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## **HEADQUARTERS**

JOINT TASK FORCE SEVEN  
APO 187 (HOF), c/o Postmaster  
San Francisco, California

J-3/370.05

1 May 1954

SUBJECT: Miscellaneous Reports Related to the Atomic Detonation on 1 March 1954

TO: See Distribution

## 1. References

- a. JTF SEVEN letter, J-3/729.3, subject: Radiological Surveys of Several Marshall Island Atolls, dated 18 March 1954 [REDACTED]

b. JTF SEVEN letter, J-3/370.05, subject: Reports on Evacuation of Natives and Surveys of Several Marshall Is. and Atolls, dated 9 April 1954 [REDACTED]

2. Attached herewith for your information and retention are copies of additional material pertaining to the above references. The limited number of contact prints available permits distribution of sets to the following only: C/S USA (ExAgt), DMA (AEC), DBU (AEC), HICOMINTERPACIS, CINCPACFLT, CHAFSWP, COMNAVSTAKW/W. Additional prints may be obtained indicated in reference 1b.

J. W. CLARKSON

Major General, U.S. Army  
Commander

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1. Preliminary Report (Eisenbud) to DEI (IEC) (Bugher) on Contamination of the Fukuryu Maru and Associated Problems in Japan (undated).
  2. Chart: The Route or Position of Fukuryu Maru V.
  3. H/R: Additional Ground and Air Radsafe Survey Data During Period BRAVO to BRAVO plus 5 days.
  4. Black and White Contact Prints (247 separate prints) Relative to Surveys, Evacuation and Care of Rongelap and Utirik Natives (1 set to each command or agency indicated above)

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MOD DIP 5200  
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CLASSIFICATION CANCELLED

J-3/370-Q  
SUBJECT: Miscellaneous Report on the Chinese Nuclear Detonation on 1 March  
1954

1 May 1954

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AMMUNO

JOHN C. BUCHER, MD

MERRIL EISENBUD

CONTAMINATION OF THE FUKURYU MARU AND ASSOCIATED PROBLEMS  
IN JAPAN: PRELIMINARY REPORT

I have recorded some of the observations made during my visit to Japan to assist in the various problems arising out of the mishap to the Fukuryu Maru. I am sending this along to you at this time because you will no doubt want a preliminary report prior to my return to the states in about 2 weeks.

This memorandum is intended to augment the report that Dr. Morton will submit to you. I have attempted to limit myself to factors other than those associated with the climatic phase of the problem, with which Dr. Morton's group are concerned.

THE INCIDENT

The mishap which befell the Fukuryu Maru became known to the Embassy and the world on March 16 through reports in the Japanese press. This was two days after the 100-ton fishing vessel had returned to its home port of Yaizu. The facts of the incident, as determined by the Foreign Office and communicated (1) to the Ambassador, are as follows:

(1) The course of the vessel from its departure on January 27 to its return to Yaizu on March 14 is plotted in Figure No. 1. At 0412 hours on March 1 a streak of light reported by the crew is believed to identify the time of detonation. The vessel's position was approximately  $11^{\circ} 53' 10''$  north and  $166^{\circ} 34\frac{1}{2}'$  east. This position is only a few miles from the easternmost limit of the Marshal Islands danger area in effect at that time.

(2) Two blasts in succession were heard about 7 or 8 minutes after the light had been seen. The crew is reported to have become apprehensive and began at that time to haul in their fishing lines, an operation which continued until 1030 hours, at which time the vessel headed north "to get out of the area".

(3) At about 0700 on March 1, ashes began to fall, turning the deck white. The position of the vessel at this time is given at  $11^{\circ} 56\frac{1}{2}'$  north and  $166^{\circ} 42\frac{1}{2}'$  east. The ashes kept falling until 1100 at which time the position of the vessel was estimated at  $11^{\circ} 56' 10''$  north and  $166^{\circ} 45'$  east.

(1) Aide Memoire of March 27

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SECRET  
DIP 5200.10  
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SUBJECT: Black and White Contact Prints Relative to Survey  
and Care of Rongelap and Utirik Natives

PHOTO NO.	DATE TAKEN	LOCATION	EXPLANATION
22-1071	5 Mar 54	Rongelap	Native holding Church Service.
22-1072	5 Mar 54	Rongelap	(5) with native boy (boy in surp.)
22-1073	5 Mar 54	Rongelap	Native holding Baby, Capt.
22-1074	5 Mar 54	Rongelap	Native worker prepare for decontamination
22-1075	5 Mar 54	Rongelap	Native holding J.C.R. I. and background (background gray).
22-1076	5 Mar 54	Rongelap	Native holding J.C.R. (green background (background gray)).
22-1077	5 Mar 54	Rongelap	Native holding Baby Mother with baby (surp.).
22-1078	5 Mar 54	Rongelap	Native wife (Uticik) in compound.
22-1079	5 Mar 54	Rongelap	Native man with children in compound.
22-1080	5 Mar 54	Rongelap	Native mother with baby drinking coconut.
22-1081	5 Mar 54	Rongelap	Native father with baby (surp.).
22-1082	5 Mar 54	Rongelap	Native pointing with native kids
22-1083	5 Mar 54	Rongelap	, Rongelap, A03, AKI.
22-1084	5 Mar 54	Rongelap	Native holding Baby Capt., Gordon, Rongelap.
22-1085	5 Mar 54	Rongelap	Native admiring native woman with baby.
22-1086	5 Mar 54	Rongelap	Native admiring young native girl
22-1087	5 Mar 54	Rongelap	Native admiring native man with baby (surp.).
22-1088	5 Mar 54	Rongelap	Native holding Baby Capt., Rongelap.
22-1089	5 Mar 54	Rongelap	Native admiring native man with baby.
22-1090	5 Mar 54	Rongelap	Native admiring native man with baby.

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(U) ~~SECRET~~ At 00 hours, the result limited to ~~SECRET~~ was as follows:

(5) In the following two or three days, all the crew reported slight headaches and some of them were nauseated for 3 or 4 days; evidence of burns on "exposed" parts of the body began to appear.

In response to certain questions which the Ambassador asked the Foreign Service, the following information was received. It sheds some light on the sequence of events during the days following the return of the Fukuryu Maru to Japan, but before the ship had come to the attention of the Japanese.

(1) The crew first contacted the Fishermen's Union, and the Director of the Fisherman's Union, on the day of their arrival, drew members the news seriously affected, consulted a solicitor of the Fisherman's Union.

(2) Two of the visitors, Mr. and Mrs. [redacted] who were in more serious condition left the living room March 20, 1945, because they visited Doctor Shisize at the Tokyo University Hospital.

(3) Professional health services - The services of the physician who signed the certificate of birth on March 16 and on the basis of his findings at the time of the examination constitutes a physician who has signed the certificate of birth.

## THE ROLE OF THE MAMMALS IN ECOLOGY

During the latter half of March the Japanese press was fed continually with sensational statements from Japanese Scientist. The motivations of the Japanese were never quite understood by us but the following factors may be enumerated as sufficient to account for the express in dealing with them.

(1) In a long private conversation that I had with Dr. Tsurumi at his home on the evening of March 16, he was frank in stating his apprehension that the American scientists would deny him and his associates personal recognition due them for their accomplishment in the diagnosis and treatment of the fishermen. He referred frequently to his experience in 1945 when he lead the team of Japanese scientists sent from Hiroshima and Nagasaki only to have his work interrupted by the U.S. military investigators who undertook their own studies. Mr. Tsurumi would not accept my assurance that in the present situation it was the desire of the American scientists to assist the Japanese and that all of our findings would be available to them and could be used at their discretion for their political actions.

Dr. Tsuzuki was outwardly friendly to me, Mr. Tamm and myself until the time of his departure for China in March '41. Despite this, the lack of cooperation continued to be manifested on the part of the Japanese investigators. I do not know whether this is because we misjudged Dr. Tsuzuki's friendliness, or because he really harbored ill-will towards his Japanese colleagues.

(2) There was much evidence of resistance among various Chinese political groups. In particular, the staff in Chongming, which had been captured by the Communists, were initially attempting to establish the government of the National Republic of Neutral China, headed by Dr. Wang Fa-chi. Moreover, the Chinese Communists at Fushun, where all but two of the prisoners were hospitalized, exhibited a definite anxiety for various reasons other than the political, e.g., the Chinese held back their communication with the American captives, may have been influenced by their knowledge that the Americans proposed that the Chinese be repatriated to Tibet.

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(3) Many of the accepted procedures of modern American medical practice seemed strange to the Japanese, and their concepts were strange to us. For example, access to patients by any physicians was denied for several days because the Japanese physicians found their patients to be in a highly excited state and preferred not to disturb them. Japanese physicians indicated on several occasions that the taking of duplicate blood smears by Japanese and American investigators was an unnecessary duplication, and an unreal that the patient should not be expected to undergo.

In my initial conference with the Japanese scientists I was forced to the conclusion that they were not well equipped to deal properly with the radiological aspects of the problem. For example:

(1) Some of the top scientists took the position that because a new kind of bomb was involved, the problem itself was a new one, and that unless they know all about the bomb, they could evaluate neither the injury to the fishermen nor the aspect of long-range contamination of Japan and its fishing crews throughout the Pacific.

(2) They were quick to identify qualitatively some of the radioactive isotopes in the ash and immediately concluded that deposition of these radio-isotopes in the tissues of the men was the prime factor in their medical status. This decision was reached without benefit of radio-chemical urine analyses of the patients. This procedure which was beyond the capability of their laboratories is of course a prerequisite to understanding the amount and kind of fission product absorption that actually occurred.

(3) The University of Tokyo group administered parenterally a massive dose of ash to one mouse, and following sacrifice 12 hours later, determined by radiography that radioactivity was present in the mouse. The activity of the dose was not measured. The fact that the radiation was detected by the scientists in the skeleton of the mouse was widely publicized as evidence for their conclusion that the patients were carrying dangerous internal deposits of radioactive isotopes.

As individuals, the scientists seemed anxious to cooperate. In the initial conversations with them they freely asked for help and seemed gratified at some of the things that we could do for them. My participation on the American team was limited to the radiological aspects of the case and only incidentally to the patients themselves. Unfortunately the nature of Dr. Morton's participation required that he be given direct access to the patients and this the Japanese consistently refused to grant. As the days went by and the Japanese became more resolute in their decision to deny access to the patients, other areas of the problem became infected by the uncooperative atmosphere. This will be mentioned in subsequent portions of the report.

#### OFFERS OF ASSISTANCE TO THE JAPANESE

When I arrived in Tokyo on March 29 Mr. Justice Hull already offered the Japanese the full facilities of the American War Casualty Commission. General Hull had likewise offered the facilities of the Far East Command. These offers were accompanied by a spirit of sympathy and the desire to assist the Japanese investigators in their efforts to evaluate the incident and to restore the health of the fishermen. At a meeting with the

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Japanese scientists and government officials on March 24, I made a further offer, on behalf of the Atomic Energy Commission, to provide whatever facilities were available for evaluation of the radiological factors involved in the incident. I repeated the assurances repeated earlier by Dr. Morton that we wished sincerely to be of assistance, that our participation was not motivated (as some Japanese suggested) by the opportunities for scientific studies, and that whatever data we obtained would be turned over to the Japanese investigators to be used by them in any way they saw fit.

At this point it would be desirable to list the radiological studies which had been already made by the Japanese. These studies are of interest because they indicate the extent of Japanese capabilities in this field, and define the extent to which our facilities would be helpful to the Japanese.

(1) Using a Geiger Pipe, they measured the radioactivity of the Fukuryu Maru. These data appear completely satisfactory and prove to be in good agreement with measurements made with American calibrated equipment.

(2) They measured radioactivity of the fish and fishermen, using portable survey equipment. However, their equipment was not calibrated and their data were given in counts per minute as determined by the original factory calibration.

(3) They determined that the ash recovered from the vessel was radioactive using an end window GM tube and scaler. Their counting system was not calibrated and they reported counts per minute with no knowledge of the factor required to convert their data to standard units.

(4) They completed a qualitative radiochemical analysis of the ash and reported the following: Sr 89, Y91, Zr95, Nb95m, Nb95, Ru103, Rh106, Sb127, Te132, I131, I132, Ba140, La140. Cell 1, Cell 2. ("recently they have completed a semi-quantitative analysis for a few isotopes").

(5) They had scanned the bodies of the fishermen with a GM probe.

(6) They had administered a dose of radionuclides to a mouse, as described earlier.

(7) Using an immersion type GM tube, they had demonstrated radioactivity in the urine of 10 fishermen. As before, their equipment was not calibrated and the absolute activity could not be determined.

With this as the status of their investigation at the time of my arrival, and following several hours during which I acquainted the Japanese with our experience in this field, I offered the following services to them:

(1) Complete radiochemical analysis of 24 hour urine collections from all patients. In view of the importance of this analysis in evaluating the status of the patients, I urged that these samples be retained immediately and assured them that in one week it would be possible to give them a report for the constituents of principal biological importance. I explained the need for serial samples and suggested that collections be made at weekly intervals. They agreed readily to accept this service.

**ACTION:** This offer was made on March 24. On March 26 we obtained urine from two patients. On April 1 we obtained urine from 5 more. We have not obtained urine from the remaining 16 patients despite our repeated attempts to do so.

(2) I offered to scan the fishermen for radiation using two scintimeters that I had available.

**ACTION:** I have been unable to do this because they have not permitted the American team to have access to the patients.

(3) In response to the Japanese request I offered to provide a report on the biologically significant radio-isotopes present in the ash.

**ACTION:** Dr. Nakaizumi gave me a small amount of deck sweepings from the Fukuryu Maru. This I have sent to the Health and Safety Laboratory for future study. The composition of the ash was actually known to the Commission from analysis performed by the Japanese on the material obtained from the Fukuryu Maru prior to my visit. Authorization for transmission of this information to the Japanese was communicated to me in telegram No. 2199 from the Secretary of State to the Ambassador. I transmitted this information to Dr. Kobayashi on April 7.

(4) I offered to arrange for animal studies which would provide useful information on absorption and metabolism of the various radiochemical components of the ash.

**ACTION:** The Japanese reported the extent of the total amount of ash recovered is 50 millocuries. They now deny that this much is available and have no inventory of the material. Except for the small amount of ash turned over to me by Dr. Nakaizumi and a similar amount which I recovered on a subsequent visit to the Fukuryu Maru, no ash has been made available to us.

(5) In response to Japanese requests, I offered to recommend monitoring procedures for the tuna inspectors.

**ACTION:** Monitoring procedures was devised but I deferred the question of maximum permissible contamination until more information became available on the extent and type of contamination. I agreed to stand by until the first contaminated tuna were found by inspection at which time I would go to the scene of inspection and recommend specifically on the basis of my own observations whether the batch should be accepted or rejected. As noted elsewhere in some detail, the Japanese themselves invited me to examine tuna which was allegedly contaminated.

**SPECIAL PROBLEMS ARISING OUT OF THE INCIDENT**

The mishap to the Fukuryu Maru created a number of problems but in related problems. Of these, the most urgent was the clinical status of the 23 fishermen, a subject with which Mr. Hartman is exclusively concerned and about which he will report separately. Other problems which required attention were:

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- (1) Contaminated Tuna.
- (2) Apprehension of long-range contamination of Japan and its fishing grounds.
- (3) Radiological factors affecting the fishermen.
- (a) Estimating the dose (mrem).
- (b) Estimated dose from internal infections.

Contaminated Tuna

Some of the Japanese Government officials are already referring to the latter half of March as the "great tuna panic". The origin of this panic both in the United States and Japan is worthy of careful study. The extent of the tuna consumption in the United States and Japan declined during the second half of March is now known to me at this time. For a day prior to my departure from New York on March 19, and for 2 weeks following my arrival in Tokyo on March 20 the subject of radioactive tuna was a subject of popular conversation. When one considers the reaction of the informed American public to the possibilities of contamination of tuna it is not surprising that the Japanese were stampeded into apprehension over the immediate prospects of their eating radioactive tuna and the long-range prospects of their fishing grounds being ruined.

(A) Tuna Fishing Industry of Japan

The Japanese fishing fleet at the present time consists of about 1,000 vessels operating out of ten major ports. The annual value of the tuna catch approximates \$26 million. The principal export species is albacore. Sixty percent of the landed albacore catch went to Japanese canners and forty percent was shipped abroad in freezers. Sixty percent of the albacore are caught in the summer season which extends from May through July. During this season, the fishing grounds are located relatively close to the Pacific coast.

During the winter months, January through March, the Japanese vessels range far out to sea. The winter season accounts for forty percent of the annual catch.

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(B) Contaminated Tuna in Japan

The Fukuryu Maru landed at fiance on the 10th of March of 28,000 pounds of tuna. We must accept the fact that these fish were excessively contaminated and that the destruction of the entire catch of these

11. An excellent report of technical nature on the Japanese tuna fisheries in Japan is report no. 141 dated 1950 by the Natural Resources Section of FAO in Manila, Philippines.

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fish was a wise one. There is reason to believe that contamination was confined to the surface of the fish and occurred when the radioactive ashes fell and entered the ships hold.

With the decision of the United States Food and Drug Administration to monitor incoming shipments of tuna, the shipping companies operating out of Japan initiated a requirement that the Japanese certify export shipments as being free of radioactivity.

When I arrived in Japan on March 22, the Japanese had already monitored their first outgoing shipment of frozen tuna. The Ministry of Welfare undertook to have its sanitation inspectors trained in the use of geiger counters and began the routine inspection of both incoming and outgoing tuna at five ports. All vessels were instructed to return to one of these ports. Five geiger counters were obtained from the Far East Command and loaned to the Japanese. In addition, they purchased approximately the same number from various sources in Japan.

On March 24, at a conference with the Japanese Government officials, they asked for my recommendation for maximum permissible contamination. They also asked that I recommend the type of examination that should be made of the fish.

Because of my unfamiliarity with the mechanical details of handling tuna shipments, I suggested that I be permitted to study tuna loading operations scheduled for the following day. Thereupon it was arranged that I should accompany Japanese officials to Yokonama where the Batan was being loaded with frozen albacore.

Tuna shipments involve many fish and it is not an easy matter to monitor properly with inexperienced personnel and only a few survey instruments. Based on my inspection of the Batan, I suggested that every tenth fish be monitored for about 1 minute by passing an open window GM probe over the surface of the fish, paying particular attention to the gills. I also instructed them to insert the probe into the mouth of the tuna and into the abdominal incision through the flesh.

There remained the question of criteria for rejection of fish found to be contaminated. Again it is not a simple matter to evaluate the risk to a consumer of tuna from measurements made in this way. I informed the Japanese that I was unable to propose a realistic figure without some study. On the other hand it was my belief that significantly contaminated fish were not likely to be found. Low level fall out to the skins of the fish was, of course, a possibility. This seemed to be of little significance in view of existing cannery practices which strips the skins from the fish when processing begins. I told the Japanese I would be standing by in Tokyo, that they should continue to work on the list of criteria proposed, and that when and if contaminated tuna were found I should be advised and given the opportunity, immediately, to make a first hand inspection of the fish. My recommendations will be subject to what I found.

No contaminated tuna have been brought to my attention. Newspapers have occasionally reported incoming shipments of contaminated fish but the Japanese had not requested that I make any examination of them.

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The following sequence of events illustrates some of the difficulties we have had:

(1) On March 31 we read in one of the English language newspapers of two fishing vessels that were contaminated. The Embassy called the Ministry of Foreign Affairs. It reported the following information by telephone:

(a) The Koei Maru, then at the port of Misaki, 35 degrees, 22 minutes north, 138 degrees, 19 minutes east on March 28 its surface of the ship was reading 243 counts per minute, the catch 50 counts per minute and the crew 50 counts per minute. The fish had been unhooked awaiting a decision as to their safety.

(b) The Myojin Maru was at Shiogone. On March 1 it was at 29 degrees, 8 minutes north, 177 degrees, 19 minutes east. The surface of the ship was reading 50 to 600 counts per minute, the fish 56 to 84 counts per minute, and the crew 50 to 90 counts per minute.

(2) The Embassy informed the Ministry of Welfare of my interest in viewing the ships and fish and told them a special plane would be available to fly me to the two ports. The Foreign Office was requested to arrange for access to the vessels and was invited to send whoever they wished to designate with me on this trip. A flight was scheduled for early on the morning of April 2.

(3) Around noon on April 1 the Foreign Ministry called and advised that the Myojin Maru had left Shiogone that morning, destination was not known, and that the fish had been disposed of in an unknown manner. The Embassy informed the Foreign Ministry that, this being the case, we would limit our trip to Misaki.

(4) At 4 PM on the afternoon of April 1 the Foreign Minister again called to inform the Embassy that the Koei Maru had left the port of Misaki one hour before it dumped its contaminated catch at sea. The Embassy asked the Foreign Minister to call the vessel back inasmuch as it was only one hour off port but the Embassy stated this could not be accomplished.

To summarise the tuna situation, I am of the belief that no significantly contaminated tuna have arrived in Japan except for the catch from the Fukuryu Maru. Rigorous inspections procedures will undoubtedly disclose certain amounts of low level radioactivity on the surface of the tuna but the significance of this is minimized by the practice of skinning tuna prior to canning. In the meantime the market has stabilized and tuna representatives of American tuna importers have informed us that their companies are no longer concerned with the problem.

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Apprehension of Long Range Contamination of Japan and its  
Fishing Grounds

Japanese apprehensions over the possibility of long range radiological contamination were very similar to those we encountered in the United States as a result of NPG operations.

A difference in Japan is due to the fact that none, if any, of the counting equipment is calibrated, GM tubes are used without shields, and under conditions where the background count is apt to be highly variable. This, coupled with the fact that they do not know the background activities of such things as soil and biological materials, makes it very difficult to evaluate the reports. Many of the reports of "high" falling in various parts of Japan are undoubtedly dust against walls that occur normally in any industrial area from time to time. Reputable scientists have examined samples of potassium-rich soil and have reported their date is gross counts without any reference to normal soil background. For this reason I find it very difficult to take seriously the frequent public report of 50 to 100 counts per minute for the tiny sample size of samples reported from time to time.

At my conference with the Japanese scientists and government officials on March 24, I explained the procedures we use in the States for measuring fallout. I urged them to use similar procedures for the sake of uniformity and offered to loan them the equipment we used. They seemed eager to accept and I requested a sets of equipment which has since arrived from the States. However, since the arrival of this equipment, I have delayed giving it to the Japanese because in their present state of mind little good could come of it. I do believe, however, that when the present confusion subsides, it will be useful for the Japanese to maintain a fallout monitoring network and we should cooperate with them to the fullest extent.

In a conference with Dr. Kobayashi on March 26, I informed him of my conversation with Dr. Bugher and his offer in behalf of the Atomic Energy Commission to provide financial support for marine biological studies directed at the long range contamination of the Pacific. Dr. Kobayashi, through his interpreter, expressed his appreciation for this offer but did not pursue the matter further and has not approached me since.

With regard to fallout on the Japanese islands themselves, it is to be remembered that the position of these islands in relation to possible sites of weapons testing is such that the Russian testing program is not to produce more fallout than occurs in the Marshalls or Nevada.

Estimating the Radioactive Body Load

I doubt that it will be possible to make a satisfactory estimate of either the Beta or Gamma dose the Japanese received in the ash fall. The ash fell in such quantities that the deck of the ship was white and there was sufficient material to detect visible footprints. Unfortunately this is the limit of our information on how much ash fell and how long it remained on the ship. The Japanese washed the decks in order to remove the ash and according to their report their washing was effective. When the vessel arrived in Valparaiso much of the ash had been removed.

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Measurements made by various methods between March 20-26 are in agreement. It is curious that the Beta-Gamma dose rate is about 1. This would indicate that the bulk of the ash had probably penetrated to the porous wood structure of the dock, thus absorbing the Betas. The Gamma radiation over most of the ship was approximately 40 m.r. per hour when the ship arrived in port. If we extrapolate this back to H + 3 hours, the time the ash began to fall, the integrated Gamma dose is about 100 R. Of course, the ash was falling from H plus 3 hours to about H plus 9 hours. If we take the mid-point of this period as the start of exposure we find the exposure is about 70 R. This, however, estimates the whole body Gamma radiation from residual debris still on the ship when the first measurements were made. The actual dose could have been 2, 10, or even 100 times higher depending on how much ash was washed off the ship and at what time.

We have made a number of discreet inquiries in the hopes that photographic film might have been available aboard the ship and might possibly be used as a dosimeter. All efforts to date have been negative.

#### Deposition of Internal Emitters

There was an urgent requirement to evaluate the extent to which fission products had been absorbed into the tissues of the fishermen. As mentioned earlier, Dr. Nakaidzumi had concluded from his mouse experiment that the prognosis for the fisherman was adversely affected by the probability of excessive deposition of long-lived bone-seeking isotopes. The Japanese scientists were desperately looking for an agent to mobilize these isotopes and Dr. Lewis believes that they had administered EDTA to the patients, despite the fact that urine analysis was beyond their capability and they were therefore unable to determine either the need for EDTA or the effect produced by it. Apart from the fact that they were unable to undertake urine analysis at that time, it is also evident that they did not understand the dynamics of fission product metabolism and were not used to thinking in terms of urinary excretion levels as an index of absorption and deposition.

They were anxious to provide me with samples of urine for side-side analysis. Two samples were delivered on March 26 and five more on March 30. As yet we have not received samples from the remaining 16 patients. The samples received were properly forwarded to the Health and Safety Laboratory and I have had the results of gross analysis of the first two samples. I communicated these results to Dr. Kabayashi in the attached letter which is self-explanatory.

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THE FOREIGN SERVICE

DEPARTMENT OF STATE  
UNITED STATES OF AMERICA

6 April 1954

TELEGRAM TO DIPLOMATIC AND CONSULAR AGENTS

Dr. Rokuzo Kobayashi  
National Institute of Health  
Welfare Minister  
TOKYO

Dear Dr. Kobayashi:

On March 26 we received two samples of urine from patients at the Tokyo University Hospital. I am happy to be able to report at this time that the radioactivity of these samples is so low that the deposits of fission products in the tissues of the two patients can be accepted as well within the limits of certainty. The results follow:

Urine disintegrations per minute per liter

Data on the individual radio-isotopes will be telegraphed to me in another few days. It will then be possible for me to be more quantitative in estimating the dose from absorbed fission products. However, it is most certain that the storage of long-lived radio-isotopes is insignificant in these cases.

As you know, the rate of excretion of fission products at a given time after absorption bears a relation to the quantities deposited in the various tissues. The principal radiochemical constituents at this time are due to Sr 89, Tellurium and the Rare Earths. These are isotopes which have relatively short half-lives and are eliminated from the body with comparative rapidity either by radioactive decay or excretion. In the case of these patients, there is almost certainly an insignificant fraction of the total dose remains radioactive. The permissible urinary excretion, considering the isotopes mentioned, would be greater by a large factor than the values reported above.

I note that the newspapers continue to carry occasional statements of the Japanese investigators to the effect that the prognosis for the fishermen is adversely affected by the fact that long-life bone-seeking isotopes are deposited in their bodies. It is regrettable that the public continues to be misinformed on this aspect. Certainly the results reported above argue strongly that only minimal, medically insignificant amounts of fission products have been absorbed into the tissues of the two patients. The value of the data is

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6 April 1954  
Dr. R. Kobayashi

I regret that I am unable to give you the results of analysis of urine from the 21 other patients. Knowing that those data would be highly important to your committee in its evaluations of the medical status of these patients, we have offered to undertake radiochemical urine analysis of all 23 patients. The urine from only two patients has been delivered to us in time to permit shipment to the States and analysis by this date. More recently, samples from five additional patients from the Tokyo University Hospital were delivered to us, but we have not as yet received samples from the 16 patients now hospitalized at the Daiichi Hospital.

Very faithfully yours,

Merril Eisenbud  
Director, Health and Safety Laboratory  
United States Atomic Energy Commission

ME/ams/hcc

CC: Dr. Nakaidzu  
Dr. Kakani

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DOD DIR 5200.10

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AMERICAN  
INSTITUTE  
OF  
TECHNOLOGY

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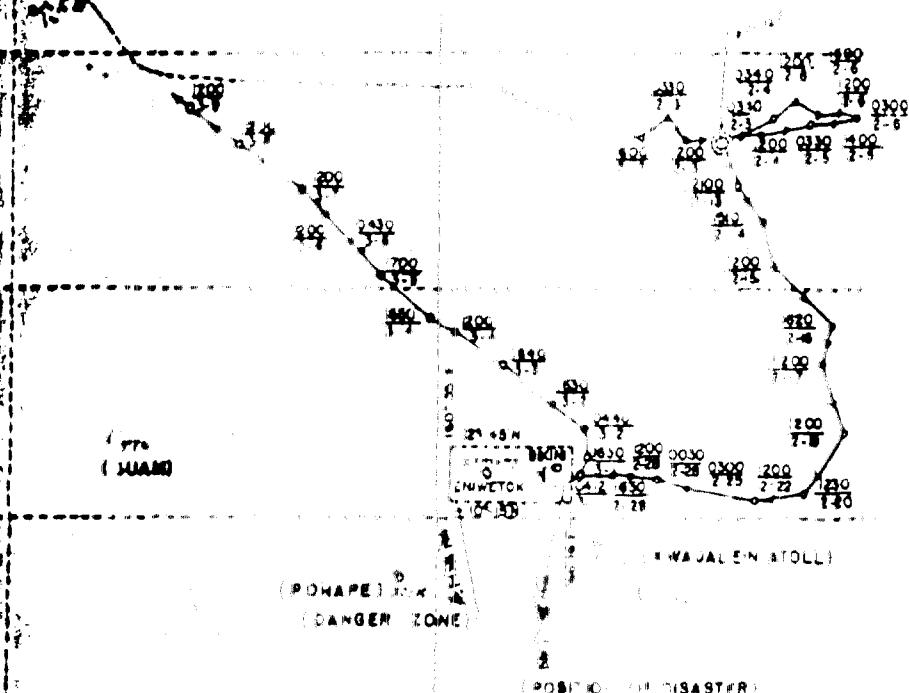
815 (CHART OR MAP NO. 1)

第三航支九・號  
THE ROUTE OR POSITION OF  
THE FUKURYU MARU

(圖版 801号) 日本及東洋海圖 NO. 801

1938.03.22 1130 DEPARTED YAZU  
3月14日0600時出港

1938.03.14 0600 ARRIVED YAZU



FROM AIDE MEMOIRE OF MARCH 27. (TIMES ARE JAPANESE)  
(SHIP REPORTS TIME OF FLASH 0412, 1 MARCH 964 LOCAL OR SHIPS TIME)

POSITION OF FUKURYU MARU

TIME OF BURST - 0312 1 MARCH 964 34°30' E

TIME OF OUT STARTED - 0318 1 MARCH 964 34°42' E

TIME FALL UP STOPPED - 0324 1 MARCH 964 34°53' E

HEADQUARTERS  
JOINT TASK FORCE SEVEN  
APO 187 (HOW), c/o Postmaster  
San Francisco, California

19 April 1954

MEMORANDUM FOR RECORD

SUBJECT: Additional Ground and Air Radiac Survey Data During Period BRAVO to BRAVO plus 5 Days

1. Following are readings from radiac surveys during the period B to B plus 5 days:

a. Special ground surveys from PB survey flight and DDE evacuation parties: (all times Zebra, March 1954)

Waist height on  
AN/PDR T1B in mr/hr

Eniwetok Island (Rongerik Atoll)	0.2315	~
Rongelap Island	0.0645	~
Ailinginae Island	0.0445	445
Utirik Atoll	0.0145	160
Eniwetok Island (Rongelap Atoll)	0.0645	3000

b. NYOO AHLE, BAKER and CHARLIE flights originating from Kwajalein; flights GEORGE and ITEM originating from Oahu, flight EASY originating from Guam, and flight KING (Gilbert Islands) using special airborne (P2V) survey equipment (all times Zebra, March 1954, with readings extrapolated to the waist height).

(1) NYOO Kwajalein Flight A/E

<u>Atoll</u>	<u>DTG</u> (Zebra)	<u>Intensity</u> (mr/hr)	<u>Atoll</u>	<u>DTG</u> (Zebra)	<u>Intensity</u> (mr/hr)
Lae	020010	.080	Ujae	020024	.100
Wotho	021000	1.000	Ailinginae	020128	100,000
Rongelap	021140	1350.000	Rongerik	020200	10,000
*Taongi	02325	1.400	Utirik	020248	500,000
Utirik	020451	240.000	Otak	020310	10,000
Ailuk	020511	76.000	Eniw.	020520	18,000
Likiep	021541	5.000			

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DOD DIR 5200.10

Level 3

Declassified  
DOD DIR 5200.10

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## (2) NYOO Kwajalein Flight Record

<u>Atoll</u>	<u>DTG (Zebra)</u>	<u>Intensity (mr/hr)</u>	<u>Area</u>	<u>DTG (Zebra)</u>	<u>Intensity (mr/hr)</u>
Namu	021920	.020	Millingapalap	021945	.080
Namorik	030223	.200	Boon	030047	.200
Killi	030024	.200	18111	030006	.200
Willi	022304	.600	Wino	022728	.600
Majuro	022216	.000	447	022145	.400
Maloslap	022124	.500	50110	022102	.500
Wotje	022051	.000	381100		

## (3) NYOO Kwajalein Flight Record

Kusaire	030100	.800	Fring + 80	030005	.600
Nokil	022330	.500	100110	022145	.300
Ujelang	022015	.200			

## (4) NYOO Guam Flight Record

Guam	052140	.000	Mano 1110	060010	.000
Truk	060100	.000	1100	060110	.000
Losap	060135	.000	Namotuk	060200	.000
Lukunor	060215	.000	Gatowan	060230	.000
Pulap	060402	.000	100110	060615	.000

## (5) NYOO Oahu Flight Record

Kauai	051740	.200	Nirau	051755	.000
Kaula	051805	.100	Nihua	051757	.000
Necker	052000	.100	Frigate Shl	052032	.200
Gardner Pinn.	052124	.200	Mar. Reef	052225	.200
Laysan	052250	.080	Cisianski	052330	.080
Pearl-Hermes Ff.	060024	.080	W. 1100	060055	.100

## (6) NYOO Oahu Flight Record

Oahu	041718	.030	1100	041747	.004
Hawaii	041845	.040	1100	042035	.080
Nolokai	042115	.030			

## (7) NYOO Gilbert Island Flight Record

Beru	052305	.080	Kamiau	052315	.080
Arorae	052344	.040	Fahaha	060015	.040
Onotoa	060028	.040	Faciteuea	060047	.080
Aranuka	060135	.040	Atemama	-	.000
Tarawa	060224	.040	Atatang	238	.000
Marakei	060244	.030	1100	1100	.000
Nonouti	060314	.030	1100	1100	.000

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DOD DIR 5200.10A. HOUSE  
Lt Col USAF  
Ch. Tech Bt. J-3Declassified  
DOD DIR 5200.10

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JOINT Task Force Seven  
APO 187 (HQ), c/o Postmaster  
San Francisco, California

MEMORANDUM FOR RECORD

1 May 1954

SUBJECT: Black and White Contact Prints Relative to Surveys, Evacuation and Care of Rongelap and Utirik Natives (Prints distributed to following only: C/S, USA (ExAgt), DMA (AEC), DBN (AEC), HICOM-TERPACIS, CINCPAC, CINCPACFLT ChAFSWP, COMNAVSTAKWAJ)

<u>PHOTO NO.</u>	<u>DATE TAKEN</u>	<u>LOCATION</u>	<u>CAPTION</u>
1	4 Mar 54	Utirik	Trust Territory Representative and interpreter arriving Utirik from Kwajalein to meet USS RENSHAW.
2	4 Mar 54	Utirik	RENSHAW receiving Utirik natives.
3	4 Mar 54	Utirik	Utirik natives on deck of RENSHAW.
4	4 Mar 54	Utirik	Utirik
5	4 Mar 54	Utirik	Utirik Natives in whale boat.
7	4 Mar 54	Utirik	Feeding Utirik natives on RENSHAW.
8	4 Mar 54	Utirik	Utirik natives eating on deck of RENSHAW.
11	5 Mar 54	Kwajalein	RENSHAW arriving Kwajalein
12	5 Mar 54	Kwajalein	Utirik natives being transported to compound.
22-1012	11 Mar 54	Rongelap	Whale boat coming onto Rongelap.
22-1013	11 Mar 54	Rongelap	Navy work party preparing gear to pull native boat onto beach.
22-1014	11 Mar 54	Rongelap	Native huts on Rongelap Island.
22-1015	11 Mar 54	Rongelap	Navy men pulling native boat onto beach.
22-1016	11 Mar 54	Rongelap	Similar, different angle.
22-1018	11 Mar 54	Rongelap	Whaleboat coming alongside USS NICHOLAS
22-1019	11 Mar 54	Rongelap	Crew of NICHOLAS preparing to hoist whaleboat (2)
22-1020	10 Mar 54	Sifc Island	Men taking native nut smart.
22-1021	10 Mar 54	Sifc Island	Mr. Strope taking sand sample from Sifc Island for radiation tests.
22-1022	10 Mar 54	Sifc Island	Men preparing native equipment for pri-

Declassified  
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DOD DIR 5200.10

**SUBJECT:** Black and White Contact Prints Relative to Surveys, Evacuation and Care of Rongelap and Utririk Native

<b>PHOTO NO.</b>	<b>DATE TAKEN</b>	<b>LOCATION</b>	<b>DESCRIPTION</b>
22-1023	10 Mar 54	Rongelap	Mr. Willis, Dept of Interior represents U.S. in unloading native goods under cover of U.S. Protection.
22-1024	10 Mar 54	Rongelap	People examining native property before placing in tents.
22-1025	10 Mar 54	Rongelap	Mr. Willis climbing coconut tree to obtain sample for radiation tests.
22-1026	10 Mar 54	Rongelap	Local checking radiation of drying copra in sun area.
22-1027	10 Mar 54	Rongelap	Local men preparing National front-line.
22-1028	10 Mar 54	Rongelap	Local man placing front-light.
22-1029	10 Mar 54	Rongelap	U.S. men on Rongelap platform.
22-1030	10 Mar 54	Rongelap	People examining.
22-1031	10 Mar 54	Rongelap	People eating food.
22-1032	10 Mar 54	Rongelap	People in survey party going ashore at Utririk.
22-1033	10 Mar 54	Rongelap	Survey of native land.
22-1034	3 Mar 54	Utririk	People getting items from PBM.
22-1035	3 Mar 54	Utririk	People getting items from Utririk.
22-1036	3 Mar 54	Utririk	People getting items from Utririk.
22-1037	3 Mar 54	Utririk	People getting items.
22-1047	5 Mar 54	Rongelap	People with native women and children.
22-1049	5 Mar 54	Rongelap	Gen. [unclear], Capt. [unclear], Adm. [unclear] talk to John, Magistrate of Rongelap, 1954 from Utririk.
22-1050	5 Mar 54	Rongelap	Gen. [unclear], Adm. [unclear]
22-1051	5 Mar 54	Rongelap	U.S. men giving instructions to natives and giving supplies.
22-1052	5 Mar 54	Rongelap	Native, uniform for surveying team.

*SEARCHED  
INDEXED  
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PRIVACY ACT MATERIAL REMOVED

SUBJECT: Black and White Contact Prints Relative to Surveys, Evacuation and Care of Rongelap and Utirik Natives

PHOTO NO.	DATE TAKEN	LOCATION	DESCRIPTION
22-1053	5 Mar 54	Knajlein	HMC, USN second desk start medical record on native daughter,
22-1054	5 Mar 54	Rongelap	HMC and take blood samples from baby's toe, mother next right.
22-1055	5 Mar 54	Knajlein	take blood samples from Utirik boy, mother next.
22-1056	5 Mar 54	Rongelap	takes sample of blood from Utirik man.
22-1057	5 Mar 54	Rongelap	HM2, different native man.
22-1058	5 Mar 54	Rongelap	HMC, making blood count at dispensary.
22-1059	5 Mar 54	Rongelap	HM2, preparing blood samples for a cell count.
22-1060	5 Mar 54	Rongelap	HM2, different angle.
22-1061	5 Mar 54	Rongelap	Utirik mother bottle feeding baby at dispensary.
22-1062	5 Mar 54	Rongelap	Native woman waiting turn for a prick at dispensary.
22-1063	5 Mar 54	Rongelap	HM2 getting blood sample from Utirik man.
22-1064	5 Mar 54	Rongelap	Native men meeting of Native Aid Corporation; left to right: Adm . Lt Cdr , Cdr , Cdr , Capt
22-1066	5 Mar 54	Rongelap	Natives prepare fruits.
22-1067	5 Mar 54	Rongelap	Natives lathering soap for natives' dust bath in lagoon.
22-1068	5 Mar 54	Rongelap	Natives taking medicated bathe in lagoon.
22-1069	5 Mar 54	Rongelap	HMC, blood count at Knajlein.
22-1070	5 Mar 54	Rongelap	HMC, blood count at Knajlein.

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DOD DIR 5200.10

PRIVACY ACT MATERIAL REMOVED

PRIVACY ACT MATERIAL REMOVED

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SUBJECT: Black and White contact photo's related to Surveys, Evacuation  
and Care of Rongelap and Utirip Natives. (ALL FILM MATERIAL REMOVED)

PHOTO NO.	DATE TAKEN	LOCATION	CAPTION
22-1091	5 Mar 54	Kwajalein	Sailors monitor natives at compound.
22-1092	5 Mar 54	Kwajalein	road native boy's hair.
22-1093	5 Mar 54	Kwajalein	reading lady's hair (goigner)
22-1094	11 Mar 54	Kwajalein	King John (Rongelap) talking to Drs. Burnsing, DeMent, Hall and Mr. O. DeBrum.
22-1095	11 Mar 54	Kwajalein	Drs. Burnsing, DeMent, unknown, Hall, unknown.
22-1097	11 Mar 54	Kwajalein	Native playing leapscotch with native kids.
22-1098	11 Mar 54	Kwajalein	Native over to native mess (from truck).
22-1099	11 Mar 54	Kwajalein	Native in chow line. Sailors serving.
22-1100	11 Mar 54	Kwajalein	USMC Band playing for Marshallers.
22-1101	11 Mar 54	Kwajalein	Similar to 22-1100.
22-1102	11 Mar 54	Kwajalein	Native barber giving haircuts.
22-1103	11 Mar 54	Kwajalein	Ensign Peters and Mr. Evans handing out handout items.
22-1104	11 Mar 54	Kwajalein	Peters and Evans handing out ARC items to natives.
22-1105	11 Mar 54	Kwajalein	Similar to 22-1104.
22-1106	11 Mar 54	Kwajalein	M. Marcella (nurse) with Dr. DeMent, Capt. USN.
22-1107	11 Mar 54	Kwajalein	Peters and Evans giving candy to native kids.
22-1108	11 Mar 54	Kwajalein	Marshallers playing volley-ball.
22-1109	11 Mar 54	Kwajalein	and unwrapping candy, etc. for natives.
22-1110	11 Mar 54	Kwajalein	Native sonicker and Dr. DeMent check up on kid, after contamination wash. Insigns Johnson and Peters in photo.

PRIVACY ACT MATERIAL REMOVED

Declassified  
DD DIR 5200.10

REF ID: A6414

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SUBJECT: Black and White Contact Prints Relative to Surveys, Evacuation  
and Care of Rongelap and Utirik Natives

PHOTO NO. DATE TAKEN LOCATION CAPTION PRIVACY ACT MATERIAL REMOVED  
22-1111 11 Mar 52 Kwajalein [REDACTED] [REDACTED] [REDACTED]  
[REDACTED] [REDACTED] [REDACTED]

PRIVACY ACT MATERIAL REMOVED

22-1112 11 Mar 52 Kwajalein Dr. Robin (District Anthropologist) with Rongelap Magistrate John and [REDACTED] Kombo).

22-1114 11 Mar 52 Kwajalein [REDACTED] (Lt) Marcella Smith, Dr. (Lt) J.S. Carpenter, and Iatye (native doctor) and [REDACTED]

22-1115 11 Mar 52 Kwajalein [REDACTED] and [REDACTED] monitoring native clothing in laundry.

22-1116 12 Mar 52 Utirik [REDACTED] [REDACTED] [REDACTED] [REDACTED] before evacuation. Natives in foreground, 1st Lt [REDACTED], USAF, (Instrumentation Officer) and Ensign [REDACTED] USNR, arriving in rubber boat. [REDACTED] [REDACTED] in background.

22-1117 3 Mar 52 Utirik [REDACTED] [REDACTED] [REDACTED] colony on Utirik Atoll.

22-1118 3 Mar 52 Utirik [REDACTED] [REDACTED] [REDACTED] beach scene.

22-1119 3 Mar 52 Utirik [REDACTED] [REDACTED] [REDACTED] native houses.

22-1120 3 Mar 52 Utirik [REDACTED] [REDACTED] [REDACTED] [REDACTED] native paddling toward [REDACTED] colony at Utirik.

22-1121 3 Mar 52 Utirik [REDACTED] [REDACTED] [REDACTED] [REDACTED] colony from lagoon on Utirik.

22-1122 3 Mar 52 Utirik [REDACTED] [REDACTED] [REDACTED] [REDACTED] getting soil samples, [REDACTED] [REDACTED] in background.

22-1123 3 Mar 52 Utirik [REDACTED] [REDACTED] [REDACTED]

22-1204 20 Mar 52 Kwajalein [REDACTED] [REDACTED] [REDACTED] 2 years, [REDACTED] from BRAVE shot contamination.

22-1205 20 Mar 52 Kwajalein [REDACTED] [REDACTED] [REDACTED] examining neck rash on [REDACTED]

22-1206 20 Mar 52 Kwajalein [REDACTED] [REDACTED] [REDACTED] back to right of Dr. [REDACTED], natives, [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]

22-1207 20 Mar 52 Kwajalein [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]

SUBJECT: Rongelap and Utirik Natives - Survey, Evacuation  
and Care of Rongelap and Utirik Natives

PHOTO NO. DATE TAKEN LOCATION CAPTION  
22-1208 20 Mar 54 Kwajalein Portrait of CHIEF Magistrate of Rongelap,

22-1209 20 Mar 54 Kwajalein Group shot of weather station personnel being examined  
by Dr. Conard.

22-1210 20 Mar 54 Kwajalein Dr. V. Bini examining hair of

22-1211 20 Mar 54 Kwajalein Group shot of weather station personnel  
subjected to fallout from BRAVO: left  
to right: Booto, A/1C S/Sgt  
A/1C

A/2C A/1C  
standing A/1C.  
S/Sgt S/Sgt  
A/1C A/1C,  
A/2C S/Sgt

22-1212 20 Mar 54 Kwajalein Native children eating lunch.

22-1213 20 Mar 54 Kwajalein Adults and children eating lunch.

22-1214 20 Mar 54 Kwajalein Similar to 1213.

22-1215 20 Mar 54 Kwajalein Similar to 1213.

22-1216 20 Mar 54 Kwajalein Similar to 1213.

22-1219 20 Mar 54 Kwajalein Dr. Conard examining natives.

22-1220 20 Mar 54 Kwajalein Dr. Conard

22-1221 20 Mar 54 Kwajalein Dr. Conard (Interpreter) - examination.

22-1222 20 Mar 54 Kwajalein Dr. Conard (right), Mahaffey, Evans, Dr.  
Conard, Pratt with natives at examination.

22-1223 20 Mar 54 Kwajalein Dr. Conard and George Pratt discuss shot  
radiation examination, camera + back  
ground.

22-1224 20 Mar 54 Kwajalein Dr. Conard (center) - back of, Dr. Conard

22-1225 20 Mar 54 Rongerik (Entirety of) - Dr. Conard with checking tent (ionosphere  
+ ground) for radiation level.

Do. Unified  
DOD DIR 5200.1c

RECORDED AND INDEXED

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PRIVACY ACT MATERIAL REMOVED

SUBJECT: Black and White Contact Prints Relating to Surveys, Evacuation  
and Care of Rongelap and Utirik Natives

PHOTO NO.	DATE TAKEN	LOCATION	CAPTION
22-1235	10 Mar 54	Enewetak Is.	Navy man holding sick rat (radiation) at Enewetak main camp.
22-1237	8 Mar 54	Rongelap	Native workshop along beach.
22-1238	8 Mar 54	Rongelap	Interior of native home.
22-1239	8 Mar 54	Rongelap	Similar.
22-1240	8 Mar 54	Rongelap	Native man checking outrigger canoe for radiation.
22-1241	8 Mar 54	Rongelap	Similar.
22-1242	8 Mar 54	Rongelap	Native scene of Rongelap.
22-1243	8 Mar 54	Rongelap	Left to right: Mr. H.E. Wilds (Department of Interior Representative) and Lt Executive Officer of USS NICHOLAS talking on destroyer by radio.
22-1244	8 Mar 54	Rongelap	Native man checking native cemetery for radiation.
22-1245	8 Mar 54	Rongelap	See caption 22-1244.
22-1246	8 Mar 54	Rongelap	Native native home in village.
22-1258	8 Mar 54	Rongelap	Shore left at village after evacuation.
22-1260	8 Mar 54	Rongelap	Native left behind by natives.
22-1261	8 Mar 54	Rongelap	Native birds fitting in whaleboat.
22-1262	8 Mar 54	Rongelap	Native people sitting in whaleboat.
22-1263	8 Mar 54	Rongelap	Native boat anchored in lagoon.
22-1264	8 Mar 54	Rongelap	Two whaleboats together in lagoon for dry dock or procedure.
22-1265	8 Mar 54	Rongelap	Whaleboat underway in lagoon.
22-1266	8 Mar 54	Rongerik	Native recoil on any given point at native camp on Rongerik Island.
22-1267	8 Mar 54	Rongerik	Similar, different view in mess hall.
22-1268	8 Mar 54	Rongerik	Interior of reactor.
22-1269	8 Mar 54	Rongerik	Similar.

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PRIVACY ACT MATERIAL REMOVED

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Black and White  
Surveys, Evacuation  
and Care of Rongelap and Utirik Natives

<u>PHOTO NO.</u>	<u>DATE TAKEN</u>	<u>LOCATION</u>	<u>CAPTION</u>
22-1270	8 Mar 54	Rongerik	Interior of dispensary on Eniwetok.
22-1271	8 Mar 54	Rongerik	Similar.
22-1272	8 Mar 54	Rongerik	Interior of supply room on Eniwetok.
22-1273	8 Mar 54	Rongerik	Similar.
22-1274	8 Mar 54	Rongerik	Interior of living quarters on Eniwetok.
22-1275	8 Mar 54	Rongerik	Same bar, different angle.
22-1276	8 Mar 54	Rongerik	Similar.
22-1277	8 Mar 54	Rongerik	Same bar.
22-1278	8 Mar 54	Utirik	Native scene in front of village.
22-1279	8 Mar 54	Utirik	Native along main path in Utirik village.
22-1280	8 Mar 54	Utirik	Village scene, Utirik.
22-1281	8 Mar 54	Utirik	Main path looking away from village.
22-1282	8 Mar 54	Utirik	Native home outside main road.
22-1283	8 Mar 54	Utirik	Outrigger canoes along beach near village.
22-1284	8 Mar 54	Utirik	Man loading radiation samples in whaleboat on Utirik beach.
22-1285	8 Mar 54	Utirik	Whaleboat being raised aboard UCS Niche.
22-1287	8 Mar 54	Utirik	Radiosafe man checking Dr. Scoville.
22-1288	9 Mar 54	Rongerik	Native in main camp on Eniwetok.
22-1290	9 Mar 54	Rongelap	Radiosafe men landing on Rongelap beach from whaleboat.
22-1291	9 Mar 54	Rongelap	Radiosafe men talking in village on Rongelap.
22-1292	9 Mar 54	Rongelap	Radiosafe.
22-1293	9 Mar 54	Rongelap	Native at church, Rongelap.
22-1294	9 Mar 54	Rongelap	Radiosafe, different angle.
22-1295	9 Mar 54	Rongelap	Native with house in Rongelap village.

Deck Log  
DDO DIB 5-00.19

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SUBJECT: Black and White Contact Prints relative to Surveys, Evacuation  
and Onset of Rongolap and Utirik Natives

PHOTO NO.	DATE TAKEN	LOCATION	CAPTION	PHOTO ACT MATERIAL REMOVED
22-1296	9 Mar 54	Rongolap	Rongolap village scene.	
22-1297	9 Mar 54	Rongolap	Abandoned goose on Rongolap beach.	
22-1298	20 Mar 54	Kwajalein	Dr. Cronkite examining King Ian of Utirik	
22-1299	20 Mar 54	Kwajalein	Similar	
22-1300	20 Mar 54	Kwajalein	Same	
22-1301	20 Mar 54	Kwajalein	Similar	
22-1302	20 Mar 54	Kwajalein	Native people of Utirik watching examination.	
22-1303	20 Mar 54	Kwajalein	Typical native woman and two girls.	
22-1304	20 Mar 54	Kwajalein	Natives watching examination.	
22-1305	20 Mar 54	Kwajalein	Dr. Conard behind natives watching examination.	
22-1306	20 Mar 54	Kwajalein	Dr. Cronkite examining native girl's mouth.	
22-1307	20 Mar 54	Kwajalein	Dr. Cronkite examining	Dr.
22-1308	20 Mar 54	Kwajalein	Portrait of King Ian of Utirik.	
22-1309	20 Mar 54	Kwajalein	Group shot of George Pratt, King Ian, Dr. Cronkite and King Ian's wife.	
22-1310	20 Mar 54	Kwajalein	U.S. photographer photographing natives for identification purposes.	
22-1311	20 Mar 54	Kwajalein	Similar	
22-1312	20 Mar 54	Kwajalein	Similar	
22-1313	20 Mar 54	Kwajalein	Interior of hospital, nurse Kathleen Brill treating ear sore of Dr. Sulman in background.	Dr.
22-1314	20 Mar 54	Kwajalein	Similar, Dr. Shri - treating	
22-1315	20 Mar 54	Kwajalein	Similar	
22-1316	20 Mar 54	Kwajalein	Native children treated for anal cracks.	

PHOTO ACT MATERIAL REMOVED

Incl 24

Declassified  
DDB DIR 5200.10

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~~SECRET~~  
 SURVEYOR Black and White Contact Prints Relative to Surveys, Evacuation  
 and care of Rongelap and Utirik Natives

<u>PHOTO NO.</u>	<u>DATE TAKEN</u>	<u>LOCATION</u>	<u>CAPTION</u>	<u>PRIVACY ACT MATERIAL REMOVED</u>
22-1317	20 Mar 54	Kwajalein	Similar	
22-1318	20 Mar 54	Kwajalein	Native medic treating mouth of native child.	
22-1319	20 Mar 54	Kwajalein	Dr. Shulman treating eye of .	
22-1320	20 Mar 54	Kwajalein	Native medic treating anus of native child.	
22-1321	20 Mar 54	Kwajalein	Dr. Shulman treating neck sore on Nurse Emil assisting,	
22-1322	20 Mar 54	Kwajalein	Similar.	
22-1323	20 Mar 54	Kwajalein	Similar.	
22-1324	20 Mar 54	Kwajalein	Similar.	
22-1325	20 Mar 54	Kwajalein	Taking blood sample from Airman Lagna.	
22-1326	20 Mar 54	Kwajalein	Similar.	
22-1327	20 Mar 54	Kwajalein	Taking blood samples from weather station man.	
22-1328	20 Mar 54	Kwajalein	Dr. V. Bond taking blood sample from Bartalino.	
22-1329	20 Mar 54	Kwajalein	Similar to 22-1328.	
22-1330	20 Mar 54	Kwajalein	similar, different airman.	
22-1331	20 Mar 54	Kwajalein	Blood testing and counting room.	
22-1332	20 Mar 54	Kwajalein	Similar, different view.	
22-1333	20 Mar 54	Kwajalein	Similar, different view.	
22-1334	20 Mar 54	Kwajalein	Dr. V. Bond taking blood samples from native.	
22-1335	20 Mar 54	Kwajalein	Similar, different angle.	
22-1336	20 Mar 54	Kwajalein	Similar, but no airman seen.	
22-1337	20 Mar 54	Kwajalein	Similar.	
22-1338	21 Mar 54	Kwajalein	Similar.	

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~~SECRET~~

INCL 4

PRIVACY ACT MATERIAL REMOVED

Declassify  
DOD 1.0 5200.10

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**SURVEY**  
Black and White Contact Prints Relating to Surveys, Evacuation  
and Care of Rongelap and Utirik Natives

<b>PHOTO NO.</b>	<b>DATE TAKEN</b>	<b>LOCATION</b>	<b>CAPTION</b>
22-1359	20 Mar 54	Kwajalein	Dr. Cronkite and Dr. Bond talking to native child.
22-1340	20 Mar 54	Kwajalein	Native watching examination.
22-1341	20 Mar 54	Kwajalein	Similar, but with Dr. Bond in group.
22-1342	20 Mar 54	Kwajalein	Dr. Cronkite and Dr. Bond examining native child.
22-1343	20 Mar 54	Kwajalein	Dr. Cronkite examining native child.
22-1344	20 Mar 54	Kwajalein	Dr. Cronkite examining native baby on lap of father.
22-1345	20 Mar 54	Kwajalein	Closeup of native father and baby. Dr. Cronkite examining baby.
22-1346	20 Mar 54	Kwajalein	Closeup of native father and baby.
22-1347	20 Mar 54	Kwajalein	Closeup of King Ian of Utirik.
22-1348	20 Mar 54	Kwajalein	Similar.
22-1349	20 Mar 54	Kwajalein	King Ian, wife and son.
22-1350	20 Mar 54	Kwajalein	King Ian, wife and two sons.
22-1363	10 Mar 54	Rongerik Atoll	Men unloading spoiled food from roefor (Eniwetok Is.)
22-1364	10 Mar 54	Eniwetok Is	Loading spoiled food onto truck.
22-1365	10 Mar 54	Eniwetok Is	Similar to 22-1363.
22-1366	10 Mar 54	Eniwetok Is	Men loading spoiled food onto truck.
22-1367	10 Mar 54	Eniwetok Is	Backing truck onto reef to dispose of spoiled food.
22-1368	10 Mar 54	Eniwetok Is	Men dumping spoiled food on reef.
22-1369	10 Mar 54	Millingtree Atoll	Native collection area on Sife Island.
22-1370	10 Mar 54	Sife Island	Native collection of spoiled food.
22-1371	20 Mar 54	Kwajalein	Natives waiting for blood sample taking at dispensary.

~~Surveys, Evacuation  
and White Contact Prints~~ ~~Survey, Evacuation  
and Care of Rongelap and Utirik Natives~~

PHOTO NO.	DATE TAKEN	LOCATION	CAPTION
22-1372	20 Mar 54	Kwajalein	Similar, but with native woman and child.
22-1377	20 Mar 54	Kwajalein	Native being fed.
22-1378	20 Mar 54	Kwajalein	Similar.
22-1379	20 Mar 54	Kwajalein	Red Cross Field man, Mr. Evans, distributing gum to natives.
22-1380	20 Mar 54	Kwajalein	Native man shaving himself with safety razor blade.
22-1381	20 Mar 54	Kwajalein	CWOHC J.V. Spangler with native boy at dispensary.
22-1382	20 Mar 54	Kwajalein	Navy radsafe man checking natives.
22-1383	20 Mar 54	Kwajalein	Closeup of radsafe man and radiation counter reading foot of native.
22-1384	20 Mar 54	Kwajalein	Native children playing hop scotch.

(s/t) H. A. HOUSE  
LtCol, USAF  
ChTechOpns Br, J-3 & Radsafe Officer

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Declassified  
DOD 10-5200.10

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