEFORE
051159	9999A	PASSING SUMMAE Y 5 PLUS 0
051200	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
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 FOR 10 MIN
250835	2591M	OBSERVED SHOT BAKER FROM A DISTANCE OF 20 MILES
310720	2591M	ENTERED BIKINI LAGOON
310925	2600K	ANCHORED BERTH 191-A
320715	2600K	UNDERWAY FOR USS HESPERIA WITH YF-133 IN TOW
320750	2402H	MOORED YF-733 TO USS HESPERIA
320802	2402H	UNDERWAY
320835	2604W	ANCHORED VICINITY OF USS PRESQUE ISLE FOR SALVAGE OPERATIONS
321520	2604W	UNDERWAY TO DISPOSE OF AN LCH
321707	2600K	ANCHORED BERTH 191-A
330755	2600K	UNDERWAY FOR HARBOR WORK
330945	2204D	MOORED A WATER BARGE TO PORT SIDE OF USS SAIDOR
330953	2204D	UNDERWAY
331101	2604Q	ANCHORED OFF PORT SIDE OF USS PRESQUE ISLE
340000	2504E	ANCHORED BERTH 61
340610	2504E	UNDERWAY
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 KWAJALEIN

USS WENATCHEE 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	0
JUL 2	A+1	6	0	0	0	0
JUL 3	A+2	6	0	0	0	0
JUL 4	A+3	0	0	0	0	0
JUL 5 THRU 24		0	0	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	6	0	15	21	21
AUG 1	B+7	12	0	21	33	54
AUG 2	B+8	14	0	18	32	86
AUG 3	B+9	10	0	16	26	112
AUG 4	B+10	0	0	14	14	126
AUG 5	B+11	0	0	12	12	138
AUG 6	B+12	0	0	11	11	149
AUG 7	B+13	6	0	10	16	165
AUG 8	B+14	9	0	9	18	183
AUG 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	12	255
AUG 14	B+20	5	0	6	11	266
AUG 15	B+21	5	0	5	10	276
AUG 16	B+22	4	0	5	9	285
AUG 17	B+23	4	0	5	9	294
AUG 18	B+24	3	0	4	7	301



## SUPPORT SHIP INFORMATION SUMMARY

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 DATA:	<u>TEST</u>	<u>D A T E</u>	<u>( T I M E )</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: 0.245 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	ENTERING CHANNEL TO BIKINI LAGOON
011541	2104B	ANCHORED IN BERTH 33
011619	2104B	UNDERWAY TO SHIFT BERTHS
011655	2403B	ANCHORED IN BERTH 92
021451	2403B	UNDERWAY TO SHIFT BERTHS
021542	2103H	ANCHORED IN BERTH 89
042400	2103H	ANCHORED AS BEFORE
250835	2591M	OBSERVED SHOT BAKER FROM APPROXIMATELY 10 MILES DISTANCE
251403	2591M	ENTERED CHANNEL TO BIKINI LAGOON
251414	2594S	ANCHORED IN BERTH "Q"
260001	2594S	ANCHORED IN BERTH "Q"
281520	2594S	UNDERWAY TO SHIFT BERTHS
281617	2193Y	ANCHORED IN BERTH "F"
301317	2193Y	UNDERWAY TO SHIFT BERTHS
301355	2402W	ANCHORED IN BERTH 145
331446	2402W	UNDERWAY TO SHIFT BERTHS
331545	2394A	ANCHORED IN BERTH 363
362400	2394A	ANCHORED IN BERTH 363
561700	2394A	ANCHORED IN BERTH 363
561748	2591M	DEPARTED BIKINI LAGOON ENROUTE KWAJALEIN ATOLL 25 AUGUST 1946

## USS WHARTON 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	6	0		6	8
JUL 3	A+2	1	0		1	9
JUL 4	A+3	0	0		0	9
JUL 5	THRU 24	0	0			9
JUL 25	B+0	0	0	0	0	9
JUL 26	B+1	0	0	0	0	9
JUL 27	B+2	0	0	1	1	10
JUL 29	B+3	1	0	3	4	14
JUL 29	B+4	0	0	2	2	16
JUL 30	B+5	7	0	6	13	29
JUL 31	B+6	16	0	10	26	55
AUG 1	B+7	16	0	8	24	79
AUG 2	B+8	10	0	7	17	96
AUG 3	B+9	0	0	6	6	102
AUG 4	B+10	0	0	5	5	107
AUG 5	B+11	0	0	5	5	112
AUG 6	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	0	3	12	151
AUG 10	B+16	8	0	3	11	162
AUG 11	B+17	7	0	3	10	172
AUG 12	B+18	6	0	3	9	181
AUG 13	B+19	6	0	2	8	189
AUG 14	B+20	5	0	2	7	196
AUG 15	B+21	5	0	2	7	203
AUG 16	B+22	4	0	2	6	209
AUG 17	B+23	4	0	2	6	215
AUG 18	B+24	3	0	2	5	220
AUG 19	B+25	3	0	2	5	225
AUG 20	B+26	3	0	2	5	230
AUG 21	B+27	3	0	1	4	234
AUG 22	B+28	2	0	1	3	237
AUG 23	E+29	2	0	1	3	240
AUG 24	B+30	2	0	1	3	243
AUG 25	B+31	1	0	1	2	245

## SUPPORT SHIP INFORMATION SUMMARY

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:	<u>TEST</u>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.637 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
010900	2591M	OBSERVED SHOT ABLE
011320	2591M	LEFT FORMATION - PROCEEDING TO ANCHORAGE AT BIKINI
011343	2394V	ANCHORED BERTH "E"
020657	2394V	UNDERWAY
020850	2101S	ALONGSIDE SKATE
020935	2101S	LEAVING SKATE
020936	2101S	UNDERWAY WITH SKATE IN TOW ASTERN
021152	2894H	ANCHORED OFF BEACHING AREA ENYU ISLAND
021700	2894H	UNDERWAY TO ANCHORAGE
021709	2394V	ANCHORED IN BERTH "E"
022358	2394V	PASSING SUMMARY 210
022359	2394V	SUMMARY IS A FICTITIOUS SHIP USED TO RECORD THE DOSE RECEIVED BY WIDGEON WHILE ALONGSIDE TARGET SHIPS AFTER SHOT ABLE
042400	2394V	ANCHORED AS BEFORE
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
101200	9999A	ALONGSIDE USS ANDERSON FOR 21 HRS 30 MIN
111200	9999A	CONCLUDING TIME ALONGSIDE USS ANDERSON
111201	9999A	ALONGSIDE USS CARLISLE FOR 82 HRS 45 MIN
141200	9999A	CONCLUDING TIME ALONGSIDE USS CARLISLE
141201	9999A	ALONGSIDE USS ANDERSON FOR 3 DAYS (72 HOURS)
181200	9999A	CONCLUDING TIME ALONGSIDE USS ANDERSON
191200	9999A	ALONGSIDE USS GILLIAM FOR 56 HOURS
211200	9999A	CONCLUDING TIME ALONGSIDE USS GILLIAM
221200	9999A	ALONGSIDE USS SEARAVEN FOR 7 HOURS
231200	9999A	ALONGSIDE USS DENTUDA FOR 3 HRS 8 MIN
231201	9999A	ALONGSIDE USS SKIPJACK FOR 5 HRS 9 MIN
241200	9999A	ALONGSIDE USS TUNA FOR 3 HOURS
241201	9999A	ALONGSIDE USS TUNA FOR 5 HOURS
250835	2591M	OBSERVED SHOT BAKER
251105	2591M	ENTERED BIKINI LAGOON
251127	2594J	ANCHORED BERTH "P" - ENYU ISLAND
260001	2594J	ANCHORED AS BEFORE
271311	2594J	UNDERWAY
271408	2100P	ANCHORED IN VICINITY OF USS DENTUDA
271609	2100P	UNDERWAY
271647	2594J	ANCHORED IN BERTH "P"
281317	2594J	UNDERWAY
281347	21001	MOORED IN VICINITY USS APOGON
281533	21001	UNDERWAY
281746	1893K	ANCHORED 1200 YARDS SOUTH OF BERTH 376
290755	1893K	UNDERWAY
290900	2100P	ANCHORED VICINITY USS DENTUDA

290948 2100P UNDERWAY  
 290950 2199A ANCHORED VICINITY USS TUNA  
 291316 2199A UNDERWAY  
 291350 2100P MOORED VICINITY USS DENTUDA  
 291604 2100P UNDERWAY  
 291649 1893A MOORED STARBOARD TO USS COUGAL (FOR WATER)  
 292233 1893A UNDERWAY  
 292252 1893K ANCHORED IN BERTH 1200 YARDS SOUTH OF 376  
 300759 1893K UNDERWAY  
 300908 2100P MOORED IN VICINITY OF USS DENTUDA  
 301138 2100P UNDERWAY  
 301149 2594J ANCHORED OFF ENYU ISLAND  
 301248 2594J UNDERWAY  
 301312 2697W MOORED TO USS ENDREE (FOR FUEL)  
 301538 2697W UNDERWAY  
 301605 2594J ANCHORED IN BERTH "P"  
 310827 2594J UNDERWAY  
 310918 2894H ALONGSIDE DENTUDA1  
 311110 2894H LEAVING DENTUDA1  
 311147 2594J ANCHORED  
 311408 2594J UNDERWAY TO USS HUGHES  
 311414 2894H COMMENCED WASHING USS HUGHES  
 311502 2894H UNDERWAY FROM HUGHES (COMPLETED WASHING)  
 311543 1894H ALONGSIDE DENTUDA1  
 311909 2894H LEAVING DENTUDA1  
 311915 2894H UNDERWAY  
 311928 2594J ANCHORED IN BERTH "P"  
 320902 2594J UNDERWAY  
 330928 2394R MOORED STARBOARD TO YO-132 ALONG PORT SIDE OF USS AJAX  
 IN BERTH 385  
 331428 2394R UNDERWAY (YO-132 IN TOW)  
 331600 2394R MOORED STARBOARD TO YO-132 ALONG PORT SIDE OFF USS AJA  
 X IN BERTH 385  
 352400 2394R ANCHORED AS BEFORE  
 651535 2200K VICINITY OF USS SKIPJACK  
 671730 2200K LEAVING VICINITY OF SKIPJACK  
 671928 2591M DEPARTED BIKINI LAGOON ON 5 SEPTEMBER 1946 -- ENROUTE  
 KWAJALEIN

## USS WIDGEON 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	147		148	148
JUL 3	A+2	0	0		0	148
JUL 4	A+3	0	0		0	148
JUL 5 THRU 24		0	0			148
JUL 25	B+0	0	0	0	0	148
JUL 26	B+1	0	0	0	0	148
JUL 27	B+2	5	0	17	22	170
JUL 28	B+3	5	0	39	44	214
JUL 29	B+4	6	0	33	39	253
JUL 30	B+5	2	0	29	31	284
JUL 31	B+6	1	6	25	32	316
AUG 1	B+7	1	0	20	21	337
AUG 2	B+8	0	0	18	18	355
AUG 3	B+9	0	0	15	15	370
AUG 4	B+10	0	0	14	14	384
AUG 5	B+11	0	0	12	12	396
AUG 6	B+12	0	0	11	11	407
AUG 7	B+13	6	0	10	16	423
AUG 8	B+14	10	0	9	19	442
AUG 9	B+15	9	0	8	17	459
AUG 10	B+16	8	0	8	16	475
AUG 11	B+17	7	0	7	14	489
AUG 12	B+18	6	0	7	13	502
AUG 13	B+19	6	0	6	12	514
AUG 14	B+20	5	0	6	11	525
AUG 15	B+21	5	0	5	10	535
AUG 16	B+22	4	0	5	9	544
AUG 17	B+23	4	0	5	9	553
AUG 18	B+24	3	0	4	7	560
AUG 19	B+25	3	0	4	7	567
AUG 20	B+26	3	0	4	7	574
AUG 21	B+27	3	0	4	7	581
AUG 22	B+28	2	0	4	6	587
AUG 23	B+29	2	0	4	6	593
AUG 24	B+30	2	0	3	5	598
AUG 25	B+31	2	0	3	5	603
AUG 26	B+32	1	0	3	4	607
AUG 27	B+33	1	0	3	4	611
AUG 28	B+34	1	0	3	4	615
AUG 29	B+35	1	0	3	4	619
AUG 30	B+36	1	0	3	4	623
AUG 31	B+37	1	0	3	4	627
SEP 1	B+38	0	0	2	2	629
SEP 2	B+39	0	0	2	2	631
SEP 3	B+40	0	0	2	2	633
SEP 4	B+41	0	0	2	2	635
SEP 5	B+42	0	0	2	2	637

## SUPPORT SHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.172 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	REMARKS
010900	2591M	OBSERVED SHOT ABLE FROM A DISTANCE OF 30.5 MILES
011946	2595D	ANCHORED IN VICINITY OF BERTH 369
020600	2595D	UNDERWAY TO SHIFT BERTHS
020635	2695S	ANCHORED IN BERTH 370
040900	2695S	ANCHORED AS BEFORE
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
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 HRS 8 MIN
131200	9999A	CONCLUDING TIME ALONGSIDE PRINZ EUGEN
250835	2591M	ANCHORED AT RONGELAP ATOLL DURING BAKER SHOT
301540	2591M	ENTERED BIKINI LAGOON
301605	2595S	ANCHORED BERTH 370
331450	2595S	UNDERWAY TO SHIFT BERTHS
331544	2594S	ANCHORED IN BERTH QUEEN
380900	2594S	ANCHORED AS BEFORE
491450	2591M	TWO RADSAFE INSPECTORS CAME ON BOARD TO TEST FOR RADIO ACTIVITY AND LEFT AT 1507. ALL WORKING SPACES SAFE FOR ALL PERSONNEL.
501232	2591M	LEFT BIKINI LAGOON ENROUTE KWAJALEIN 19 AUGUST 1946

USS WILDCAT CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	curl 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	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	0	0	0	0
JUL 29	B+4	0	0	0	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	0	11	11	67
AUG 4	B+10	0	0	10	10	77
AUG 5	B+11	0	0	9	9	86
AUG 6	B+12	0	0	8	8	94
AUG 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	0	5	5	118
AUG 11	B+17	0	0	5	5	123
AUG 12	B+18	0	0	5	5	128
AUG 13	B+19	0	0	4	4	132
AUG 14	B+20	2	0	4	6	138
AUG 15	B+21	5	0	4	9	147
AUG 16	B+22	4	0	4	8	155
AUG 17	B+23	4	0	3	7	162
AUG 18	B+24	3	0	3	6	168
AUG 19	B+25	1	0	3	4	172

## SUPPORTSHIP INFORMATION SUMMARY

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>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.457 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

TIME	PLACE	REMARKS
010900	2591M	ANCHORED 1 MILE OFF RONGELAP ISLAND IN RONGELAP ATOLL DURING SHOT ABLE
040615	2591M	ENTERED BIKINI LAGOON - COMMENCED FISHING SURVEY
041255	2599D	MOORED TO USS AJAX IN BERTH #315
042400	2597D	ANCHORED AS BEFORE
250635	2591M	MOORED IN RONGELAP ATOLL AT TIME OF SHOT BAKER
310710	2591M	AT BIKINI ATOLL - CONDUCT FISHING SURVEY OFF BIKINI AT OLL
311410	2599D	MOORED TO USS AJAX
320535	2599D	UNDERWAY WITH YMS-413
320547	2699L	ANCHORED - "C" 15 DEG "B" 143 DEG AMEN ISLAND 245 DE G
320920	2679L	UNDERWAY TO YMS-413 - ANCHORED IN BERTH 2068
321000	2599D	MOORED TO YMS-413 (ESTIMATED TIME)
321227	2599D	UNDERWAY FROM BS-413
321310	2504B	MOORED TO ARD-19
321500	2504B	ENTERED ARD-29
340630	2504B	ARD-29 IN TOW TO BERTH #270A
341108	2698T	ARD-29 ANCHORED IN BERTH #270A
341643	2698T	CAST OFF FROM ARD-29
341655	2795M	ANCHORED OFF ENYU ISLAND - POSITION ESTIMATED
342400	2795M	ANCHORED AS BEFORE
761318	2591M	DEPARTED BIKINI LAGOON IN COMPANY WITH YMS-463; YMS-413; AND YMS-358 ON 14 SEPTEMBER 1946 -- ENROUTE KWAJAL EIN

USS YMS-354 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 THRU 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	5	0	17	22	22
AUG 1	B+7	12	0	30	42	64
AUG 2	B+8	14	0	26	40	104
AUG 3	B+9	9	0	22	31	135
AUG 4	B+10	0	0	20	20	155
AUG 5	B+11	1	0	17	18	173
AUG 6	B+12	2	0	15	17	190
AUG 7	B+13	2	0	14	16	206
AUG 8	B+14	0	0	13	13	219
AUG 9	B+15	5	0	12	17	236
AUG 10	B+16	7	0	11	18	254
AUG 11	B+17	7	0	10	17	271
AUG 12	B+18	6	0	9	15	286
AUG 13	B+19	6	0	9	15	301
AUG 14	B+20	4	0	8	12	313
AUG 15	B+21	4	0	6	12	325
AUG 16	B+22	2	0	7	9	334
AUG 17	B+23	0	0	7	7	341
AUG 18	B+24	1	0	6	7	348
AUG 19	B+25	3	0	6	9	357
AUG 20	B+26	2	0	6	8	365
AUG 21	B+27	0	0	5	5	370
AUG 22	B+28	1	0	5	6	376
AUG 23	B+29	2	0	5	7	383
AUG 24	B+30	0	0	5	5	388
AUG 25	B+31	0	0	5	5	393
AUG 26	B+32	0	0	4	4	397
AUG 27	B+33	0	0	4	4	401
AUG 28	B+34	0	0	4	4	405
AUG 29	B+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	420
SEP 2	B+39	0	0	3	3	423
SEP 3	B+40	0	0	3	3	426
SEP 4	B+41	0	0	3	3	429

SEP 5	B+42	0	0	3	3	432
SEP 6	B+43	0	0	3	3	435
SEP 7	B+44	0	0	3	3	438
SEP 8	B+45	0		3	3	441
SEP 9	B+46	0	0	3	3	444
SEP 10	B+47	0	0	3	3	447
SEP 11	B+48	0	0	3	3	450
SEP 12	B+49	0	0	3	3	453
SEP 13	B+50	0	0	2	2	455
SEP 14	B+51	0		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>	<u>DATE (TIME)</u>	<u>YIELD</u>	<u>TYPE</u>	<u>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: 0.468 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)

PATH REPORT FOR THE USS YMS-358

TIME	PLACE	REMARKS
010900	2591M	ANCHORED OFF RONGELAP ISLAND IN RONGELAP ATOLL AT TIME OF SHOT ABLE
041215	2591M	ENTERED BIKINI LAGOON
041300	2599D	MOORED NEXT TO USS AJAX IN BERTH #207
042400	2599D	MOORED AS BEFORE
250805	2591M	ANCHORED OFF RONGELAP ISLAND IN RONGELAP ATOLL AT TIME OF SHOT BAKER
310632	2591M	ENTERED BIKINI LAGOON
310738	2792M	BEGIN FISHING OPERATIONS - ESTIMATED POSITION
311307	2505M	ESTIMATED POSITION
311330	2599D	MOORED ALONGSIDE USS AJAX
320840	2599D	UNDERWAY FOR FISHING OPERATIONS (ESTIMATED TIME)
320700	2792M	ESTIMATED TIME AND POSITION
321200	2505M	ESTIMATED TIME AND POSITION
321447	2599D	MOORED TO USS YO-132 BESIDE USS AJAX
330530	2599D	UNDERWAY FOR FISHING OPERATIONS
330800	2792M	ESTIMATED POSITION
331300	2505M	ESTIMATED POSITION
331654	2599D	MOORED TO USS WIDGEON BESIDE USS AJAX
340525	2595D	UNDERWAY FOR FISHING OPERATIONS
341000	2792M	ESTIMATED POSITION
341200	2505M	ESTIMATED POSITION
341440	2595X	MOORED TO USS ENOREE
341545	2595X	UNDERWAY
341732	2394K	MOORED TO USS AJAX
342400	2394K	ANCHORED AS BEFORE
361313	2591M	DEPARTED BIKINI LAGOON ON 14 SEPTEMBER 1946 - ENROUTE KWAJALEIN



## USS YMS-358 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 THRU 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	6	0	21	27	27
AUG 1	B+7	10	0	30	40	67
AUG 2	B+8	11	0	26	37	104
AUG 3	B+9	7	0	22	29	133
AUG 4	B+10	3	0	20	23	156
AUG 5	B+11	3	0	17	20	176
AUG 6	B+12	0	0	15	15	191
AUG 7	B+13	0	0	14	14	205
AUG 8	B+14	5	0	13	18	223
AUG 9	B+15	6	0	12	18	241
AUG 10	B+16	6	0	11	17	258
AUG 11	B+17	7	0	10	17	275
AUG 12	B+18	3	0	9	12	287
AUG 13	B+19	3	0	9	12	299
AUG 14	B+20	4	0	8	12	311
AUG 15	B+21	5	0	8	13	324
AUG 16	B+22	4	0	7	11	335
AUG 17	B+23	3	0	7	10	345
AUG 18	B+24	3	0	6	9	354
AUG 19	B+25	3	0	6	9	363
AUG 20	B+26	3	0	6	9	372
AUG 21	B+27	3	0	5	8	380
AUG 22	B+28	2	0	5	7	387
AUG 23	B+29	2	0	5	7	394
AUG 24	B+30	0	0	5	5	399
AUG 25	B+31	0	0	5	5	404
AUG 26	B+32	0	0	4	4	408
AUG 27	B+33	0	0	4	4	412
AUG 28	B+34	0	0	4	4	416
AUG 29	B+35	0	0	4	4	420
AUG 30	B+36	0	0	4	4	424
AUG 31	B+37	0	0	4	4	428
SEP 1	B+38	0	0	3	3	431
SEP 2	B+39	0	0	3	3	434
SEP 3	B+40	0	0	3	3	437
SEP 4	B+41	0	0	3	3	440

SEP 5	B+42	0	0	3	3	445
SEP 6	B+43	0	0	3	3	446
SEP 7	B+44	0	0	3	3	449
SEP 8	B+45	0	0	3	3	452
SEP 9	B+46	0	0	3	3	455
SEP 10	B+47	0	0	3	3	458
SEP 11	B+48	0	0	3	3	461
SEP 12	B+49	0	0	3	3	464
SEP 13	B+50	0	0	2	2	466
SEP 14	B+51	0	0	2	2	468

## 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>	<u>DATE (TIME)</u>	<u>YIELD</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: 0.444 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)

PATH REPORT FOR THE USS YMS-413

TIME	PLACE	REMARKS
010900	2591M	AT RONGELAP ATOLL AT TIME OF SHOT ABLE
041400	2591M	ENTERED BIKINI LAGOON
250835	2591M	AT RONGELAP ATOLL AT TIME OF SHOT ABLE
311200	2591M	ENTERED BIKINI LAGOON (ESTIMATED TIME)
311230	2505M	MOORED STARBOARD SIDE TO YMS-358
320335	2599D	UNDERWAY WITH YMS-354 ALONGSIDE
320555	2699L	YMS-354 ANCHORED 4 TH YMS-413 ALONGSIDE
320900	2699L	UNDERWAY FROM ALONGSIDE YMS 354
320912	2599D	MOORED ALONGSIDE "LS CERL"
330532	2599D	UNDERWAY FROM ALONGSIDE USS CEBU
330610	2305M	COMMENCED FISHING OPERATIONS (ESTIMATED POSITION)
331400	2305M	PROCEEDING TO ANCHORAGE ESTIMATED POSITION
331522	2693M	ANCHORED
331700	2693M	UNDERWAY TO NEW ANCHORAGE
331800	2794M	ANCHORED OFF ENYU CHANNEL (ESTIMATED POSITION)
340546	2794M	UNDERWAY FOR FISHING OPERATIONS (ESTIMATED POSITION)
340840	2693M	ANCHORED (ESTIMATED POSITION)
341340	2693M	UNDERWAY TO NEW ANCHORAGE
341520	2595X	MOORED TO YMS-358
341720	2595X	UNDERWAY TO SHIFT BERTHS
341800	2394K	ANCHORED ALONGSIDE YMS-358
342400	2394K	ANCHORED AS BEFORE
761311	2591M	DEPARTED BIKINI LAGOON ON 14 SEPTEMBER 1946 -- ENROUTE KWAJALEIN
780928	2591M	INSPECTION PARTY FROM USS HAVEN ABOARD FOR RADIOLOGICAL INSPECTION - SHIP DECLARED RADIOLOGICALLY SAFE (LOCATED AT KWAJALEIN ATOLL)

USS YMS-413 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 THRU 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	6	0	16	22	22
AUG 1	B+7	11	0	30	41	63
AUG 2	B+8	6	0	26	34	97
AUG 3	B+9	0	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	0	14	16	191
AUG 8	B+14	0	0	13	13	204
AUG 9	B+15	5	0	12	17	221
AUG 10	B+16	7	0	11	18	239
AUG 11	B+17	7	0	10	17	256
AUG 12	B+18	5	0	9	14	270
AUG 13	B+19	4	0	9	13	283
AUG 14	B+20	0	0	8	8	291
AUG 15	B+21	3	0	8	11	302
AUG 16	B+22	2	0	7	9	311
AUG 17	B+23	0	0	7	7	318
AUG 18	B+24	0	0	6	6	324
AUG 19	B+25	2	0	6	8	332
AUG 20	B+26	3	0	6	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	0	5	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 28	B+34	0	0	4	4	391
AUG 29	B+35	0	0	4	4	395
AUG 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	407
SEP 2	B+39	0	0	3	3	410
SEP 3	B+40	0	0	3	3	413
SEP 4	B+41	0	0	3	3	416

SEP 5	B+42	0	0	3	3	419
SEP 6	B+43	0	0		3	422
SEP 7	B+44	0	0	7	3	425
SEP 8	B+45	0	0	7	3	428
SEP 9	B+46	0	0	7	3	431
SEP 10	B+47	0		3	3	434
SEP 11	B+48	0	0		3	437
SEP 12	B+49	0		7	3	440
SEP 13	B+50	0	0	2	2	442
SEP 14	B+51	0		7	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>	<u>( T I M E )</u>	<u>TYPE</u>	<u>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: 0.441 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 RONGELAP ATOLL AT TIME OF SHOT ABLE
050542	2591M	ENTERED BIKINI LAGOON
250835	2591M	ANCHORED IN RONGELAP ATOLL DURING SHOT BAKER
300140	2591M	ENTERED BIKINI LAGOON
330210	2793M	ANCHORED IN ENYU ISLAND ANCHORAGE - POSITION ESTIMATED
330847	2793M	UNDERWAY
330920	2595S	MOORED TO USS WILDCAT
330935	2595S	UNDERWAY FROM USS WILDCAT
331010	2504M	ANCHORED AT BIKINI ISLAND ANCHORAGE - POSITION ESTIMATED
340815	2504M	UNDERWAY
340938	2698C	ANCHORED IN BERTH #251A
352400	2698C	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	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 THRU 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	0	0	0	0	0
AUG 1	B+7	0	0	0	0	0
AUG 2	B+8	8	0	17	25	25
AUG 3	B+9	16	0	22	38	63
AUG 4	B+10	14	0	20	34	97
AUG 5	B+11	11	0	17	28	125
AUG 6	B+12	10	0	15	25	150
AUG 7	B+13	6	0	14	20	170
AUG 8	B+14	6	0	13	19	189
AUG 9	B+15	5	0	12	17	206
AUG 10	B+16	8	0	11	19	225
AUG 11	B+17	7	0	10	17	242
AUG 12	B+18	3	0	9	12	254
AUG 13	B+19	6	0	9	15	269
AUG 14	B+20	5	0	8	13	282
AUG 15	B+21	5	0	8	13	295
AUG 16	B+22	1	0	7	8	303
AUG 17	B+23	1	0	7	8	311
AUG 18	B+24	3	0	6	9	320
AUG 19	B+25	2	0	6	8	328
AUG 20	B+26	3	0	6	9	337
AUG 21	B+27	3	0	5	8	345
AUG 22	B+28	2	0	5	7	352
AUG 23	B+29	2	0	5	7	359
AUG 24	B+30	2	0	5	7	366
AUG 25	B+31	2	0	5	7	373
AUG 26	B+32	1	0	4	5	378
AUG 27	B+33	1	0	4	5	383
AUG 28	B+34	1	0	4	5	388
AUG 29	B+35	1	0	4	5	393
AUG 30	B+36	0	0	4	4	397
AUG 31	B+37	0	0	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	410
SEP 4	B+41	0	0	3	3	413

SEP 5	B+42	0	0	3	3	416
SEP 6	B+43	0	0	3	3	419
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