

Centers for Disease Control  
and Prevention (CDC)  
Atlanta GA 30333  
September 23, 1997

Dr. Heather Stockwell  
Director, Office of Epidemiology  
and Health Surveillance  
U.S. Department of Energy  
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Germantown, Maryland 20874

Dear Dr. Stockwell:

In response to the request from Colonel John Cole during the May 28, 1997 telephone conversation between the Department of Energy, Department of Interior, Department of State and Centers for Disease Control and Prevention, attached you will find a list of documents relating to radioactive fallout in the Republic of the Marshall Islands selected for request for declassification. We believe these documents contain information that would be important for assessment of thyroid radiation doses in the proposed Marshall Islands thyroid study. This list contains documents viewed at the Los Alamos National Laboratory, Los Alamos, New Mexico and the Department of Defense Nuclear Information and Analysis Center (DASIAC) facility at Kirtland Air Force Base, Albuquerque, New Mexico. Additionally, we have included records identified through on-line searches of archival databases in DASIAC. All records identified have been screened against the record holdings on the OpenNet web site and the list of records sent to the government of the Republic of the Marshall Islands by the Department of Energy Coordination and Information Center in Las Vegas. As of this date, none of the records listed are found in the OpenNet. We have requested some documents that may have the same (or similar) title as a document found in OpenNet but we have included them as they may be, in some cases, interim technical reports or different versions of the requested document with different page totals.

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Particular attention should be placed on the document identified as DNA94-019. This document contains information on the fission, fusion, and total yield of each device. Although we do not wish to declassify the entire document, portions concerning the tests conducted in the Pacific Proving Ground (PPG) would be helpful. Please note that some of this information, particularly fission yield on some tests, has been declassified and sent to the Republic of the Marshall Islands and is available to the public. We would like to discuss this with someone to work out a method by which the desired information (fission yield) is obtained without disclosing any sensitive information as outlined in the U.S. Department of Energy Access Handbook DOE/EH-0556. We have already done this at other sites in the Department of Energy nuclear weapons complex where we are performing environmental dose reconstructions, eg. Savannah River Site. Several possibilities listed from most desirable to least desirable include: 1) the fission yield of every shot in the PPG, 2) the monthly fission yield, 3) the series total fission yield, and 4) the fission yields in bin ranges.

Please keep in mind that our document searches are continuing and that we expect to have other requests in the future. Thank you for your attention into this matter. We look forward to meeting with the appropriate declassifier to work out the declassification methodology for certain described information.



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Project Officer,  
Cooperative Agreement U50/CCU910802-01  
Radiation Studies Branch  
Division of Environmental Hazards and  
Health Effects  
National Center for Environmental Health

Attachment

cc:

Dr. Paul Seligman, DOE

Mr. Tom Bell, DOE

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Mr. Frank Hawkins, DOE

Ms. Linda Vogel, PHS

Dr. Kenneth Bart, PHS

Colonel Ashton Ormes, DOS

Ms. Lynn Sicade, DOS

Mr. Alan Stayman, DOI

Dr. Henry Falk, CDC

Dr. Charles Miller, CDC

Dr. Paul Garbe, CDC

Document #	Title	Notes	Location
NRDL-3983	Greenhouse Projects B-29 and B-28 Final Report Mar 3 1952	Fractionation and isotopic content of deons including Time of Arrival for Dog, Easy, George Item. Rainfall collection @ Kwaj, Majuro, Truk, Guam, and Subic bay	Los Alamos National Laboratory
NYO-4555	Weather Bureau. A meteorological analysis of the transport of deons from Operation Ivy Oct. 30, 1953	Worldwide d/m/ft <sup>2</sup> and gummed film	Los Alamos National Laboratory
32733	Analysis of fallout data, part IV, 13 May 53	mR/hr at other atolls post shot 1, 2, 3 of operation CASTLE	DASIAC, Kirtland AFB
33064	CASTLE fallout monitoring program	description/procedures for scintillation NaI, gummed film, etc... local and worldwide fallout by : US Weather Bureau, Canadian Weather Service, Chaikriver, USAF, USN, State Dept., Atomic Bomb Casualty Commission, US Coast Guard	DASIAC, Kirtland AFB
36911	Worldwide fallout from op. CASTLE	Isocontours of d/m/ft <sup>2</sup> at +100 days	DASIAC, Kirtland AFB
DNA82-398	Analysis of radiation exposure from Naval personnel @ operation IVY	pg 48 17.8 mR @ Kwaj on Nov 1-6	DASIAC, Kirtland AFB
DNA9-219	Nuclear Weapons Test 1945-1985	Table 1-6B pg 1-15 to 1-19 contains Fission/Fusion yield of every test, other tables contain more info on each test	DASIAC, Kirtland AFB
WT-0900851	Final rep. Rad safety op. CASTLE, spring 54	soil/water sampling mission to Wotje 3/5, Enkub 3/5, Maloelap 3/6, Wotho 3/6, Majuro 3/7, results H-52	DASIAC, Kirtland AFB
WT-115	Humidity with height, P, T, aerographs	pg 89 has wind direction with height low from E, upper from N, W	DASIAC, Kirtland AFB
WT-9003	Long distance predictions		DASIAC, Kirtland AFB
NRDL TR 139	Fallout Forecasting Technique with Results Obtained at the Enewetok Proving Ground (U), 56 P	Nuclear Weapon Environment fallout intensity contours Environment fallout transfer	DASIAC, Kirtland AFB
NRDL TR 133	NATURE OF INDIVIDUAL RADIOACTIVE PARTICLES. V. FALLOUT PARTICLES FROM SHOTS ZUNI AND TEWA, OPERATION REDWING (U), 16 P., (C)	Fallout Particles physical characteristics	DASIAC, Kirtland AFB
NRDL TR 176	BOMB FRACTION MEASUREMENT TECHNIQUES (U), 20 P	fallout arrival time	DASIAC, Kirtland AFB
NRDL TR 254	FALLOUT PARTICLE SIZE MEASUREMENTS FROM OPERATION REDWING, VOL. 1, AN EXPLANATION AND SURVEY OF THE DATA (U), 85 P.	Fallout Particles size distribution	DASIAC, Kirtland AFB
NRDL TR 282	CONTRIBUTION OF LONG-LIVED INDUCED RADIONUCLIDES TO THE GAMMA EMISSION OF FALLOUT (U), 27 P.	Fallout gamma intensities	DASIAC, Kirtland AFB
NRDL TR 215	LONG-LIVED COBALT ISOTOPES OBSERVED IN FALLOUT FROM THE NAVAJO DETONATION OF OPERATION REDWING (U), 17 P.	Fallout gamma intensities	DASIAC, Kirtland AFB

Document #	Title	Notes	Location
NPDL 462	INDEX TO U.S. NAVAL RADIOLOGICAL DEFENSE LABORATORY, USNRDL SERIES REPORTS ISSUED THROUGH 31 JULY 1959 (U), 316 P	BIBLIOGRAPHY	DASIAC, Kirtland AFB
TD 6639	Meteorological Trajectories of Debris from Operation Redwing (U), 62 P		DASIAC, Kirtland AFB
WT 1314	Operation Redwing, Project 2.2: Gamma Exposure Rate Versus Time (U), 53 P		DASIAC, Kirtland AFB
DNA TR 83 013, SAI 83 1055	Analysis of Radiation Exposure for Naval Personnel at Operation Sandstone (U), 50 P	Radiation environments are reconstructed for Task Group 7.3 ships and the residence islands of Enewetak and Kwajalein Atolls resulting from Operation Sandstone (April-May)	DASIAC, Kirtland AFB
XRD 001	FINAL REPORT, TEST ABLE AND TEST BAKER, DIRECTOR OF SHIP MATERIAL TECHNICAL INSPECTION REPORT, OPERATION CROSSROADS	May fallout intensity contours	DASIAC, Kirtland AFB
XRD 209	REPORT ON INSTRUMENTATION PROGRAM OF TECHNICAL STAFF, V. 1	fallout intensity contours, Fallout isotope concentrations	DASIAC, Kirtland AFB
UWFL 16	Radiological Survey of Bikini, Eniwetok, and Likiep Atolls -July-August 1949 (U), 145 P	Fallout isotope concentrations	DASIAC, Kirtland AFB
SS 10	RADIOCHEMICAL METHODS, ANNEX 1 TO SCIENTIFIC DIRECTOR'S REPORT,	Fallout isotope concentrations L1 FROM AIR AND GROUND SAMPLES	DASIAC, Kirtland AFB
SS 30	Operation Sandstone, Annex 9 Pts. 1-5 Contamination Studies	fallout intensity contours MEASURED IN AIR AND ON GROUND, Fallout gamma intensities	DASIAC, Kirtland AFB
WT 0063	Operation Greenhouse, Annex 5.1: Evaluation of Ground Radiac (U), 228 P.	nuclear radiation dosimeters radiacs, fallout intensity contours	DASIAC, Kirtland AFB
WT 0645	Radiocemical and Physical Analysis of Atomic Debris	Fallout isotope concentrations	DASIAC, Kirtland AFB
WT 1300 RS	Operation Redwing Radiological Safety	Included are shot weather, fallout forecasts, exclusion areas (Racex), and fallout readings.	DASIAC, Kirtland AFB
OTO 58 3	Operation Hardtack, Phase 1, Task Group 7.5, Radiological Safety Support (U), 46 P	Fallout gamma intensities	DASIAC, Kirtland AFB
ITR 1602	FALLOUT CONTAMINATION FROM A VERY-LOW-YIELD BURST, OPERATION HARDTACK, PROJECT 2.14A/34.8 (U), 43 P	Descriptors: Nuclear Weapon Environment fallout down fraction L1, Fallout gamma intensities, fallout radioactivity, LOCAL FALLOUT CLOSE-IN OBSERVATION INTERMEDIATE RANGE, fallout intensity contours	DASIAC, Kirtland AFB