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

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J-3/370.05

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

TO: See Distribution

BEST COPY AVAILABLE

May 1954

410853

1, References:

a. JTF SEVEN letter, J-3/729.3, subject: Radiological Surveys of Several Barshall 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), DHA (AEC), DBU (AEC), HICOHTERPACIS, CINCFAC PACFLT, ChAFSWP, COHAVSTAKWAJ, Additional prints may be obtained which cated in reference 1b.

4 Incl

CANCE

- 1. Preliminary Report (Eisenbud) to DEC (LEC) (Bugher) on Contamination of the Fukuryu Haru and Associated Problems in Japan (undated).
- 2. Chartr The Route or Position of Fukuryu Haru V.
- 3. N/R: Additional Ground and Air Radsafe Survey Deta During Period BRAVO to BRAVO plus 5 days.
- 4. Black and White Contect 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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P. W. CLARKSON Major General, U.S. Army Commander RUD

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JOHN C. BUGHER, 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 rlong 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

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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 Yaisu. The facts of the incident, as determined by the J Foreign Office and communicated (1) to the Ambagesdor, are the foreign

(1) The course of the vessel from its departure on January 27 to its return to Yaisu on March 14 is plotted in Figure No. 1. At O412 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° 532° north and 166° 342' east. This position is only a few miles from the easternance 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, ashes began to fall, turning the deck white. The position of the vessel at this time is given at 11° 563/h¹ north and 166° h22¹ east. The ashes kept falling until here at which time the position of the vessel was estimated at 12° Jh¹ reasonable 201 55 east.

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(1) Aide Memoire of March 27

(5). In the following two or three last all the The crew reported slight heudaches and some of them were named and in ar & days, evidence of burns expland parts of the body began to appear. oni

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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 2 days following the return of the Fukuryu Maru to Yaizu, but before the mishap had come to the attention of the Embassy.

(1) The crew first contacted the ship's owner, 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 Evoritau Hospitai.

(2) Two of the fishermen, , who were in more serious and condition left the Kyoritsu on March 15 for Tokyo where they visited Doctor Shimisu at the Tokyo University Hospital.

() Professor Shiokawa made radiation measurements of the ship on March 16 and on the basis of his findings all of the crew members consulted a physician who recommended that the men be hospitalized.

THE ROLE OF THE JAPANESE SCIENTISTS

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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. Tsuzuli of his home on the evening of March 24, he was frank in stating his apprthat the American scientists would deny him and his associates profession. recognition due them for their accomplishments in the diagnosis and treatment of the fisherman. He referred frequently to his experience in 1945 when he lead the teams of Japanese investigators into Hiroshima and Nagasaki only to have his work interrupted by the Occupation investigators who undertook their own studies. Dr. Tsuzuki seemed to accept my assurances that in the present situation it was the intent of the American scientists to assist the Japanese and that all of our findings would be available to them and could be used as they saw fit in their own publications.

Dr. Tsuzuki was outwardly friendly to both Dr. Morton and myself until the time of his departure for Geneva 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 he lacked influence on his japaness colleagues.

were initially at odds with the group at the National Institute of Heal headed by Dr. Kobayashi. Moreover, the local physicians at Yaizu, where all but two of the patients were hospitalized until March 29 were anxious for various reasons that the patients remain there. Their lack of cooperation with the American scientists may have been motivated by their krowledge that the Americans advised that the patients be transferred to Tokyu,

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the accepted procedures of modern amorican medical (3) prectice segure strange to the Japanese, and their concepts are strange to Us. Formenterple, 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 occassions that the taking of duplicate blood smears by Japanese and American investigators was an unnessary duplication, and an ordeal 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 rediological 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) The were quick to identify qualitatively some of the radioactivo 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 occured.

(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 radius 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 Se initial conversations with them they freely esked 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 Declassified DIR 5200.10 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 become apparent in subsequent Portions of the report.

OFFERS OF ASSISTANCE TO THE JAPANESE

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When I arrived in Tokyo on March 22 Dr. Norton has intend, offered the Japanese the full facilities of the Atomic Boun Casuality Countission. General Hull had likewise offered the facilities of the Fer Er t Command. . These offers were accompanied by a spirit of sympathy and the desire to assist the Japanese investigators in their enforts to evaluate the incident and to restore the health of the fishermen. It a meeting with top

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Jepsynes scientists and government officials on March 24, I made a further office, in behilf of the Atomic Energy Commission, to provide whatever facilities were available for evaluation of the radiological factors involvod 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.

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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 Cutie Pie, 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 asi and reported the following: Sr 89, Y91, Zr95, Nb95m, Nb95, Ru?03 Rh106, Sb127, Tel32, I131, I132, Bal40, Lal40, Cel41, Cel46. () recently they have completed a semi-quantitave analysis for a fer isotopes),

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

(6) They had administered a duse of ash to 1 mouse, as described earlier.

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(7) Using an imersion type GM tube, they had demonstrated radioactivity in the urine of 3 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: Dictessified

(1) Complete radiochemical analysis of 24 hour urine collections from all patients. In view of the importance of this analysian evolution the status of the patients, I urged that these samples is an unad immediately and assured them that in one week 1, 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 . llections be made at weekly intervals. They seemed anxious 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 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. Kobayoshi 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 esh recovered is 50 millocuries. They now deny that this much is available and have no inventory of the material. Except for the small pount as 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: Nonitoring procedures was devised but I deferred the question of maximum permissable 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 gobservations whether the catch should be accepted or rejected. As noted which was alledgely contaminated.

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SPECIAL PROBLEMS ARISING OUT OF THE INCIDENT

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

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(1) Contaminated Tuna.

(2) Apprehansion of long-range contamination of Japan and its fishing grounds.

- (3) Radiological factors affecting the fishermen:
 - (a) Estimating the whole body duse.
 - (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 22 the subject of radioactive tunk 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 L/

The Japanese fishing fleet at the present time consists of even 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 $M_{\rm ey}$ through July. During this season, the fishing grounds are located relatively close to the Asiatic 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 Yaizu with a catch of 28,000 pounds of Stuna. We must accept the fact that these tuna were excessively cong taminated and that the decision of the Japanese to disport of those

L. An excellent report of technical information about the space mese tuna fisheries in Japan is report No. 104 issued by the Natural Resources Section of SCAP in March, 1948.

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that contamination was con-Ther W1887 3ng. 18 19 80 Delleve fined toothe surface of the fish and occured 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 Fast Command and loaned to the Japanese. In addition, they mustered 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 kind 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 albacor.

Tuna shipments involve many fish and it is not an easy matter to monito. 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 uso 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 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 mersurements made in this way. I informed the DOD DIR 51 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 cut 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 be mechad 1 proposed, and that when and if contaminated fish well the 👌 subuti 🖂 advised and given the opportunity immediately to make a first hand inspection of the fish. My recommendations would depend the what I found.

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

- S.S.

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

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

(a) The Koei Meru, then at the port of Misaking of the ingrees, 22 minutes north, 178 degrees, 19 minutes east on March in the state of the of the ship was reading 2003 counts per minute, the catch is a point per minute and the men 500 counts per minute. The fish had been emperiated awaiting a decision as to their safety.

(b) The Myojiim Maru was at Shiogone. On March 1 it for 29 degrees, 8 minutes north, 177 degrees, 19 minutes east. The survice of the ship was reading 50 to 400 counts per minute, the fish 56 to 84 counts per minute, and the crew 40 to 90 counts per minute.

(2) The Embassy informed the Ministry of Welfare of my interest in seveing 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 versels 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 Myojiim Maru had left Shiogone that forming, 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 Frieign Ministr, again called to inform the Embassy that the Koei Maru had left the port of Misski one hour before to dump its contaminated catch at sea. The Embassy asked the Foreign Ministry to call the vessel back inasmuch as it was only one hour off port but the Japanese stated this could not be accomplished.

To summarise the tuna situation, it is my belief that no significantly contaminated tuna have arrived in Japan except for the catch from the Fukuryu Maru. Rigerous 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 tung market has stabilized and turg representatives of American tung interests have informed me that their companies are no longer concerned over the problem.

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rehension of Long Range Contamination of Japan a.d its

Japinese 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,

ishing Grounds

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" failing in various • parts of Japan are undoubtedly dust or soot 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 date is 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 confurence with the Japan 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 wager to accept and I requested 4 sets of equipment which has since arrived from the States. Mowever, 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 end 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 interpretor, 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 those islands in relation to possible sites of weapons testing is such that the Russian testing program is opt to produce more fellout than events in the Marshalls or Nevada.

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Estimating the Whole Body Dose

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I doubt that it will be possible to make a satisfactory get mate of either the Beta or Gemma dose the fishermen received - know the the ash fell in such quantities that the deck of the and the white a w there was sufficient material to develop visible footprints. Unfor unstably, this is the limit of our information on how much ash fall and how long it remained on the ship. The fishermon washed the dacks in order to remove the ash and according to their reports their washing was effective. "hen the vessel arrived in Yaizu much of what versioned was removed.

between the Construction agreement. In the curious that the Beta-Gas another about 1. This would indicate that the bulk of the ash had be that the ponetrated to the porcus wood structure of the dock, thus absorbing the Betas. The Gamma radiation over most of the ship was approximately 40 m.r. por hour when the ship arrived in port. If we extrapolate this back to $H \neq 3$ hours, the time the ash began to fall, the intograted 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 K. 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 3sh 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 fishermen was adversely affected by the probability of excessive deposition of long-lived bone-seeking isotopus. 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 mode for EDTA or the effect produced by it. /part from the fact that we unable to undertake urine analysis at that time, it is ness evaluate they did not understand the dynamics of fission product metabolism and were not used to thinking in terms of urinary excretion levels as on 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. Out

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UNITED STATES OF NOERICA PRIVACY ACT MATERIAL REMOVED

6 April 1954

Dr. Rokuso Kobayashi National Institute of Health Welfers Ministry TOKYO

Dear Dr. Kobayashir

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 accupted as well within the limits of safety. The results follow:

> - 720 disintegrations per minute per liter - 510 " " " " " "

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Data on the individual radio-isotopus will be tolegraphed 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 men.

As you know, the rate of excretion of fission products at given time after absorption bears a relationship to the quantities usposited in the various tissues. The principal radiochemical constituents at this time are due to Sr 89, LalkO and the Rare Earths. These are isotopes which have relatively short half-lives and are eliminated from the body with comparctive rapidity either by radioactive decay or ccretion. In the case of these patients, Sr90 is most certainly an insignificant fraction of the total absorbed redioactivity. The permissible urinary excretion, considering the isotopes involved, 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 boneseeking isotopes are deposited in their tissues. It is regrettable that the public continues to be misinformed in this respect. Certainly the results reported above argue convincingly that only minimal, medically insignificant amounts of fission products have been absorbed into the tissues of the two patients for whom results are availe

DOD DIR 5200.

6 April 1954 Dr. R. Kobayashi - 2

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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 radiochamical 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 ware delivered to us, but we have not as yot received samples from the 16 patients now hospitalized at the Daiichi Hospital.

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Rospectfully yours,

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

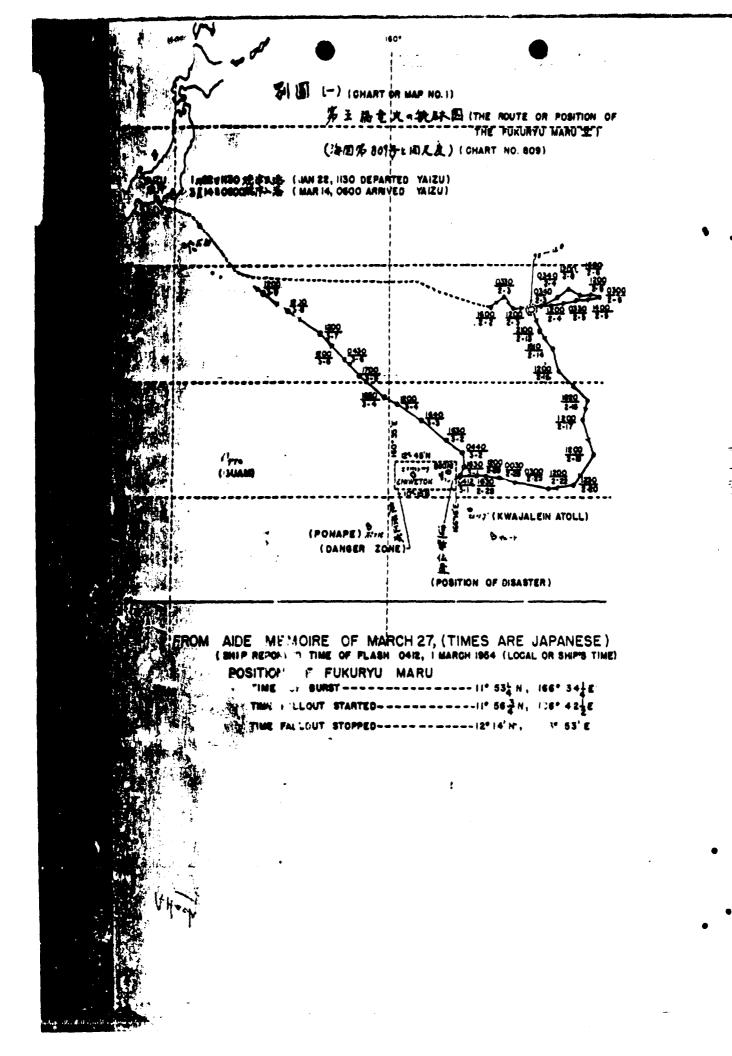
ME/ams/hoc

CC: Dr. Nakaidsumi Dr. Kakohi

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

19 April 1954

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MEMORANDUM FOR RECORD

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

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

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

		Maist height on AN/PDR TIB in mr/hr
Eniwetak Island (Rongerik Atoll)	012315	<u>~</u>
Rongelap Island	020645	4 - b
Ailinginae Island	030445	445
Utirik Atoll	030145	160
Inisetok Island (Rongelap Atoll)	020645	3000

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

(1) NYOO Kwajalein Flight AHLE:

Atol1	(<u>Zebre</u>)	Intensity (<u>mr/hr</u>)	<u>Atoll</u>	(<u>Zebra</u>)	Intensity (<u>mr/hr</u>)
Lae Wotho Rongelap *Taongi Utirik Ailuk Likiep	020010 - 020100 020140 020325 020451 020516 020540	.080 1.000 1350.000 1.400 240.000 76.000 6.000	Ujae Allinginae Rongerik *Bikar *Taka Jemo	02C024 020128 020200 028 0.0075 020520	,100 429,000 17 心 000 50につつ 16につつ 18.000

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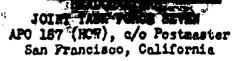
(2) NYOO Kunjalein Alinit Elinit

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(2)	NYOO KWEJ	alein riigh			
	DTG (Zebre)	Intensity (mr/hr)	ALOLL	<u>DTG</u> (<u>Zebra</u>)	Intensity (<u>mr/hr</u>)
Atoli				021945	,080,
	021920	.020	Ailinglapalap	030047	.200
Namu	030223	.200	jbon.	030006	.200
Namorik	030024	.200	Jaluit	0222.28	.600
Kili	022309	.600	Arno		.400
MS11		2.000	Aur	022145	4.000
Majuro	022216	3.600	Erikub	022]02	4
Walcelap	022124	20.000			
Wotie *	022051				
(3) <u>NYOO Kwa</u>	jalein Flig		030005	.600
	030100	, 800	Pingelap	022145	.300
Kusaie	000000	,600	Ponape	022147	
¥okil	022330 022015	.800			
Ujelang	022017	,			
(1	4) <u>NYOO Gu</u>	am Flight Ed		060010	.000
	01010	.000	Namonuito	060110	.000
Guam	052140	.000	Kuop	060200	000,
Truk	060100	.000	Namoluk	060230	.000
Losap	060135	.000	Satawan	060615	,000,
Lukunor	060215	.000	Guam	000017	-
Pulap	060404				Ę
. (5) <u>NYOO Oa</u>	hu Flight (<u>}∂ORG⊉</u> :	051755	20
		.200	Niihau	051755	•
Kau ai	051740	.100	Nihoa	0,077	.200
Kaula	051805		Fr. Frigats	Sh1. 052032 C52225	.200
Nacker	052000	200	Maro Reel	052330	.080
Gardner Pinn.	052124	0.00	1.1	060055	.100
	052250		Midway	000000	
Laysan Pearl-Hermes	Rf. 000029				
•	(6) <u>NY00 (</u>	ahu Flight		041.747	.004
	04171	a .0 30) Lanai	042035	
Oahu				040000	,
Hawaii	04184		•		
Volokai	04211		•		
	(7) <u>NYOO</u>	Gilbert Isl	and Flight KING	05231	s .030
•		04	o Nukunau	06001	1 200
Beru	05230		o Tamana	0/001	1
Arorae	05234		· · · · · · · · · · · · · · · · · · ·	00004	.040
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Marakel	0602	47			•
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HENORANDUM FOR RECORD

1 May 1954

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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 (AFC), HICOU-TERPACIS, CINCPAC, CINCPACFLT, CHAFSHP, COMMAVSTAKHAJ)

	PHOTO NO.	DATE TAKEN 4 Mar 54	<u>LOCATION</u> Utirik	<u>CAPTION</u> Trust Territory Representative and Interpreter arriving Utirik from Kwaja- lein 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	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 Kwajalei
	12	5 Mar 54	Xwajalein	Utirik natives being transported to compound.
	22-1012	11 Mar 54	Rongelap	Whale boat coming onto Ronge" pp.
	22-1013	11 Har 54	Rongelap	Navy work party preparing gear to pull g native boat onto beach.
	22-1014	11 Mar 54	Rongelap	Native buts on Rongelap Island.
	22-1015	11 Mar 54	Rongelap	Navy men pulling native boat onto beach.
	22-1016	11 Har 54	Rongelap	Similar, different angle.
Declassified	22-1018	11 Har 54	Rongelap	Whaleboat coming alongside USS NICHOLAS.
5	22-1019	11 War 54	Rongelap	Crew of NICHOLAS community to hoist
	22 - 10 20	10 Mar 54	Sifo Island	Navy men taking native aut apart.
	22-1021	10 Mar 54	Sifo Island	Hr. Strope taking sand sample from Sifo Island for radiation tests.
N'MAND	22-1022	10 Har 54	Sife Island	Men preparing native equipment for pro- Declassified DOD Dif \$200,10

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Declaratified DOD DIR 5200.10 SUBJECT : Black and White Contact Frint Alasive to Surveys, Evacuation and Care of Rongelap and Utirik Natives

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<u>PHOTO NO.</u> 22-1023	DATE TAKEN 10 Mar 54	LOCATION Sifo Is.	<u>CAPTION</u> Nr. Wilds, Dept of Interior representa- tive placing native goods under cover for protection.
22-1024	10 Har 54	Sifo Is.	Navy men cleaning native property before placing in tents.
22-1025	10 Har 54	Sifo Is.	W. W. Baum climbing coconut trop to secure sample for radiation tests.
22-1026	10 Har 54	Sifo Is.	Soule checking radiation of drying coprain tent area.
22-1027	10 Mar 54	Rongelap	Interior Hongelap School: Front-loft.
22-1028	10 Mar 54	Rongolap	Same as above: Front-right.
22 - 10 29	10 Var 54	Rongelap	Extorior of Rongelap School.
22-1030	10 Mar 54	Rongerik	Recfer storage.
22-1031	10 Mar 54	Rongerik	Dumping spoiled food.
22-1032	10 Mar 54	Rongerik	Whaleboat survey party going ashore
			THE A AME
22-1033	10 Mar 54	Rongelap	Survey of native h ⁺⁺
22-1033 22-1034	10 Mar 54 3 Mar 54	Rongelap Utirik	•
	•		Survey of native h ⁺⁺
22-1034	3 Nor 54	Utirik	Survey of native h ⁺⁺ Aerial: Utirik Atoll from PBM,
22-10 34 22-1035	3 Mar 54 3 Mar 54	Utirik Utirik	Survey of native h ⁺⁺ Aerial: Utirik Atoll from PBM. Boy and old man on Utirik.
22-1034 22-1035 22-1036	3 Mar 54 3 Mar 54 3 Mar 54	Utirik Utirik Utirik	Survey of native h ⁺⁺ Aerial: Utirik Atoll from PBN. Boy and old man on Utirik. Village shot from lagoon.
22-1034 22-1035 22-1036 22-1037	3 Mar 54 3 Mar 54 3 Mar 54 3 Mar 54 5 Mar 54	Utirik Utirik Utirik Utirik	Survey of native h ⁺⁺ Aerial: Utirik Atoll from PBM, Boy and old man on Utirik. Village shot from lagoon. Acrial of island. Gen Clarkson with native woman and
22-1034 22-1035 22-1036 22-1037 22-1047	3 Mar 54 3 Mar 54 3 Mar 54 3 Mar 54 5 Mar 54	Utirik Utirik Utirik Utirik Kwajalein	Survey of native h ⁺⁺ Aerial: Utirik Atoll from PBN. Boy and old man on Utirik. Village shot from lagoon. Aerial of island. Gen Clarkson with native woman and childron. Gen Estes, Capt Socy, Adm Clarko, Gen Clarkson talk to John, Magistrate of Rongelap, and from Utirik.
22-1034 22-1035 22-1036 22-1037 22-1047 22-1049	3 Mar 54 3 Mar 54 3 Mar 54 3 Mar 54 5 Mar 54 5 Mar 54	Utirik Utirik Utirik Utirik Kwajalein Kwajaloin	Survey of native h ⁺⁺ Aerial: Utirik Atoll from PBN. Boy and old man on Utirik. Village shot from lagoon. Aerial of island. Gen Clarkson with native woman and childron. Gen Estes, Capt Socy, Adm Clarko, Gen Clarkson talk to John, Magistrate of Rongelap, and from Utirik.



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	22-1053	DATE TAKEN 5 Mar 54	<u>LOCATION</u> Xwajalein	CAPTION T. Capello and C. Rothrock, NBC, USN bohind dosk start modical rocord on and daughtor,
¢\$	22-1054	5 Mar 54	Kwajalain	R. M. King, HM3 and M. L. Duncan, HM3 take blood samples from baby's too, mother next right.
•	22-1055	5 Nar 54	Kwajalain	M. L. Duncan, R. H. King take blood sample i'rom Utirik boy, mother noxt.
	22-1056	5 Mar 54	Kwajaloin	M. L. Duncan takes sample of blood from Utirik man.
	22-1057	5 Mar 54	Kwajaloin	Similar, different nativo man.
	22-1058	5 Mar 54	Kvajaloin	W. E. Rico, HMC, making blood count at microscopo.
	22-1059	5 Mar 54	Kwajaloin	L. W. Kraushaar, HM2, preparing blood sample for a cell count.
	22-1060	5 Mar 54	Kunjalci:	Similar, difforent angle.
	22-1061	5 Har 54	Kwajaloin	Utirik mothor bottle fooding baby at dispensary.
	22-1062	5 Mar 54	Knajaloin	Morshalluss wolting ourn for large prick at disponsory.
	22-1063	5 Mar 54	Kwajaloin	HM2 Kraushaar, gotting blood sample from eldorly Utirik man,
	22 - 1064	5 Mar 54	Xwajaloin	Procedure moeting of Nativo Aid (peration; loft to right: Adm Clarke, Lt Bowman, O. DoBrum, M. Wilds, Cdr E.F. Grable, Lt Guna, Ledr R.D. Halpin, Cdr W.J. Hall, Cdr Blasdel, Capt D.A. Sooy.
	22 -1066	5 Mar 54	Kwajalein	Nativo women prepare fruits.
	22-1067	5 Mar 54	Kwajalcin	L.V. Delong issuing soap for natives' decontamination baths in lagoon.
	22 -1068	5 Mar 54	Kwajalein [:]	Male nativos taki - decontam. mation baths

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5 Har 54 22-1069 IS: Nativo compound at Najaloin. Kwajalcin

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SUBJECT: Black and White Contast Prints Balanirs to Jurvays, Evecuation

1.6	CALC OL .	magereb and	Offitt ud AAAB
PHOTO NO 22-1071	DATE TAKEN 5 Mar 54	<u>LOCATION</u> Kwajaloin	CAPTION Natives leaving Church Service.
22 -1072	5 Mar 54	Kwajaloin	CWOHC H.J. Spanglor with native boy red dispensary.
22-1073	5 Mar 54	Kwajaloin	Drs. Cdr W.J. Hall, Capt DoMont, Lt J.S. Thompson,
22-1044	5 Har 54	Kwajaloin	Native roman prepare for decontamination bath,
22 -1075	5 Mar 54	Krajaloin	Similar: LS: Island background (Dalong issuing soap).
22-1076	5 Nar 54	Kwajaloin	Similar: LS: Lagoon background (DoJong issuing soap).
22-1077	5 Har 54	Kwajaloin	Decontamination bath: Mother with baby in lagoon,
22-1078	5 Mar 54	Kwajaloin	and wife (Utirik) in compound
22-1079	5 Har 54	Kwajalein	Utirik man with children in compound.
22 -1080	5 Har 54	Kwajaloin	Native mother with baby drinking coconut.
22-1081	5 Har 54	Kwajalcin	Native father with hoby do the state.
22-1082	5 llar 54	Kwajaloin	V.C. Eborlo playing with native kids.
22-1083	5 Har 54	Kwajalsin	W.W. Naylor, DC2, W.E. VanNattan, A03, CHO L.G. Barr, J.C. Westbroo', AKL. Monitor team.
22-1084	5 Nor 54	Kwajaloin	Drs. Lt Thompson, Capt DeMont, Gordon Dunning.
22-1085	5 Nar 54	Kwajalein	We stbrook monitoring native woman with baby.
22-1086	5 Nor 54	Kwajaloin	Westbrook monitoring young native girl.
22 -1087	5 Har 54	Kwajalcin	DoJong and Westbrook monitor native men and boys.
22-1088	5 Har 54	Kwajaloin	L.V. Dolang not any subjecting to M.
22-1089	5 Mar 54	Kwajalein	Naylor ø 2 VauNattan monitor nativo men
22 -1090	5 Har 54	Kwajaloin	Sailors monitor native man with baby.
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Care of Rongelap and Utirik Matives to Surveys, Evacuation

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	<u>рното но</u> 22-1091	DATE TAKEN 5 Mar 54	LOCATION Kwajalein	CAPTION
	22 -1092	5 Nar 54	Kwajalein	Na ylor and VanNattan read native boy's foot.
	22 - 10 93	5 Nar 54	Kwejaloin	DeJone reading lady's hair (goighr)
•	22 -1094	11 Mar 54	Kwajalein	King John (Rongelap) talking to Drs. Dunning, DeMent, Hall and Mr. O. DeBrun.
	22 -1095	11 Mar 54	Kwa jalein	Drs. Dunning, DeMent, unknown, Hall, unknown.
	22 -1097	11 Mar 54	Kwajaloin	Sailors play hopscotch with nativo kids.
	22 - 10 98	11 Mar 54	Kızajalein	Taking chow to native mess (from truck),
	22-1099	11 Har 54	Kwajaloin	Natives in chow line, Sailors serving.
	22-1100	11 Har 54	Kwajalcin	USHC Band playing for Harshalless.
	22-1101	11 Mar 54	Kwajaloin	Similar to 22-1100.
	22 -1 10 2	11 Mar 54	Kwajalein	Native barber giving haircuts.
	22-1103	11 Mar 54	Kwajalein	Ensign Peters and Mr. Even
	22-1104	11 Mar 54	Kwajalein	Peters and Evans handing out ARC itcms to natives.
	22-1105	11 Mar 54	Kwajalein	Similar to 22-1104.
	22-1106	11 Mar 54	Kwajalein	Lt Harcella (murse) with Dr. Dellent, Capt, USN.
	22-1107	11 Mar 54	Kwajclein	Peters and Evans giving candy to native kids.
	22-1108	11 Har 54	Kwajaloin	Marshallese playing volley-ball,
	22-1109	11 Mar 54	Kwajalcin	Peters and Evans unwrapping candy, etc. :for natives.
	22-1110	11 Mar 54	Kwaj aloin	J.C. Westbrook Will Suitor and Dr. DeMent check to Summer Mr. Alt to contami- nation wash. Ensigns Johnson 2.2 Peters look on.

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SUBJECT: Black and White Contact Frints Relative to Surveys, Evacuation

		Land Low		
	<u>PHOTO NO.</u> 22-1111		<u>LOCATION</u> Kwajaloin	CAPTION Navy wives donate clothes to Marshalloso; left to right: Mrs. C.E. McLanahan, Mrs. R.S. Clarke, Mrs. W.H. Shannon, and Mrs. A.L. Howe.
	22-1112	11 Mar 54	Kvajaloin	Jack Tobin (District Anthropologist) . with Rongelap Magistrate John and Utirik's
	22-1114	11 Mar 54	Kwajaloin	Narse (I.t) Marcella Smith, Dr. (Lt) J.S. Thompson, and Jabwo (native doctor) and Ellen.
	22-1115	11 Mar 54	Kwajaloin	W.E. VanNattan and W.W. Naylor monitoring native clothing in laundry.
	22-1116	3 Mar 54	Utirik	Utirik Atoll before evacuation. Natives in foreground, 1stLt W.J. Larson, USAF, (Instrumentation Officer) and Eng R.P. Keiser, USNR, arriving in rubber boat. Seaplane in background.
	22-1117	3 Mar 54	Utirik	Native colony on Utirik Atoll.
	22 -1118	3 Mar 54	Utirik	Similar, beach scene.
	22-1119	3 Mar 54	Utirik	Similar, nacive house.
	22-1120	3 Mar 54	Utirik	Outrigger and native paddling toward native colony at Utirik.
	22-1121	3 Mar 54	Utirik	Native colony from lagoon - Utirik,
	22-1122	3 Har 54	Utirik	lstLt W.J. Larson getting soil samples, native colony in background.
	22-1123	3 Har 54	Utirik	Similar.
	22-1204	20 Mar 54 -	Kwajaloin	Dr. Conard examining
	22 -1205	20 Har 54	Kwajaloin	Dr. Conard examining neck rash on
	22 -1206	20 Nar 54	Kwajalein	Left to right: Dr. Frand, milves, Mahaffey, Evant of ator will photo.
	22-1207	20 Har 54	Kwajalein	Group shot of native Cildron.
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	PHOTO NO. 22-1208	DATE TAKEN 20 Mar 54	<u>LOCATION</u> Kwajaloin	CAPTION Portrait of Chief Magistrate of Rongelap, John,
	22-1209	20 Nar 54	Kwajaloin	Weather station personnel being examined by Dr. Conard.
	22-1210	20 Mar 54	Kwajalein	Dr. V. Bond examining hair of
	22-12 <u>11</u>	20 Kar 54	Ktajaloin	Group shot of weather station personnel subjected to fallout from BRAVO: 1 loft to right: Seated, A/IC R. Harmer, S/Sgt L. Hinchester, A/IC R. Pottingill, A/IC B. /ndrows, A/2C D. Black, A/IC W. Smith, A/IC L. Bushkin; standing: A/IC, D. Baker A/IC J. Ashby, S/Sgt C. Townsond, H/Sgt R. Pletsch, A/IC Azbill, A/IC. R. Roper, A/IC Curbow, HOJG J. Kapral, S/Sgt A. Campbell.
	22-1212	20 Mar 54	Kwajaloin	Native children cating lunch.
	22-1213	20 Mar 54	Kvajaloin	Adults and children eating lunch,
	22-1214	20 Mar 54	Ewajalein	Similar to 1213.
	22-1215	20 Mar 54	Kwajaloin	Similar to 1213.
	22-1216	20 Mar 54	Kwajaloin	Similar to 1213.
	22-1219	20 Mar 54	Kwajaloin	Dr. Conard examining natives.
	22-1220	20 Mar 54	Kwajaloin	Similar.
	22-1221	20 Mar 54	Kwajalein	Left to right: Dr. Conard, Marta, Jonita and Bilict (interpreter) - examination,
	22-1222	20 Mar 54	Krajaloin	Left to right: Mahaffey, Evans, Dr. Conard, Fratt with natives at examination.
	22-1223	20 Mar 54	Kwa jalei n :	Dr. Conard and George Pratt discuss shot of native exemination, camere in back- ground.
	22-1224	20 Mar 54	Kunjalein	Dr. Conard examine back of a ork of nativo.
	22-1225	10 Har 54	Rongerik (Enivotak Is)) Radsafe man checks g tent (ionisphere recording station) for radiation level.
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	<u>PHOTO NO</u> 22-1235		TAKEN IT 54	<u>LOCATION</u> Enivotak I:	<u>CAPTION</u> Navy man holding sick rat (radiation) at Eniwotak main camp.
	22-1237	8 Mar	54	Rongolap	Native workshed along basch.
٠	22-1238	8 Har	• 54	Rongolap	Interior of nativa home.
	22-1239	8 Maj	: 54	Rongelap	Similar.
	22-1240	8 Mar	• 54	Rongclap	Radsafe man checking outrigger canoe for fallout radiation.
**	22-1241	8 Mar	54	Rongolap	Similar.
	22-1242	8 Mar	54	Rongolap	Boach scone of Rongelap.
	22-1243	8 Mar	54	Rongela p	Loft to right: Mr. H.E. Wilds (Department of Interior Representative) and Lt Fink, Executive Officer of USS NICHOLAS talking to destroyer by radio.
	22-1244	8 Mar	54	Rongelap	Radsafe man checking native comobary
	22-1245	8 Mar	54	Rongelap	Similar to 22-1244.
	22 - 12 46	8 Mar	54	Rongclap	Typical notivo hours in wards
	22-1258	8 Mar	54	Rongolap	Pigs left at village after ovacuation.
	22-1260	8 Mar	54	Rongelap	Chickons left behind by nations.
	22-1261	8 Mar	54	Rongolap	M.E. Wilds sitting in whaleboat.
	22-1262	8 Mar	54	Rongelep	Dr. Scoville sitting in whaleboat.
	22-1263	8 Mar	54	Rongelap	Whaleboat anchored in lagoon.
	22-1264	8 Mar	54 -	Rongolap	Two whalebonts together in lagoon for conference on procedure.
	22-1265	8 Mar	54	Rongclap	Whaleboat undorway in lagoon.
	22-1266	8 Har	54	Rongerik	Navy personnel of the theory of the the the the the the the theory of the
	22-1267	8 Mar	54	Rongerik	Similar, Jufforont view in moss hall.
	22-1268	8 Mar	54	Rongerik	Interior of reefer.
	22-1269 8	8 llar	54	Rongerik	Similar. Pacintalied
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	PHOTO ND. 22-1270		LOCATION Rongorik	<u>CAPTION</u> Intorior of dispensary on Enivetak.
43	22-1271	8 Har 54	Rongorik	Similar,
	22-1272	8 Har 54	Rongerik	Interior of supply room on Enimetak.
	22-1273	8 Har 54	Rongerik	Similar.
	22-1274	8 Mar 54	Rongorik	Interior of living quarters on Enjuetak.
	22-1275	8 Mar 54	Rongorik	Similar, difforent angle.
	22-1276	8 Mar 54	Rongorik	Similar.
	22-1277	8 Mar 54	Rongerik	Similar.
	22 -1278	8 Mar 54	Utirik	Boach scone in front of villago,
	22-1278	8 Mar 54	Utirik	Viow along main path in Utirik villago,
	22-1280	8 liar 54	Utirik	Villago soono, Utirik.
	22-1281	8 Mar 54.	Utirik	Main path looking away from villago,
	22-1282	8 Mar 54	Utirik	Nativo home outside main part of wide store
	22-1283	8 llar 54	Utirik	Outriggor canous along buich water
	22-1284	8 Mar 54	Utirik	Mon loading radiation samples in whaleboat on Utirik boach.
	22-1285	8 Nar 54	Utirik	Whaleboat boing raised aboard UCS Michu
	22-1287	8 Mar 54	Utirik	Radsafe man chocking Dr. Scovillo,
	22-1288	9 Mar 54	Rongorik	Mon in main camp on Enivetak.
	22-1290	9 Mar 54	Rongolop	Radsafe mon landing on Rongelap beach from whaleboat.
	22-1 291	9 Mar 54	Rongelap	Radsafo mon talking in village on Rongelap
	22 -1292	9 Mar 54	Rongelap	:Similar.
	22 -1293	9 Mar 54	Rongolap	Burned Church and Stratt as
	22 -1294	9 Mar 54	Rongelap	Similar, different angle.
	22-1295	9 Mar 54	Rongolap	Native wash house in Rongelap village.
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	PHOTO NO. 22-1296	DATE TAKEN 9 Mar 54	LOCATION Rongolap	CAPTICH Rongolap villago sceno.
	22 -1297	9 Har 54	Rongelop	Abandonod goose on Rangalap beach.
	22 -1298	20 Mar 54	Kwajaloin	Dr. Cronkito axamining King Ian of Utirik
	22-1299	20 Mar 54	Kwajaloin	Similar,
	22-1300	20 Har 54	Kwajaloin	Similar.
	22-1301	20 Har 54	Kuajaloin	Similar.
	22-1302	20 Hur 54	Kwajaloin	Nativo poople of Utirik watching examina- tion.
	22-1303	20 ilar 54	Kwajaloin	Two typical native women and two girls.
	22-1304	20 Mar 54	Kwajaloin	Nativos watching oxamination.
	22-1305	20 Har 54	Knajeloin	Dr. Conard bohind nativos watching oxymi- nation.
	22-1306	20 Mar 54	Kwajalo in	Dr. Cronkito examining native girl's - mouth.
	22-1307	20 Mar 54	Knajaloin	Dr. Cronkite commining reasons in ir-
	22-1308	20 Mar 54	Krajaloin	Portrait of King Ian of Utirik.
	22-1309	20 Nar 54	Kvajaloin	Group shot of George Pratt, King Ian, Dr. Cronkite and King Ian's alfe.
	22-1310	20 Mar 54	Kwajalcin	TU-8 photographer photographing matives for identification purposes.
	22-1311	20 Mar 54	Kvajalcin	Similar.
	22-1312	20 liar 54	Kwajaloin	Similar,
-	22-1313	20 Uar 54	Kwajaloin :	Emil treating ear sore of Tima, Dr. Shulman in tackground.
	?2-1314	20 Har 54	Kwajaloin	Similar, Dr. St troating Tima.
	22-1315	20 Har 54	Kwajaloin	Similar,
	22-1316	20° Mar 54	Evajalein	Nativo childron tre and for anal cracks.
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Allack and White Contect Prints Rolative to Surveys, Evacuation and corre of Rongolap and Utirik Matives

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4	<u>PHOTO NO.</u> 22-1317	DATE TAKEN 20 Mar 54	LOCATION Krajaloin	<u>CAPTION</u> Similar
	22-1318	20 Nar 54	Kanjaloin	Nativo modic troating mouth of nativo child.
	22-1319	20 Mar 54	Kwajaloin	Dr. Shulman treating eye of Naimira.
	22-1320	20 Mar 54	Kwajaloin	Nativo modic troating amus of nativo child.
	22-1321	20 Mar 54	Kwajaloin	Dr, Shulman treating nock sore on Tinake, Nursu Emil assisting.
	22 -1322	20 Mar 54	Kwajalcin	Sinilar.
	22-1323	20 Nar 54	Kwajaloin	Similar.
	22-1324	20 Har 54	Kwajaloin	Similar.
	22-1325	20 llar 54	Kacjaloin	Taking blood sample from Airman Lagné.
	22-1.326	20 Mar 54	Krajeloin	Similar,
	22-1327	20 Mar 54	Kwajaloin	Taking blood samples from weather station airman.
	22-1328 _.	20 Mar 54	Kwajaloin	Dr. V. Bond taking blood sample from Bortalino.
	22-1329	20 Mar 54	Kwajaloin	Similar to 22-1328.
	22-1330	20 Nar 54	Kvajaloin	Similar, difforent airman.
	22-1331	20 Mar 54	Kwajaloin	Blood testing and counting roon.
	22-1332	20 Mar 54	Kwajaloin	Similar, different viow.
	22 -1333	20 Har 54	Krajaloin	Similar, different view.
	22-1334	20 Har 54	Kwajaloin	Dr. V. Bond taking blood samples from nativo.
	22-1335	20 Mar 54	Kvajeloin [!]	Similar, different angle,
i	22-1336	20 liar 54	Kvajaloin	Similar, but the State of Sum Western
:	22-1337	20 llar 54	Kvajaloin	Similar.
	22 -1338	20 Mar 54	Kwajaloin	Similar.

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The Cars of Rongolap and Utirik Nativos

 PHOT BY DATA TAKEN LOCATION CAPTION Dr. Gronkito and Dr. Bond talking to native ohild. 22-1340 20 Mar 54 Kwajaloin Similar, but with Pr. Bond in group. 22-1341 20 Mar 54 Kwajaloin Similar, but with Pr. Bond in group. 22-1342 20 Mar 54 Kwajaloin Dr. Gronkito and Dr. Bond oxamining native ohild. 22-1343 20 Mar 54 Kwajaloin Dr. Gronkito and Dr. Bond oxamining native ohild. 22-1343 20 Mar 54 Kwajaloin Dr. Gronkito and Dr. Bond oxamining native ohild. 22-1343 20 Mar 54 Kwajaloin Dr. Gronkito and Dr. Bond oxamining native ohild. 22-1344 20 Mar 54 Kwajaloin Dr. Gronkito and maining native ohild. 22-1345 20 Mar 54 Kwajaloin Dr. Gronkito and baby. Dr. Gronkito commining baby. 22-1345 20 Mar 54 Kwajaloin Closcup of native fathor and baby. Dr. Gronkito commining baby. 22-1345 20 Mar 54 Kwajaloin Closcup of King Ian of Utirik. 22-1348 20 Mar 54 Kwajaloin Similar. 22-1349 20 Mar 54 Kwajaloin King Ian, wife and son. 22-1349 20 Mar 54 Kwajaloin King Ian, wife and two sons. 22-1349 20 Mar 54 Eniwotak Is Man loading spelled food onto truck. 22-1351 10 Mar 54 Eniwotak Is Man loading spelled food onto truck. 22-1367 10 Mar 54 Eniwotak Is Man loading spelled food onto truck. 22-1367 10 Mar 54 Eniwotak Is Man loading spelled food on reaf. 22-1367 10 Mar 54 Eniwotak Is Man loading spelled food on reaf. 22-1367 10 Mar 54 Eniwotak Is Man loading spelled food on reaf. 22-1368 10 Mar 54 King Iand Atoli Native cool for area of Sife Island. 22-1369 10 Mar 54 Kwajaloin Native suiting for blood sample taking at dispontary. 					
 22-1341 20 Har 54 Kwajaloin Similar, but with Pr. Bond in group, 22-1342 20 Mar 54 Kwajaloin Dr. Gronkito and Dr. Bond examining native child. 22-1343 20 Har 54 Kwajaloin Dr. Gronkito examining native child. 22-1344 20 Har 54 Kwajaloin Dr. Gronkito examining native child. 22-1345 20 Har 54 Kwajaloin Dr. Cronkito examining native baby on lap of father. 22-1345 20 Har 54 Kwajaloin Closcup of native father and baby. Dr. Gronkito examining baby. 22-1346 20 Har 54 Kwajaloin Closcup of native father and baby. Dr. Gronkito examining baby. 22-1346 20 Har 54 Kwajaloin Closcup of King Ian of Utirik. 22-1347 20 Har 54 Kwajaloin Similar. 22-1349 20 Har 54 Kwajaloin King Ian, wife and son. 22-1350 20 Har 54 Kwajaloin King Ian, wife and two sons. 22-1353 10 Har 54 Enivotak Is Kan loading speiled food from reefer (Bniwetak Is) 22-1364 10 Har 54 Enivotak Is Similar to 22-1363. 22-1365 10 Har 54 Enivotak Is Backing truck onto reef to dispose of speiled food. 22-1366 10 Har 54 Enivotak Is Hen loading speiled food on reef. 22-1368 10 Har 54 Enivotak Is Hen dumping speiled food on reef. 22-1369 10 Har 54 Enivotak Is Hen loading speiled food on reef. 22-1369 10 Har 54 Enivotak Is Hen loading speiled food on reef. 22-1369 10 Har 54 Enivotak Is Hen dumping speiled food on reef. 22-1369 10 Har 54 Enivotak Is Hen dumping speiled food on reef. 22-1369 10 Har 54 Enivotak Is Hen dumping speiled food on reef. 22-1369 10 Har 54 Kwajaloin Atell Netwo cold from area of Sife Island. 22-1369 10 Har 54 Kwajaloin Natives waiting for bloed sample taking 		PHOTO NO.	DATE TAKEN		Dr. Cronkito and Dr. Bond talking to
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nativo child. 22-1343 20 Har 54 Kwajalcin Dr. Gronkito commining rativo child. 22-1344 20 Har 54 Kwajalcin Dr. Gronkito commining nativo baby on lap of father. 22-1345 20 Mar 54 Kwajalcin Closcup of nativo fathor and baby. Dr. Gronkito commining baby. 22-1346 20 Mar 54 Kwajalcin Closcup of nativo fathor and baby. 22-1347 20 Mar 54 Kwajalcin Closcup of King Ian of Utirik. 22-1348 20 Mar 54 Kwajalcin Similar. 22-1348 20 Mar 54 Kwajalcin King Ian, wife and son. 22-1349 20 Mar 54 Kwajalcin King Ian, wife and son. 22-1350 20 Mar 54 Kwajalcin King Ian, wife and son. 22-1350 20 Mar 54 Kwajalcin King Ian, wife and son. 22-1363 10 Mar 54 Rongorik Atell Hen unleading speiled feed from reefer (Eniwetak Is) 22-1365 10 Mar 54 Eniwetak Is Man leading speiled feed onto truck. 22-1366 10 Mar 54 Eniwetak Is Man leading speiled feed onto truck. 22-1367 10 Mar 54 Eniwetak Is Man leading speiled feed onto truck. 22-1368 10 Mar 54 Eniwetak Is Man leading speiled feed onto truck. 22-1369 10 Mar 54 Eniwetak Is Man leading speiled feed onto truck. 22-1369 10 Mar 54 Eniwetak Is Man leading speiled feed onto truck. 22-1369 10 Mar 54 Eniwetak Is Man leading speiled feed onto truck. 22-1369 10 Mar 54 Eniwetak Is Man leading speiled feed onto truck. 22-1369 10 Mar 54 Eniwetak Is Man dumping speiled feed on reef. 22-1369 10 Mar 54 Eniwetak Is Man dumping speiled feed on reef. 22-1369 10 Mar 54 Kwajalcin Natives coeld are area on Sife Island. 22-1370 10 Mar 54 Kwajalcin Natives witting for Mode sample teking		22-1341	20 liar 54	Kwajaloin	Similar, but with Dr. Bond in group.
 22-1344 20 Har 54 Krajaloin Dr. Cronkite examining native baby on lap of father. 22-1345 20 Har 54 Krajaloin Closeup of native father and baby. Dr. Cronkite examining baby. 22-1346 20 Har 54 Krajaloin Closeup of native father and baby. 22-1347 20 Har 54 Krajaloin Closeup of King Ian of Utirik. 22-1348 20 Har 54 Krajaloin Similar. 22-1348 20 Har 54 Krajaloin Similar. 22-1349 20 Har 54 Krajaloin King Ian, wife and son. 22-1350 20 Har 54 Krajaloin King Ian, wife and son. 22-1363 10 Har 54 Krajaloin King Ian, wife and two sons. 22-1364 10 Har 54 Eniwetak Is Han loading speiled food from reefer (Eniwetak Is) 22-1365 10 Har 54 Eniwetak Is Han loading speiled food onto truck. 22-1366 10 Har 54 Eniwetak Is Han loading speiled food onto truck. 22-1367 10 Har 54 Eniwetak Is Han loading speiled food on reef. 22-1369 10 Har 54 Eniwetak Is Han loading speiled food on reef. 22-1369 10 Har 54 Eniwetak Is Han loading speiled food on reef. 22-1369 10 Har 54 Eniwetak Is Han loading speiled food on reef. 22-1369 10 Har 54 Eniwetak Is Han loading speiled food on reef. 22-1369 10 Har 54 Eniwetak Is Han loading speiled food on reef. 22-1369 10 Har 54 Eniwetak Is Han dumping speiled food on reef. 22-1369 10 Har 54 King Ialan Atell Native coeffer area of Sife Island. 22-1370 10 Mar 54 Krajaloin Natives suiting for Flood sample taking 	• ,	22-1342	20 Mar 54	Kwajaloin	
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22-134820 Mar 54Kwajaloin Similar.22-134920 Mar 54Kwajaloin King Ian, wife and son.22-135020 Mar 54Kwajaloin King Ian, wife and two sons.22-136310 Mar 54Rengerik Atell Hen unleading speiled food from reefer (Eniwotak Is)22-136410 Har 54Eniwotak Is Hen leading speiled food onto truck.22-136510 Har 54Eniwotak Is Similar to 22-1363.22-136610 Har 54Eniwotak Is Man leading speiled food onto truck.22-136710 Har 54Eniwotak Is Backing truck onto reef to dispose of speiled food.22-136810 Har 54Eniwotak Is Hen dumping speiled food on reef.22-136910 Har 54Eniwotak Is Hen dumping speiled food on reef.22-136910 Har 54Eniwotak Is Hen dumping speiled food on reef.22-136910 Har 54Eniwotak Is Hen dumping speiled food on reef.22-137010 Har 54Sife Island Interior of Anime area on Sife Island.22-137120 Har 54Kwajaloin Natives waiting for blood snaple taking		22-1347	20 Mar 54	Kwajaloin	Closcup of King Ian of Utirik.
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 22-1365 10 Mar 54 Eniwotak Is Similar to 22-1363. 22-1366 10 Mar 54 Eniwotak Is Man loading spoiled food onto truck. 22-1367 10 Mar 54 Eniwotak Is Backing truck onto reaf to dispose of spoiled food. 22-1368 10 Mar 54 Eniwotak Is Man dumping spoiled food on reaf. 22-1369 10 Mar 54 Ailinginae Atell Native coolding area on Sife Island. 22-1370 10 Mar 54 Sife Island Interior of Apole on the Sife Island. 22-1371 20 Mar 54 Kwajalein Natives whiting for blood sample taking 		22-1363	10 Mar 54		
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22-1370 10 Mar 54 Sife Island Interior of Analis		22-1368	10 Har 54	Enizotak Is	Non dumping spailed food on roof.
22-1371 20 Har 54 Kwajaloin Natives waiting for Flood sample taking		22 -1369	10 Mar 54	Ailinginao J	Atoll Nativo cooling area on Sifo Island.
		22-1370	10 Mar 54	Sife Island	Interior of analysis and
		22-1371	20 ilar 54	Kwajaloin	· · · · ·

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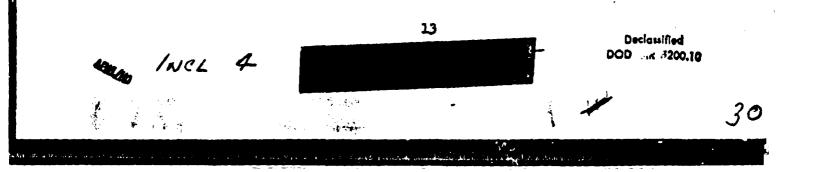
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Care of Rengelap and Utirik Matives

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	22-1377	20 Nar 54	Krajaloin	Nativo boing fod.
	22-1378	20 Mar 54	Krajaloin	Similar.
	22 -1379	20 Nar 54	Kwajaloin	Rod Cross Field man, Mr. Evans, distri- buting gum to natives.
	22-1380	20 Mar 54	Kwajaloin	Nativo man shaving himsolf with safety razor blade.
	22-1 361	20 Mar 54	Krajaloin	ONOHO J.J. Spanglor with nativo boy at disponsary.
	22-1382	20 Mar 54	Kajaloin	Navy radsafo man chocking nativos.
	22 -1383	20 Mar 54	Knajaloin	Closoup of radsafe man and radiation countor reading foot of nativo.
	22-1384	20 Mar 54	Kaajaloin	Nativo children playing hop scotch.

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(s/t) R. A. HOUSE LtCol, USAF ChTechOpns Br, J-3 & Radsafo Officer 3.7



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