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REPOSITORY LOS ALAMOS NAT LAB

COLLECTION CL-14

BOX No. 11331-1

FOLDER CASTLE NAT TUES

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MARCH 8, 1954

(D-DAY, MARCH 1, H-R 5:45 A.M.
ALL TIMES ENIWETOK LOCAL TIME)

FOR COLE INFO NORRIS BRADBURY, WHITLEY, REEVES FM GRAVES. FOLLOWING IS A SUMMARY OF FALLOUT FM SHOT BRAVO. I PLAN TO KEEP YOU ADVISED OF FURTHER DEVELOPMENTS AND MORE FREQUENTLY FOR LATER SHOTS. REGRET THAT MY PREOCCUPATION WITH EVENTS SUBSEQUENT TO BRAVO SHOT PREVENTED MY INFORMING YOU EARLIER. PART ONE: FALLOUT FM SHRIMP TRAVELED ON AN APPROXIMATE LINE FROM BIKINI TO BIKAR ATOLLS, AND WAS LAST REPORTED APPROXIMATELY 200 MILES DUE SOUTH OF THE ISLAND OF HAWAII AT 1:00 P.M., MARCH 3 (H + 56) WITH AN INTENSITY OF 0.03 to 0.045 MR PER HOUR AT 12,000 TO 29,000 FEET. THE HIGHEST ACTIVITY WAS EVIDENT IN A RELATIVELY NARROW BAND WHICH PASSED JUST NORTH OF AILINGINAE, RONGELAP, ROGERIK AND THENCE NEAR BIKAR. PART TWO: SURFACE RAD READINGS AT 2 MARCH, 5:30 P.M. (H + 36), AT RONGELAP WERE REPORTED AS 1.4 ROENTGENS PER HOUR AVERAGE BY TWO DIFFERENT TYPE SURVEY INSTRUMENTS (ANPDR-39 AND NYOO SCINTAMETER). TOTAL OF VIE INSTRUMENTS AND TWO EXPERIENCED MONITORS UTILIZED IN SURVEY. CONSIDER THIS DATA RELIABLE. BASED ON ASSUMPTION THAT FALLOUT STARTED AT RONGELAP AT HOW PLUS 8 HOURS AND NATIVES EVACUATED BY HOW PLUS 51 HOURS, COMPUTE AVERAGE TOTAL DOSE TO HAVE BEEN APPROXIMATELY 100 ROENTGENS. NATIVES WERE EVACUATED BY 3 MARCH, 9:00 A.M., ZEBRA. PART THREE: FILM BADGES WERE UTILIZED BY THE USAF WEATHER DETACHMENT ON RONGERIK. HIGHEST DOSAGE RECEIVED WAS ONE BADGE AT 93 ROENTGENS WHICH REPRESENTED THREE PEOPLE LIVING IN A TENT. FOUR BADGES REPRESENTING THE REMAINDER OF PERSONNEL IN METAL BARRACKS READ 40, 40, 44, 52 ROENTGENS. CONTROL BADGES BETWEEN THE BARRACKS READ 82 ROENTGENS. SIX CONTROL BADGES TAKEN FROM REFRIGERATED STORAGE AND CARRIED IN POCKETS FOR INDETERMINATE TIME ALL READ 38 ROENTGENS. AIRCRAFT EVACUATED THE WEATHER DETACHMENT BY 2 MARCH, 5:00 P.M. (H + 36). MAXIMUM SKIN READING BETA AND GAMMA PRIOR DECONTAMINATION HOUR. GROUND STATION AT

54-34

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Classification changed to
by authority of the U.S. AEC

Per
(Person authorizing classification change and date)

By
(Signature of person making change)

RONGERIK BEGAN READING ABOVE 100 MR PER HOUR AT 1 MARCH, 1:00 P.M. (H + 7). PART FOUR: AN AERIAL SURVEY OF UTIRIK AT APPROXIMATELY 2 MARCH, 4:00 P.M. (H + 34), AT LOW ALTITUDES INDICATED 620 MR PER HOUR EXTRAPOLATED GROUD READING (GAMMA ONLY BY NYOO SCINAMETER). AT 3 MARCH, 12:45 P.M. (HOW PLUS 55) SURFACE READINGS WERE 160 MR PER HOUR. BY ESTIMATING THAT FALLOUT OCCURRED AT UTIRIK AT APPROXIMATELY HOW PLUS 13 HOURS AND THAT THE NATIVES WERE EVAUCATED BY 4 MARCH, 11:45 A.M. (H + 73) THE TOTAL DOSAGE RECEIVED TO BE APPROXIMATELY 17 ROENTGENS. PART FIVE: ALL NATIVES HAVE NOW ARRIVED AT KWAJALEIN AND ARE UNDER THE CARE AND SUPERVISION OF COM NAV STA KWAJALEIN. HEALTH SITUATION OF NATIVES REMAINS SATISFACTORY AND PHYSICAL EXAMINATIONS DISCLOSE NOTHING UNUSUAL. THERE ARE NO SYMPTOMS OF RADIATION SICKNESS AS OF NOW. SOME INFANTS SEEM TO BE DIFFICULT TO FEED BUT THIS IS THOUGHT TO BE DUE TO THE PRESENT VARIATION FROM NORMAL DIET. PROCUREMENT OF THE USUAL DIET IS BEING ACCOMPLISHED VIA LOCAL NATIVES. PRESENT PROGNOSIS FAVORABLE. MORALE VERY GOOD. PART SIX: A SHIP AKL (TRUST TERRITORY CARGO SHIP) ARRIVED UTIRIK AFTER FALLOUT OCCURRED. WE WILL CONTACT THIS VESSEL AT AILUK TO DETERMINE WHETHER OR NOT SHE RECEIVED ANY RADIATION EXPOSURE. SHIP IS REPORTED TO HAVE 50 PERSONS ABOARD. THIS SHIP WAS SCHEDULED FROM KWAJALEIN TO UTIRIK TO AILUK. IT ARRIVED UTIRIK 9:00 A.M., MARCH 2 (H + 27) AND DEPARTED UTIRIK AT 6:00 A.M., MARCH 3. PART SEVEN: HAVE DISPATCHED RENSHAW DDE 499 WITH EXPERIENCED MONITOR AND INTERPRETER ABOARD TO PERFORM WATER AND SOIL SAMPLING MISSION AT POPULATED ATOLLS OF LOKIEP, JEMO, AILUK AND MEJIT. THE RENSHAW WILL ALSO CHECK TRUST TERRITORY SHIP MENTIONED PART SIX. DR. THOMAS WHITE WITH INTERPRETER HAS BEEN DISPATCHED BY SEA PLANE TO SURVEY AND TO TAKE WATER AND SOIL SAMPLES AT POPULATED ATOLLS AT WATHO, NOTJE, ERIKUB, MALOELAP AND MAJURO. ATOLLS BEING VISITED WERE THOSE INDICATING MORE THAN 0.10 MR PER HOUR AND MAXIMUM OF 150 MR PER HOUR AT HOW PLUS 24 HOURS EXCEPT WATHO. INTERPRETERS WERE INCLUDED TO REASSURE NATIVES REFERENCE VISIBILITY OF BRAVO AND RADIATION PHENOMENA. WATHO READ BACKGROUND BUT

WAS INCLUDED FOR THE LATTER REASON. PART EIGHT: REQUESTED CINCPACFLT OBTAIN PERMISSION FROM THE BRITISH TO MAKE A SURVEY FLIGHT OF AEC NYOO TYP THROUGH THE GILBERT ISLAND CHAINS AND RETURN TO KWAJALEIN. THIS MADE TO COMPLETELY DOCUMENT BRAVO POSITIVE EVIDENCE ON POPULATED AREAS ADJACENT TO MARSHALL ISLANDS. US NAVAL ATTACHE IN LONDON HAS INDICATED THRU CINCPACFLT THAT PERMISSION GRANTED. HE FURTHER ADVISED THAT THE COLONIAL OFFICER HAS INFORMED COMMISSIONER AND HAS DESCRIBED FLIGHT AS SURVEY FLIGHT WITHOUT MENTIONING RADIATION ASPECTS. HE HAS REQUESTED THAT GENERAL SUMMARY OF THE RESULTS BE PASSED TO HIM FOR INFORMATION BRITISH AUTHORITIES LONDON. THIS WILL BE DONE. PART NINE: THE ABOVE IS A GENERAL SUMMARY OF ENTIRE SITUATION AND AN INDICATION OF THE ACTION WHICH HAS BEEN TAKEN.