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HEADQUARTERS
JOINT TASK FORCE SEVEN
APO [illegible] c/o PM
San Francisco, Calif.

J-3/370.05 9 April 1954

SUBJECT: Reports on Evacuation of Natives and Surveys of Several Marshall Island Atolls

TO: See Distribution

1. Reference is made to letter, this headquarters, J-3/729.3, subject: Radiological Survey of Several Marshall Island Atolls, dated 18 March 1954 (Secret, Restricted Data).

2. Attached herewith for your information and retention are copies of additional reports and memoranda pertaining to the above reference.

3. In addition to the above material, motion picture and still photography was accomplished on various phases of the initial pre-evacuation surveys and on the reception of natives at Kwajalein. Contact black and white prints of the still photography are being prepared as further material to document the native evacuation effort. These prints will not be of professional quality and will be forwarded primarily to indicate the over-all photographic coverage. Distribution will be made approximately 30 April 1954, availability of prints permitting distribution to the following only: C/S USA (Exact), DMA (AEC), DBM (AEC), [illegible] COMTERPACIS, CINCPAC, CINCPACFLT, ChAFSWP, COMNAVSTAFWA. Additional [illegible] in specific sizes and quality, and motion picture coverage, may be [illegible] in accordance with Annex T to CJTF SEVEN Operation Order 3-[illegible]. [illegible] attention is invited to paragraph 2b, Annex [illegible] covering Dissemination and Control of photographic materials by the Atomic Energy Commission and the Department of Defense.

[illegible]

P. W. CLARKSON
Major General, USA
Commander

[redacted]

DISTRIBUTION:

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C/S USA, ExAgt (1 cy)
LASL H Div (1 cy)
HASL, NYCO (c/o Mer [illegible]) (2 cys)
USS RENSHAW (DDE-499) (1 cy)
USS PHILIP (DDE-498) (1 cy)
USS NICHOLAS (DDE-449) (1 cy)

9 Incls:

1. Report by CO USS PHILIP, Ser [illegible], subj: Evacuation of Rongelap and Ailinginae Atolls on 3 Mar 54, dtd 5 Mar 54.
2. Report by CO USS RENSHAW, Ser [illegible], subj: Report of Evacuation of Natives [illegible] Atoll, 4 Mar 54, dtd 18 Mar 1954.
3. Report by CO USS NICHOLAS, [illegible] End by CTG 7.3, Ser 0698 dtd 26 Mar 54, basic ltr ser 049, subj: Radsafe Survey [illegible] Mar 54, dtd 2[illegible] Mar 54.
4. Report by CO USS NICHOLAS, Ser [illegible], subj: Report of Rongelap Survey Trip, 2[illegible] Mar [illegible] dtd 2[illegible] Mar 54.
5. Memo for CJTF SEVEN, subj: [illegible] Rongelap Atoll 26 Mar 54, dtd 3[illegible] Mar 54.
6. M/R: Miscellaneous Radsafe [illegible] Rongerik.
7. M/R: [illegible] Flight [illegible]
8. Drinking Water Samples (Analysis Report).
9. Soil Samples (Analysis Report).

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USS PHILIP (DDE 498)
c/o Fleet Post Office
San Francisco, California

DDE498:VLM:GWA:wk
H2-1
Serial: 001

5 Mar 1954

From: Commanding Officer
To: Commander, Task Group [illegible]

Subj: Evacuation of [illegible] and [illegible] Atolls on 3 March 1954; report of

Ref: (a) COMTASKGR [illegible] Msg [illegible] of March 1954
(b) COM [illegible] Msg [illegible] of March 1954

Encl: (1) [illegible] Rongelap and Ailinginae Atoll
(2) Radiological [illegible] monitor teams, Rongelap and Ailinginae Atolls
(3) Location of water [illegible] Island

1. In compliance with reference (a), the PHILIP got underway from Bikini at 2145M on [illegible] March and arrived and anchored off Rongelap Island in the lagoon at [illegible]M on 3 March. A PBM-5A (VP-29) aircraft, No. 2085, piloted by LCDR [illegible] which previously had been dispatched from Kwajalein anchored about [illegible] yards off the beach of the same island shortly before the PHILIP anchored. Prior to anchoring, the PBM, in good radio communication with the PHILIP, made a thorough reconnaissance flight around the atoll. Also on departure the previous evening, the Commanding Officer of the [illegible] offered much valuable navigational and general information which was of great help to the PHILIP.

2. The beach party including the Commanding Officer, Executive Officer, Radiological Safety Officer and a three man monitoring team proceeded from the PHILIP [illegible] whale-boat [illegible] PBM and picked up Mr. Marion WILDS, civilian representative of the [illegible] Administration Unit, Marshalls Trust Territories of Pacific Islands [illegible] DeBrum, Marshallese interpreter. The [illegible] close-in landing without danger to the boat.

3. The party was met at the beach by [illegible] the Magistrate of Rongelap. Monitoring of the island commenced immediately. On the basis of initial readings it appeared obvious that [illegible] was definitely in order. The Commanding Officer, [illegible] Mr. Wilds with the general picture based on monitoring information, and on being informed that Commander Joint Task Force SEVEN [illegible] that the actual evacuation should be requested by Trust Territory [illegible], Mr. Wilds was very emphatic regarding the need for [illegible] through the interpreter

[illegible] ec
D[illegible] 00.10

ENCLOSURE (1)

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it was explained that it was to the best interests of the Rongelap people to leave the island and that the PHILIP was there for that purpose. Mr. Wilds was present during [illegible] conversation with John the Magistrate and was of much [illegible] also was LCDR V. L. MURTHA, Executive Officer of the PHILIP whose Majuro Island Government background proved very helpful in convincing the Marshallese that they should leave.

4. The information that the people would leave Rongelap was passed very quickly. Each person was asked to [illegible] small handbag as the only baggage since the [illegible] a high dosage on sleeping mats, [illegible], and other personal belongings. It is considered very important that once the [illegible] leader is established and identified that all requests be made through him without exception. This procedure [illegible] the entire operation.

5. It was decided to utilize the [illegible] to transport the elderly and the sick to Kwajalein. John designated [illegible] (16) persons and this party was embarked in the aircraft in about an hour and a half after the party first landed. These personnel are listed in enclosure (1) which is forwarded herewith.

6. Fortunately, the Marshallese were not reluctant to leave the island. The magistrate explained that the people had been sick and he obviously deduced that all of the people would [illegible] provided the necessary medical care. John was apprehensive about the safety of his boat, a 30 foot sloop. The sloop was towed by the ship's whale boat to a better lee. Two anchors were dropped and the boat appeared to be in good holding ground.

7. The forty eight (48) [illegible] were transported via two ship's whale boats to the PHILIP. [illegible] are listed in enclosure (1).

8. De-contamination of the Marshallese [illegible] immediately upon embarkation. Routes had been previously [illegible] and the de-contamination teams on station ready to guide [illegible] to the de-contamination center (after crew's washroom). Clothing was placed in two G.I. cans aft and after a thorough shower [illegible] were readily available at the exit. The [illegible] trousers, dungarees [illegible] contamination could not have been as effective.

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9. Women and children were billeted in the torpedo room and the men provided temporary shelter under a [illegible] rigged on the 01 level between the [illegible]. Cots were [illegible] as seats in both locations. The after [illegible] head and washroom, a short distance from the torpedo room was designated for use by the women and children. The men had the use of the after [illegible] head and washroom. The separation of the Marshallese was [illegible] due to the limited space available in the torpedo room. A [illegible] 24 hour sentry watch, all petty officers, was set at both [illegible] to insure privacy and to assist in any [illegible] made by the Marshallese.

10. All children were provided with clothing after decontamination. The Marshallese went through the regular mess line for meals and had the same ration as the crew. The [illegible] was the least popular. The majority of the people asked for more rice, bread and vegetables. Hot soup was most in demand. Ice cream was the natural favorite of all the children.

11. The contaminated clothing was washed in the ship's laundry with a strong soap solution, dried, pressed and returned within four hours after the party embarked.

12. Sleeping accommodations, although crowded, were considered adequate. Twelve (12) cots and two (2) stretchers were set up in the torpedo room and the remaining deck space covered with kapok life jackets. The men slept on the fantail under the deck awning. Life jackets proved to be comfortable pallets and an excellent insulation against warm or damp decks. With the above arrangements each [illegible] had a sleeping space.

13. The PBM plane Commander reported that he thought he saw some people on Eniaetok Island (Rongelap Atoll). A party consisting of John and Oscar DeBrum, the interpreter, landed on this island [illegible]. A thorough search was made but no Marshallese were found. The Magistrate insured the search party that he was certain that there were no persons there since a boat was not nearby. Monitor [illegible] readings indicated an average of 3.02 Roentgens, with a maximum reading of [illegible] Roentgens. Monitor team statistics are included in enclosure ([illegible]). It was lucky that this island was not inhabited.

14. Six (6) samples of water taken from [illegible] on Rongelap have been forwarded in compliance with reference (b). Approximate locations of wells are indicated in enclosure (5)

[redacted]

[redacted]

15. The ship then [illegible] Ailinginae [illegible]. The Magistrate believed it possible that a party [illegible] Enibuk Island. A party was landed, conducted a thorough search but found no one. The ship remained in the vicinity of Enibuk while [illegible] whale boats proceeded to Sifo Island. A sloop was sighted [illegible] in the lagoon off Sifo Island. The party landed and John the Magistrate once again explained the need for leaving Rongelap. Eighteen [illegible] Marshallese were transported from this island. Both [illegible] John, assured the party that there were no Marshallese on any of the other islands and the evacuation was considered complete. [illegible] p was anchored off the island in a good [illegible]. The same procedure for handling the 18 evacuees from Sifo were followed as described in the preceding paragraphs.

16. The PHILIP departed from Ailinginae [illegible] on 3 March and arrived at the Naval Station Kwajalein at [illegible]. The Marshallese were disembarked during the morning of [illegible] and removed to the Naval Dispensary. On arrival, the PHILIP was [illegible] by Commander, Naval Station, Kwajalein, and [illegible] Joint Task Force SEVEN.

17. In spite of the willingness of the people to leave their homes there was understandable concern over the [illegible] of the two sloops left behind at Rongelap and Sifo. These [illegible] a community asset for hauling copra and returning the [illegible], medicines and clothing during the [illegible] field trip ships are not available. There was a considerable amount of copra in a drying shed on Eniaetok and a smaller amount [illegible]. It was most disheartening to the Magistrate to leave the copra [illegible] he himself had prepared the copra on Eniaetok last week. All [illegible] including about one hundred chickens and [illegible] pigs were [illegible] on Rongelap. Two dogs were also left on the island. Since the people [illegible] an estimate of the duration of their evacuation, the [illegible] the above items will no doubt increase as the absence [illegible] longer.

18. It is recommended that aircraft [illegible] check the condition of the two sloops at Rongelap and Sifo. It is further recommended that some consideration be given to the [illegible] of livestock, copra and personal belongings on Rongelap, Sifo, [illegible]. There is a possibility that these animals could be of much value [illegible] scientific research.

19. The Marshallese were [illegible], most cooperative, never demanding and [illegible]. It was a distinct pleasure for the crew of the PHILIP to have been afforded the opportunity to assist these quiet people in [illegible].

G. W. ALBIN

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CTG 7.1

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PRIVACY ACT MATERIAL REMOVED

[redacted]

A LIST OF [illegible] FROM RONGELAP ISLAND
ON 3 [illegible]

NAME	SEX	AGE
1.	Male	66
2.	Male	75
3.	Female	83
4.	Male	70
5.	Female	63
6.	Male	28
7.	Female	62
8.	Female	52
9.	Female	6
10.	Female	17
11.	Female	19
12.	Female	74
13.	Female	78
14.	Male	30
15.	Male	48
16.	Female	58

PRIVACY ACT MATERIAL REMOVED

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A LIST OF [illegible] EMBARKED ABOARD THE USS PHILIP (DDE 498)
FROM [illegible]

NAME	SEX	AGE
1.	Male	40
2.	Male	43
3.	Male	37
4.	Male	36
5.	Male	34
6.	Male	31
7.	Male	30
8.	Male	20
9.	Male	15
10.	Male	12
11.	Male	7
12.	Male	7
13.	Male	6
14.	Male	6
15.	Male	4
16.	Male	13
17.	Male	2
18.	Male	2
19.	Male	2
20.	Male	1
21.	Male	2
22.	Male	4
23.	Female	59
24.	Female	53
25.	Female	50
26.	Female	38
27.	Female	37
28.	Female	31
29.	Female	30
30.	Female	28
31.	Female	26
32.	Female	17
33.	Male	60
34.	Female	4
35.	Female	7
36.	Female	7
37.	Female	18
38.	Female	15
39.	Female	15
40.	Female	13
41.	Female	9
42.	Female	3
43.	Female	4
44.	Female	3
45.	Female	2
46.	Female	15
47.	Male	20
48.	Male	33

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PRIVACY ACT MATERIAL REMOVED

[redacted]

A LIST OF [illegible] (C[illegible] 438)
FROM [illegible] ON 5 MARCH 196[illegible]

NAME	SEX	AGE
1.	Male	[illegible]
2.	Male	[illegible]
3.	Male	42
4.	Male	4
5.	Male	57
6.	Female	56
7.	Female	14
8.	Female	10
9.	Female	3
10.	Female	19
11.	Female	2
12.	Female	17
13.	Female	16
14.	Female	2
15.	Female	16
16.	Female	37
17.	Female	25
18.	Female	35

PRIVACY ACT MATERIAL REMOVED

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RAD [illegible] REPORT

([illegible] Natives)

I. Data [illegible]

		Island	READINGS ([illegible] MR/HR)		Inhabited	Time of Readings
			Avg.	Max.		
AILINGINAE RONGELAP	ATOLL	Rongelap	[illegible]	[illegible]	Yes	031045M
		[illegible]	[illegible]	[illegible]	No	031245M
	ATOLL	Eniba[illegible]	[illegible]	[illegible]	No	031545M
		[illegible]ifo	[illegible]	[illegible]	Yes	031715M
Totals		4			[illegible]	- - - -

II. [illegible] ([illegible])

[illegible] follows.

[illegible]

ISLAND	Before Decontamination	After Decontamination
[illegible]	[illegible] MR/HR	[illegible] MR/HR
[illegible]	[illegible] MR/HR	[illegible] MR/HR

NOTE #[illegible] [illegible] over after de- [illegible] employed due to its [illegible] to radiation. [illegible] than 50 MR/HR did [illegible] clothing due to the [illegible]

NOTE #[illegible] [illegible] MR/HR.

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[illegible]

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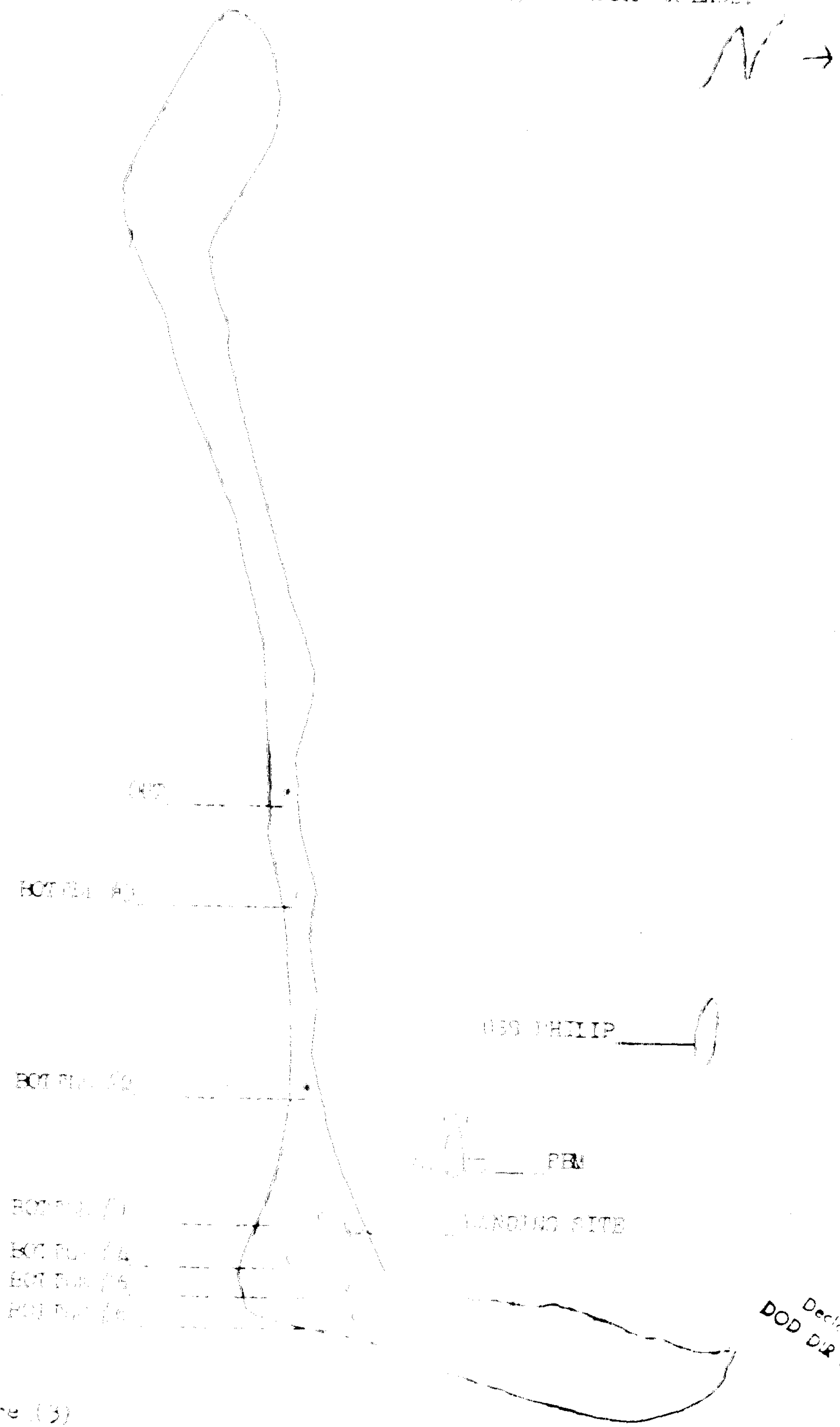
LOCATION O ... ISLAND.



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Enclosure (3)

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USS RENSHAW (DDE-499)
Fleet Post Office
San Francisco, California

In Reply Refer to
DDE499/LHA:rec
A9
Serial: 038
18 March 1954

[redacted]

From: Commanding Officer, U.S.S. RENSHAW (DDE-499)
To: Commander [illegible]

Subj: Report of [illegible] of Natives, [illegible] Atoll, [illegible] March 1954

Ref: (a) CTG 7.3 [illegible]
(b) CTG 7.3 [illegible]

Encl: (1) [illegible] of [illegible] of Utirik Island Natives

1. In accordance with reference (a), enclosure (1) is submitted herewith.

2. A limited number of photographs were taken of some phases of the evacuation by the ship's official photographer. These are not being processed and it is later planned to submit prints as a supplement to this report.

3. The four drinking water samples mentioned in enclosure (1) as obtained from the regular [illegible] area, Utirik, were delivered to CJTF 7 on 8 March 1954 via Major [illegible], USA, [illegible].

/s/
[illegible] ALFORD

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CONFIDENTIAL
ENCLOSURE (2)

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Enclosure (2)
to CTG 7.3 ltr
Serial 0591

AFWL/HO

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INFORMAL NARRATIVE OF EVACUATION OF NATIVES FROM

UTIRIK ATOLL, MARSHALL ISLANDS

Having received orders [illegible] March 1954, to proceed to Utirik Atoll, the Renshaw, immediately departed from the patrol area north of Eniwetok Atoll and [illegible] south of Bikini enroute. Speed was adjusted to arrive at daylight the next day and the 400 mile voyage was completed without incident.

Meanwhile, [illegible] Renshaw. Charts, sailing directions, tide tables and all [illegible] information on the Atoll were searched and avidly studied. Although [illegible] that the natives would be evacuated [illegible] the night of the 3rd, plans were firmed up for handling the people. [illegible] schemes were put forward but the final plan was [illegible] with the [illegible] and assistance of L. K. Tryba, BMC, USN, [illegible] territories west of the Marshalls and had experience [illegible] of natives.

Although the [illegible] was detailed to assist Renshaw, her estimated arrival was not until [illegible] plans were made for the possibility of [illegible] on board Renshaw [illegible] the reported 180 natives of the Atoll.

The approach [illegible] from the westward and north of Taka Atoll which [illegible] Utirik. It was sighted at about 0630M on the morning of 4 March and course [illegible] southeastward to pass between the two atolls. [illegible] triangular shaped Utirik Atoll we passed close [illegible] in order to get a look at Utirik Passage. [illegible] this channel inasmuch as Sailing Directions [illegible] larger than a PC should make the attempt. [illegible] to determine if charted beacons were [illegible] the feasibility of our boats entering [illegible] should it be found too dangerous on the [illegible], it would have even been possible [illegible] about 1600M when our 18 ft. drag aft [illegible] the charted depths were correct and [illegible] channel and coral heads visible. It was [illegible] this channel for the C.O. would [illegible].

Upon [illegible] eastward to skirt the reef along [illegible] the best lee from wind and surf [illegible] the weather was exceptionally good with light [illegible]. At 0735M the ship hove to at about [illegible] the largest of the Atoll and on which all the [illegible]. At this time trust territory officials [illegible] had an ETA been received. In view of our [illegible] daylight it was decided

[redacted] [redacted] ENCLOSURE (1)

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to proceed at once [illegible] officials arrived or if necessary with [illegible] might find a missionary, a pidgin English [illegible] ashore.

Consequently [illegible] 0740 [illegible] LCVP [illegible] was launched and a beach party [illegible] with the [illegible] Officer, LCDR W. R. Easton, USN, in charge. He [illegible] possible, organize the natives for evacuation [illegible] location and means for the evacuation. [illegible] Officer, monitor, hospitalman, [illegible] shoved off, a second LCVP was launched with the Gunnery Officer [illegible] who was to search along the reef [illegible] boat handling [illegible] the evacuation.

Now, [illegible] execution of our plans for receiving the natives on board. [illegible] were rigged on the fantail with side strips from the deck to the [illegible] additional life lines were rigged for [illegible] of children. [illegible] and vertical accesses to the fantail were [illegible] rigged where necessary to ensure privacy [illegible] washroom and head [illegible] (largest on board) [illegible] for their decontamination inasmuch [illegible] for this purpose. An outside salt water [illegible] was provided for their clothes and sufficient [illegible] shirts, [illegible], etc., were raised by an appeal to the crew [illegible] natives. A pig-pen was fashioned by closing off [illegible] to tether chickens to life lines [illegible] amongst the populace.

Meanwhile, the Executive Officer [illegible] approached the south shore of the island [illegible] about 1500 [illegible] of the eastern tip. The island here and elsewhere [illegible] perimeter of table reefs extending some 40 yds [illegible] waves produced a surf of medium size and [illegible]. Having selected a point where the surf [illegible] the best spot, the Executive Officer [illegible] one-man rubber raft (we kept it after [illegible]), which had a line attached [illegible] towards the beach he appeared to [illegible] and some unseen force resulting in no progress. [illegible] were evoked at sight of the Executive [illegible] whirling the raft 180° around but making no progress. [illegible] determined that the line from boat to the [illegible] anchoring him to seaward. By this time [illegible] of them swam out and helped him [illegible].

[illegible] arrived from Kwajalein, [illegible] in the [illegible] towards

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Utirik Is. After [illegible] with the plane and ascertaining the [illegible] Officer was directed to cross over to the [illegible] raft or any means to land the plane passengers. [illegible] cooperative natives, the X.O. with [illegible] outrigger canoe towards the seaplane in the [illegible] the plane it taxiied away apparently not [illegible] It had been suggested to the plane that [illegible] passengers in the lagoon, he might try landing [illegible] ship. Upon hearing this suggestion, the [illegible] one try, a tremendous bounce, [illegible] the ship about 0915M.

Meanwhile, the [illegible] Officer was instructed by [illegible] to a small cove where the natives said [illegible] and safety. This was done but [illegible] the reef. Ease and safety did not seem [illegible] did appear less dangerous. By using the [illegible] worked up to the reef edge where the [illegible] and waded ashore to the same [illegible] Morning" from every native large and small. [illegible] Officer had returned to the beach from the [illegible] plane passengers and advised the native [illegible] evacuation. Some of the natives who seemed [illegible] broken English were of great assistance in this. [illegible] advised by the X.O. of the necessity for [illegible] of Utirik Island and that native boats [illegible] The Gunnery Officer in the LWB, after [illegible] the south leg of the atoll, reported [illegible] landing places of any kind.

After the [illegible] of the beach party, it was returned to the ship [illegible] the reef. It arrived in the vicinity [illegible] the plane and take aboard its passengers. [illegible] Trust Territory representative, [illegible] public relations civilians attached to [illegible] on board and procurement of [illegible] to the beach meeting the LWB [illegible] radioman with a portable SCR-[illegible] radio [illegible] This party was met by the Executive Officer [illegible] for the village. The seaplane departed [illegible]

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ENCLOSURE (1)

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While this was going on the [illegible] team were making their survey with [illegible]. The first readings taken were on the seaward side of the island [illegible] intensities of 110 mr (with and without beta shield) were found [illegible] of 120-130 mr (with and without shield) were [illegible] along the [illegible] connecting the seaward side of the island to the [illegible]. Upon arrival at the village, several natives were [illegible] with the following readings common to all; over all body 100 mr (with and without shield), [illegible] 100 mr (with and without shield), gonads [illegible] with shield and [illegible] without shield, feet 115 mr with shield and 120 mr without shield. [illegible] the readings in the air over the entire [illegible] it is believed that the 100 mr readings [illegible] background intensity effects.

Other items [illegible] in the village and their intensities were; thatched roofs 125 mr with shield, 130 mr without shield, 4 water samples from wells 100 mr with and without shield, all food with exception of coconuts 100 mr with and without shield, [illegible] form of preparation ranged from 130-150 without shield, [illegible] mr with shield, 130 mr without shield. [illegible] the undergrowth and grass areas surrounding the village [illegible] mr with shield, 170 mr without shield, were found [illegible], indicating concentrated and trapped contaminating particles. [illegible] way via projecting coral pieces some [illegible] into the [illegible] the water gave a 50 mr reading with and without the shield. [illegible] was assigned the task of collecting water [illegible] 4 samples of drinking water from 4 of [illegible] reservoirs in the village. It is believed that [illegible] of the water was due to the roofs over each [illegible].

Upon arriving at the village the [illegible] Officer with Trust Territory official again informed the natives through the interpreter of the necessity for evacuation. The interpreter [illegible] to scare the natives or unduly rush them. [illegible] a few words, the natives really moved though [illegible] too badly. It was carefully [illegible] pigs, chickens, dogs, [illegible] or anything [illegible] with the Trust official in which the degree of contamination [illegible] return of the natives were discussed, [illegible] of the official, to leave the livestock [illegible] to this and after being reassured that [illegible] safe until their return, began streaming [illegible] taken along rarely exceeded two [illegible] woven bedding mat.

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DOD DIR [illegible]

ENCLOSURE [illegible]

[redacted] [redacted]

Declassified
DOD DIR 5200.10

[illegible]

[redacted] [redacted]

At this time [illegible] the [illegible] by the X.O. that the evacuation would [illegible] raft was requested for use in shuttling [illegible] through the surf to the boats standing off about [illegible] yards. [illegible] 1040M the boat arrived with the raft [illegible]. By this time the majority of [illegible] and ready to go. Women, children and [illegible] first, with their possessions, [illegible] and assistance were realized from [illegible], willingness and ability to swim [illegible] reduced the number of ship's personnel [illegible] ation was about half completed but [illegible] flooding and the surf was kicking up. [illegible] ly hazardous and two raft loads of [illegible]. The coral was chewing up the [illegible] the raft and in a radio consultation [illegible] consideration was given to [illegible] the lagoon side. Since this would [illegible] was fraught with danger as [illegible] the end in sight, it was decided [illegible] and aged were already gone [illegible] few coral cuts. Another raft was dispatched [illegible] though less people were loaded on each [illegible].

Ten [illegible] required to complete the evacuation of [illegible] left the beach at about 1245M leaving [illegible] ever seen. At 1251M all the natives were [illegible] because the wind and surf continued to increase. The native chief [illegible], has been repeatedly asked how many [illegible] if we had them all. He was insistent that [illegible] on other islands of the atoll, and [illegible]. He first said there were [illegible] card index file to prove it. [illegible] two infants had died [illegible] this [illegible] up to date. [illegible] further questioning indicated he was [illegible] yet unborn babies. The last figure of [illegible] and was concurred in by the chief [illegible] as follows: men [illegible], women [illegible], [illegible].

At about [illegible] were hoisted, course was set [illegible]. At about 1345M we [illegible] the [illegible] to assist us but there was nothing [illegible] and return to [illegible].

ENCLOSURE (C)

[redacted] [redacted]

[redacted]

It did not seem [illegible] around by dividing them up between the [illegible] crowding was evident. The Munro had [illegible] offered his services which fortunately were not needed. [illegible] know he was available however, should any of the [illegible] and payable while on board.

Reception and handling of the [illegible] board worked out fairly well and generally [illegible] monitored as they came on board and readings were around [illegible] mr/hr which [illegible] substantially lower than the average of [illegible] readings on the [illegible] This indicated that wading out to the rafts [illegible] presence of fall-out material on feet and clothing. [illegible] were routed through the showers as soon as they came on board [illegible] It was decided to feed all of them before [illegible] Serving lines were set up on the fantail [illegible] of food and giving the natives paper plates, [illegible] perhaps from the excitement or [illegible] They did better on the bread, mashed potatoes and [illegible]

After [illegible] the Trust Territory [illegible] made some suggestions for changing and [illegible] careful partitioning and segregation of [illegible] washrooms. He explained that under conditions of [illegible] surroundings the women are extremely modest. [illegible] measures and considerable resistence was [illegible] cajoling we managed to get all about [illegible] These were the aged, infirm and sick. With [illegible] mr/hr it was decided not prudent to force the [illegible] the problem of clothing arose. We had sufficient [illegible] planned to run all their clothes through the laundry and give them [illegible] to put on before leaving the ship. But [illegible] encountered. We tried but they couldn't [illegible] and the women wanted no part of the [illegible] since they averaged only about [illegible] situation did not call for [illegible] drastic measures. [illegible] with the Trust Territory officials [illegible] on his recommendations. [illegible] questioning of the interpreter as to [illegible] convinced us that [illegible] make them up.

By late afternoon they were [illegible] and generally quiet except [illegible] showers. They were bright-eyed [illegible] of the women, as is their [illegible] they came aboard.

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[redacted]

ENCLOSURE (1)

[redacted]

73

[redacted] [redacted]

We fixed up a [illegible] for them of [illegible] and rice with tomatoes and lima beans mix[illegible]. By this time [illegible] had gotten used to their surroundings [illegible] their [illegible] their appetites. They really stowed away th[illegible]. This was follow[illegible] ice cream and cookies, heavily sweetened grap[illegible] some bright [illegible] candy we had left over from last Christma[illegible]. [illegible] and all seemed contented and happy. [illegible] there was not the slightest reaction of any [illegible]. It should be remembered that [illegible] of these natives had [illegible] off the atoll and as far as is known [illegible].

The night [illegible] without [illegible] they seemed to rest well on their straw mat[illegible]. The weather [illegible] and since we were proceeding downwind at a speed of only [illegible] knots [illegible] practically no motion of the ship. Next morning they [illegible] a big breakfast of hot cakes, bacon, [illegible]. After [illegible] rubber necking as we entered Kwajalein [illegible] of mooring to the pier, the natives were [illegible] at about [illegible] buses in custody of ComNavStaKwaj. As they went [illegible] could not help but observe and admire the [illegible] dignity of th[illegible] human beings and their naive but forthright and [illegible]istic attitude [illegible] life. These seemed to be expressed in a conversation with the [illegible] chief through the interpreter. The chief was asked what they had [illegible] replied with gestures indicating a large explosion. He was then asked what they thought of it and his reply was [illegible] expected that the world was coming [illegible], "[illegible] start over again."

[redacted] [redacted]

[redacted]

[redacted]

USS NICHOLAS (DDE-449)
[illegible]
San Francisco, California

DDE449/rw
[illegible]
[illegible]
20 Mar 54

From: Commanding Officer
To: Commander Task Group [illegible]

Subj: Radsafe Survey [illegible] March 1954

1. The Task Group [illegible] survey party and [illegible] Wilde, Trust Territory representative, [illegible] 0?? [illegible] March and boarded NICHOLAS shortly thereafter. [illegible] Commander Joint Task Force SEVEN [illegible] 060??Z, were made available to Dr. Scoville's party. Dr. Scoville [illegible] the Commanding Officer that all reports of gamma intensities [illegible] be reported only to Commander Joint Task Force SEVEN. He [illegible] requested that no other commands be made information addressees. [illegible] indicating results of Radsafe survey [illegible] Dr. Scoville, were addressed accordingly. [illegible] 22 March Dr. Scoville's party [illegible] to Parry Island.

2. The following [illegible] Mr. Wilde accompanied working parties [illegible] where native property was secured [illegible] by him.

a. [illegible] March 1954

(1) [illegible] Island.

(a) [illegible] property left in the open, that [illegible] inside.

(b) [illegible] killed as possible menace to livestock.

(c) [illegible] above high [illegible] along with [illegible] and placed in [illegible]

(d) [illegible] of flour were open [illegible] placed outside as food for pigs and chickens.

(e) [illegible] were placed under eaves of houses [illegible] for livestock.

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[redacted]

25

[redacted]

(e) All livestock appeared to be in good condition. It is believed that sufficient water will be available although a shortage of food is expected to develop in the near future.

(f) Water and soil samples were taken as directed by Task Group 7.1 personnel and intensity readings taken.

(2) The islands listed in sub paragraph (3) through (15) are all uninhabited except for parties of natives that go from Rongelap to make copra, collect [illegible] birds and fish. [illegible] property found. Intensity readings were taken by Task Group 7.1 personnel.

(3) [illegible] Island.

(4) [illegible] Island.

(5) [illegible] Island.

(6) [illegible] Island.

(7) [illegible] Island.

(8) [illegible] Island.

(9) Kabelle Island.

(10) [illegible] Island.

(11) [illegible] Island.

(12) [illegible] Island.

(13) [illegible] Island.

(14) [illegible] Island.

(15) [illegible] Island

b. Utirik Atoll, [illegible] March 1954

(1) [illegible] Island.

(a) [illegible] canoes were beached above high water mark.

[redacted]

[redacted]

(b) [illegible] in the water, [illegible] and property left [illegible].

(c) Water catchments were provided for livestock by placing [illegible]

(d) [illegible] livestock.

(e) All livestock appeared to be in good condition.

(f) Water and soil samples were obtained and intensity levels taken.

(3) [illegible]

(a) Uninhabited - intensity levels taken.

c. [illegible]

(1) [illegible] Island:

(a) Uninhabited - intensity levels taken.

d. [illegible]

(1) [illegible] Island:

(a) All [illegible] personnel were loaded along with a ship's working party. [illegible] were dumped in the sea. [illegible] as directed by [illegible]

(b) Water and soil samples were obtained and intensity levels taken.

(2) The islands [illegible] sub paragraph (3) through (6) [illegible] inhabitants. [illegible]

(3) [illegible] Island.

(4) [illegible] Island.

(5) [illegible] Island.

(6) [illegible] Island.

[redacted]

[redacted] [redacted]

c. [illegible]

(1) [illegible]

(a) [illegible] Rongelap Island [illegible] etc. were [illegible] clothing, tools, covered with [illegible] palm fronds, and [illegible]

(b) [illegible] in the [illegible] moved to a safe anchor- [illegible] limited [illegible] due to the [illegible]

(2) [illegible]

(a) [illegible] taken.

(3) [illegible]

(a) [illegible] taken.

3. Navigation and [illegible] Information

a. Rongelap [illegible]

(1) [illegible] through South Pass and North east Pass. [illegible] because soundin[illegible] was attempted good. [illegible] fixes, using [illegible] were [illegible] part of the atoll is [illegible] running.

(2) [illegible] by motor whaleboat. [illegible]

b. [illegible]

(1) [illegible] through the [illegible] to find and [illegible] with very little [illegible] landing [illegible] of low tide. [illegible] against the reef, [illegible] water [illegible] the reef [illegible]

[redacted]

[redacted]

[redacted]

[redacted]

(2) The [illegible] fish, turtles and sea birds.

c. Rongerik Atoll:

(1) The ship [illegible] into the atoll because of the poor navigational [illegible] available. [illegible] believed that a shallow draft vessel should [illegible] passage.

(2) Small [illegible]. Extreme care should be exercised [illegible] coral heads are present and [illegible] very [illegible].

d. [illegible] Atoll:

(1) Only [illegible]. A shallow draft vessel should have very little [illegible]. [illegible] were very poor.

(2) Small [illegible].

e. Utirik Atoll:

(1) The four [illegible] have been replaced by two black buoys. [illegible] Trust Territory AKL makes regular entry into [illegible]. The beacons on and around Utirik Island [illegible].

(2) Small [illegible] watch should be maintained for coral heads.

4. Recommendations and Summary:

a. Survey [illegible] is somewhat inefficient in that Rongelap [illegible], that can be entered and navigated safely [illegible] of islands that can be covered in a given time. [illegible] the atolls were difficult due to heavy swells [illegible] it is believed that the [illegible] of a DDE is the most [illegible] missions. For operations subsequent to [illegible] smaller class ship of shallow draft be used. [illegible] in some cases [illegible],

[redacted]

[redacted]

DDE449/m..
P22

[redacted]

b. Make [illegible] wherever possible. This permits [illegible] operation and helping to keep instruments dry.

c. Maintain radio communication [illegible]. In this respect, this command used SCR [illegible] which were [illegible] type radios available. Communications [illegible] an SCR 608 or similar small battery [illegible] must be used if possible.

d. It was found [illegible] to provide the boats with overlays of the atolls showing [illegible] islands and passes.

e. Provide [illegible] food, water, [illegible] and rifles. The last for protection [illegible] over board.

f. [illegible] Do not [illegible] boat remain [illegible] of party.

g. Beach [illegible] of island [illegible] possible.

h. It was found [illegible] to cover all of the islands in each atoll in the time allotted. Rough weather [illegible] boat runs between islands in atolls slowed up operations. [illegible] scientific personnel designated the islands [illegible] made on all so designated.

i. Working [illegible]. Each working party was required to remain in sight of [illegible] officer and Mr. Wilds. As far as could be [illegible] molested or pilfered.

j. It [illegible] cumulative dosage received by any one person [illegible] worn by all personnel ashore, or [illegible] NAIROBI for developing

/s/ [illegible]
[illegible]

Copy to:
[illegible]

[redacted]

[redacted]

U. S. S. NICHOLAS (DDE-449)
[illegible]
San Francisco, [illegible]

DDE449/mw
P72
Ser: 05[illegible]
28 March 1954

[redacted]

From: Commanding Officer
To: Commander [illegible] Group 7.[illegible]

Subj: Rongelap Survey [illegible] 25 - 26 March 1954; report of

1. The USS NICHOLAS (DDE-449) departed [illegible] Atoll at [illegible], 25 March 1954 for R[illegible] Atoll in accordance with Commander Joint Task Force [illegible] 231131Z and Commander Task Group 7.3 [illegible] of March 1954. The following personnel from [illegible] Group 7.[illegible] were embarked:

Dr. Lauren [illegible]
Dr. Thomas [illegible]
Dr. [illegible]ward [illegible]
Dr. Ralph [illegible]
Dr. Paul [illegible]
Dr. Thomas [illegible]
Mr. William [illegible]
Mr. Pasquale [illegible]
Major Charles [illegible], USA[illegible]

2. The ship arrived off the South [illegible] RONGELAP Atoll at 260100M and put a whaleboat [illegible] to meet the plane arriving from Kwajalein with [illegible] party.

3. The ship then proceeded to North [illegible] RONGELAP Atoll, entered and anchored. Dr. [illegible] and his party departed the ship at 0830M.

4. The plane from Kwajalein arrived off RONGELAP at 0905M, was met by the whaleboat. Dr. [illegible], Mr. [illegible] Public Health Service Officers, three Natives [illegible] transported to the beach. The plane was [illegible] hundred (700) yards off shore from the village [illegible].

5. Personnel from the NICHOLAS [illegible] to accomplish the following: [illegible] five chickens; obtain soil, food and vegetation samples. [illegible] was killed and an autopsy was performed on the spot. [illegible] and other samples were placed in cages and [illegible] party departed RONGELAP at 1500M, 26 March 1954. The [illegible] departed RONGELAP Island and proceeded north to [illegible] and [illegible] Island to [illegible] RadSurvey Team accompanied this [illegible] Islands. Dr. Donaldson's party worked in the [illegible] Atoll, collecting fish, [illegible], birds, [illegible] samples. One member of RadSurvey Team accompanied this [illegible] party [illegible] of Northern Islands. It was not possible [illegible] due to the unexpected departure of the [illegible] directed by Commander Task Group 7.3 260217Z [illegible] 1954.

ENCLOSURE (4)

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[redacted]

DHE4[illegible]/mw
1/2
[illegible] 1954

5. Dr. B[illegible] expressed the opinion that his mission had been accomplished to his satisfaction. Dr. [illegible] stated that his mission has been accomplished satisfactorily. Mr. [illegible], Trust Territory Representative, requested that [illegible] be beached whenever practicable. All boats of [illegible] have been beached by NICHOLAS.

6. Prior to the ship's departure, [illegible] radios were obtained by Mr. [illegible] Schneider from [illegible]. These radios were very [illegible] on the first trip. It is recommended that this type [illegible] by ships on future trips if they are required to operate [illegible] a long distance from the ship. [illegible]

7. The ship's departure from [illegible] Atoll was delayed until 262130[illegible] because the [illegible] failure on returning from [illegible] where they were [illegible].

8. The ship departed [illegible] Atoll at 270[illegible].

[illegible]

Copy to:
COMJOINTTASKFOR[illegible]
COMCOSTDIV[illegible]

[redacted]

Declassified
DOD DIR 5200.10

[redacted]

MEMORANDUM FOR: [illegible] SEVEN [redacted] 30 March 1954

SUBJECT: [illegible] Trip to Rongelap [illegible], [illegible] 1954

1. R [illegible] trip, conducted [illegible] (CG [illegible]) [illegible]. Purpose of subject [illegible]:

a. [illegible] Rongelap Marshallese.

b. [illegible] of Rongelap.

c. [illegible] quoted by [illegible] contaminated top soil [illegible]

d. Collect samples of [illegible] and vegetation.

e. [illegible] at Rongelap village.

2. The undersigned [illegible] and was responsible [illegible] representative [illegible] make an overall [illegible]. Since the NICHOLS will [illegible] by the project [illegible] on 1d and 1e will be made [illegible] fined to 1b and [illegible] this report are con-

3. It is [illegible] 1b and 1d was more limited than had [illegible] will be clear from the re- port of the [illegible] became R-1 after the work started. Thanks [illegible] and management of Capt. Joseph Eliot and [illegible] much more was accom- plished than might [illegible]. Under these circumstances, 1c and 1e [illegible], but 1a had to be omitted.

4. The [illegible] survey [illegible] by Mr. F.R. Schiavone of TG 7.1, TU-7, [illegible] instruments. Readings on Rongelap [illegible] during the [illegible] on the other islands [illegible]

Island	[illegible]
Rongelap	[illegible] standard position estab- lished by [illegible] Survey
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	200
[illegible]	[illegible]

ENCLOSURE [illegible]

AFWL/HO

[redacted]

[redacted]

On Rongelap Island, the readings in the [illegible] appeared to be 10%-15% less than outside. [illegible] the readings at ground level were about 70% of those at head level. [illegible] near the cistern [illegible] about 30 mr/hr [illegible], about 10-1[illegible] mr/hr.

5. The [illegible] island well covered with bushes [illegible] but without palm trees. It had been planned to [illegible] but this could not be done without [illegible].

6. Special [illegible] should be made of the [illegible] T.N. Schi[illegible], who did [illegible] on the [illegible] survey.

s/ [illegible]
s/ [illegible]
[illegible], LASL

[redacted]

MEMORANDUM FO[redacted]

SUBJECT: Miscellaneous Radsafe [illegible] erik (Surveys conducted by CTG 7.4)

[illegible]

[illegible] March [illegible] MIKE

Living Area Readings

Mess hall interior	40 - 100 mr/hr	Waist level
Hospital interior	50 -- 75 mr/hr	Waist level
Walk from hospital [illegible]	[illegible] - 110 mr/hr	Waist level
Store room [illegible]	[illegible] - 55 mr/hr	Waist level
Exterior [illegible]	[illegible] - 150 mr/hr	Waist level
General Area [illegible]	[illegible] - 150 mr/hr	Waist level

Weather Station [illegible] Readings

Exterior [illegible]	[illegible] - 100 - 160 mr/hr	Waist level
Interior [illegible]	60 - 75 mr/hr	Waist level
Interior [illegible]	60 - 60 mr/hr	Waist level

Army Site Readings

General area	140 - 190 mr/hr	Waist level
Interior tent	70 - 80 mr/hr	Waist level
Adjacent to [illegible]	160 - 180 mr/hr	Waist level

19 March [illegible] MIKE

Landing on beach	42 mr/hr	Waist level
Living area	60 mr/hr	Waist level
Inside mess hall	22 mr/hr	Waist level
Inside dispensary	[illegible] mr/hr	Waist level
Inside barracks	[illegible] mr/hr	Waist level
[illegible] end of island [illegible]	47 mr/hr	Waist level
Along road to [illegible] 40 [illegible]	40 mr/hr	Waist level
Inside weather building	[illegible] mr/hr	Waist level
Work area outside building	60 mr/hr	Waist level
Army area [illegible]	40 mr/hr	Waist level
Inside [illegible]	40 mr/hr	Waist level
Inside tent	[illegible] mr/hr	Waist level

[illegible] MIKE

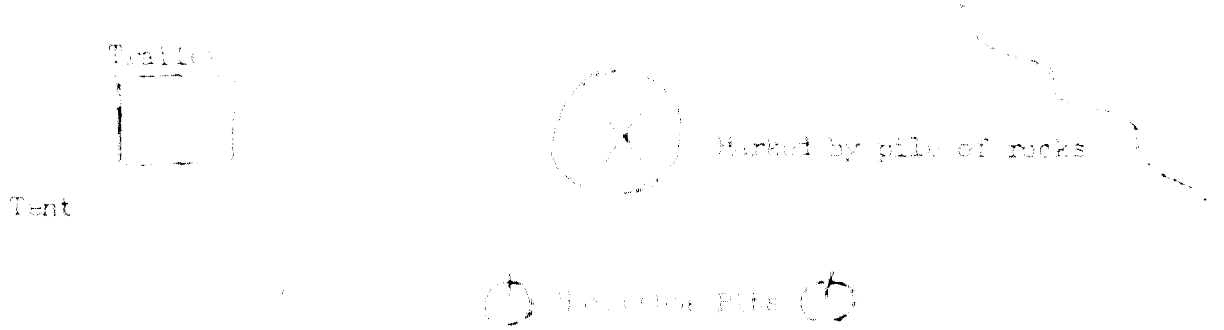
Inside weather building	21 mr/hr	Waist level
Living area [illegible]	60 mr/hr	Waist level
Inside barracks	[illegible] mr/hr	Waist level
Inside [illegible]	[illegible] mr/hr	Waist level

Inclosure 6 [redacted]

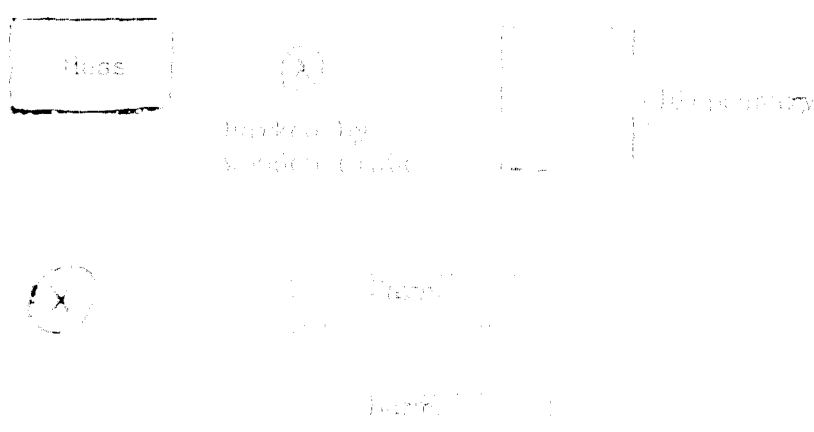
[redacted]

Army Site	Out	[illegible]	Waist Level
	[illegible]	[illegible]	Waist Level
Weather Site	Out	[illegible]	Waist Level
	[illegible]	[illegible]	Waist Level
Living Site	Out	[illegible]	Waist Level
	In	[illegible]	Waist Level

ARMY AREA ([illegible])



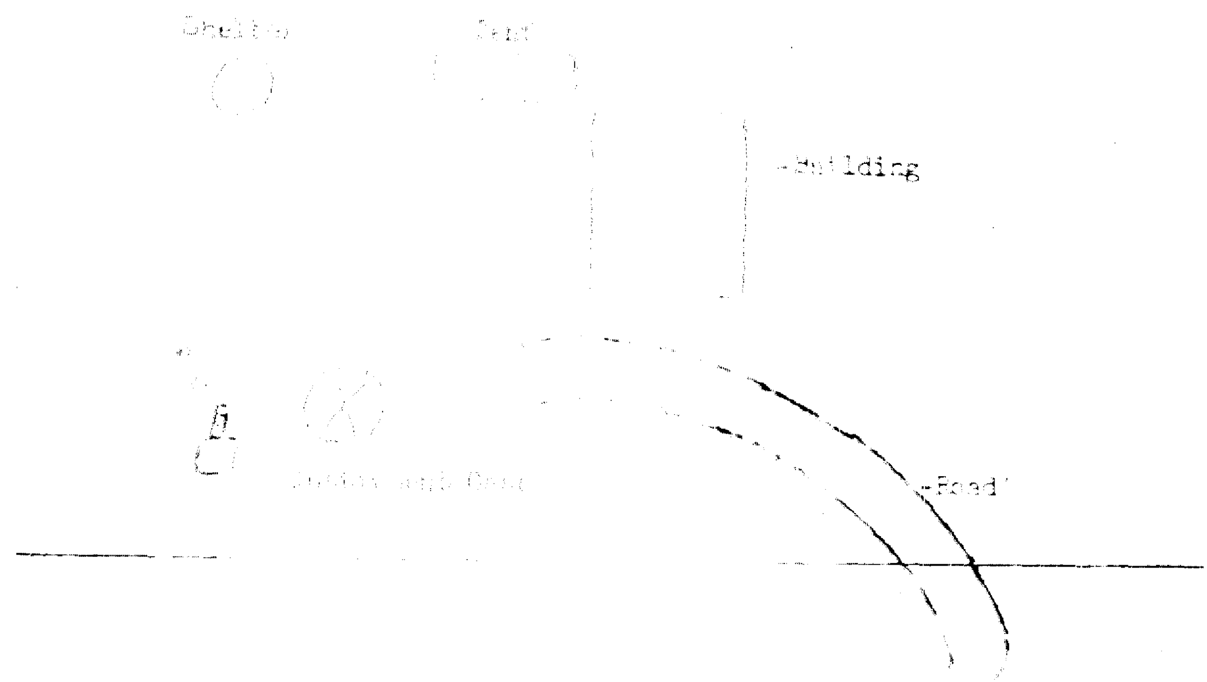
LIVING AREA ([illegible])



[redacted]

[redacted]

WEATHER SITE ([illegible])



(s) R. A. House
R. A. HOUSE
Lt Col., USAF
Ch. Tech Br, J-3
JTF SEVEN

Declassified
DOD DIR 5200.10

[redacted]

[redacted]

MEMORANDUM FOR [illegible]

SUBJECT: Kwaj[illegible] Flight [illegible]

1. NYOO-Kwaj[illegible] Flight [illegible] of an aerial survey at approximately 2[illegible] feet altitude over the following atolls north of Kwajalein: Lae, Ujae, [illegible], Bikini, [illegible] Rongelap, Rongerik, Taongi, Bikar, Utirik, [illegible]. The aircraft are equipped with scintameters [illegible] radiation measuring instruments with a w[illegible] ground contamination from altitudes of 2[illegible] to 5[illegible] feet.

2. Following [illegible] 1954, Flight Able was flown on the following [illegible] (In mr/hr ground contamination)

Island (Atoll)	[illegible]	302030Z to 310208Z
Lae (Lae)	0	0
Ujae (Ujae)	0	0.2
Wotho (Wotho)	0	1.7
Enibuk (Ailinginae)	[illegible]	26
Rongelap (Rongelap)	[illegible]	78
Rongerik (Rongerik)	[illegible]	58
Sybilla (Taongi)	[illegible]	0.4
Bikar (Bikar)	[illegible]	15
Utirik (Utirik)		7
Taka (Taka)	[illegible]	7
Kapen (Ailuk)	[illegible]	2.4
Jemo (Jemo)	[illegible]	2.4
Likiep (Likiep)	[illegible]	1.0

(S/[illegible]) [illegible] HOUSE
[illegible] Col., USAF
[illegible] Br, J-3
[illegible]

INCLOSURE 7 [redacted]

[redacted]

DRINKING WATER SAMPLES (Analysis Report)

SAMPLE NO.	COLLECTION DATE	TIME	LOCATION	DESCRIPTION	d/m/ml (ON SAMPLE DATE)
W1	6 March	0830	Likiep Island Likiep Atoll	Collected from largest cistern on heaviest populated island of atoll	77
W2	6 March	1030	Jemo Island	Composite #2	550
W3	6 March	1200	Ailuk Island Ailuk Atoll	Composite #1	1020
W4	7 March	1330	Wright Island	Composite #1	2500
W5-8	4 March	0900	Utirik Atoll	Composite of 4 water samples taken by USS RENSHAW	430
W11	5 March	1600	Ormed Island Wotje Atoll	Composite ½ from catchbasin	100
W12	6 March	1130	Naven Island Maloelap Atoll	1 from well	67
W13	6 March	1130	Naven Island Maloelap Atoll	1 from catch-basin	31
W9	6 March	1630	Wotho Island Wotho Atoll	1 from well (catch-basin dry for 1 month plus)	7
W10	7 March	1000	Ujelang Island Majuro Atoll	Tap Water	1
W11	3 March	0900	Rongelap Island	Composite of 4 bottles. Chart included to show location of bottles on Rongelap Island	94,000 120,000 47,000 No. 1 No. 6 24,000 11,000 63,000
W12	8 March		Rongelap Island	Central cistern of village	50,000
W13	8 March		Rongelap Island	Cistern water from south part of island	73,000
W14	8 March		Rongelap Island	Cistern water from northern most village	8,000

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INCLOSURE #6

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[redacted]

DRINKING WATER SAMPLES (Analysis Report) Cont'd

SAMPLE NO.	COLLECTION DATE	TIME	LOCATION	DESCRIPTION	d/m/ml (ON SAMPLE DATE)
W15	8 March		Rongelap Island	South cistern in village	60,000*
W16	9 March		Utirik Island	Cistern	7,200*
W17	9 March		Utirik Island	Cistern	33,000*
W18	10 March		Eniwetak [illegible] Rongerik Atoll	Distillation water	66*

* computed as of 5 March

[redacted]

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[redacted]

SOIL SAMPLES (ANALYSIS REPORT)

SAMPLE NO.	COLLECTION DATE	TIME	LOCATION	DESCRIPTION	d/m/gm (ON SAMPLE DATE)
S1	6 March	[illegible]	Likiep Island, Likiep Atoll	Upper layer bare soil in random spots unsheltered by trees or shrubs etc.	23,000
S2	6 March	[illegible]	[illegible] Island	Same as above	13,000
S3	6 March	[illegible]	Ailuk Island, Ailuk Atoll	Same as above	23,000
S4	7 March	[illegible]	Mejit Island	Same as above	30,000
S5	5 March	[illegible]	[illegible] Island, Wotje Atoll	Composite of 5 samples (1 beach, 3 mid-village, 1 back village)	15,000
S6	5 March	[illegible]	[illegible] Island, [illegible] Atoll	Composite of 2 samples (1 mid-village, 1 half-way to beach)	4,300
S7	6 March	[illegible]	[illegible] Island, Maloelap Atoll	Composite of 4 samples (2 from village, 2 from path to beach)	5,500
S8	6 March	[illegible]	Wotho Island, Wotho Atoll	Composite of 3 samples (1 by well, 2 mid-village)	2,400
S9	7 March	[illegible]	Dalap Island, Majuro Atoll	Composite of 4 samples (near Admin Bldg)	950
S10	7 March	1200	Utirik Island	Composite of 3 samples	270,000
	(Collection date of S10 is [illegible], probably 3 March 1954 by [illegible] Survey Party. Analysis value given is corrected to 7 March.)				
S11	8 March		Rongelap Island	Soil from north part of island	1,300,000**
S12	8 March		Rongelap Island	Center portion of island	7,400,000**
S13	8 March		Rongelap Island	1 mile north of Rongelap village	460,000**

INCLOSURE #9 [redacted]

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SOIL SAMPLES (ANALYSIS REPORT) CONT'D

SAMPLE NO.	COLLECTION DATE	TIME	LOCATION	DESCRIPTION	c/m/gm (ON SAMPLE DATE)
S14	8 March		Rongelap Island	[illegible] south eastern of village	630,000**
S15	8 March		[illegible] Island, Rongelap Atoll		35,000,000**
S16	8 March		Eniwetak Island, Rongerik Atoll		3,200,000**
S17	8 March		Kabelle Island, Rongelap Atoll		20,000,000**
S18	9 March		[illegible] Island		5,600,000**
S19	9 March		[illegible] Island		280,000**
S20	10 March		Eniwetak Island, Rongerik Atoll		1,200,000**
S21	10 March		Sifo Island, Ailinginae Atoll	temporary village	84,000**
*S22	9 March		[illegible] Island	[illegible], windward side	160,000**

* d/m/gm of plant ash (equiv. to [illegible] d/m/gm plant as received)

** Computed as of [illegible] March

Soil values may be roughly [illegible] to curies per square mile by dividing by [illegible] [illegible] multiplying by 6000.

[redacted]