

Lawrence Berkeley National Laboratory

Recent Work

Title

BIBLIOGRAPHY OF TECHNICAL REPORTS ON THE EFFECTS OF FALLOUT

Permalink

<https://escholarship.org/uc/item/7212k6jp>

Author

Wallace, Roger.

Publication Date

1958-07-01

UNIVERSITY OF
CALIFORNIA
Ernest O. Lawrence
Radiation
Laboratory

BIBLIOGRAPHY OF TECHNICAL REPORTS
ON THE EFFECTS OF FALLOUT

TWO-WEEK LOAN COPY

*This is a Library Circulating Copy
which may be borrowed for two weeks.
For a personal retention copy, call
Tech. Info. Division, Ext. 5545*

DISCLAIMER

This document was prepared as an account of work sponsored by the United States Government. While this document is believed to contain correct information, neither the United States Government nor any agency thereof, nor the Regents of the University of California, nor any of their employees, makes any warranty, express or implied, or assumes any legal responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by its trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof, or the Regents of the University of California. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof or the Regents of the University of California.

Research and Development

UCRL-8412
Health and Safety

UNIVERSITY OF CALIFORNIA

Radiation Laboratory
Berkeley, California

Contract No. W-7405-eng-48

BIBLIOGRAPHY OF TECHNICAL REPORTS
ON THE EFFECTS OF FALLOUT

Roger Wallace

July 1958

Printed for the U. S. Atomic Energy Commission

Printed in USA. Price \$2.00. Available from the
Office of Technical Services
U. S. Department of Commerce
Washington 25, D. C.

BIBLIOGRAPHY OF TECHNICAL REPORTS
ON THE EFFECTS OF FALLOUT

Contents

Abstract	3
I. Introduction	4
II. Bibliographies	5
III. Technical Reports	
A. Fallout	
1. General	9
2. Composition, Distribution and Monitoring	11
3. Effects	32
4. Decontamination and Protective Procedures.	44
B. Natural Radioactivity.	46
C. Tolerance to Radiation	48
IV. Author Index	50
Acknowledgments	68

BIBLIOGRAPHY OF TECHNICAL REPORTS
ON THE EFFECTS OF FALLOUT

Roger Wallace

Radiation Laboratory
University of California
Berkeley, California

July 1958

ABSTRACT

This bibliography on the effects of fallout was compiled from a search of the report literature up to July 1, 1958. A list of bibliographies of published works on radiation effects is included.

BIBLIOGRAPHY OF TECHNICAL REPORTS
ON THE EFFECTS OF FALLOUT

Roger Wallace

Radiation Laboratory
University of California
Berkeley, California

July 1958

I. INTRODUCTION

For this bibliography the report literature up to July 1, 1958 was searched. In general, the reports listed in this bibliography have not been published in journals or as books. Section II lists bibliographies of published works.

To obtain copies of these reports, consult "Availability Listing of USAEC Reports," TID-4000, June 1958, which may be procured from the Office of Technical Services, Department of Commerce, Washington 25, D. C. (price \$3.00).

In this compilation references are grouped topically, and are arranged alphabetically within groups by the report number. Each entry is numbered consecutively to facilitate locating the work of an individual author with the aid of the author index (Section IV).

The following general reports are considered to be of primary interest:

- 47 NP-6016
National Academy of Sciences. National Research Council.
Washington, D. C. The Biological Effects of Atomic Radiation.
A Report to the Public. 1956. 42 pp.
- 48 NP-6017
----- Summary Reports. 1956. 123 pp.
- 55 Great Britain. Medical Research Council. London, England.
The Hazards to Man of Nuclear and Allied Radiation. June 1956.
128 pp.
- 60 U. S. Congress. Hearings Before the Special Subcommittee of the
Joint Committee on Atomic Energy, Congress of the United States,
Eighty-fifth Congress, First Session. On the Nature of Radio-
active Fallout and Its Effects on Man. Parts I and II, and Index.
1957. Pt. I, pp. 1-1008. Pt. II, pp. 1009-2065.
- 61 ----- Summary Analysis of Hearings. August 1957. 19 pp.

II. BIBLIOGRAPHIES*

- 1 AERE-Inf/Bib-50
Great Britain. Atomic Energy Research Establishment, Harwell, Berkshire, England. Some Declassified American Reports on the Biological Effects of Radiation. October 16, 1949. 9 pp. (Restricted)
- 2 AERE-Inf/Bib-51
----- Some Papers on the Effects of Radiations of Bacteria and Moulds. October 14, 1949. 7 pp.
- 3 AERE-Inf/Bib-61
----- Some Published Reports on the Effects of Radiation on Reproduction and on the Genetic Effects of Radiation. A. Lundie. March 8, 1950. 10 pp.
- 4 AMRL-175
United States Army Medical Research Laboratory, Fort Knox, Ky. Adaptation to Ionizing Radiation. A. T. Krebs and John B. Storer. February 2, 1955. 17 pp.
- 5 ANL-5111
Argonne National Laboratory, Chicago, Ill. Annotated Bibliography in Radiobiology. Sophie V. Stephens and Robert D. Boche. 1953. 367 pp.
- 6 BNL-C-4
Brookhaven National Laboratory, Upton, N. Y. Conference on Biological Applications of Nuclear Physics. July 12-27, 1948. 154 pp.
- 7 BNL-97;AECU-1207
----- Effects of Radiations on Biological Systems, A. H. Sparrow and B. A. Rubin. February 15, 1951. 94 pp.
- 8 CF-49-7-185 pt. 1
Oak Ridge National Laboratory, Oak Ridge, Tenn. Bibliography of Classified Documents. July 20, 1949. 53 pp. (Secret)
- 9 CF-49-7-185 pt. 2
----- nd 10 pp.
- 10 CH-3891
Chicago. University. Metallurgical Laboratory. Chicago, Ill. The Effects of X-Rays on Immunity. W. H. Taliaferro and L. G. Taliaferro. June 1946. 42 pp.
- 11 KZ-874
National Research Council, Washington, D. C. General Report of the Atomic Bomb Casualty Commission. A. M. Brues and P. S. Henshaw. January 1947, 137 pp.

* A broader class of material is included in the list of bibliographies than in the main body of this work.

- 12 KZ-5018
Carbide and Carbon Chemicals Co., K-25 Plant, Oak Ridge, Tenn.
Cesium. A Compilation. H. B. Whetsel. January 1949.
- 13 M-4638; TEM-12317
----- New York, N. Y. Preliminary Literature Survey on Skin
Decontamination, Unclassified Material. Francis L. Sachs. March 1,
1951. 10 pp.
- 14 MDDC-1100
Argonne National Laboratory, Chicago, Ill. The Tolerance Dose.
S. T. Cantril and H. M. Parker. January 5, 1945. 23 pp.
- 15 NBS-2179
United States National Bureau of Standards, Washington, D. C.
The Biological Effects of Deuterium Compounds. Harold J. Morowitz
and Lawrence M. Brown. January 14, 1953. 50 pp.
- 16 NP-232
United States Library of Congress. Technical Information Division,
Washington, D. C. Radioactive Manganese, Iron, Cobalt, Copper,
Zinc, and Strontium. February 24, 1948. 19 pp.
- 17 NP-1609
Armed Forces Special Weapons Project, Washington, D. C.
Radiological Defense. Vol. III, nd 140 pp.
- 18 NP-1826
National Research Council. Division of Medical Sciences
Washington, D. C. Conference on Radiation Cataracts and Neutron
Effects. Philip H. Abelson. February 17, 1950. 100 pp.
- 19 NP-3610
Batelle Memorial Institute, Columbus, Ohio. A Bibliography on "The
Effects of X-Rays on Bacteria." R. F. Robinson (and others).
August 20, 1951. 18 pp.
- 20 NP-3796
Naval Medical Research Institute, Bethesda, Md. Radiology and
Radioactivity Effects of Whole Body Irradiation. E. P. Cronkite and
W. G. Brecher. November 15, 1951. 25 pp.
- 21 NP-4978
United States School of Aviation Medicine, Randolph AFB, Tex.
Mechanisms of Hypersensitivity and their Significance in Relation to
Certain Aspects of the Radiation Syndrome: A Critical Review.
(Rep't no. 1) Kenneth L. Burdon. August 1953. 44 pp.
- 22 NRL-4118
Naval Research Laboratory, Washington, D. C. The Radioactivity of
the Atmosphere. Irving H. Blifford. April 15, 1953. 45 pp.

- 23 NYO-4452
Atomic Bomb Casualty Commission, Washington, D. C. Bibliography of A-Bomb Material Collected Through April 17, 1952. 1952. 27 pp.
- 24 NYO-4453
Atomic Bomb Casualty Commission, Washington, D. C. Bibliography of A-Bomb Material. Supplement, April 18, 1952 through June 30, 1952. Addendum I. Annabelle W. Furman. 15 pp. (supplements NP-4563)
- 25 NYO-4712
United States Atomic Energy Commission. New York Operations Office, Health and Safety Laboratory, New York. Background Radiation: A Literature Search. Wayne M. Lowder and Leonard R. Solon. July 1956. 43 pp.
- 26 NYO-4753
----- Annotated Bibliography on Fallout Resulting from Nuclear Explosions. Allen G. Hoard, Merril Eisenbud and John H. Harley. September 1956. 44 pp.
- 27 NYO-4753 Suppl. 1
----- November 1956. 15 pp.
- 28 NYO-4753 Suppl. 2
----- November 1957. 23 pp.
- 29 TID-375
----- Washington, D. C. Radioactive Waste Disposal: A Bibliography of Unclassified Literature. R. L. Shannon. August 1950. 8 pp.
- 30 TID-451
----- Technical Information Service, Washington, D. C. Bibliography on Metabolism and Toxicology of Internally Deposited Elements and Their Isotopes. R. L. Shannon. January 15, 1951. 31 pp.
- 31 TID-3027
----- Biological Effects of External Radiation: A Selective Bibliography of Classified and Unclassified Literature. Lore Rose David. May 1, 1952. 81 pp. (Secret)
- 32 TID-3052
----- Oak Ridge, Tenn. Biological Effects of Neutrons, Gamma Radiation, and Neutron-Gamma Combinations: A Selective Bibliography of Unclassified Literature. Lore Rose David. May 1954. 38 pp.
- 33 TID-3061
United States Weather Bureau, Washington, D. C. Annotated Bibliography on the Transport and Deposition of Atomic Debris. Robert J. List. January 20, 1956. 31 pp.

- 34 UCLA-264
California. University at Los Angeles. Atomic Energy Project.
Recent Attempts to Alter the Response to Ionizing Radiations.
Wilbur A. Selle (and others). September 15, 1953. 73 pp.
- 35 UCRL-5058
----- University. Livermore. Crater Formation, Diagnostic Testing,
and Radioactivity of Surface Water Shots, A Bibliography. Oct. 28,
1958. 8 pp. (Secret)
- 36 Y-B4-4
Carbide and Carbon Chemicals Co., New York, N. Y. Literature
Survey on Skin Decontamination, Unclassified Material. Francis L.
Sachs. 1951. 2 parts. Part II, 22 pp.
- 37 Y-B4-10
----- Part III, 23 pp.
- 38 Y-B4-22
----- Radiation Effects on the Blood. Francis L. Sachs. July
23, 1951. 11 pp.
- 39 Y-914
----- Skin Decontamination: A Literature Search. Francis L.
Sachs. October 22, 1952. 26 pp.
- 40 United States Atomic Energy Commission, Washington, D. C. Civil
Defense Against Atomic Warfare: A Selected Reading List. March
1950. 24 pp.
- 41 U. S. Congress, Washington, D. C. Hearings Before the Special
Subcommittee of the Joint Committee on Atomic Energy, on The Nature
of Radioactive Fallout and its Effects on Man. 1957. Part 1, pp. 1-1008;
Part 2, pp. 1009-2065; and Index.

III. TECHNICAL REPORTS

A. Fallout

1. General
- 42 AFSWP-895
Armed Forces Special Weapons Project. Washington, D. C. Fall-Out Symposium. January 1955. 570 pp. (Secret)
- 43 AFSWP-978
----- Evaluation of Radioactive Fall-Out. Roy D. Maxwell.
September 15, 1955. 138 pp. (Secret-RD)
- 44 ARDC-C4-23676
Air Research and Development Command. Andrews Air Force Base.
Washington 25, D. C. Radiation Hazards during Atomic Warfare.
N. M. Lulejian. November 1954. 96 pp.
- 45 BNL-1208
Brookhaven National Laboratory, Upton, New York. Everyday
Radiation. Frederick P. Cowan. nd. 24 pp.
- 46 LAMS-2033
Los Alamos Scientific Laboratory, New Mexico. Report of Fallout
Study of January 1956, 56 Project NTS. William S. Johnson. June 1,
1956. 30 pp. (Confidential-RD)
- 47 NP-6016
National Academy of Sciences. National Research Council, Washington,
D. C. The Biological Effects of Atomic Radiation. A Report to the
Public. 1956. 42 pp.
- 48 ----- Summary Reports. 1956. 122 pp.
- 49 NP-6440
Czechoslovakia. Information Submitted by Czechoslovakia. Note by
the Secretary-General on Effects of Atomic Radiation. Includes also
Review of Studies of Natural Radioactivity of Water, Air and Soil in
the Czechoslovak Republic. September 20, 1956. 45 pp.
- 50 NYO-4656
New York Operations Office. Health and Safety Laboratory, AEC.
Operation Troll. Preliminary Report. John H. Harley, ed. March
1956. 41 pp.
- 51 NYO-4751 (Rev)
----- Summary of Analytical Results from the HASL Strontium
Program to June 1956. John H. Harley, Edward P. Hardy, Jr.,
George A. Welford, Ira B. Whitney, and Merril Eisenbud. August
31, 1956. 36 pp.

- 52 RM-993-AEC
RAND Corp., Santa Monica, California. A Simple Method for Dating Nuclear Explosions. F. J. Krieger. November 21, 1952. 11 pp.
(Confidential)
- 53 TID-5108
Oak Ridge National Laboratory. Oak Ridge, Tennessee. Summary of Information Exchanged in the United Kingdom and Sweden. Karl Z. Morgan. October 27, 1952. 11 pp. (Official Use Only)
- 54 Armed Forces Special Weapons Project, Washington, D. C. and Atomic Energy Commission, Washington, D. C. The Effects of Nuclear Weapons. Samuel Glass, ed. June 1957. 579 pp.
- 55 Great Britain. Medical Research Council, London, England. The Hazards to Man of Nuclear and Allied Radiations. June 1956. 128 pp.
- 56 U. S. Atomic Energy Commission, Washington D. C. Current Research Findings on Radioactive Fallout. Willard F. Libby. October 12, 1956. 36 pp.
- 57 ----- Radioactive Fallout. Willard F. Libby. March 27, 1958. 27 pp.
- 58 ----- April 26, 1957. 31 pp.
- 59 ----- The Shorter-Term Biological Hazards of a Fallout Field. Gordon M. Dunning and John A. Hilcken, eds. December 12-14, 1956. 236 pp.
- 60 U. S. Congress. Hearings Before the Special Subcommittee of the Joint Committee on Atomic Energy, Congress of the United States, Eighty-Fifth Congress, First Session, on the Nature of Radioactive Fallout and Its Effects on Man. Part 1. May 27, 28, 29, and June 3, 1957. Part 2. June 4, 5, 6, and 7, 1957. 1957. 2065 pp.
(pt. 1, pp. 1-1008; pt. 2, pp. 1009-2065)
- 61 ----- 85th Congress, 1st Session, Joint Committee on Atomic Energy. Summary-Analysis of Hearings, May 27-29, and June 3-7, 1957, on the Nature of Radioactive Fallout and Its Effects on Man. August 1957. 19 pp.

2. Composition, Distribution and Monitoring

- 62 AD-325(C)
Naval Radiological Defense Laboratory. San Francisco. The Chemical Species of the Elements Resulting from an Atomic Bomb Detonation in Air. (Final Report) L. R. Bunney and N. E. Ballou. May 25, 1951. 32 pp.
- 63 AD-43739
Fordham University. New York. Beta Ray Ionization from the Ground. Scientific Report No. 4. V. F. Hess, W. D. Parkinson and H. A. Miranda. December 1953. 49 pp.
- 64 ADZ-83
Naval Radiological Defense Laboratory. San Francisco. The Problem of Radioactive Water Contamination in Atomic Warfare; Preliminary Report. March 21, 1949. 15 pp.
- 65 AEC-tr-2867
Atomic Energy Commission. Washington, D. C. On the Behavior of Radioactive Fission Products in Soil, Their Absorption by Plants and Their Accumulation in Crops, ed. by V. M. Klechkovsky. Trans. from an Akademiia Nauk, SSSR. report. 227 pp.
- 66 AEC-tr-3056
----- Study of the Atmospheric Content of Sr⁹⁰ and Other Long-Lived Fission Products. V. V. Kurchatov, ed. Trans. of an Akademiia Nauk SSSR. report. 1956. 7 pp.
- 67 AECU-3066
Weather Bureau. Washington, D. C. Meteorology and Atomic Energy. July 1955. 182 pp.
- 68 AECU-3262
Chicago. University Enrico Fermi Inst. for Nuclear Studies. The Chicago Sunshine Method; Absolute Assay of Strontium-90 in Biological Materials, Soils, Waters, and Air Filters. E. A. Martell. May 1956. 65 pp.
- 69 AECU-3297(Rev.)
----- Strontium-90 Concentration Data for Biological Materials, Soils, Waters, and Air Filters. Project Sunshine Bulletin No. 12. E. A. Martell. August 1, 1956. Revised January 1957. 70 pp.
- 70 AECU-3403
RAND Corp. Santa Monica, California. Atomic Cloud Height as a Function of Yield and Meteorology. W. W. Kellogg. June 14, 1956. 16 pp.
- 71 AECU-3405
----- A Mathematical Model of the Phenomenon of Radioactive Fallout. R. R. Rapp. June 15, 1956. 15 pp.

- 72 AECU-3435
Illinois Institute of Technology. Chicago. Armour Research Foundation. Efficiency of Scavenging Devices Used in Determining Fallout. Progress Report No. 5 for February 1 to March 15, 1957. John Rosinski. 14 pp.
- 73 AECU-3486
----- Scientific Report No. 1. (Report No. 4).
Jan Rosinski. January 25, 1957. 130 pp.
- 74 AECU-3494
Sandia Corp. Albuquerque, New Mexico. The Probability Distribution of Fallout Patterns Due to Wind Variability. T. E. VanZandt. March 1, 1957. 10 pp.
- 75 AECU-3495
----- An Analog Fallout Computer. H. B. Durham. November 2, 1956. 11 pp.
- 76 AECU-3547
Illinois Institute of Technology. Chicago. Armour Research Foundation. Efficiency of Scavenging Devices in Determining Fallout. Progress Report No. 6 for March 15 to July 31, 1957. John Rosinski. September 23, 1957. 40 pp.
- 77 AERE-C/R-182
Great Britian Atomic Energy Research Establishment. Harwell, Berks, England. The Estimation of Radioactive Strontium, Barium, Cobalt and Iodine in Thames Water. H. A. C. McKay, J. F. Duncan, B. E. M. Holt, K. D. B. Johnson, W. R. E. Maton, E. W. A. Pike, and G. N. Walton. March 1948. 33 pp. (Official Use Only)
- 78 AERE-C/R-2165
----- The Determination of Long-Lived Fallout in Rainwater.
R. G. Osmond, A. G. Pratchett, and J. B. Warricker. August 1957. 23 pp.
- 79 AERE-C/R-2165(App.)
United Kingdom Atomic Energy Authority. Research Group. Chemistry Division, Woolwich Outstation, England. The Determination of Long-Lived Fall Out in Rain-Water. R. G. Osmond, A. G. Pratchett, and J. B. Warricker. February 1957. 9 pp.
- 80 AERE-HP/M-27
Great Britian Atomic Energy Research Establishment. Harwell, Berks, England. Neutron Induced Activity Following an Atomic Explosion.
G. H. Stafford. August 1951. 9 pp.
- 81 AERE-HP/M-108
----- Radio-Strontium Fall-Out in Soil, Plant and Bone up to December 1955. D. V. Booker, F. F. Bryant, R. C. Chadwick, A. C. Chamberlain, and A. Morgan. June 1956. 10 pp. (Official Use Only)

- 82 AERE-HP/M-121
 United Kingdom Atomic Energy Authority. Research Group. Atomic Energy Research Establishment, Harwell, Berks, England. Strontium 90 Samples from the Commonwealth. F. J. Bryant, A. C. Chamberlain, and G. S. Spicer. December 1957. 7 pp. (Official Use Only)
- 83 AERE-HP/M-124
 ----- A. E. R. E. Area Survey from September 1956 to November 1957. R. C. Chadwick. March 1958. 16 pp. (Official Use Only)
- 84 AERE-HP/M-126
 ----- Measurements of ^{137}Cs in Human Beings in the United Kingdom 1956/1957. J. Rundo. January 1958. 5 pp.
- 85 AERE-HP/R-1701
 ----- The Radiological Dose to Persons in the United Kingdom Due to Debris from Nuclear Test Explosions. N. G. Stewart, R. N. Crooks, and E. M. R. Fisher. June 1955. 27 pp.
- 86 AERE-HP/R-2017
 ----- The Radiological Dose to Persons in the U. K. Due to Debris from Nuclear Test Explosions to Prior to January 1956. N. G. Stewart, R. N. Crooks, and E. M. R. Fisher. September 1956. 29 pp.
- 87 AERE-HP/R-2056 (Amended)
 ----- Radiostrontium Fallout in Biological Materials in Britain. F. J. Bryant, A. C. Chamberlain, A. Morgan, and G. S. Spicer. September 5, 1956. Reissued with amendments May 1957. 49 pp.
- 88 AERE-HP/R-2182
 ----- Radiostrontium and Radiocaesium Measurement in Biological Materials to December 1956. D. V. Booker, F. J. Bryant, A. C. Chamberlain, A. Morgan, and G. S. Spicer. 1957. 11 pp.
- 89 AERE-HP/R-2353
 ----- Radiostrontium in Soil, Grass, Milk and Bone in the United Kingdom: 1956 Results. F. J. Bryant, A. C. Chamberlain, A. Morgan, and G. S. Spicer. August 1957. 33 pp.
- 90 AERE-HP/R-2354
 ----- The World-Wide Deposition of Long-Lived Fission Products from Nuclear Test Explosions. N. G. Stewart, R. N. Crooks, R. G. D. Osmund, and E. M. Fisher. October 1957. 33 pp.
- 91 AERE-SPAR-7
 ----- Fission Product Uptake in Plants. Paper 7. E. Glueckauf. July 1955. 4 pp.

- 92 AERE-SPAR-15
 United Kingdom Atomic Energy Authority. Research Group. Atomic Energy Research Establishment, Harwell, Berks, England. Soil-Plant-Animal Relationships of Fission Products Conference, July 21-23, 1955. Paper 15. Summary of Leading Points. A. C. Chamberlain. July 1955. 3 pp.
- 93 AFCRC-7
 Air Force Cambridge Research Center, Electronics Research Directorate. L. G. Hanscom Field, Bedford, Mass. Preliminary Report on Particle Analysis of Debris from IVY, MIKE and KING. Jean A. Jack. March 9, 1953. 7 pp. (Secret-RD)
- 94 AFCRC-AFSG No. 31
 ----- Conference: Weather Effects on Nuclear Detonations. B. Grossman, Ed. Air Force Surveys in Geophysics. AFCRC Technical Report 53-5. February 1953. 131 pp. (Secret-RD)
- 95 AFCRC-TR-53-4 AWD
 ----- Report on Studies of Particulate Debris from Shots Tumbler-3 and Snapper-3. W. E. Parker. February 1953. 11 pp. (S-RD)
- 96 AFOSR-TR-58-51
 Chicago. Univ. Enrico Fermi Institute for Nuclear Studies. Tritium Assays of Natural Waters Measured in 1956-1957. F. Begemann. December 31, 1957. 71 pp.
- 97 AFSWP-99
 Armed Forces Special Weapons Project. Washington D C. Dosage and Dose-Rate Curves of Residual Radioactivity Based on Multiple Decay of Gross Fission Products and Radiation Intensity Charts for Radium and Cobalt 60 Calibration Sources. September 1952. 24 pp.
- 98 AFSWP-501(Tech. Analysis Report)
 ----- The Residual Radiological Hazard from the Air Detonation of an Atomic Weapon in the Rain. L. D. Gates. May 1953. 50 pp. (Secret-RD)
- 99 AFSWP-507, TAR
 ----- Radioactive Fall-Out Hazards from Surface Bursts of Very High Yield Nuclear Weapons. D. C. Borg. May 1954. 76 pp. (Secret-RD)
- 100 ANL-4739
 Argonne National Laboratory. Lemont, Illinois. Fall-Out of Radioactivity in the Chicago Area During January, February, April, and May, 1951; Part I and Part II. A. F. Stehney and I. B. Berlman. December 19, 1951. 33 pp. (Secret)
- 101 APEX-348
 General Electric Co. Aircraft Nuclear Propulsion Dept. Cincinnati. Method of Estimating Dosage to Ground from a Radioactive Cloud. C. C. Gamertsfelder and R. L. Waterfield. October 1955. 27 pp.

- 102 ARDC-C3-36417
Air Research and Development Command. Andrews Air Force Base.
Washington, D. C. Radioactive Fall-Out from Atomic Bombs.
N. M. Lulejian. November 1953. 78 pp. (Secret-RD)
- 103 ARDC S-3
----- The Scavenging Action of Soil Debris and Rain on the
Atomic Cloud. N. M. Lulejian. January 1953. 17 pp. (Secret-RD)
- 104 ARE-H-7/53
Great Britain Armament Research Establishment. Fort Halstead,
Kent, England. Dose Rates from Ground Contaminated with Fission
Products of U²³⁵ and Pu²³⁹. G. C. Dale, R. A. Kendall, and J. C.
McKendrick. May 1953. 23 pp.
- 105 AWRE-0-35/56(X)
Great Britain Atomic Weapons Research Establishment. Aldermaston,
Berks, England. Dose Rates from Ground Contaminated with Residual
Radioactive Materials from an Atomic Explosion. G. C. Dale and
Janette C. Bomyer. August 31, 1956. 24 pp. (Official Use Only)
- 106 BNL-252
Brookhaven National Laboratory. Upton, N. Y. A Study of the Airborne
Radioactivity at Brookhaven National Laboratory from the Nevada Tests,
March Through June 1953. Max M. Weiss. 20 pp. (Official Use Only)
- 107 BNL-2242
----- Atmospheric Diffusion Formulae and Practical Pollution
Problems. Maynard E. Smith. March 2, 1955. 14 pp.
- 108 CEA-587
France. Commissariat à l'Énergie Atomique, Paris. Explosion
Nucleaire et Contamination Interne. (Nuclear Explosion and Internal
Contamination). A. Aeberhardt. July 6, 1956. 27 pp.
- 109 CDRE-257
India. Chemical Defense Research Establishment. A New Evaluation
of a Parameter Occurring in the Theory of Atmospheric Diffusion.
K. L. Calder. September 8, 1943. 15 pp. (Secret)
- 110 CH-3713
Chicago. University. The Transmission of Radio-Strontium and
Plutonium from Mother to Offspring in Laboratory Animals. M. P.
Finkle. January 21, 1947.
- 111 CR-REC-509
Atomic Energy of Canada Ltd. Chalk River Project, Chalk River, Ont.
Monitoring of Drinking Water for Fresh Fission Product Contamination.
G. W. C. Tait. August 14, 1952. 21 pp. (Confidential)
- 112 CRC-689
----- and Canada. Dept. of National Health and Welfare, Ottawa.
Levels of Strontium 90 in Canada up to December 1956. February 1957.
16 pp.

- 113 CRGP-488
Atomic Energy Project. Canada. Detection of Gamma Active Contamination in Bulk Rainwater. 1. Hugh Carmichael and J. F. Steljes. November 20, 1951. 21 pp. (Secret-RD)
- 114 CRHP-733
Atomic Energy of Canada Ltd. Chalk River Project, Chalk River, Ont. Emergency Radiation Monitoring of Drinking Water. G. W. C. Tait and W. F. Merritt. October 1957. 20 pp.
- 115 CRR-477
National Research Council of Canada. Atomic Energy Project, Chalk River, Ont. Aerial Prospecting for Radioactive Deposits in Snowfalls. H. Carmichael, G. Cowper, E. A. Godby, G. S. Levy, and J. F. Steljes. July 11, 1951. 37 pp. (Confidential)
- 116 CWLR-2136
Chemical Warfare Labs. Army Chemical Center, Maryland. Effect of Wind Velocity and Particle Size on Nasal Penetration of Aerosols. Gabrielle Asset, Williams Farnum, and Stella Ryan. July 2, 1957. 17 pp.
- 117 DC-53-5-14(Del.)
General Electric Co. Aircraft Nuclear Propulsion Project. Cincinnati. A Method of Analyzing Rainouts. James H. Bick and John A. Weaver. 1953. 16 pp. (Secret-RD)
- 118 DP-253
Du Pont de Nemours (E. I.) & Co. Savannah River Lab. Augusta, Ga. Design of a Regional Survey Program. J. Henry Horton, Jr. November 1957. 20 pp.
- 119 FWE-10
Atomic Weapons Research Establishment. Aldermaston, Berks England. Agricultural and Biological Investigations Pertaining to Contamination by Fission Products (Miscellaneous Papers) nd, 22 pp.
- 120 FWE-19
----- Symposium on the physical Effects of Atomic Weapons.
Paper No. 14. The Base Surge. The Mechanism of Fall-Out.
E. P. Hicks and W. G. Penny. nd. 24 pp.
- 121 HW-3-3495
Hanford Engineer Works, Richland, Washington. Vegetation Contamination for First Quarter of 1946. L. D. Turner and J. W. Healy. May 1, 1946. 13 pp. (Secret)
- 122 HW-3-3603
----- Vegetation Contamination for Second Quarter of 1946.
L. D. Turner and J. W. Healy. August 6, 1946. 10 pp. (Confidential)

- 123 HW-3-5055
Hanford Engineer Works, Richland, Washington. Vegetation Contamination for Period July 2, 1946 to August 31, 1946. L. D. Turner. October 22, 1946. 7 pp. (Secret)
- 124 HW-7-3217
----- Tolerable Concentration of Radio-Iodine on Edible Plants.
H. M. Parker. January 14, 1946. 4 pp. (Secret)
- 125 HW-20810
Hanford Works, Richland, Washington. Radioactive Particles in the Atmosphere; January 1951-March 1951. W. Singlevich. April 12, 1951. 30 pp. (Secret)
- 126 HW-22242
----- Uptake of Strontium by Several Species of Plants. A. A. Selders. September 25, 1951. 13 pp.
- 127 HW-35174
----- The Uptake and Translocation of Cesium by Plants.
J. H. Rediske and A. A. Selders. September 15, 1953. 20 pp.
- 128 HW-36734
Hanford Atomic Products Operation. Richland, Washington. The Absorption of Fission Products by Plants. J. H. Rediske, J. F. Cline, and A. A. Selders. May 17, 1955. 17 pp.
- 129 HW-38987
----- Radiochemical Analysis of Bravo Shot Soil Samples.
C. W. Thomas. January 15, 1957. 18 pp.
- 130 HW-40289
----- The Absorption by Plants of Beta-Emitting Fission Products From the Bravo Soil. A. A. Selders, J. F. Cline, and J. H. Rediske. December 20, 1955. 10 pp.
- 131 HW-47721
----- Meteorology as Related to Waste Disposal and Weapons Tests. (Lecture delivered to AFSWP Personnel, Jan. 15, 1957)
J. J. Fuquay. January 15, 1957. 33 pp.
- 132 HW-47721 A
----- J. J. Fuquay. January 15, 1957. 39 pp.
- 133 ITR-1314
Armed Forces Special Weapons Project. Sandia Base, Albuquerque, New Mexico. Neutron-Induced Soil Radioactivity. Operation Teapot Project 2.52. February-May 1955. Preliminary Report. Maynard Cowan, Jr. 1956. 18 pp. (Secret-RD)

- 134 KAPL-1439
Knolls Atomic Power Laboratory, Schenectady, New York. Determination of Radioactive Fall-Out. J. J. Fitzgerald. February 9, 1956. 25 pp.
- 135 KIR-175/57
Norwegian Defence Research Establishment. Oslo. Radiochemical Analysis of Fallout in Norway. Monthly Communication No. 1. H. Bergh, G. Finstad, L. Lund, O. Michelsen, and B. Ottar. May 1957. 8 pp.
- 136 KIR-176/57
----- Monthly Communication No. 2. ----- June 1957. 9 pp.
- 137 KIR-177/57
----- Monthly Communication No. 3. ----- July 1957. 7 pp.
- 138 KIR-183/57
----- Monthly Communication No. 4. ----- September 1957. 9 pp.
- 139 KIR-186/57
----- Monthly Communication No. 5. ----- October 1957. 8 pp.
- 140 KIR-195/58
----- Communication No. 6. ----- January 1958. 9 pp.
- 141 LA-626
Los Alamos Scientific Laboratory. New Mexico. Nuclear Explosion 16 July 1945. Health Physics Report on Radioactive Contamination Throughout New Mexico Following the Nuclear Explosion. J. G. Hoffman. February, 20, 1947. (Secret-RD)
- 142 LA-1597
----- Monitoring of Cow's Milk for Fresh Fission Products Following an Atomic Detonation. William S. Johnson, Jean McClelland, and Clarence P. Skillern. October 1953. 13 pp. (Official Use Only)
- 143 LA-1620
----- Summary of Information on Gamma Radiation from Atomic Weapons. J. S. Malik. July 28, 1955. 240 pp. (Secret-RD)
- 144 LA-1717
----- A Whole Body Gamma Counter for Human Subjects. Ernest C. Anderson, Robert L. Schuch, J. D. Perrings, and Wright H. Langham. September 1955. 53 pp.
- 145 LADC-I120
----- Nuclear Explosion 16 July 1945. Health Physics Report on Radioactive Contamination Throughout New Mexico Following the Nuclear Explosion. Joseph G. Hoffman. February 20, 1947. 114 pp. (Official Use Only)

- 146 LAMS-507
Los Alamos Scientific Laboratory. New Mexico. Spread of Radioactive Contamination from a Tower-Burst Atomic Bomb. Frederick Reines. January 1947. 11 pp. (Secret-RD)
- 147 LAMS-542
----- Radioactive Pollution of the Earth's Atmosphere. Frederick Reines. March 25, 1947. 10 pp. (Secret-RD)
- 148 LAMS-709
----- Radioassay and Spectrochemical Analysis of Water and Soil Samples Collected from Los Alamos, and Pueblo Canyons and Analyses of Water Samples from Tech Area, DP Site, and Laundry Drains. - December 1947. Bert F. Schnap, James F. Tribby, Earl J. Cox, A. L. Henickaman, Oliver Simi, and W. W. Wilson. March 26, 1948. 21 pp. (Official Use Only)
- 149 LAMS-983
----- Radioactive Contamination of the Atmosphere by Super Bombs. Ernest C. Anderson. November 29, 1949. 13 pp. (Secret-RD)
- 150 LAMS-2020
----- The Wind Variability of Fall-Out Patterns. Leon Sherman. March 1956. 24 pp. (Official Use Only)
- 151 LAMS-2038
----- A Survey of Some Los Alamos County Canyons for Radioactive Contamination, Spring 1953 to Spring 1955. Aubrey O. Dodd. April 1956. 17 pp. (Official Use Only)
- 152 MDDC-1006
California. University, Berkeley. Radiation Laboratory. The Uptake by Plants of Plutonium and Some Products of Nuclear Fission Absorbed on Soil Colloids. Louis Jacobson, and Roy Overstreet. nd 8 pp.
- 153 MDDC-1503
Clinton Labs., Oak Ridge, Tennessee. Determination of Particulate Air-Borne Long-Lived Activity. George Koval. June 22, 1945. 8 pp.
- 154 NavOrd-2825
Naval Ordnance Laboratory. White Oak, Maryland. A Symposium on the Base Surge. April 1, 1953. 94 pp.
- 155 NBS-2224
National Bureau of Standards. Washington, D. C. Gamma Radiation in Air Due to Cloud or Ground Contamination. Martin J. Berger and John A. Doggett. June 1, 1953. 77 pp.
- 156 NEL-663
Navy Electronics Lab. San Diego, California. A Theoretical Study of Atmospheric Diffusion with Applications to Fallout from Atomic Clouds. J. J. Marciano. February 17, 1956. 29 pp.

157. NM-001-059.13.04
Naval School of Aviation Medicine. Pensacola, Florida. The Radial Spread of the Tissue Ionization Dosage in Heavy Nuclei Tracts of the Primary Cosmic Radiation. Hermann J. Schaefer. August 5, 1952. 31 pp.
- 158 NM-001.059.13.05
----- The Rate of Energy Loss (Rel) in the Terminal Section of Heavy Nuclei Tracts in Living Tissue. Hermann J. Schaefer, Naval School of Aviation Medicine, Pensacola and Ernst Stuhlinger, Redstone Arsenal, Huntsville, Alabama. March 11, 1953. 19 pp.
- 159 NM-001-059.13.07
----- The Cross Section for Thin-Down Hits from Heavy Nuclei of the Primary Cosmic Radiation in Biological Experimentation. Hermann J. Schaefer. January 12, 1954. 25 pp.
- 160 NP-1734
Cambridge Research Labs. Massachusetts. Report on the Atmospheric Electrical Conductivity Tests Conducted in Vicinity of Los Alamos Scientific Laboratories, New Mexico. Samuel C. Coroniti. May 26, 1950. 53 pp. (Secret)
- 161 NP-2065
Radioactive Contamination as a War Weapon. Translated by Carl Wachtl. Thirring, Hans. 1948. 12 pp. Translated from Flugwehr und Technik 1948, 185-8.
- 162 NP-3331
Joint Task Force One. Naval Medical Research Section. Residual Effects of Atomic Radiation in Soils on Seed Germination. Appendix No. 13 to the Final Report. Roger P. Humbert, Edwin F. Miles, Eben H. Toole, and Vivian K. Toole. January 29, 1947. 11 pp. (Confidential)
- 163 NP-3525
Colorado Agriculture and Mechanical College. Fort Collins. Atmospheric Diffusion from a Point Source. C. S. Yih. August 1951. 11 pp.
- 164 NP-4075
Massachusetts Institute of Technology. South Dartmouth. Round Hill Field Station. Final Report on Research on Turbulence and Diffusion of Particulate Matter in the Lower Layers of the Atmosphere for November 1, 1948-November 30, 1951. E. Wendell Hewson, H. E. Cramer, G. C. Gill and F. A. Record. nd 129 pp.
- 165 NP-4995
California. University, Los Angeles. Investigation of Atmospheric Diffusion Processes by Means of Experimental, Analytical, and Numerical Techniques. H. F. Poppendiek and J. E. Vehrencamp. May 1950. 57 pp.

- 166 NP-5232
Cambridge Research Center. Atmosphere Physics Laboratory. Mass. Air Force Surveys in Geophysics. No. 13. Efficiency of Precipitation as a Scavenger. C. E. Anderson. August 1952. 23 pp. (Secret)
- 167 NP-6280
Brussels. Centre D'Etudes Pour Les Applications de l'Energie Nucleaire. Mesure des Activites des Eaux de Pluie et de Surface. (Measurement of the Activities of Rain and Surface Waters). R. Boulenger. June 30, 1956. 17 pp.
- 168 NP-6281
----- Mesure de L'Activite des Poussieres en Suspension dans l'Air. (Measurement of the Activity of Dusts in Suspension in Air.) R. Boulenger. July 6, 1956. 11 pp.
- 169 NP-6282
----- Standardisation des Mesures du Fond Continu Radioactif. (Standardization of the Measurements of Continuous Radioactive Background.) C. Godeau. June 22, 1956. 41 pp.
- 170 NP-6394
Norway. Defence Research Establishment and Sweden, Research Inst. of National Defence, Stockholm. Radioactive Fallout Over the Scandinavian Peninsula Between July and December 1956. A Joint Report. P. B. Storebo and K. Edvarson. 7 pp.
- 171 NP-6395
Sweden. A Suggested Procedure for the Collection of Radioactive Fallout. Includes Annex I: A Method for Monthly Collection of Radioactive Fallout. Kay Edvarson. Annex 2. The Computation of Infinite Plane 30-Year Doses from Radioactive Fallout. Bo Aler and Carl Johan Herrlander. 1957. 22 pp.
- 172 NP-6672
Atomenergikommissionen, Denmark. Radioaktiviteten I Riso Området. (Radioactivity in the Riso District.) K. Heydern, J. Lippert, and P. Theodorsson. April 1, 1957. 87 pp.
- 173 NRDL TR-32
Naval Radiological Defense Laboratory. San Francisco. Gamma-Ray Spectral Measurements of Fall Out Samples from Operation Castle. C. S. Cook, et al. January 26, 1955. 44 pp. (Secret-RD)
- 174 NRDL-TR-71
----- A Technique for Estimating Total Gamma Dose to Personnel Exposed to Fallout. R. W. Shnyder. January 10, 1956. 16 pp. (Secret-RD)

- 175 NRL-3862
Naval Research Laboratory. Washington, D. C. Geographical Distribution of the Radioactivity of the Atmosphere. I. H. Blifford. October 11, 1951. 10 pp.
- 176 NRL-4069
----- The Collection of Long-Lived Natural Radioactive Products from the Atmosphere. Peter King, Luther B. Lockhart, Jr., Richard A. Baus, Robert L. Patterson, Jr., Herbert Friedman, and Irving H. Blifford, Jr. October 20, 1952. 11 pp.
- 177 NRL-4118
Naval Research Lab. The Radioactivity of the Atmosphere. Irving H. Blifford. April 15, 1953. 45 pp.
- 178 NRL-4221
----- Washington, D. C. Radioactive Hailstones. I. H. Blifford, R. L. Patterson, Jr., L. B. Lockhart, Jr., and R. A. Baus. July 24, 1953. 4 pp.
- 179 NRL-4509
----- Radioactivity of the Air. Interim Report. I. H. Blifford, Jr., H. Friedman, L. B. Lockhart, Jr., and R. A. Baus. February 21, 1955. 38 pp. (Confidential)
- 180 NRL-4607
----- Relationship Between the Air Concentration of Radioactive Fission Products and Fallout. Interim Report. I. H. Blifford, Jr., L. B. Lockhart, Jr., and R. A. Baus. August 20, 1955. 10 pp.
- 181 NRL-4654
----- Fallout Dosages at Washington, D. C. I. H. Blifford, Jr. and H. B. Rosenstock. October 6, 1955. 9 pp.
- 182 NRL-4760
----- Radioactivity of the Air. I. H. Blifford, Jr., H. Friedman, L. B. Lockhart, Jr., and R. A. Baus. February 21, 1955. 37 pp.
- 183 NYO-1521
New York Operations Office. Health and Safety Division. AEC. Soil and Water Uranium and Radium Survey. Progress Report. D. E. Lynch. June 20, 1950. 45 pp.
- 184 NYO-1576
New York Operations Office. AEC. Radioactive Debris from Operations Buster and Jangle; Observations Beyond 200 Miles from the Test Site. January 28, 1952.
- 185 NYO-2071
----- Health and Safety Lab. AEC. HASL Aerial Survey System. M. E. Cassidy, R. T. Graveson, and H. D. LeVine. July 29, 1957. 58 pp.

- 186 NYO-3434
Princeton University. New Jersey. The Nature of Atmospheric Dust; Radioactive and Electron Microscope Measurements on Fall-Out On Princeton, New Jersey, October 21, 1954 to August 10, 1955. Progress Report to August 31, 1955. Clarence Heininger and John Turkevich. December 1, 1955. 25 pp.
- 187 NYO-4437
Massachusetts Institute of Technology. Cambridge. Sedgwick Labs. of Sanitary Science. Assaying Techniques for Radioisotopic Contaminants in Water Supplies. A. Gordon Wheler, Jr., Warren J. Kaufman, and Rolf Eliassen. July 1, 1952. 73 pp.
- 188 NYO-4505
New York Operations Office. AEC. Radioactive Debris from Operations Tumbler and Snapper Observations Beyond 200 Miles from the Test Site. Part 1. January 12, 1953. 67 pp. (Secret)
- 189 NYO-4522
----- Radioactive Debris from Operation Ivy. April 28, 1953. 37 pp. (Secret)
- 190 NYO-4569
Rensselaer Polytechnic Institute. Troy, New York. The Fate of Fission Products Deposited in the Reservoirs of the Troy, New York Area Following Nuclear Detonations During the Spring Tests of 1953. E. J. Kilcawley, H. M. Clark, H. L. Ehrlich, W. J. Kelleher, H. E. Schultze, and N. L. Krascella. December 16, 1953. 152 pp.
- 191 NYO-4575
Harvard University. Cambridge, Mass. Radioactive Fall-Out in Surface Waters of Massachusetts. Progress Report for April-December 1952. Harold A. Thomas, Jr., R. Stevens Kleinschmidt, Frank L. Parker, and Carlos G. Bell. 13 pp.
- 192 NYO-4627
New York Operations Office. Health and Safety Lab. AEC. Analysis of Data Obtained by Japanese Scientists during the Cruise of the Shunkotsu Maru. Allyn C. Vine. Woods Hole Oceanographic Institution and Health and Safety Lab. New York Operations Office, AEC. March 28, 1955. 28 pp. (Secret)
- 193 NYO-4645 (Del.)
Weather Bureau. Washington, D. C. World-Wide Fallout from Operation Castle. Robert J. List. May 17, 1955. 235 pp. (Secret)
- 194 NYO-4654
Harvard University. Cambridge, Mass. Sanitary Engineering Aspects of Long-Range Fallout from Nuclear Detonations. (thesis) Carlos G. Bell, Jr. January 1955. 248 pp.

- 195 NYO-4679
New York Operations Office. Health and Safety Laboratory. AEC.
A Study of Radioactive Debris in the Upper Atmosphere. James Fresco
and Edward Hardy. August 1955. 85 pp. (Secret)
- 196 NYO-4696 (Del.)
Weather Bureau. Washington, D. C. Radioactive Fallout in North
America From Operation Teapot. Robert J. List. February 1956. 134 pp.
- 197 NYO-4862
New York Operations Office. Health and Safety Lab. AEC. Summary
of Analytical Results from the HASL Strontium Program, July through
December 1956. John H. Harley, Edward P. Hardy, Jr., Ira B.
Whitney, and Merril Eisenbud. March 15, 1957. 44 pp.
- 198 NYO-4889
----- A Study of Fallout in Rainfall Collections from
March through July 1956. William R. Collins, Jr. and Naomi A.
Hallden. April 30, 1957. 27 pp.
- 199 ONRL-66-52
Office of Naval Research. London (England) Atmospheric Radioactivity
Following Nuclear Explosions. W. Lewis Hyde. July 3, 1952. 7 pp.
(Official Use Only)
- 200 ORNL-251
Oak Ridge National Laboratory. Tennessee. Proposal for Evaluating
the Impact of Water-Borne Radioactive Contaminants on Sanitary
Engineering Facilities. O. R. Placak and R. J. Morton. October 29,
1948. 9 pp.
- 201 ORNL-816
----- A Preliminary Survey of Radioactive Constituents in Rain-
Water at ORNL. W. A. Brooksbank, Jr., A. H. Emmons, J. W. Gost,
and S. A. Reynolds. December 4, 1950. 47 pp.
- 202 ORNL-1081
----- Fall-Out in Southeastern United States During January and
February 1951 from the Nevada Atomic Tests; Health Physics Division.
F. J. Davis. Issued November 27, 1951. 39 pp.
- 203 ORNL-1155
----- Monitoring of Liquids for Radioactivity. W. M. Hurst.
Issued March 11, 1952. 34 pp.
- 204 PTP-498
Gt. Britain Chemical Defence Experimental Establishment. Porton,
Wilts, England. Preliminary Studies of the Distribution of Particles
at Medium Range from a Ground Level Point Source. F. Pasquill.
August 12, 1955. 24 pp.

- 205 R-139 RAND
RAND Corp. Santa Monica, California. The Radiation Hazard from an Atomic Bomb Cloud. S. T. Cohen and E. H. Plesset. April 18, 1949. 17 pp. (Secret)
- 206 R-265
----- Transport and Early Deposition of Radioactive Debris from Atomic Explosions. S. M. Greenfield. July 1, 1954. 274 pp. (Secret-RD)
- 207 R-270
----- Staff Report. September 15, 1954. 62 pp. (Secret-RD)
- 208 RM-839
----- Comparison of Radiation Hazards from Spherical and Toroidal Atomic Bomb Clouds. J. S. Pease and R. L. Pease. May 1, 1952. 9 pp. (Secret-RD)
- 209 RM-1359
----- Computation of Radiation Level in the Vicinity of a Distribution of Contaminating Material. R. H. Frick. September 30, 1954. 30 pp.
- 210 RM-1362
----- Contamination Hazard from a Multibomb Campaign. S. M. Greenfield. February 10, 1955. 22 pp. (Secret-RD)
- 211 RM-1371
----- A Model for Fallout Calculations. R. H. Dishington. October 8, 1954. 60 pp. (Secret)
- 212 RM-1676-AEC
----- A Catalog of Fallout Patterns. S. M. Greenfield, R. R. Rapp and P. A. Waters. April 16, 1956. 93 pp.
- 213 RM-1753(RAND)
----- Fallout Computations for Operational Studies. R. R. Rapp. July 5, 1956. 32 pp. (Secret-RD)
- 214 RM-1855(RAND)
----- Fallout Computations and Castle-Bravo—A Case Study. S. M. Greenfield and R. R. Rapp. January 16, 1957. 80 pp. (Secret-RD)
- 215 RM-1969(RAND)
----- Radioactive Contamination from a Multibomb Campaign. S. M. Greenfield. January 6, 1956. 36 pp.
- 216 Sandstone 30
Joint Task Force Seven. Contamination Studies. Annex 9. Pts. I, II, III, IV, and V of the Scientific Director's Report. H. L. Andrews and R. E. Murphy. (hd) 175 pp. (Secret-RD)

- 217 SC-3466(TR)
Sandia Corp. Albuquerque, New Mexico. Residual Contamination from Nuclear Bursts. M. Cowan et al. February 15, 1955. 66 pp. (Secret-RD)
- 218 SC-3547(TR)
----- The Use of Wind Data in Estimating the Risk of Radioactive Fall-Out (Application to Lulejian's Method of Radioactive Fall-Out Prediction. C. E. Buell. January 26, 1955. 41 pp. (Secret-RD)
- 219 SC-4109(TR)
----- Program for Computing Probabilities of Fallout from a Large-Scale Thermonuclear Attack. W. W. Bledsoe. April 29, 1957. 64 pp.
- 220 TID-388(paper 11)
Brookhaven National Lab. Upton, N. Y. Monitoring and Protection Techniques; II, paper 11 of Health Physics Insurance Seminar; February 6-10, 1950. F. P. Cowan. March 12, 1951. 9 pp.
- 221 TID-5027
----- Observations of Fall Out from the Nevada Tests; January 27-February 6, 1951. Max M. Weiss and J. B. H. Kuper. nd. 16 pp.
- 222 TID-5489
Weather Bureau. Washington, D. C. A Method of Fallout Prediction for Tower Bursts at the Nevada Test Site. Kenneth M. Nagler, Lester Machta, and Francis Pooler, Jr. June 1955. 51 pp. (Secret-RD)
- 223 UCLA-140
California. University, Los Angeles. Atomic Energy Project. The 1949 and 1950 Radiological Soil Survey of Fission Product Contamination and Some Soil-Plant Interrelationships of Areas in New Mexico Affected By the First Atomic Bomb Detonation. K. H. Larson, J. H. Olafson, J. W. Neel, W. F. Dunn, S. H. Gordon, and B. Gillooly. Issued June 12, 1951. 84 pp.
- 224 UCLA-143
----- Continuous Radioactivity Monitoring of the Atmosphere at the Atomic Energy Project, University of California at Los Angeles; Part I. The Period After the Nevada Tests. L. Baurmash, W. R. Kennedy, and G. Streit. July 17, 1951. 15 pp.
- 225 UCLA-199
----- A Radio Telemetering System for the Measurement of Atmospheric Radioactivity. Frank C. Strebe and William R. Kennedy. May 7, 1952. 22 pp.
- 226 UCLA-247
----- Soil-Plant Interrelationships with Respect to the Up-Take of Fission Products. I. The Uptake of Sr⁹⁰, Cs¹³⁷, Ru¹⁰⁶, Ce¹⁴⁴, and Y⁹¹. James W. Neel, Jon H. Olafson, Allen J. Steen, Barbara E. Gillooly, Hideo Nishita, and Kermit H. Larson. March 9, 1953. 44 pp.

- 227 UCLA-259
California. University, Los Angeles. Atomic Energy Project. The Availability of Radio-Strontium to Mammals by Way of the Food Chain. Warren J. Gross, Janice F. Taylor, Joshua A. Lee, and James C. Watson. Issued June 18, 1953. 26 pp.
- 228 UCLA-282

Fixation and Extractability of Fission Products Contaminating Various Soils and Clays: I. Sr⁸⁹, Sr⁹⁰, Y⁹¹, Ru¹⁰⁶, Cs¹³⁷, and Ce¹⁴⁴. Hideo Nishita, Bruce W. Kowalewsky and Kermit H. Larson. February 23, 1954. 32 pp.
- 229 UCLA-294

Plant Uptake of Sr⁹⁰, Ru¹⁰⁶, Cs¹³⁷, and Ce¹⁴⁴ from Three Different Types of Soils. Evan M. Romney, William A. Rhoads, and Kermit Larson. June 10, 1954. 28 pp.
- 230 UCLA-305

A Multichannel Telemetering System for the Detection and Recording of Atmospheric Radiation. William R. Kennedy and Frank C. Strebe. September 15, 1954. 23 pp.
- 231 UCLA-317

The Effects of Calcium and Phosphate in Foods on Radiostrontium Accumulation. N. S. MacDonald, Patricia C. Spain, Florita Ezmirian, and Donald E. Rounds. December 7, 1954. 20 pp.
- 232 UCLA-331

The Effect of Certain Environmental Factors on Mineral Uptake by Bean Plants. II. Calcium and Strontium Uptake. Arthur H. Lange, William L. Ehrler, and Karl C. Hamner. Atomic Energy Project, Univ. of California, Los Angeles and University of California, Los Angeles. March 31, 1955. 28 pp.
- 233 UCLA-337

Relative Retention of Strontium and Calcium in Bone Tissue. George V. Alexander, Ralph E. Nusbaum, and Norman S. MacDonald. June 14, 1955. 21 pp.
- 234 UCLA-349

The Influence of Soil Organic Matter on the Uptake of Sr⁹⁰ by Barley and Tomato Plants. Hideo Nishita, Bruce W. Kowalewsky, Kermit H. Larson. October 17, 1955. 42 pp.
- 235 UCLA-351

The Effect of Certain Environmental Factors on Calcium, Phosphorus, and Strontium Uptake by Barley. W. L. Ehrler, E. M. Romney, and K. C. Hamner. October 24, 1955. 22 pp.
- 236 UCLA-380

The Release of Sr⁹⁰ and Cs¹³⁷ from Vina Loam Upon Prolonged Cropping. H. Nishita, A. J. Steen and K. H. Larson. November 6, 1956. 32 pp.

- 237 UCLA-388
California. University, Los Angeles. Atomic Energy Project. The Effect of Pacific Weapons Testing on Background Activities in the State of California. L. Baumash, J. W. Neel, and R. F. Butts. May 14, 1957. 33 pp.
- 238 UCLA-401
----- Summary of Certain Trends in Soil-Plant Relationship Studies of the Biological Availability of Fall-Out Debris. H. Nishita and K. H. Larson. July 28, 1957. 68 pp.
- 239 UCLA-406
----- The Distribution of Plutonium in the Soils of Central and Northeastern New Mexico as a Result of the Atomic Bomb Test of July 16, 1945. J. H. Olafson, H. Nishita, and K. H. Larson. Sept. 19, 1957. 25 pp.
- 240 UCRL-3703
California. University, Berkeley. Radiation Laboratory. Human and Cattle Thyroid Radioactivity Associated with Fallout: October 1955 to October 1956. Margaret R. White. March 1, 1957. 15 pp.
- 241 UCRL-3873
----- A Generalization of Target Models of Survival. Howard G. Parker. July 22, 1957. 25 pp.
- 242 UCRL-4403
California. University, Livermore. Radiation Laboratory. A Method of Forecasting Fall-Out Isodose Contours for Nevada Proving Ground. A. Vay Shelton. September 28, 1954. 14 pp. (Secret-RD)
- 243 UCRL-4660
----- Fall-Out Yield Scaling. A. Vay Shelton. February 24, 1956. 16 pp. (Secret-RD)
- 244 USNRDL-411(rev.)
Naval Radiological Defense Laboratory. San Francisco. An Investigation of Synthetic Contaminants for an Atomic Burst in Deep Seawater. C. F. Miller, R. Cole, and W. J. Heiman. August 6, 1953. 151 pp. (Secret)
- 245 USNRDL-434
----- Variation of Gamma Decay Rates and Average Energy After an Atomic Burst. W. J. Heiman. February 5, 1954. 21 pp. (Secret)
- 246 USNRDL-435
----- An Estimate of the Predominant Chemical Species Resulting From a Shallow Under Water Burst of an Atomic Bomb. L. R. Bunney and N. E. Ballou. February 5, 1954. 26 pp.

- 247 USNRDL-TR-32
Naval Radiological Defense Laboratory. San Francisco. Gamma-Ray Spectral Measurements of Fallout Samples from Operation Castle. C. S. Cook, R. F. Johnson, R. L. Mather, F. M. Tomnovec, and L. A. Webb. January 26, 1955. 49 pp. (Confidential)
- 248 USNRDL-TR-43
----- Effect of Harbor Bottom Material on the Decontamination of Various Elements in a Synthetic Sea Water Contaminant. R. Cole, W. J. Heiman, and C. F. Miller. February 28, 1955. 121 pp. (Confidential)
- 249 USNRDL-TR-71
----- A Technique for Estimating Total Gamma Dose to Personnel Exposed to Fallout. R. W. Schnider. January 10, 1956. 19 pp. (Secret)
- 250 USNRDL-TR-119
----- Uptake of Fission Products and Neutron-Induced Radio-Nuclides by the Clam. J. K. Gong, W. H. Shipman, H. V. Weiss, and S. H. Cohn. November 27, 1956. 15 pp.
- 251 USNRDL-TR-146
----- Spectrometric Analysis of Gamma Radiation from Fallout From Operation Redwing. W. E. Thompson. April 29, 1957. 42 pp. (Confidential)
- 252 USNRDL-TR-147
----- 4-Pi Gamma Ionization Chamber Decay Measurements of Fallout Samples from Operation Castle. W. H. Shipman and J. R. Lai. January 13, 1956. 20 pp.
- 253 USNRDL-TR-152
----- Investigation and Correlation of Some Physical Parameters of Fallout Material. W. Williamson, Jr. March 28, 1957. 40 pp.
- 254 USNRDL-TR-170
----- Physical, Chemical, and Radiological Properties of Slurry Particulate Fallout Collected During Operation Redwing. N. H. Farlow and W. R. Schell. May 5, 1957. 19 pp.
- 255 UWFL-16
Washington. University, Seattle. Applied Fisheries Laboratory. Bikini Radiobiological Resurvey of 1948. nd 51 pp.
- 256 UWFL-19
----- Eniwetok Radiological Resurvey July 1948. nd. 39 pp.
- 257 UWFL-40
----- Radiation Levels in Biological Samples Collected at Ponape, Caroline Islands, December 16-17, 1954. Lauren R. Donaldson, Edward E. Held, and Paul R. Olson. March 10, 1955. 8 pp. (Official Use Only)

- 258 UWFL-42
Washington. University, Seattle. Applied Fisheries Laboratory.
A Radiological Study of Rongelap Atoll, Marshall Islands, During
1954 - 1955. August 15, 1955. 75 pp.
- 259 UWFL-43

Radiobiological Resurvey of Rongelap and Ailinginae
Atolls, Marshall Islands, October-November 1955. December 30, 1955.
91 pp.
- 260 UWFL-46

Survey of Radioactivity in the Sea near Bikini and
Eniwetok Atolls June 11-21, 1956. Lauren R. Donaldson, Allyn H.
Seymour, Edward E. Held, Neal O. Hines, Frank G. Lowman, Paul
R. Olson, and Arthur D. Welander. July 23, 1956. 39 pp.
- 261 UWFL-47

Survey of Radioactivity in the Sea and Pelagic Marine
Life West of the Marshall Islands, September 1-20, 1956. Allyn H.
Seymour, Edward E. Held, Frank G. Lowman, John R. Donaldson,
and Dorothy J. South. March 15, 1957. 57 pp.
- 262 UWFL-49

Radioactivity in the Reef Fishes of Belle Island
Eniwetok Atoll April 1954 to November 1955. Arthur D. Welander.
May 17, 1957. 42 pp.
- 263 -----
Land Crabs and Radioactive Fallout at Eniwetok
Atoll. Edward E. Held. May 27, 1957. 39 pp.
- 264 WASH-406(Rev.)
Technical Information Service, AEC. Radiostrontium Fallout: Project
Sunshine. Atomic Weapon Report. W. F. Libby. July 1956. 92 pp.
(Secret-RD)
- 265 WT-4
Naval Radiological Defense Laboratory. Fall-Out Phenomenology.
Annex 6.4. Scientific Director's Report of Atomic Weapons Tests at
Eniwetok, 1951. Operation Greenhouse. C. E. Adams et al.
August 1951. 37 pp. (Secret-RD)
- 266 WT-71
Air Force Cambridge Research Center. Atmospheric Conductivity.
Annex 4.6. Scientific Director's Report of Atomic Weapon Tests at
Eniwetok, 1951. Operation Greenhouse. September 1954. 100 pp.
(Secret-RD)
- 267 WT-308
Air Force. Office for Atomic Energy. AFOAT-1. Transport of
Radioactive Debris from Operations Buster and Jangle. Project 7.1 of
Operation Buster. Philip W. Allen et al. March 15, 1952. 187 pp.
(Secret)

- 268 WT-320
Air Force. Office for Atomic Energy. AFOAT-1. Radiochemical, Chemical and Physical Analysis of Atomic Bomb Debris. Project 7.3 Buster and Project 7.1 Jangle of Operation Buster-Jangle. May 28, 1952. 27 pp. (Secret-RD)
- 269 WT-335
Bureau of Plant Industry. Soil and Agricultural Engineering. Dept. of Agriculture. Analysis of Test Site and Fall-Out Material. Project 28 of Operation Jangle. March 1, 1952. 35 pp. (Secret)
- 270 WT-386
Laboratory of Physical Biology. National Institute of Arthritis and Metabolic Diseases. National Institutes of Health. Nature and Distribution of Residual Contamination I. Project 2.6c-1 of Operation Jangle. Charles R. Maxwell. June 18, 1952. 115 pp. (Secret-RD)
- 271 WT-394
Chemical and Radiological Labs. Army Chemical Center. Airborne Particle Studies. Project 2.5a-1 of Operation Jangle. Charles Robbins, et al. July 1952. 205 pp. (Secret-RD)
- 272 WT-395
Naval Radiological Defense Lab. Fall Out Particle Studies. I. G. Poppoff et al. April 2, 1952. (Secret-RD)
- 273 WT-423
Bureau of Plant Industry, Soils, and Agricultural Engineering. Dept. of Agriculture. Petrographic Studies of Fall Out Material from the Surface and Underground Shots. Project 2.8 Supplementary Report of Operation Jangle. I. C. Brown. May 1953. 73 pp.
- 274 WT-507
Los Alamos Scientific Lab. Los Alamos, New Mexico. Radiation Monitoring Measurements. Project 15.3 of Operation Tumbler - Snapper. J. S. Malik. June 1952. 18 pp. (Secret-RD)
- 275 WT-615
Naval Radiological Defense Lab. Nature, Intensity, and Distribution of Fall-Out from Mike Shot. W. B. Heidt, Jr. et al. Project 5.4a of Operation Ivy. April 1953. 84 pp. (Secret-RD)
- 276 WT-617
Chemical and Radiological Labs. Army Chemical Center. Fall-Out and Cloud-Particle Studies. Project 5.4b of Operation Ivy. June 1953. 169 pp. (Secret-RD)
- 277 WT-811
California. University, Los Angeles, School of Medicine. Distribution and Characteristics of Fall-Out at Distances Greater than 10 Miles from Ground Zero, March and April 1953. Project 27.1 of Operation Upshot-Knothole. C. R. Rainey. February 1954. 98 pp. (Secret-RD)

- 278 WT-812
California. University, Los Angeles. School of Medicine. Environmental and Biological Rate of Fallout From Nuclear Detonations in Areas Adjacent to the Nevada Proving Grounds. Project 27.2 of Operation Upshot-Knot-hole. Robert G. Lindberg, James T. Scanlan, James C. Watson, William A. Rhoads, and Kermit H. Larson. February 1954. 54 pp. (Confidential)
- 279 WT-915
Armed Forces Special Weapons Project, Sandia Base. Albuquerque, N. M. Operation Castle. Pacific Proving Grounds. Project 2.5a. Distribution and Intensity of Fallout. R. L. Steton et al. January 1956. (Secret-RD)
- 280 WT-916
Chemical Corps. Army Chemical Center, Maryland. Fallout Studies. Project 2.5b. Operation Castle, Pacific Proving Grounds March-May 1954. Edward F. Wilsey et al. February 1956. 136 pp. (Secret-RD)
- 281 WT-918
Chemical and Radiological Labs. Army Chemical Center, Md. Radiochemical Analysis of Fallout. Project 2.6b, Operation Castle, Pacific Proving Grounds. Robert C. Tompkins and P. W. Krey. February 1956. 60 pp. (Secret-RD)
- 282 WT-936
Naval Radiological Defense Lab. San Francisco and Naval Medical Research Inst. Bethesda, Md. Nature and Extent of Internal Radioactive Contamination of Human Beings, Plants, and Animals Exposed to Fallout. S. H. Cohn, R. W. Rinehart, J. K. Gong, J. S. Robertson, W. L. Milne, W. H. Chapman, and V. P. Bond. December 1, 1954. 54 pp. (Addendum to Project 4.1 of Operation Castle) (Official Use Only)
- 283 WT-1012
Naval Radiological Defense Lab., San Francisco and New York Operations Office, AEC. Determination of Radiological Hazard to Personnel. M. B. Hawkins, J. D. Sartor, J. E. Howell, M. M. Bigger, W. S. Kehrer, F. K. Kawahara, F. S. Vine, Hong Lee, R. H. Black, R. J. Crew, W. B. Lane, R. R. Soule, and R. Graveson. July 1956. 101 pp. Project 2.4 of Operation Wigwam. (Official Use Only)
- 284 WT-1015
Scripps Institution of Oceanography. La Jolla, California. Mechanism and Extent of the Dispersion of Fission Products by Oceanographic Processes and Locating and Measuring Surface and Underwater Radioactive Contamination. Theodore R. Folsom. July 1956. 58 pp. Project 2.6 (Pt. II) of Operation Wigwam. (Confidential-RD)
- 285 WT-1017
Naval Radiological Defense Lab. San Francisco. Fall-Out and Airborne Activity in Operation Wigwam, With Notes on Surface Effects. Project 2.7 of Operation Wigwam. Frederic A. French. May 1955. 27 pp. (Confidential)

- 286 WT-1120
Naval Medical Research Institute. Bethesda, Md. Radiation Energy Absorbed by Human Phantoms in a Fission Fallout Field. Project 2.6 of Operation Teapot. George W. Imirie, Jr. and Robert Sharp. 1955. 60 pp. (Confidential-FRD)
- 287 WT-1182
Division of Biology and Medicine. Radiation Instruments Branch. AEC. Utilization of Telemetering Techniques in Evaluating Residual Radioactive Contamination. Richard W. Johnston. November 1956. 24 pp. Project 30.2 of Operation Teapot.
- 288 WT-1186
New York Operations Office. Health and Safety Lab. AEC. Measurement of Off-Site Fall-Out by Automatic Monitoring Stations. Project 30.1 of Operation Teapot. H. D. LeVine and R. T. Graveson. Dec. 1956. 23 pp.
- 289 Division of Biology and Medicine, AEC. Radioactive Contamination of Certain Areas in the Pacific Ocean from Nuclear Tests. A Summary of the Data from the Radiological Surveys and Medical Examinations. Gordon M. Dunning, ed. August 1957. 53 pp.
- 290 New York Operations Office. Health and Safety Lab. AEC. Radioactive Fallout Through September 1955. Merril Eisenbud and John H. Harley. 1956. 5 pp.
- 291 U. S. Atomic Energy Commission. Washington, D. C. and New York Operations Office, AEC. Global Distribution of Radioactivity from Nuclear Detonations, with Special Reference to Strontium-90, Merril Eisenbud. November 15, 1956. 21 pp.

3. Effects

- 292 AD-268(H)
Naval Radiological Defense Lab. San Francisco. Relative Importance of External and Internal Radiation Hazards from an Atomic Bomb Detonation. A. L. Baietti and F. R. Holden. November 8, 1950. 13 pp.
- 293 AEC-tr-2681
The Question as to Whether Foodstuffs Affected by Ionising Radiations are Dangerous to Health. Johann Kuprianoff. Trans. from Deutsche Lebensmittel-Rundschau 52, 1- (1956). 12 pp.
- 294 AECD-2483
The Deposition of Plutonium and Certain Fission Products in Bone as a Decontamination Problem. (CH-3591) Joseph G. Hamilton, D. H. Copp, D. M. Greenberg, M. J. Chace, L. Van Middlesworth, E. M. Cuthbertson, and Dorothy Axelrod. May 15, 1946. 98 pp.
- 295 AECD-3183
Clinton Labs. Oak Ridge, Tenn. An Attempt to Detect Small Amounts of Irradiation Injury. M. B. Cupp. September 1945. 6 pp.
- 296 AECD-3446(app.)
Washington. University, Seattle. Applied Fisheries Lab. A Description of Tumors on Ipomoea Tuba from the A-Bomb Test Sites on Eniwetok Atoll; Appendix to Radiobiological Survey of Bikini Eniwetok, and Likiep Atolls, July-August 1949. Susann F. Biddulph and Orlin Biddulph. 1952. 24 pp.
- 297 AECU-255
California Institute of Technology. Pasadena. Radiation Genetics. George W. Beadle. nd 10 pp.
- 298 AECU-1021
Los Alamos Scientific Laboratory. New Mexico. The Changes in the Blood of Humans Chronically Exposed to Low Level Gamma Radiation. Norman P. Knowlton, Jr. nd 16 pp.
- 299 AECU-1169
Brookhaven National Lab. Upton, N. Y. Health Physics and Medical Aspects of a Strontium-90 Inhalation Incident. Frederick P. Cowan, Larrence B. Farabee, and Robert A. Love. nd. 12 pp.
- 300 AECU-2480
New England Deaconess Hospital. Boston. Effects of Ionizing Radiation on the Adult and Embryonic Nervous System. Samuel P. Hicks. New England Deaconess Hospital and Harvard Medical School, Boston and Pondville State Hospital, Walpole, Mass. 1953. 37 pp.
- 301 AECU-2680
Wisconsin. University, Madison. Studies on Low Dose X-Irradiations and its Effect Upon the Biochemistry and Pathology of the Dog. Progress Report, June 1952 to May 1953. P. H. Phillips. 1953. 8 pp.

- 302 AECU-2695
Tennessee. University, Knoxville. College of Agriculture. The Effects of Irradiation from Atomic Bomb Fall-Out Upon a Group of Hereford Cattle. (Thesis) James Merrill Bird. March 1952. 78 pp.
- 303 AECU-2835
Los Alamos Scientific Lab. New Mexico. Specific Ionization and Relative Biological Effectiveness of Ionizing Radiations in Mammalian Systems. The Application to the Problem of Cosmic Ray Hazards. John B. Storer and Adolph T. Krebs, Army Medical Research Lab. Fort Knox and John E. Fuchner, Los Alamos Scientific Lab. 1954. 24 pp.
- 304 AECU-2945
Michigan State College. East Lansing. The Absorption and Distribution of Radioactivity in Plants Grown upon Soils Contaminated with Fission Products--A Preliminary Report. W. G. Long, F. G. Teubner, S. H. Wittwer, and H. B. Tukey. September 1954. 15 pp.
- 305 AECU-3039
----- Growth and Accumulation of Radioactivity in Plants Grown on "Fission Fall Out" Contaminated Soil. William G. Long, S. H. Wittwer, and H. B. Tukey. June 9, 1955. 7 pp.
- 306 AECU-3079
Hawaii. University, Honolulu. Hawaii Marine Lab. Radioisotope Uptake in Marine Organisms with Special Reference to the Passage of Such Isotopes as are Liberated from Atomic Weapons Through Food Chains Leading to Organisms Utilized as Food by Man. Annual Report for 1954-1955. September 1, 1955. 47 pp.
- 307 AECU-3101
Michigan State University. East Lansing. The Absorption and Distribution of Radio-Strontium (Sr^{89}) and Radio-ruthenium (Ru^{103}) in Certain Vegetable Crops. (Thesis). Charles Glenn Johns. September 1955. 33 pp.
- 308 AECU-3488
Rand Corp. Santa Monica, California. Worldwide Effects of Atomic Weapons; Project Sunshine. August 6, 1953. 96 pp.
- 309 AECU-3612
New England Deaconess Hospital, Boston and Harvard University, Boston. Medical School. The Effects of Radiation on Development of the Nervous System. Samuel P. Hicks. 1957. 12 pp.
- 310 AERE-Lib/Trans-749
Great Britain Atomic Energy Research Establishment, Harwell, Berks, England. The Introduction of Radioactive Isotopes of Strontium, Caesium, Ruthenium, Zirconium, and Cerium into Plants. I. V. Guliakin and E. V. Iudintseva. Trans. from Akademiia Nauk, SSSR. Doklady 111, 206-8 (1956). 4 pp.

- 311 AERE-SPAR-3
Great Britain Atomic Energy Research Establishment. Harwell, Berks, England. The Effects of Operation Hurricane on Plants and Soils. Paper No. 3. R. Scott Russell, H. M. Squire, and R. P. Martin. July 1955. 106 pp.
- 312 AF-SAM-57-91
Chicago. University. Dept. of Medicine. Leukocyte Count and Susceptibility to Bacterial Infection as Affected by Continuous Exposure to Low Dose Gamma Irradiation. C. Philip Miller and Carolyn W. Hammond. January 31, 1957. 10 pp.
- 313 AF-SAM-58-6
School of Aviation Medicine. Randolph AFB, Texas. Military and Civil Defense Aspects of the Acute Radiation Syndrome in Man. Herbert B. Gerstner. July 19, 1957. 30 pp.
- 314 AFSWP-608
Armed Forces Special Weapons Project. Washington, D. C. A Survey of Theories and Experiments on the Shortening of Life Span by Ionizing Radiation. Nathaniel I. Berlin and Frank L. DiMaggio. June 28, 1956. 65 pp.
- 315 AMNL-203
Army Medical Nutrition Lab. Denver. An Assessment of the Possible Toxic Effects to Human Beings of Short-Term Consumption of Food Sterilized with Gamma Rays. Lester M. Levy, Lionel M. Bernstein, Eugene Francis, Richard S. Harding, Harry J. Krzywicki, Virginia E. McGary, Jean Nuss, Jacqueline H. Sellars, and Margaret E. Shipman. March 25, 1957. 33 pp.
- 316 BNL-350
Brookhaven National Lab. Upton, N. Y. Mutation. Report of Symposium Held June 15 to 17, 1955. Brookhaven Symposia in Biology No. 8. 240 pp.
- 317 BNL-412
----- and Naval Medical Research Inst. Bethesda, Md. Medical Survey of Marshallese Two Years After Exposure to Fallout Radiation. R. A. Conard, Bradford Cannon, C. E. Huggins, J. B. Richards, and Austin Lowery. March 1956. 18 pp.
- 318 CRB-739
Atomic Energy of Canada Ltd. Chalk River Project. Chalk River, Ont. A Plan for the Study of Fertility of Relatives of Children Suffering from Hereditary and Other Defects. Part I. Outline of the Plan. Part II. Details of the Procedures. H. B. Newcombe, S. J. Axford, and A. P. James. November 1957. 79 pp.

- 319 FWE-129
Gt. Britain. Atomic Energy Research Establishment. Harwell, Berks
England. Tripartite Conference, November 1955. Radiation Sickness
in Man and Monkey. J. F. Loutit. Report No. TC-6/55. Contamination
of Wounds with Fall-Out From Nuclear Weapons. D. W. H. Barnes
and J. F. Loutit. Report No. TC-7/55. Observations on Mortality
and Carcinogenesis in Female CBA Mice Given Subacute and Chronic
Irradiation. R. H. Mole. Report TC-8/55. 24 pp. (Official Use Only)
- 320 HW-27620
Hanford Works. Richland, Washington. The Absorption and Trans-
location by Plants of Radioactive Elements from "Jangle" Soil.
A. A. Selders, J. H. Rediske, and R. F. Palmer. February 16, 1953.
12 pp.
- 321 ITR-1428
Walter Reed Army Medical Center. Washington, D. C. Effects of
Nuclear Weapons on a Large Biological Specimen (Swine). G. M.
McDonnel, H. A. Claypool, W. H. Moncrief, and J. D. Goldstein.
November 5, 1957. Project 4.1 of Operation Plumbbob. 112 pp.
(Official Use Only)
- 322 KAPL-559
Knolls Atomic Power Lab. Schenectady, N. Y. Evaluation of the
Effects of Atomic Bomb Detonations in the State of Nevada on Airborne
Contamination at Knolls Atomic Power Laboratory, Knolls Site and
Environs. L. J. Cherubin. May 7, 1951. 15 pp.
- 323 LA-1092
Los Alamos Scientific Lab. New Mexico. Hematological Changes in
Humans Chronically Exposed to Low-Level Gamma Radiation. Robert
E. Carter and Norman P. Knowlton, Jr. March 27, 1950. 14 pp.
- 324 LA-1440
----- Further Study of Hematological Changes in Humans
Chronically Exposed to Low Level Gamma Radiation. Robert E. Carter,
Frederick C. V. Worman, Phyllis Sanders, and Verda Strang. July
1952. 20 pp.
- 325 LAMS 1173
----- Discussion of Radiological Hazards Associated with a
Continental Test Site for Atomic Bombs. F. Reines. September 1,
1950. 32 pp. (Secret-RD)
- 326 MDDC-248
Chicago. University. Metallurgical Lab. Metabolism of Inhaled
Fission Product Aerosols. Richard Abrams, Henri C. Seibert,
A. M. Potts, William Lohr, and Sholen Postel. April 16, 1946.
114 pp.

- 327 MDDC-750
Chicago. University. Metallurgical Lab. The Transmission of Radio-Strontium and Plutonium from Mother to Offspring in Laboratory Animals. Miriam P. Finkle. nd 41 pp.
- 328 MDDC-1200
Rochester, New York. University. The Influence of Chronic Irradiation With Gamma-Rays at Low Dosages on the Mutation Rate in Drosophila Melanogaster. Ernst Caspari, and Curt Stern. August 1946. 17 pp.
- 329 MDDC-1301
----- The Effects of Irradiation from the Atomic Bomb on the Japanese. Joe W. Howland and Stafford L. Warren. nd. 21 pp.
- 330 NP-332
Canadian Radium and Uranium Corp. Statistical Analysis of the Experiments on the Influence of Radioactive Material on the Growth of Crops Conducted in the U. S. A. in the Years 1944 to 1946. Franco Modigliani. nd. 36 pp.
- 331 NP-1735
Naval School of Aviation Medicine and Research. Pensacola, Florida. Evaluation of Present Day Knowledge of Cosmic Radiation at Extreme Altitude in Terms of the Hazard to Health. Hermann J. Schaefer. April 30, 1950. 32 pp.
- 332 NP-3036
Army Institute of Pathology. Washington, D. C. Medical Effects of Atomic Bombs; The Report of the Joint Commission for the Investigation of the Effects of the Atomic Bomb in Japan; Volume I. Ashley W. Oughterson, George V. LeRoy, Averill A. Liebow, E. Cuyler Hammond, Henry L. Barnett, Jack D. Rosenbaum and B. Aubrey Schneider. April 19, 1951. 246 pp.
- 333 NP-3037
----- Volume II. ----- nd. 345 pp.
- 334 NP-3038
----- Volume III. ----- nd. 212 pp.
- 335 NP-3039
----- Volume IV. ----- nd. 324 pp.
- 336 NP-3040
----- Volume V. ----- nd. 343 pp.
- 337 NP-3041
----- Volume VI. ----- July 6, 1951. 256 pp.
- 338 NP-3073
Joint Task Force One. Naval Medical Research Section. Effects of Atomic Bomb Explosion of Seeds of Certain Forage Crop Plants; Appendix No. 11 to the Final Report. Albina F. Musil. Sept. 30, 1946. 23 pp.

- 339 NP-3564
Naval School of Aviation Medicine, Pensacola, Florida. Further Evaluation of Present Day Knowledge of Cosmic Radiation in Terms of the Hazard to Health. Hermann J. Schaefer. August 15, 1951. 23 pp.
- 340 NP-3898
Yamaguchi Medical College. Ube, Japan. Pathological Institute. Report on Pathological Research of Atomic Bomb Casualties at Nagasaki. Takeo Yamori. January 1947. 52 pp. (Restricted)
- 341 NP-3900
Tokyo Imperial University. Pathological Inst. Patho-Anatomical Studies on 34 Atomic-Bomb Cases at the City of Hiroshima and Nagasaki - First Report. Miyake Masashi. January 1947. 77 pp.
- 342 NP-4562
Hiroshima Communications Hospital. Symposium of Exposed Survivors Held in Hiroshima On March 28, 1952. 25 pp.
- 343 NP-6016
National Academy of Sciences. The Biological Effects of Atomic Radiation: A Report to the Public. 1956. 42 pp.
- 344 NP-6017
----- The Biological Effects of Atomic Radiation: Summary Reports. 1956. 123 pp.
- 345 NP-6060
----- and National Research Council. Pathologic Effects of Atomic Radiation. Publication 452. 1956. 208 pp.
- 346 NP-6435
Kyoto University. Japan. Hematological Investigation of the Atomic Bomb Sufferers in Hiroshima and Nagasaki City. Takehiko Kikuchi and Gyoichi Wakisaka. 1952. 33 pp.
- 347 NP-6436
----- Studies on the Atomic Bomb Injuries in Hiroshima City. Takehiko Kikuchi, Tadatsugu Okubo, Shinsei Nishiyama, et al. Feb. 13, 1950. 28 pp.
- 348 NRDL-TR-80
Naval Radiological Defense Lab. San Francisco. Problems of the Delayed Effects of Ionizing Radiation. R. W. Brauer et al. March 2, 1956.
- 349 NRDL-TR-89
----- The Effects of Combined Administration of Strontium-90 and External Radiation. S. H. Cohn and W. L. Milne. May 21, 1956. 20 pp.

- 350 NRL-5045
Naval Research Lab. Washington, D. C. Radiation From Atomic Explosions: Literature Survey. C. W. Malich, D. I. Gale, and L. A. Beach. November 5, 1957. 40 pp. (Secret-RD)
- 351 NYO-4451
Atomic Bomb Casualty Commission. Washington, D. C. Report of the Medical Examination on the 78 Hiroshima Patients with Radiation Cataracts. Paul G. Fillmore. July 20, 1951. 13 pp.
- 352 NYO-4456
----- Medical Survey of Atomic Bomb Casualties. Raisuke Shirabe. April 1954. 29 pp.
- 353 NYO-4461
----- Physical Fitness Studies in Children Exposed to the Atomic Bomb in Hiroshima. Wataru W. Sutow, Masayuki Ishii, Tonami Mukai, and Marvin A. Kastenbaum. June 30, 1953. 17 pp.
- 354 NYO-4471
----- Analysis of the Pediatric Medical Examination of Hiroshima "1000-Meter" Children and Their Controls. (Research Project PE-49) Wataru W. Sutow. December 31, 1952. 36 pp.
- 355 NYO-4472
----- Neurological and Psychometric Examination of Children Exposed in Utero to the Atomic Bomb in Nagasaki. Wataru W. Sutow, Michinori Hamada, and Sadahisa Kawamoto. December 10, 1953. 26 pp. (Official Use Only)
- 356 NYO-4473
----- The Growth and Development Program of the Atomic Bomb Casualty Commission. Analysis of Body Measurements and Observations Taken in 1952 on 4,200 Hiroshima Children. Earle L. Reynolds. November 15, 1953. 108 pp.
- 357 NYO-4478
----- Hiroshima. Summary of Medical Studies on Hiroshima Children Exposed to the Atomic Bomb, 1951 - 1953. Wataru W. Sutow. 99 pp.
- 358 ORNL-1031
Oak Ridge National Lab. Tennessee. Studies of Radioactivity in Fish from White Oak Lake and the Clinch River. Venus I. Knobf. July 9, 1951. 39 pp.
- 359 ORO-T-357
Johns Hopkins University. Chevy Chase, Md. Operations Research Office. Biological Effects of Whole-Body Gamma Radiation on Human Beings. Harold O. Davidson, Jr. December 1956. 104 pp.

- 360 OSR-TR-56-19
Zurich. Universitat. Effects on Living Tissues by Primary Cosmic Ray Particles. Jakob A. G. Eugster. February 1956. 37 pp.
- 361 R-251-AEC (Amended)
Rand Corp. Santa Monica, California. World-Wide Effects of Atomic Weapons. Project Sunshine. A. Kramish, ed. August 6, 1953. 105 pp.
- 362 RM-383
----- Radiological Dangers from A-Bomb Cloud. S. T. Cohen. May 10, 1950. 9 pp. (Secret-RD)
- 363 RM-1523 (RAND)
----- H-Bomb Effects for Air Defense. Part I. Nuclear Radiations. Harold L. Brode. August 1, 1955. 36 pp. (Secret)
- 364 SWC TN 56-3
Air Force Special Weapons Center, Kirtland AFB. New Mexico. Radiation Effects of Nuclear Weapons on Bulk Material. James L. Dick and Rulon E. Johnson. December 22, 1955. 14 pp. (Secret-RD)
- 365 TID-77
Oak Ridge Directed Operations Office. AEC. On the Incident of Cancer in Oak Ridge, Tennessee. July 2, 1948. 28 pp.
- 366 TID-5252
Army Inst. of Pathology. Washington, D. C. Statistical Analysis of the Medical Effects of the Atomic Bombs. (From the Report of the Joint Commission for the Investigation of the Effects of the Atomic Bomb in Japan). Ashley W. Oughterson, George V. LeRoy, Averill A. Liebow, E. Cuyler Hammond, Henry L. Barnett, Jack D. Rosenbaum, and B. Aubrey Schneider. April 19, 1951. 288 pp.
- 367 TID-5358
Naval Medical Research Inst. Bethesda, Maryland and Naval Radiological Defense Lab. San Francisco and Brookhaven National Lab. Upton, N. Y. Some Effects of Ionizing Radiation on Human Beings; A Report on the Marshallese and Americans Accidentally Exposed to Radiation from Fallout and a Discussion of Radiation Injury in the Human Being. E. P. Cronkite, V. P. Bond and C. L. Dunham. July 1956. 106 pp.
- 368 UCLA-22
California. University, Los Angeles. Tabulation of Available Data Relative to Radiation Biology. Andrew H. Dowdy. February 1, 1949. 48 pp.
- 369 UCLA-272
----- Atomic Energy Project. The Uptake of Radioactive Fission Products by Radishes and Ladino Clover from Soil Contaminated by Actual Subsurface Detonation Fall-Out Materials. Kermit H. Larson, Jon H. Olafson, James W. Neel, and Allen J. Steen. December 14, 1953. 35 pp.

- 370 UCLA-348
California. University, Los Angeles. Atomic Energy Project. Notions on Sensitivity of Cells to Radiation. Ole A. Schjeide, James F. Mead, and Lawrence S. Meyers, Jr. October 15, 1955. 19 pp.
- 371 UCLA-369
----- The Discrimination of Calcium and Strontium by the Kidney. N. S. MacDonald, P. Noyes, and P. C. Lorick. May 31, 1956. 23 pp.
- 372 UCLA-374
----- Effects of Calcium and Strontium on Plant Uptake of Sr⁹⁰ and Stable Strontium from Nutrient Solutions and Soils. E. M. Romney, G. V. Alexander, G. M. LeRoy, W. A. Rhoads, J. W. Neel, and K. H. Larson. July 15, 1956. 61 pp.
- 373 UCLA-426
----- The Relative Retention of Strontium and Calcium in Human Bone Tissue. George V. Alexander and R. E. Nusbaum. April 28, 1958. 23 pp.
- 374 UCRL-255
California. University, Berkeley. Radiation Laboratory. The Genetic Effects of Low Intensity Irradiation. Delta E. Uphoff and Curt Stern. December 15, 1948. 5 pp.
- 375 UCRL-812
----- Studies of the Metabolism of Certain Fission Products and Plutonium. Bergene Kawin, D. H. Copp, and J. G. Hamilton. August 7, 1950. 120 pp.
- 376 UCRL-3355
----- California Cattle Thyroid Activity Associated with Fallout, 1955. Margaret R. White and Ernest L. Dobson. March 28, 1956. 14 pp.
- 377 UCRL-3634
----- Metabolic Studies with Strontium-90 in the Rhesus Monkey. Preliminary Report. Patricia W. Durbin, Marshall W. Parrott, Marilyn H. Williams, Muriel E. Johnston, C. Willet Asling, and Joseph G. Hamilton. January 7, 1957. 26 pp.
- 378 UR-442
Rochester. New York University. Atomic Energy Project. Data Pertaining to Shortening of Life Span by Ionizing Radiation. H. A. Blair. April 30, 1956. 42 pp.
- 379 UR-492
----- Acceleration of Aging by Ionizing Radiation. George W. Casarett. May 22, 1957. 16 pp.

- 380 USNRDL-394
 Naval Radiological Defense Lab. San Francisco. The Ratio of Lung Beta Dose to Whole-Body Dose During Given Time Intervals After an Atomic Bomb Detonation. C. A. Sondhaus. December 31, 1952. 37 pp.
- 381 USNRDL-TR-77
 ----- Uptake, Distribution, and Retention of Fission Products in Tissues of Mice Exposed to a Simulant of Fallout from a Nuclear Detonation. I. Simulant of Fallout from a Detonation Under Seawater. S. H. Cohn, W. B. Lane, J. K. Gong, J. C. Sherwin, R. K. Fuller, L. L. Wiltshire, and W. L. Milne. December 5, 1955. 25 pp.
- 382 USNRDL-TR-86
 ----- and Naval Medical Research Inst. Bethesda, Md. Internal Radioactive Contamination of Human Beings Accidentally Exposed to Radioactive Fallout Material. S. H. Cohn, R. W. Rinehart, J. S. Robertson, J. K. Gong, W. L. Milne, W. H. Chapman, and V. P. Bond. May 9, 1956. 50 pp.
- 383 USNRDL-TR-89
 ----- The Effects of Combined Administration of Strontium-90 and External Radiation. S. H. Cohn and W. L. Milne. May 21, 1956. 24 pp.
- 384 USNRDL-TR-118
 ----- Radiotoxicity Resulting from Exposure to Fallout Simulant. II. Metabolism of an Inhaled and Ingested Simulant of Fallout Produced by a Land-Based Nuclear Detonation. S. H. Cohn, W. B. Lane, J. K. Gong, R. K. Fuller, and W. L. Milne. January 11, 1957. 24 pp.
- 385 USNRDL-TR-175
 ----- Studies on the Metabolism of Inhaled Aerosols of Strontium and Lanthanum. S. H. Cohn, W. B. Lane, J. K. Gong, L. Weisbecker, and W. L. Milne. May 27, 1957. 30 pp.
- 386 UWFL-18
 Washington. University, Seattle. Applied Fisheries Lab. Radiological Analysis of Biological Samples Collected at Eniwetok May 16, 1948. Lauren R. Donaldson, Allyn H. Seymour, and John R. Donaldson. nd 12 pp.
- 387 UWFL-31
 ----- The Relationship Between Ca⁴⁵, Total Calcium and Fission Product Radio-Activity in Plants of Portulaca Oleracea growing in the Vicinity of the Atom Bomb Test Sites on Eniwetok Atoll. O. Biddulph and Robert Cory. nd. 20 pp.
- 388 WRAIR-IS-55
 Walter Reed Army Medical Center. Inst. of Research, Washington, D.C. Recovery of Radioactive Iodine and Strontium from Human Urine - Operation Teapot. James B. Hartgering, et al. November 1955. 18 pp.
 (Secret-RD)

- 389 WT-616
Washington. University, Seattle. Applied Fisheries Lab. Radio-biological Studies at Eniwetok Before and After Mike Shot. Project 11.5 of Operation Ivy. Lauren R. Donaldson. June 1953. 106 pp. (Confidential)
- 390 WT-820
Division of Biology and Medicine. AEC. Genetic Effects of Fast Neutrons from Nuclear Detonations. H. H. Plough and C. W. Sheppard. January 1954. 66 pp.
- 391 WT-923
Naval Medical Research Inst. Bethesda, Md. Study of Response of Human Beings Accidentally Exposed to Significant Fallout Radiation. Final Report, Project 4.1 of Operation Castle. E. P. Cronkite. October 1954. 104 pp.
- 392 WT-937
----- Medical Examination of Rongelap People Six Months after Exposure to Fallout. Addendum Report 4.1A, Operation Castle, Pacific Proving Grounds, March-May 1954. V. P. Bond et al. April 1955. 46 pp.
- 393 WT-938
----- Exposure of Marshall Islanders and American Military Personnel to Fallout. Robert Sharp and William H. Chapman. March 1957. 48 pp. Project 4.1 (Addendum) of Operation Castle. (Official Use Only)
- 394 WT-1013
Scripps Institution of Oceanography. La Jolla, California. Effects of Nuclear Explosion on Marine Biology. Project 2.5 of Operation Wigwam. M. B. Schaefer, ed. August 1956. 144 pp. (Official Use Only)
- 395 WT-1163
Food and Drug Administration, Washington, D. C. and Federal Civil Defense Administration. Battle Creek, Mich. Effects of Nuclear Explosions on Bulk Food Staples. Sumner C. Rowe. March 1956. 38 pp.
- 396 WT-1172
California. University, Los Angeles. Atomic Energy Project. Evaluation of the Acute Inhalation Hazard from Radioactive Fall-Out Materials by Analysis of Results from Field Operations and Controlled Inhalation Studies in the Laboratory. Project 37.3 of Operation Teapot. G. V. Taplin, O. M. Meredith, Jr., and H. Kade. June 1957. 26 pp.
- 397 WT-1212
Food and Drug Administration. Washington, D. C. and Federal Civil Defense Administration. Battle Creek, Mich. Effects of Nuclear Explosions on Canned Foods. Carlos A. Greenleaf, James M. Reed, George O. Sampson, E. Rolland McConnell, and John M. Sharf. March 1956. 89 pp. Project 32.2 of Operation Teapot.

398 WT-1213

Food and Drug Administration. Washington, D. C. and Federal Civil Defense Administration. Battle Creek, Mich. The Effect of Nuclear Explosions on Commercially Packaged Beverages. Project 32.2a of Operation Teapot. E. Rolland McConnell, George O. Sampson, and John M. Sharf. March 1956. 18 pp.

399 WT-1214

----- and ----- The Effect of Nuclear Explosions on Semi-Perishable Foods and Food Packaging. Project 32.4 of Operation Teapot. Robert E. Hardenburg and A. Lloyd Ryall. February 1956. 59 pp.

400 WT-1216

----- and ----- The Effect of Nuclear Explosions on Meat and Meat Products. Project 32.3 of Operation Teapot. Robert H. Philbeck and Delbert M. Doty. April 1956. 41 pp.

401 California. University, Berkeley. Inst. of Engineering Research. External Radiation; The Relationship of Acute and Delayed Effects and a Suggested Method of Treatment. Crawford F. Sams. August 30, 1957. 211 pp.

402 ----- Recommended Experiment to Determine the Relationship of Acute and Delayed Effects of External Radiation, and the Suggested Method of Treatment. Pt. I. Crawford F. Sams. and Pt. II. Statistical Study and Design of the Experiment. Jean Pierre Imhof. August 30, 1957. 34 pp.

4. Decontamination and Protective Procedures

- 403 AECD-4096
Industrial Hygiene Foundation of America, Inc. Pittsburgh.
Measurement and Control of Radioactive Particulate Contamination.
Summary Report. Theodore F. Hatch. nd. 22 pp.
- 404 CRLR-402
Stanford Research Inst. Menlo Park, California. A Guide to Radiological Warfare Counter-Measures. Francis R. Holden, Ilia G. Poppoff, Richard D. Cadle, and Luman F. Ney. June 1954. 269 pp. (Secret)
- 405 NRL-5017
Naval Research Lab. Washington, D. C. Radiation Protection Afforded by Barracks and Underground Shelters. C. W. Malich and L. A. Beach. August 22, 1957. 48 pp.
- 406 NYO-1571
Massachusetts Inst. of Technology. Cambridge. Sedgwick Labs. of Sanitary Science. The Removal of Radioactive Anions by Water Treatment. Warren J. Kaufman, John B. Nesbitt, Morton I. Goldman, and Rolf Eliassen. September 20, 1951. 143 pp.
- 407 NYO-4441
----- The Removal of Radioactive Fall-Out from Water by Municipal and Industrial Water Treatment Plants. Robert A. Lauderdale and Rolf Eliassen. March 1, 1956. 79 pp.
- 408 NYO-4682-A
New York Operations Office. Health and Safety Lab. AEC. Fallout Countermeasures for AEC Facilities. Preliminary Report. Alfred J. Breslin and Leonard R. Solon. December 1955. 66 pp.
- 409 NYO-4714
----- Radiation Protection Within a Standard Housing Structure. Robert T. Graveson. November 1956. 13 pp.
- 410 SWC TN-55-8
Special Weapons Center. Kirtland AFB. New Mexico. Passive Defense Measures Applicable to Kirtland Air Force Base Against Fall-Out From Nuclear Detonation. J. W. Lane. March 30, 1955. 37 pp.
- 411 UCLA-113
California. University, Los Angeles. Recommendations for Civil Defense Relative to Radiological Safety. Andrew H. Dowdy. February 15, 1951. 57 pp.
- 412 UCLA-293
----- Atomic Energy Project. Strontium and Calcium in Municipal Water Supplies. Their Occurrence and Removal. George V. Alexander, Ralph E. Nusbaum, Norman S. MacDonald. May 20, 1954. 27 pp.

413 WT-425

Los Alamos Scientific Lab. Los Alamos, New Mexico. Radiological Safety. Operation Buster-Jangle. Thomas L. Shipman. July 1953.
64 pp. (Secret-RD)

414 U. S. Atomic Energy Commission. Washington, D. C. Standards for Protection Against Radiation and Accompanying AEC New Release.
January 25, 1957. 37 pp.

B. Natural Radioactivity

- 415 AEC-tr-3054
Content of Natural Radioactive Substances in the Atmosphere and in Natural Waters in the Territory of the U.S.S.R. E. K. Fedorov and V. I. Baranov, eds. Trans. from Akademiia Nauk S.S.S.R. report, 1956. 23 pp.
- 416 AECU-1138
Brookhaven National Laboratory. Upton, N. Y. Quantitative Summary of Natural Radiation and Naturally Occurring Isotopes. Frederick P. Cowan. January 4, 1951. 15 pp.
- 417 AMRL-109
Army Medical Research Laboratory. Fort Knox. The Radioactivity of the Normal Human Body, A Contribution to the Present Situation. A. T. Krebs. January 12, 1953. 14 pp.
- 418 HASL-25
New York Operations Office. Health and Safety Lab. AEC. External Environmental Radiation Measurements in the United States. L. R. Solon, W. M. Lowder, A. V. Zida, H. D. LeVine, H. Blatz, and M. Eisenbud. March 11, 1958. 35 pp.
- 419 HASL-27
----- Some Variable Contributors to Natural Background.
Keran O'Brien. March 31, 1958. 8 pp.
- 420 LP-176
Massachusetts Institute of Technology. Cambridge. Lexington Project. Dosage Due to Cosmic Radiation. B. T. Feld. September 15, 1948. 2 pp.
- 421 NARF-55-34T (Rev. A)
Consolidated Vultee Aircraft Corp. Fort Worth, Texas. Preliminary Evaluation of Environmental Radioactivity in the NTA Test Area and Flight Corridor. R. F. Shockley. January 15, 1956. 37 pp.
- 422 NRL-4036
Naval Research Lab. Washington, D. C. On the Natural Radioactivity in the Air. Irving H. Blifford, Luther B. Lockhart, Jr. and Herbert B. Rosenstock. September 16, 1952. 11 pp.
- 423 TID-388 (paper 5)
Brookhaven National Lab. Upton, N. Y. Quantitative Summary of Natural, X-Ray and Other Common Radiation Levels, paper 5 of Health Physics Insurance Seminar. February 6-10, 1950. F. P. Cowan. March 12, 1951. 6 pp.

424 UCLA-75

California. University, Los Angeles. Methods and Background Values for Beta-Gamma Radioactivity in Some Plants from New Mexico and California. David B. Dunn, Margaret R. Lewis, and Sydney H. Gordon. June 9, 1950. 23 pp.

425 UCLA-78

----- Method and Background Values for Beta-Gamma Radioactivity in Some Plants from New Mexico and California. David B. Dunn, Margaret R. Lewis, and Sydney H. Gordon. June 9, 1950. 25 pp.

426 UR-119

Rochester, New York. University. The Radium Content of the Body for Individuals with No Known Occupational Exposure. John B. Hursh and Allan A. Gates. May 18, 1950. 39 pp.

C. Tolerance to Radiation

- 427 AECD-2906
Hanford Works. Richland, Washington. Tolerable Concentration of Product in Drinking Water. H. M. Parker. August 4, 1945. 2 pp.
- 428 AECU-2170
Long Island Biological Assn. Biological Lab. Cold Spring Harbor, N. Y. The Estimation of Adaptive Values of Experimental Populations. Bruce Wallace. February 1, 1952. 21 pp.
- 429 AECU-2332
Oak Ridge National Lab. Tennessee. External and Internal Exposure to Ionizing Radiation and Maximum Permissible Concentration (MPC) of Radioactive Contamination in Air and Water Following an Atomic Explosion. K. Z. Morgan and C. P. Straub. April 4, 1952. 17 pp.
- 430 AERE-HP/M-3
Great Britain Atomic Energy Research Establishment. Harwell, Berks, England. Maximum Permissible Concentrations of Fission Products in Air and Water. A. C. Chamberlain. March 1949. 13 pp.
(Official Use Only)
- 431 AERE-HP/M-23
----- Emergency Tolerance for Fission Products in Drinking Water. A. C. Chamberlain. March 14, 1951. 5 pp. (Official Use Only)
- 432 AERE-HP/R-551
----- Estimation of Maximum Permissible Levels of Radiation. A. C. Chamberlain. August 1950. 52 pp.
- 433 AFSWC-TN-56-2
Air Force Special Weapons Center. Kirtland AFB. New Mexico. Safe Levels of Contamination from Fission Products. James L. Dick, William R. Hurdlow, and Ellen M. Hippeli. April 27, 1956. 29 pp.
- 434 CRLIR-64
Chemical and Radiological Lab. Army Chemical Center, Md. Maximum Allowable Concentrations of Fission Products in the Air as a Function of Exposure Time and Time After Detonation. Robert L. Harvey. November 9, 1951. 17 pp.
- 435 CRLIR-81
----- (Continued) Robert L. Harvey. January 16, 1952. 11 pp.
- 436 FWE-107
Great Britain Atomic Weapons Research Establishment, Aldermasten, Berks, England. and Technical Cooperation Program, AEC. Safety Levels for Contamination from Fall-Out from Atomic Weapon Trials. G. C. Dale. October 1955. 21 pp.

- 437 HASL-3
New York Operations Office. Health and Safety Lab. AEC. Beta and Gamma Dose Rates from Terrestrially Distributed Sources. Keran O'Brien, Wayne M. Lowder, and Leonard R. Solon. October 28, 1957. 16 pp.
- 438 NP-3546
Naval Medical Research Inst. Bethesda, Md. Permissible Dosage and Considerations of Calculated Risk C. F. Behrens. July 2, 1951. 21 pp.
- 439 NP-3972
Great Britain Atomic Energy Research Establishment. Harwell, Berks, England. The Evaluation of Tolerance Levels. G. J. Neary. 9 pp. (OUO)
- 440 RH-1
Atomic Energy Commission, Washington, D. C. Permissible Levels of Radiation. M. S. Fair. Chap. 2.2 of The Reactor Handbook. Vol. 1 Physics. J. F. Hogerton and R. C. Grass, eds. June 1953. 8 pp.
- 441 RM-10
National Research Council of Canada. Atomic Energy Project. Chalk River, Ontario. Minutes of the Permissible Doses Conference Held at Chalk River, Canada. September 29-30, 1949. 19 pp. (Official Use Only)
- 442 RM-14
----- Permissible Doses Conference Held at Chalk River, Ontario, September 1949. May 1950. 24 pp. (Confidential)
- 443 RM-658 (RAND)
Rand Corp. Santa Monica, California. Radiological Warfare: Handbook of Urban-Industrial Dosage Rates. W. A. Barton and R. A. Engvall. October 1, 1950. 142 pp. (Secret)
- 444 RM-1285-1 (RAND)
----- Effects of Environment in Reducing Dose Rates Produced by Radioactive Fallout From Nuclear Explosions. J. E. Hill. September 28, 1954. 10 pp.
- 445 SC-4073
Sandia Corp. Albuquerque, New Mexico. Estimating Safety Probabilities from Fallout Forecasts for Nevada Test Site. Jack W. Reed. February 1957. 23 pp.
- 446 UR-135
Rochester, New York. University. Atomic Energy Project. Problems in the Establishment of Maximum Permissible Radiation Exposure Levels. J. N. Stannard. December 1950. 2 pp.
- 447 USNRDL-TR-182
Naval Radiological Defense Lab. San Francisco. A Study of Maximum Permissible Concentrations of Radioactive Fallout in Water and Air Based Upon Military Exposure Criteria. J. D. Teresi and C. L. Newcombe. August 27, 1957. 136 pp.

IV. AUTHOR INDEX

-A-

Abelson, P. H.	18
Abrams, Richard	326
Adams, C. E.	265
Aeberhardt, A.	108
Aler, Bo	171
Alexander, George V.	233, 372, 373, 412
Allen, Philip W.	267
Anderson, C. E.	166
Anderson, Ernest C.	144, 149
Andrews, H. L.	216
Asling, C. Willet	377
Asset, Gabrielle	116
Axelrod, Dorothy	294
Axford, S. J.	318

- B -

Baietti, A. L.	292
Ballou, N. E.	62, 246
Baranov, V. I. (ed.)	415
Barnett, Henry L.	332, 333, 334, 335, 336, 337, 366
Barnes, D. W. H.	319
Barton, W. A.	443
Baurmash, L.	224, 237
Baus, R. A.	176, 178, 179, 180, 182
Beach, L. A.	350, 405
Beadle, George W.	297
Begemann, F.	96
Behrens, C. F.	438
Bell, Carlos G. Jr.	194, 191
Berger, Martin J.	155
Bergh, H.	135, 136, 137, 138, 139, 140
Berlin, Nathaniel I.	314

Berlman, I. B.	100
Bernstein, Lionel M.	315
Bick, James H.	117
Biddulph, Orlin	296, 387
Biddulph, Susann F.	296
Bigger, M. M.	283
Bird, James M.	302
Black, R. H.	283
Blair, H. A.	378
Blatz, H.	418
Bledsoe, W. W.	219
Blifford, I. H. Jr.	22, 175, 176, 177, 178, 179, 180, 181, 182, 422
Boche, R. V.	5
Bomyer, Janette C.	105
Bond, V. P.	282, 367, 382, 392
Booker, D. V.	81, 88
Borg, D. C.	99
Boulenger, R.	167, 168
Brauer, R. W.	348
Brecher, W. G.	20
Breslin, Alfred J.	408
Brode, Harold L.	363
Brooksbank, W. A. Jr.	201
Brown, I. C.	273
Brown, L. M.	15
Brues, A. M.	11
Bryant, F. F.	81
Bryant, F. J.	82, 87, 88, 89
Buell, C. E.	218
Bunney, L. R.	62, 246
Burdon, K. L.	21
Butts, R. F.	237

Cadle, Richard D.	404
Calder, K. L.	109

Cannon, Bradford	317
Cantril, S. T.	14
Carmichael, Hugh	113, 115
Carter, Robert E.	323, 324
Casarett, George W.	379
Caspari, Ernst	328
Cassidy, M. E.	185
Chace, M. J.	294
Chadwick, R. C.	81, 83
Chamberlain, A. C.	81, 82, 87, 88, 89, 92, 430, 431, 432
Chapman, W. H.	282, 382, 393
Cherubin, L. J.	322
Clark, H. M.	190
Claypool, H. A.	321
Cline, J. F.	128, 130
Cohen, S. T.	205, 362
Cohn, S. H.	250, 282, 349, 381, 382, 383, 384, 385
Cole, R.	244, 248
Collins, William R. Jr.	198
Conard, R. A.	317
Cook, C. S.	173, 247
Copp, D. H.	294, 375
Coroniti, Samuel C.	160
Cory, Robert	387
Cowan, Frederick P.	45, 220, 299, 416, 423
Cowan, Maynard Jr.	133, 217
Cowper, G.	115
Cox, Earl J.	148
Cramer, H. E.	164
Crew, R. J.	283
Cronkite, E. P.	20, 367, 391
Crooks, R. N.	85, 86, 90
Cupp, M. B.	295
Cuthbertson, E. M.	294

-D-

Dale, G. C.	104, 105, 436
David, L. R.	31, 32
Davidson, Harold O. Jr.	359
Davis, F. J.	202
Dick, James L.	364, 433
DiMaggio, Frank L.	314
Dishington, R. H.	211
Dobson, Ernest L.	376
Dodd, Aubrey O.	151
Doggett, John A.	155
Donaldson, John R.	261, 386
Donaldson, Lauren R.	257, 260, 386, 389
Doty, Delbert M.	400
Dowdy, Andrew H.	368, 411
Duncan, J. F.	77
Dunham, C. L.	367
Dunn, David B.	424, 425
Dunn, W. F.	223
Dunning, Gordon M.	59, 289
Durbin, Patricia W.	377
Durham, H. B.	75

-E-

Edvarson, K.	170
Ehrler, William L.	232, 235
Ehrlich, H. L.	190
Eisenbud, Merrill	26, 27, 28, 51, 197, 290, 291, 418
Eliassen, Rolf	187, 406, 407
Emmons, A. H.	201
Engvall, R. A.	443
Eugster, Jakob A. G.	360
Ezmirlian, Florita	231

-F-

Farabee, Larrence B.	299
Farlow, N. H.	254
Farnum, Williams	116
Fedorov, E. K. (ed.)	415
Fillmore, Paul G.	351
Finkle, Miriam P.	110, 327
Finstad, G.	135, 136, 137, 138, 139, 140
Fisher, E. M.	85, 86, 90
Fitzgerald, J. J.	134
Folsom, Theodore R.	284
Francis, Eugene	315
French, Frederic A.	285
Fresco, James	195
Frick, R. H.	209
Friedman, Herbert	176, 179, 182
Fuller, R. K.	381, 384
Fuquay, J. J.	131, 132
Furchner, John E.	303
Furman, A. W.	24

-G-

Gale, D. I.	350
Gamertsfelder, C. C.	101
Gates, Allan A.	426
Gates, L. D.	98
Gerstner, Herbert B.	313
Gill, G. C.	164
Gillooly, B.	223, 226
Glass, Samuel (ed.)	54
Glueckauf, E.	91
Godby, E. A.	115
Godeau, C.	169
Goldman, Morton I.	406
Goldstein, J. D.	321

Gong, J. K.	250, 282, 381, 382, 384, 385
Gordon, Sydney H.	223, 424, 425
Gost, J. W.	201
Grass, R. C. (ed.)	440
Graveson, R. T.	185, 283, 288, 409
Greenberg, D. M.	294
Greenfield, S. M.	206, 210, 212, 214, 215
Greenleaf, Carlos A.	397
Gross, Warren J.	227
Grossman, B. (ed.)	94
Guliakin, I. V.	310

-H-

Hallden, Naomi A.	198
Hamada, Michinori	355
Hamilton, Joseph G.	294, 375, 377
Hammond, Carolyn W.	312
Hammond, E. Cuyler	332, 333, 334, 335, 336, 337, 366
Hamner, Karl C.	232, 235
Hardenburg, Robert E.	399
Harding, Richard S.	315
Hardy, Edward P. Jr.	51, 195, 197
Harley, John H.	50, 51, 197, 290, 26, 27, 28
Hartgering, James B.	388
Harvey, Robert L.	434, 435
Hatch, Theodore F.	403
Hawkins, M. B.	283
Healy, J. W.	121, 122
Heidt, W. B. Jr.	275
Heiman, W. J.	244, 245, 248
Heininger, Clarence	186
Held, Edward E.	257, 260, 261, 263
Henickaman, A. L.	148
Henshaw, P. S.	11
Herrlander, Carl Johan	171

Hess, V. F.	63
Heydern, K.	172
Hewson, Wendell	164
Hicks, E. P.	120
Hicks, Samuel P.	300, 309
Hilcken, John A.	59
Hill, J. E.	444
Hines, Neal O.	260
Hippeli, Ellen M.	433
Hoard, A. G.	26, 27, 28
Hoffman, J. G.	141, 145
Hogerton, J. F.	440
Holden, Francis, R.	292, 404
Holt, B. E. M.	77
Horton, J. Henry Jr.	118
Howell, J. E.	283
Howland, Joe W.	329
Huggins, C. E.	317
Humbert, Roger P.	162
Hurdlow, William R.	433
Hursh, John B.	426
Hurst, W. M.	203
Hyde, W. Lewis	199

-I-

Imhof, Jean Pierre	402
Imirie, George W. Jr.	286
Ishii, Masayuki	353
Iudintseva, E. V.	310

-J-

Jack, Jean A.	93
Jacobson, Louis	152
James, A. P.	318
Johns, Charles Glenn	307
Johnson, K. D. B.	77
Johnson, Rulon E.	364
Johnson, R. F.	247
Johnson, William S.	46, 142
Johnston, Muriel E.	377
Johnston, Richard W.	287

-K-

Kade, H.	396
Kastenbaum, Marvin A.	353
Kaufman, Warren J.	187, 406
Kawahara, F. K	283
Kawamoto, Sadahisa	355
Kawin, Bergene	375
Kehrer, W. S.	283
Kelleher, W. J.	190
Kellogg, W. W.	70
Kendall, R. A.	104
Kennedy, W. R.	224, 225, 230
Kikuchi, Takehiko	346, 347
Kilcawley, E. J.	190
King, Peter	176
Klechkovsky, V. M. (ed.)	65
Kleinschmidt, R. Stevens	191
Knobf, Venus I.	358
Knowlton, Norman P. Jr.	298, 323
Koval, George	153
Kowalewsky, Bruce W.	228, 234

Kramish, A. (ed.)	361
Krascella, N. L.	190
Krebs, A. T.	303, 417, 4
Krey, P. W.	281
Krieger, F. J.	52
Krzywicki, Harry J.	315
Kuprianoff, J.	293
Kurchatov, V. V. (ed.)	66
Kuper, J. B. H.	221

-L-

Lai, J. R.	252
Lane, J. W.	410
Lane, W. B.	283, 381, 384, 385
Lange, Arthur H.	232
Langham, Wright H.	144
Larson, K. H.	223, 226, 228, 229, 234, 236, 238, 239, 278, 369, 372
Lauderdale, R. A.	407
Lee, Hong	283
Lee, Joshua A.	227
LeRoy, G. M.	372
LeRoy, George V.	332, 333, 334, 335, 336, 337, 366
LeVine, H. D.	185, 288, 418
Levy, G. S.	115
Levy, Lester M.	315
Lewis, Margaret R.	424, 425
Libby, Willard F.	56, 57, 58, 264, 4
Liebow, Averill A.	332, 333, 334, 335, 336, 337, 366
Lindberg, R. G.	278
Lippert, J.	172
List, Robert J.	193, 196, 33
Lockhart, Luther B. Jr.	176, 178, 179, 180, 182, 422
Lohr, William	326
Long, W. G.	304, 305
Lorick, P. C.	371

Loutit, J. F.	319
Love, Robert A.	299
Lowder, W. M.	418, 437, 25
Lowery, Austin	317
Lowman, Frank G.	260, 261
Lulejian, N. M.	44, 102, 103
Lund, L.	135, 136, 137, 138, 139, 140
Lundie, A.	3
Lynch, D. E.	183

-M-

Machta, Lester	222
McClelland, Jean	142
McConnell, E. Rolland	397, 398
MacDonald, N. S.	231, 233, 371, 412
McDonnel, G. M.	321
McGary, Virginia E.	315
McKay, H. A. C.	77
McKendrick, J. C.	104
Malich, C. W.	350, 405
Malik, J. S.	143, 274
Marciano, J. J.	156
Martell, E. A.	68, 69
Martin, R. P.	311
Masashi, Miyake	341
Mather, R. L.	247
Maton, W. R. E.	77
Maxwell, Charles R.	270
Maxwell, Roy D.	43
Mead, James F.	370
Meredith, O. M. Jr.	396
Merritt, W. F.	114
Meyers, Lawrence S. Jr.	370
Michelsen, O.	135, 136, 137, 138, 139, 140
Miles, Edwin F.	162

Miller, C. F.	244, 248
Miller, C. Philip	312
Milne, W. L.	282, 349, 381, 382, 383, 384, 385
Miranda, H. A.	63
Modigliani, Franco	330
Mole, R. H.	319
Moncrief, W. H.	321
Morgan, A.	81, 87, 88, 89
Morgan, K. Z.	53, 429
Morowitz, H. J.	15
Morton, R. J.	200
Mukai, Tonami	353
Murphy, R. E.	216
Musil, Albina F.	338

-N-

Nagler, Kenneth M.	222
Neary, G. J.	439
Neel, J. W.	223, 226, 237, 369, 372
Nesbitt, John B.	406
Newcombe, C. L.	447
Newcombe, H. B.	318
Ney, Luman F.	404
Nishita, H.	226, 228, 234, 236, 238, 239
Nishiyama, Shinsei	347
Noyes, P.	371
Nusbaum, R. E.	233, 373, 412
Nuss, Jean	315

-O-

O'Brien, Keran	419, 437
Okubo, Tadatsugu	347
Olafson, J. H.	223, 226, 239, 369
Olson, Paul R.	257, 260
Osmond, R. G.	78, 79, 90

Ottar, B.	135, 136, 137, 138, 139, 140
Overstreet, Roy	152
Oughterson, A. W.	332, 333, 334, 335, 336, 337, 366

-P-

Palmer, R. F.	320
Parker, Frank L.	191
Parker, H. G.	241
Parker, H. M.	14, 124, 427
Parker, W. E.	95
Parkinson, W. D.	63
Parrott, M. W.	377
Pasquill, F.	204
Patterson, R. L. Jr.	176, 178
Pease, J. S.	208
Pease, R. L.	208
Penny, W. G.	120
Perrings, J. D.	144
Philbeck, Robert H.	400
Phillips, P. H.	301
Pike, E. W. A.	77
Placak, O. R.	200
Plesset, E. H.	205
Plough, H. H.	390
Pooler, Francis, Jr.	222
Poppendiek, H. F.	165
Poppoff, I. G.	272, 404
Postel, Sholen	326
Potts, A. M.	326
Pratchett, A. G.	78, 79

-R-

Rainey, C. R.	277
Rapp, R. R.	71, 212, 213, 214
Record, F. A.	164
Rediske, J. H.	127, 128, 130, 320
Reed, Jack W.	445
Reed, James M.	397
Reines, Frederick	146, 147, 325
Reynolds, E. L.	356
Reynolds, S. A.	201
Rhoads, W. A.	229, 278, 372
Richards, J. B.	317
Rinehart, R. W.	282, 382
Robbins, Charles	271
Robertson, J. S.	282, 382
Robinson, R. F.	19
Romney, E. M.	229, 235, 372
Rosenbaum, Jack D.	332, 333, 334, 335, 336, 337, 366
Rosenstock, H. B.	181, 422
Rosinski, Jan	73
Rosinski, John	72, 76
Rounds, D. E.	231
Rowe, S. C.	395
Rubin, B. A.	7
Rundo, J.	84
Russell, R. Scott	311
Ryall, A. Lloyd	399
Ryan, Stella	116

-S-

Sachs, F. L.	13, 36, 37, 38, 39
Sampson, George O.	397, 398
Sams, Crawford F.	401, 402
Sanders, Phyllis	324
Sartor, J. D.	283
Scanlan, James T.	278
Schaefer, Hermann J.	157, 158, 159, 331, 339
Schaefer, M. B. (ed.)	394
Schell, W. R.	254
Schjeide, Ole A.	370
Schnap, Bert F.	148
Schneider, B. Aubrey	332, 333, 334, 335, 336, 337, 366
Schnider, R. W.	249
Schuch, Robert L.	144
Schultze, H. E.	190
Seibert, Henri C.	326
Selders, A. A.	126, 127, 128, 130, 320
Sellars, Jacqueline H.	315
Sette, W. A.	34
Seymour, Allyn H.	260, 261, 386
Shannon, R. L.	29, 30
Sharf, John M.	397, 398
Sharp, Robert	286, 393
Shelton, A. Vay	242, 243
Sheppard, C. W.	390
Sherman, Leon	150
Sherwin, J. C.	381
Shipman, Margaret E.	315
Shipman, Thomas L.	413
Shipman, W. H.	250, 252
Shirabe, Raisuke	352
Shnider, R. W.	174
Shockley, R. F.	421

Simi, Oliver	148
Singlevich, W.	125
Skillern, Clarence P.	142
Smith, Maynard E.	107
Solon, Leonard R.	25, 408, 418, 437
Sondhaus, C. A.	380
Soule, R. R.	283
South, Dorothy J.	261
Spain, Patricia C.	231
Sparrow, A. H.	7
Spicer, G. S.	82, 87, 88, 89
Squire, H. M.	311
Stafford, G. H.	80
Stannard, J. N.	446
Steen, Allen J.	226, 236, 369
Stehney, A. F.	100
Steljes, J. F.	113, 115
Stephens, S. V.	5
Stern, Curt	328, 374
Steton, R. L.	279
Stewart, N. G.	85, 86, 90
Storebo, P. B.	170
Storer, John B.	4, 303
Strang, Verda	324
Straub, C. P.	429
Strebe, Frank C.	225, 230
Streit, G.	224
Stuhlinger, Ernst	158
Sutow, Wataru W.	353, 354, 355, 357

-T-

Tait, G. W. C.	111, 114
Taliaferro, L. G.	10
Taliaferro, W. H.	10
Taplin, G. V.	396
Taylor, Janice F.	227
Teresi, J. D.	447
Teubner, F. G.	304
Theodorsson, P.	172
Thirring, Hans	161
Thomas, C. W.	129
Thomas, Harold A. Jr.	191
Thompson, W. E.	251
Tomnovec, F. M.	247
Tompkins, Robert C.	281
Toole, Eben H.	162
Toole, Vivian K.	162
Tribby, James F.	148
Turner, L. D.	121, 122, 123
Tukey, H. B.	304, 305
Turkevich, John	186

-U-

Uphoff, Delta E.	374
------------------	-----

-V-

Van Middlesworth, L.	294
Van Zandt, T. E.	74
Vehrencamp, J. E.	165
Vine, Allyn C.	192
Vine, F. S.	283

-W-

Wakisaka, Gyoichi	346
Wallace, Bruce	428
Walton, G. N.	77
Warren, Stafford L.	329
Warricker, J. B.	78, 79
Waterfield, R. L.	101
Waters, P. A.	212
Watson, James C.	227, 278
Weaver, John A.	117
Webb, L. A.	247
Weisbecker, L.	385
Weiss, H. V.	250
Weiss, Max M.	106, 221
Welandar, Arthur D.	260, 262
Welford, George A.	51
Wheler, A. Gordon Jr.	187
Whetsel, H. B.	12
White, Margaret R.	240, 376
Whitney, Ira B.	51, 197
Williams, Marilyn H.	377
Williamson, W. Jr.	253
Wilsey, Edward F.	280
Wilson, W. W.	148
Wiltshire, L. L.	381
Wittwer, S. H.	304, 305
Worman, Frederick C. V.	324

-Y-

Yamori, Takeo	340
Yih, C. S.	163

-Z-

Zila, A. V.	418
-------------	-----

ACKNOWLEDGMENTS

The author is indebted to Janet Phillips of the Technical Information Division for her able assistance with this report.

This work was performed under the auspices of the U. S. Atomic Energy Commission.

This report was prepared as an account of Government sponsored work. Neither the United States, nor the Commission, nor any person acting on behalf of the Commission:

- A. Makes any warranty or representation, express or implied, with respect to the accuracy, completeness, or usefulness of the information contained in this report, or that the use of any information, apparatus, method, or process disclosed in this report may not infringe privately owned rights; or
- B. Assumes any liabilities with respect to the use of, or for damages resulting from the use of any information, apparatus, method, or process disclosed in this report.

As used in the above, "person acting on behalf of the Commission" includes any employee or contractor of the Commission to the extent that such employee or contractor prepares, handles or distributes, or provides access to, any information pursuant to his employment or contract with the Commission.

