

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

J-3/370.05

1 May 1954

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

TO: See Distribution

NO COPY AVAILABLE

1. References:

- a. JTF SEVEN letter, J-3/729.3, subject: Radiological Surveys of Several Marshall Island Atolls, dated 18 March 1954
- b. JTF SEVEN letter, J-3/370.05, subject: Reports on Evacuation of Natives and Surveys of Several Marshall Island Atolls, dated 9 April 1954

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), DBL (AEC), HICONTERPACIS, CINCPACFLT, CHAFSWP, COMNAVSTAKWJ. Additional prints may be obtained as indicated in reference 1b.

W. W. Clarkson
W. W. CLARKSON
Major General, U.S. Army
Commander

4 Incl

- 1. Preliminary Report (Eisenbud) to DBL (AEC) (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 Utiirik Natives (1 set to each command or agency indicated above)

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Technical Library

AEC

The Rongelap

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1 May 1954

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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 report 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 clinical phases 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 $11^{\circ} 53'$ north and $166^{\circ} 34'$ east. This position is only a few miles from the eastern limit of the Marshall 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, ash began to fall, turning the deck white. The position of the vessel at this time is given as $11^{\circ} 56'$ north and $166^{\circ} 42'$ east. The ashes kept falling until 0800 at which time the position of the vessel was estimated as $11^{\circ} 55'$ north and $166^{\circ} 55'$ east.

(1) Aide Memoire of March 27

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SUBJECT: Black and White Contact Prints Relative to Surveys and Care of Rongelap and Utrik Natives

<u>PHOTO NO.</u>	<u>DATE TAKEN</u>	<u>LOCATION</u>	<u>CAPTION</u>
22-1071	5 Mar 54	Kwajalein	Interior during Church Service.
22-1072	5 Mar 54	Kwajalein	(1) with native boy & (2) nursery.
22-1073	5 Mar 54	Kwajalein	Mr. W. W. (Mr. W. W.), Capt.
22-1074	5 Mar 54	Kwajalein	Decontamination papers for decontamination.
22-1075	5 Mar 54	Kwajalein	(1) (2) IS: Island background (1) (2) soap).
22-1076	5 Mar 54	Kwajalein	(1) (2) IS: Lagoon background (1) (2) soap).
22-1077	5 Mar 54	Kwajalein	Decontamination bath: Mother with baby.
22-1078	5 Mar 54	Kwajalein	... wife (Utrik) in compound.
22-1079	5 Mar 54	Kwajalein	... with children in compound.
22-1080	5 Mar 54	Kwajalein	... mother with baby drinking coconut.
22-1081	5 Mar 54	Kwajalein	... mother with baby.
22-1082	5 Mar 54	Kwajalein	... playing with native kids.
22-1083	5 Mar 54	Kwajalein	... , D12, A03, AKI.
22-1084	5 Mar 54	Kwajalein	Mr. W. W. (Mr. W. W.), Capt. , Gender.
22-1085	5 Mar 54	Kwajalein	... monitoring native woman with baby.
22-1086	5 Mar 54	Kwajalein	... monitoring young native girl.
22-1087	5 Mar 54	Kwajalein	... monitor native man.
22-1088	5 Mar 54	Kwajalein	... monitor native man.
22-1089	5 Mar 54	Kwajalein	... monitor native man.
22-1090	5 Mar 54	Kwajalein	... monitor native man with baby.

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(4) At 1100 hours the Fukuryu Maru, the vessel, sailed on course toward
how long it took to arrive at 0000 on March 17.

(5) In the following two or three days, all the crew reported slight
headaches and some of them were hospitalized in 5 or 6 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 5 days following the return
of the Fukuryu Maru to Japan, but leaves the picture far from complete in the
attention of the Embassy.

(1) The crew first contacted the American Consul, and the director of the
Fisherman's union. On the day of their return crew members who were seriously
affected consulted a physician of the Marine Hospital.

(2) Two of the fishermen, who were in more serious
condition left the hospital on March 17 for Tokyo where they visited Doctor
Shimizu at the Tokyo University Hospital.

(3) Professor Shimizu made preliminary examinations of the ship on
March 16 and on the basis of his findings one of the crew members consulted
a physician who recommended that she be hospitalized.

THE ROLE OF THE JAPANESE INVESTIGATORS

During the latter half of March the Japanese press was fed continually
with sensational statements from Japanese Scientists. The motivations
of the Japanese were never quite understood by us but the following factors
may be enumerated as pertinent to our lack of progress in dealing with them:

(1) In a long private conversation that I had with Dr. Tsuzuki at his
home on the evening of March 24, he was frank in stating his opinion
that the American scientists would deny him and his associates professional
recognition due them for their accomplishments in the diagnosis and treat-
ment of the fishermen. He referred frequently to his experience in 1945
when he led the team of Japanese investigators to Hiroshima and Nagasaki
only to have his work interrupted by the American investigators who
undertook their own studies. Dr. Tsuzuki seemed to accept my assurance that
in the present situation it was the intent of the American scientists to
assist the Japanese and that all of our facilities would be available to them
and could be used in their own publications.

Dr. Tsuzuki was outwardly friendly to me, my doctor and myself
until the time of his departure for Tokyo on March 31. Despite this, the
lack of cooperation continued to be manifest on the part of the Japanese
investigators. I do not know whether this was because we misjudged Dr.
Tsuzuki's friendliness, or because of their dependence on his Japanese
colleagues.

(2) There was such evidence of envy and rivalry among medical
groups. In particular the staff of the University of Tokyo, who
were initially at odds with the group at the National Institute of Health,
headed by Dr. Kobayashi. Moreover, the Japanese fishermen at Matsuyama, where
all but two of the patients were hospitalized until March 25, were anxious
for various reasons that the patients be transferred. Their lack of cooperation
with the American investigators may have been motivated by their knowledge that
the American investigators would publish the results of their work.

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(3) Many of the accepted procedures of modern American medical practice seemed strange to the Japanese, and their concepts are 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 appeal that the patients 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 parentally 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 radioactivity 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 my 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 apparent in subsequent portions of the report.

OFFERS OF ASSISTANCE TO THE JAPANESE

When I arrived in Tokyo on March 24, Dr. Morton had already offered the Japanese the full facilities of the Atomic 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, in 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. Horton 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-Pile, 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, Ce141, Ce143 (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 ash to a mouse, as described earlier.

(7) Using an immersion type GM tube, they had demonstrated radioactivity in the urine of 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 analyzed 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 to accept this service.

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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 6 patients despite our repeated attempts to do so.

(2) I offered to scan the fishermen for radiation using two Geintimeters 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 Air Force 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 radio-chemical components of the ash.

ACTION: The Japanese reported the extent of the total amount of ash recovered as 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 agreed 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 later requested 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 serious but inter-related problems. Of these, the most urgent was the clinical status of the 23 fishermen, a subject with which Dr. Hart was 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 whole body dose.

(b) Estimated dose from internal emitters.

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 23 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 albacor. Sixty percent of the landed albacor catch went to Japanese canners and forty percent was shipped abroad in freezers. Sixty percent of the albacor 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.

(B) Contaminated Tuna in Japan

The Fukuryu Maru landed at Yatsuyuki a catch of 28,000 pounds of tuna. We must accept the fact that these fish were excessively contaminated and that the majority of the catch is disposed of there.

1. An excellent report of technical nature on the Japanese Tuna fisheries in Japan is report prepared and issued by the Natural Resources Section of ICRP in March, 1954.

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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 ceased 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 mastered approximately the same number from various sources in Japan.

On March 24, at a conference with other Japanese Government officials, they asked for my recommendation for maximum permissible contamination. They also asked that I recommend the method 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 Yokohama 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 fish.

There remained the question of a criterion 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 fallout 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 monitor the fish by the methods proposed, and that when and if contaminated fish were found they should be advised and given the opportunity, immediately, to make a first hand inspection of the fish. My recommendations were accepted as stated 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 indicated that I was to be notified 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 and requested the following information by telephone:

(a) The Keel Maru, then at the port of Misaki, 12 degrees, 22 minutes north, 178 degrees, 19 minutes east on March 29. The surface of the ship was reading 2443 counts per minute, the catch 100 counts per minute and the net 100 counts per minute. The fish had been unloaded awaiting a decision as to their safety.

(b) The Myojim Maru was at Shiohone. 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 400 counts per minute, the fish 56 to 84 counts per minute, and the crew 60 to 90 counts per minute.

(2) The Embassy informed the Ministry of Welfare of my interest in seeing 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 Myojim Maru had left Shiohone 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 Ministry again called to inform the Embassy that the Keel Maru had left the port of Misaki one hour before it dumped its contaminated catch at sea. The Embassy asked the Foreign Ministry to call the vessel back to Misaki as it was only one hour off port but the department stated this could not be accomplished.

To summarize the tuna situation, I am in belief that no significantly contaminated tuna have arrived in Japan except for the catch from the Fukuryu Maru. Rigerous inspections proceeded and 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 tuna market has stabilized and tuna representatives of American tuna dealers have informed us that their companies are no longer concerned about 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 "ash" falling in various parts of Japan are undoubtedly dust or soil falls that occur normally in any industrial area from time to time. Reputable scientists have examined samples of potassium-rich soil and have reported their data as gross counts without any reference to normal soil background. For this reason I find it very difficult to take serious the frequent public report of 50 to 100 counts per minute for the unspecified 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 set 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. Kobayoshi 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. Kobayoshi, 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 events in the Marshalls or Nevada.

Estimating the Whole Body Dose

I doubt that it will be possible to make a satisfactory estimate of either the Beta or Gamma dose from ash, even if it is assumed that ash fell in such quantities that the deck of the ship was completely covered there was sufficient material to detect visible footprints. Unfortunately this is the limit of our information as to how much ash fell and how long it remained on the ship. The fishermen washed the decks in order to remove the ash and according to their report their washing was effective. When the vessel arrived in Palmyra no help of this kind was required.

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Measurements made by various methods between March 20-26 are in agreement. It is curious that the Beta-Gamma ratio is about 1. This would indicate that the bulk of the ash had by this time penetrated to the porous wood structure of the deck, 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 possible 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 State-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. Kobayashi in the attached letter which is self-explanatory.

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THE FOREIGN SERVICE
OF THE
UNITED STATES DEPARTMENT OF STATE

EMBASSY AIR MAIL TELETYPE UNIT

Dr. Rokuzo Kobayashi
National Institute of Health
Welfare Ministry
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 these patients can be accepted as well within the limits of safety. The results follow:

The discharge is \times 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 dissolved 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 relationship to the quantities deposited in the various tissues. The principal radiochemical constituents at this time are due to Sr 89, Cs137 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, excretion is most certainly an insignificant fraction of the total absorbed radioactivity. The permissible urinary excretion, considering the activity involved, would be greater, by a large factor, than the amount 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 bones. It is regrettable that the public continues to be misinformed in this respect. Certainly the results reported above, if correct, are only minimal, and only insignificantly small amounts of fission products have been absorbed into the tissues of the two patients for whom data is available.

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EMBASSY AIR MAIL TELETYPE UNIT

6 April 1954
Dr. R. Kobayashi - 2

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 16 patients now hospitalized at the Daiichi Hospital.

Respectfully yours,

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

ME/ams/hcc

CC: Dr. Nakaidzumi
Dr. Kakani

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

19 April 1964

MEMORANDUM FOR RECORD

SUBJECT: Additional Ground and Air Radar's Survey Data During Period BRAVO to BRAVO plus 5 Days

1. Following are readings from radar's surveys during the period BRAVO to BRAVO plus 5 days:

a. Special ground surveys from PB-1 survey flight and DDE evacuation parties: (all times Zebra, March 1964)

		<u>Waist height on AN/PDR T1B in mr/hr</u>
Eniwetak Island (Rongerik Atoll)	020145	300
Rongelap Island	020645	170
Ailinginae Island	020445	145
Utirik Atoll	020145	160
Eniwetak Island (Rongelap Atoll)	020645	3000

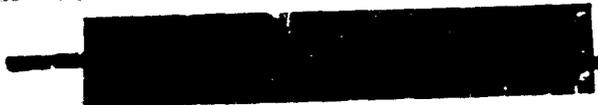
b. NYOO ABLE, BAKER and CHARLIE flights originating from Kwajalein; flights GEORGE and ITEM originating from Oahu, flight EASY originating from Guam, and flight KING (Gilbert Islands), using special airborne (P2V) survey equipment (all times Zebra, March 1964) and readings extrapolated to the 1700

(1) NYOO Kwajalein Flight ABLE

<u>Atoll</u>	<u>DTG (Zebra)</u>	<u>Intensity (mr/hr)</u>	<u>Atoll</u>	<u>DTG (Zebra)</u>	<u>Intensity (mr/hr)</u>
Lae	020010	1.000	Ujae	020024	1.100
Wotho	020100	1.000	Ailinginae	020128	120.000
Rongelap	020140	1350.000	Rongerik	020200	1700.000
*Taongi	020325	1.100	Utirik	020328	500.000
Utirik	020451	240.000	Rikake	020400	160.000
Ailuk	020518	76.000	Eniwetak	020525	18.000
Likiep	020540	6.000			

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(2) NYOO Kwajalein Flight BARRACUDA

<u>Atoll</u>	<u>DTC</u> <u>(Zebra)</u>	<u>Intensity</u> <u>(mr/hr)</u>	<u>Atoll</u>	<u>DTC</u> <u>(Zebra)</u>	<u>Intensity</u> <u>(mr/hr)</u>
Namu	021920	.020	Kilingiapalap	021945	.080
Namorik	030220	.200	Ebon	030047	.200
Kili	030020	.200	Talati	030006	.200
Milli	022304	.600	Arno	022228	.600
Majuro	022210	1.000	Har	022145	.400
Maloslap	022120	1.600	Amak	022102	1.000
Wotje	022050	30.000			

(3) NYOO Kwajalein Flight CHARLIE

Kusaie	030100	.800	Kingalap	030005	.600
Mokil	022330	.500	Lowap	022145	.800
Ujelang	022015	.800			

(4) NYOO Guam Flight EAST

Guam	052110	.000	Banobaito	060010	.000
Truk	060100	.000	Asop	060110	.000
Losap	060135	.000	Namcluk	060200	.000
Lukunor	060215	.000	Satawan	060230	.000
Pulap	060404	.000	Dean	060615	.000

(5) NYOO Oahu Flight GEORGE

Kauai	051740	.200	Niihau	051755	.000
Kaula	051805	.100	Niihau	051757	.000
Necker	052000	.100	Per. Frigate Shl	052032	.200
Gardner Pinn.	052124	.200	Maro Reef	052225	.200
Laysan	052250	.080	Distanski	052330	.080
Pearl-Hermes Ff.	060025	.080	Mikoyan	060055	.100

(6) NYOO Oahu Flight HENRY

Oahu	041718	.030	Kaunoi	041747	.004
Hawaii	041845	.040	Kaunoi	042035	.080
Molokai	042115	.030			

(7) NYOO Gilbert Island Flight KING

Beru	052305	.080	Nukunau	052315	.080
Arorae	052344	.040	Tanana	060015	.040
Onotoa	060028	.040	Tapitelea	060047	.080
Aranuka	060135	.040	Atemama		.040
Tarawa	060229	.040	Atalang	060239	.040
Marakei	060249	.040	Makim	060249	.040
Nonouti	060310	.080			

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U.S. HOUSE
Lt Col USAF
Ch. Tech. Re. J-3

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JOINT TASK FORCE SEVEN
APO 187 (HOF), 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), DBM (AEC), HICOM-TERPACIS, CINCPAC, CINCPACFLT CHAFSWP, COMNAVSTAKHAJ)

<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	USS RENSHAW receiving Utirik natives.
3	4 Mar 54	Utirik	Utirik natives on deck of RENSHAW.
4	4 Mar 54	Utirik	Similar
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	Nav 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	Nav 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 aboard.
22-1020	10 Mar 54	Sifo Island	Nav men taking native hut apart.
22-1021	10 Mar 54	Sifo Island	Nav. Strobe taking sand sample from Sifo Island for radiation tests.
22-1022	10 Mar 54	Sifo Island	Nav men preparing native equipment for pro-

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SUBJECT: Black and White Contact - ~~Private~~ Relative to Surveys, Evacuation and Care of Rongelap and Ujae Natives

<u>PHOTO NO.</u>	<u>DATE TAKEN</u>	<u>LOCATION</u>	<u>REMARKS</u>
22-1023	10 Mar 54	SPCo Is.	Gen. Fields, Dept of Interior representative, native goods under cover for protection.
22-1024	10 Mar 54	SPCo Is.	Photograph showing native property before placing in tents.
22-1025	10 Mar 54	SPCo Is.	W. H. Mann collecting economic plants to secure sample for radiation tests.
22-1026	11 Mar 54	SPCo Is.	Gen. showing radiation of drying copra in a shed area.
22-1027	10 Mar 54	Rongelap	View of Rongelap, Island Front-left.
22-1028	10 Mar 54	Rongelap	View of Rongelap Front-right.
22-1029	10 Mar 54	Rongelap	Interior of Rongelap Island.
22-1030	10 Mar 54	Rongelap	Interior of Rongelap.
22-1031	10 Mar 54	Manganik	Supply of spoiled food.
22-1032	10 Mar 54	Manganik	View of survey party going ashore to Manganik.
22-1033	10 Mar 54	Rongelap	View of native hut.
22-1034	3 Mar 54	Utiirik	View of Utiirik Island from PBM.
22-1035	3 Mar 54	Utiirik	View of Utiirik from PBM.
22-1036	5 Mar 54	Utiirik	View of Utiirik from Rongelap.
22-1037	5 Mar 54	Utiirik	View of Utiirik.
22-1047	5 Mar 54	Rongelap	View of Rongelap with native houses and other buildings.
22-1049	5 Mar 54	Rongelap	View of Rongelap, Capt. [redacted], Adm. [redacted], Gen. [redacted], Utiirik to Rohn, Magistrate of Rongelap and [redacted] from Utiirik.
22-1050	5 Mar 54	Rongelap	View of Rongelap, Adm. [redacted], Gen. [redacted].
22-1051	5 Mar 54	Rongelap	View of Rongelap, Adm. [redacted], Gen. [redacted].
22-1052	5 Mar 54	Rongelap	View of Rongelap, Adm. [redacted], Gen. [redacted].

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

PHOTO NO.	DATE TAKEN	LOCATION	CAPTION
22-1053	5 Mar 54	Kwajalein	HM1 and HM2, USN HM1 and HM2 start medical record on and daughter,
22-1054	5 Mar 54	Kwajalein	HM3 and HM4 take blood samples from baby's too, not on next right.
22-1055	5 Mar 54	Kwajalein	HM1 and HM2 take blood samples from Utirik boy, mother next.
22-1056	5 Mar 54	Kwajalein	HM1 and HM2 takes sample of blood from Utirik man.
22-1057	5 Mar 54	Kwajalein	HM1 and HM2, different native man.
22-1058	5 Mar 54	Kwajalein	HM1 and HM2, making blood count at dispensary.
22-1059	5 Mar 54	Kwajalein	HM2, preparing blood samples for a cell count.
22-1060	5 Mar 54	Kwajalein	HM1 and HM2, different angle.
22-1061	5 Mar 54	Kwajalein	Utirik mother bottle feeding baby at dispensary.
22-1062	5 Mar 54	Kwajalein	HM1 and HM2 waiting turn for prick at dispensary.
22-1063	5 Mar 54	Kwajalein	HM1 getting blood sample from elderly Utirik man.
22-1064	5 Mar 54	Kwajalein	Meeting of Native Aid Association; Adm. Lt Cdr Lt Cdr Lt Capt
22-1066	5 Mar 54	Kwajalein	Native women prepare fruits.
22-1067	5 Mar 54	Kwajalein	Native women washing soap for natives' decontamination baths in lagoon.
22-1068	5 Mar 54	Kwajalein	Native women taking decontamination baths in lagoon.
22-1069	5 Mar 54	Kwajalein	Native women prepared at Kwajalein.
22-1070	5 Mar 54	Kwajalein	Native Women Church Service.

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SUBJECT: Black and White [REDACTED] to Surveys, Evacuation
and Care of Rongelap and Utirik Natives

PRIVACY ACT MATERIAL REMOVED

<u>PHOTO NO.</u>	<u>DATE TAKEN</u>	<u>LOCATION</u>	<u>CAPTION</u>
22-1091	5 Mar 54	Kwajalein	Sailors monitor natives at compound.
22-1092	5 Mar 54	Kwajalein	and read native boy's
22-1093	5 Mar 54	Kwajalein	reading lady's hair (goigor)
22-1094	11 Mar 54	Kwajalein	King John (Rongelap) talking to Drs. Bursing, DeMent, Hall and Mr. O. DeBrun.
22-1095	11 Mar 54	Kwajalein	Dr. Bursing, DeMent, unknown, Hall, [REDACTED]
22-1097	11 Mar 54	Kwajalein	children play hopscotch with native kids.
22-1098	11 Mar 54	Kwajalein	Delivery of to native mess (from truck).
22-1099	11 Mar 54	Kwajalein	Delivery in check line. Sailors serving.
22-1100	11 Mar 54	Kwajalein	USMC Band playing for Marshallese.
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 [REDACTED] with 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	Dr. 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	Marshallese playing volley-ball.
22-1109	11 Mar 54	Kwajalein	and unwrapping candy, etc. for natives.
22-1110	11 Mar 54	Kwajalein	with Ensign [REDACTED] and Dr. DeMent check [REDACTED] after [REDACTED] [REDACTED] [REDACTED] wash. Ensigns Johnson and Peters [REDACTED]

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REF ID: A66666
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SUBJECT: Black and White Contact Prints Relative to Surveys, Evacuation
and Care of Rongelap and Utiirik Natives

PRIVACY ACT MATERIAL REMOVED

PHOTO NO.	DATE TAKEN	LOCATION	CAPTION
22-1111	11 Mar 54	Kwajalein	Native women donate clothes to Marshallese; left in night; , and

PRIVACY ACT MATERIAL REMOVED

22-1112	11 Mar 54	Kwajalein	Dr. Edwin (District Anthropologist) with Rongelap Magistrate John and (Utiirik's Kembo).
22-1114	11 Mar 54	Kwajalein	Native (Lt) Marcella Smith, Dr. (Lt) J.S. [unclear], and Jabwa (native doctor) and [unclear]
22-1115	11 Mar 54	Kwajalein	and monitoring native clothing in laundry.
22-1116	3 Mar 54	Utiirik	Utiirik Atoll before evacuation. Natives in foreground, 1st Lt [unclear], USAF, (Instrumentation Officer) and Ensign [unclear] USNR, arriving in rubber boat. Biplane in background.
22-1117	3 Mar 54	Utiirik	Native colony on Utiirik Atoll.
22-1118	3 Mar 54	Utiirik	Native beach scene.
22-1119	3 Mar 54	Utiirik	Native, native house.
22-1120	3 Mar 54	Utiirik	Canoe and native paddling toward native colony at Utiirik.
22-1121	3 Mar 54	Utiirik	Native colony from lagoon at Utiirik.
22-1122	3 Mar 54	Utiirik	Native getting soil samples, native colony in background.
22-1123	3 Mar 54	Utiirik	[unclear]
22-1204	20 Mar 54	Kwajalein	Dr. [unclear] examining [unclear] 2 years, [unclear] shot contamination.
22-1205	20 Mar 54	Kwajalein	Dr. [unclear] examining neck rash on [unclear]
22-1206	20 Mar 54	Kwajalein	Left to right: Dr. [unclear], natives, [unclear], Evans [unclear] at [unclear] photo.
22-1207	20 Mar 54	Kwajalein	Group of native children.

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PRIVACY ACT MATERIAL REMOVED

PRIVACY ACT MATERIAL REMOVED

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PRIVACY ACT MATERIAL REMOVED

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

PHOTO NO.	DATE TAKEN	LOCATION	CAPTION
22-1235	10 Mar 54	Eniwetok Is	Navy man holding sick rat (radiation) at Eniwetok main camp.
22-1237	8 Mar 54	Rongolap	Boys watching along beach.
22-1238	8 Mar 54	Rongolap	Interior of native home.
22-1239	8 Mar 54	Rongolap	Boys.
22-1240	8 Mar 54	Rongolap	Boys man checking outrigger canoe for fallout radiation.
22-1241	8 Mar 54	Rongolap	Boys.
22-1242	8 Mar 54	Rongolap	Map of scene of Rongolap.
22-1243	8 Mar 54	Rongolap	Left to right: Mr. M.E. Wilds (Department of Interior Representative) and Lt Executive Officer of USS NICHOLAS talking to destroyer by radio.
22-1244	8 Mar 54	Rongolap	Boys man checking native cemetery for radiation.
22-1245	8 Mar 54	Rongolap	Boys to 22-1244.
22-1246	8 Mar 54	Rongolap	Boys native home in village.
22-1258	8 Mar 54	Rongolap	Boys left at village after evacuation.
22-1260	8 Mar 54	Rongolap	Boys left behind by natives.
22-1261	8 Mar 54	Rongolap	Mr. Wilds sitting in whaleboat.
22-1262	8 Mar 54	Rongolap	Dr. Donahoe sitting in whaleboat.
22-1263	8 Mar 54	Rongolap	Whaleboat anchored in lagoon.
22-1264	8 Mar 54	Rongolap	Two whaleboats together in lagoon for conference on procedure.
22-1265	8 Mar 54	Rongolap	Whaleboat underway in lagoon.
22-1266	8 Mar 54	Rongolap	Boys returned to camp on Rongolap Island.
22-1267	8 Mar 54	Rongolap	Boys, different view in mess hall.
22-1268	8 Mar 54	Rongolap	Boys in mess hall.
22-1269	8 Mar 54	Rongolap	Similar.

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Black and White [REDACTED] 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	Similar, different angle.
22-1276	8 Mar 54	Rongerik	Similar.
22-1277	8 Mar 54	Rongerik	Similar.
22-1278	8 Mar 54	Utirik	Beach scene in front of village.
22-1278	8 Mar 54	Utirik	View 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 path.
22-1283	8 Mar 54	Utirik	Outrigger canoes along beach near village.
22-1284	8 Mar 54	Utirik	Men loading radiation samples in whaleboat on Utirik beach.
22-1285	8 Mar 54	Utirik	Whaleboat being raised aboard USS NICK.
22-1287	8 Mar 54	Utirik	Kausafe man checking Dr. Scoville.
22-1288	9 Mar 54	Rongerik	Main main camp on Eniwetok.
22-1290	9 Mar 54	Rongelap	Kausafe men landing on Rongelap beach from whaleboat.
22-1291	9 Mar 54	Rongelap	Kausafe men talking in village on Rongelap.
22-1292	9 Mar 54	Rongelap	Similar.
22-1293	9 Mar 54	Rongelap	View of Rongelap village from beach.
22-1294	9 Mar 54	Rongelap	Similar, different angle.
22-1295	9 Mar 54	Rongelap	Native wash house in Rongelap village.

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[REDACTED]

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

PHOTO ACT MATERIAL REMOVED

PHOTO NO.	DATE TAKEN	LOCATION	CAPTION
22-1296	9 Mar 54	Rongelap	Rongelap village scene.
22-1297	9 Mar 54	Rongelap	Abandoned goose on Rongelap bench.
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	Similar.
22-1301	20 Mar 54	Kwajalein	Stallion.
22-1302	20 Mar 54	Kwajalein	Native people of Utirik watching examination.
22-1303	20 Mar 54	Kwajalein	Two typical native women 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 native girl. Ir.
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	SM-8 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 Emil treating ear sore of Dr. Stulman in background.
22-1314	20 Mar 54	Kwajalein	Striker, Dr. Sh... treating
22-1315	20 Mar 54	Kwajalein	Similar.
22-1316	20 Mar 54	Kwajalein	Native children treated for anal cracks.

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SURVEY Black and White Contact Prints Relative to Surveys, Evacuation
and care of Rongolap and Utirik Natives

<u>PHOTO NO.</u>	<u>DATE TAKEN</u>	<u>LOCATION</u>	<u>CAPTION</u>	PRIVACY ACT MATERIAL REMOVED
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 airman.	
22-1328	20 Mar 54	Kwajalein	Dr. V. Bond taking blood sample from Bartolino.	
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	
22-1337	20 Mar 54	Kwajalein	Similar.	
22-1338	20 Mar 54	Kwajalein	Similar.	

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APR 1954

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PRIVACY ACT MATERIAL REMOVED

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[REDACTED]

SUBJECT: Blank and White Contact Prints Relative to Surveys, Evacuation and Care of Rongolap and Utirik Natives

<u>PHOTO NO.</u>	<u>DATE TAKEN</u>	<u>LOCATION</u>	<u>CAPTION</u>
22-1339	20 Mar 54	Kwajalein	Dr. Cronkito 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. Cronkito and Dr. Bond examining native child.
22-1343	20 Mar 54	Kwajalein	Dr. Cronkito examining native child.
22-1344	20 Mar 54	Kwajalein	Dr. Cronkito examining native baby on lap of father.
22-1345	20 Mar 54	Kwajalein	Glossup of native father and baby. Dr. Cronkito examining baby.
22-1346	20 Mar 54	Kwajalein	Glossup of native father and baby.
22-1347	20 Mar 54	Kwajalein	Glossup 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	Rongorik Atoll (Eniwotak Is.)	Men unloading spoiled food from roof
22-1364	10 Mar 54	Eniwotak Is	Men loading spoiled food onto truck.
22-1365	10 Mar 54	Eniwotak Is	Similar to 22-1363.
22-1366	10 Mar 54	Eniwotak Is	Men loading spoiled food onto truck.
22-1367	10 Mar 54	Eniwotak Is	Backing truck onto roof to dispose of spoiled food.
22-1368	10 Mar 54	Eniwotak Is	Men dumping spoiled food on roof.
22-1369	10 Mar 54	Ailinginae Atoll	Native cooler area on Sifo Island.
22-1370	10 Mar 54	Sifo Island	Area of cooler on Sifo Island.
22-1371	20 Mar 54	Kwajalein	Natives waiting for blood sample taking at dispensary.



**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>
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.J. 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.

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