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RADIOACTIVE FALLOUT

A Literature Search

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RADIOACTIVE FALLOUT

Introduction

This literature search was compiled to fill a specific request. It is being issued in report form because of the general interest in its subject.

Included are 514 references on dispersal and fallout of radioactive debris from nuclear explosions. It supplements the bibliography cited in the 1957 Congressional Fallout Hearings.

The references are divided into three parts: AEC reports, non-AEC reports, and published articles. Report references are arranged alphabetically by corporate author and alphanumerically by report number. Published references are arranged alphabetically by title.

The reports referenced in the first part (AEC reports) can be examined at the AEC depository libraries listed in each issue of Nuclear Science Abstracts. They can also be purchased from the Office of Technical Services (OTS), Department of Commerce, Washington 25, D. C. A full size printed copy is available for the reports having a single price listed; other reports are available as photostat (ph) or microfilm (mf) copies. If no price is shown, a quotation may be obtained by writing OTS. In addition, microcopies of these reports may be available. Requests concerning the purchase of unclassified AEC reports in this form should be directed to the following organizations:

Microcard Foundation
P. O. Box 2145
Madison 5, Wisconsin

Readex Microprint Corporation
100 Fifth Avenue
New York 11, New York

A few of the non-AEC reports are available either from OTS (see above), from the British Information Service (BIS), 45 Rockefeller Plaza, New York, N. Y., or from the Scientific Document Distribution Office, Atomic Energy of Canada Limited (AECL), Chalk River, Ontario, Canada, but information concerning the availability of non-AEC reports generally will have to be sought from the issuing agencies.

Journals are cited for each of the published references.

AEC Reports

Argonne National Lab., Lemont, Ill.

THE INFLUENCE OF STRONTIUM-90 UPON LIFE SPAN AND NEOPLASMS OF MICE. Miriam P. Finkel, Birute O. Biskis, and Gertrude M. Scribner. 11p. (A/CONF.15/P/911)
(UNCLASSIFIED) \$0.50(OTS).

Argonne National Lab., Lemont, Ill.

RADIOLOGICAL PHYSICS DIVISION SEMIANNUAL REPORT FOR JULY THROUGH DECEMBER 1957. Feb. 1958. 230p. (ANL-5829) UNCLASSIFIED \$5.50(OTS).

RADIOLOGICAL PHYSICS DIVISION SEMIANNUAL REPORT FOR JANUARY THROUGH JUNE 1958. Sept. 1958. 143p. (ANL-5919) UNCLASSIFIED \$2.75(OTS).

ON THE STRATOSPHERIC Sr⁹⁰ FALLOUT. P. K. Kuroda. Oct. 1958. 40p. (ANL-5920) UNCLASSIFIED \$1.25(OTS).

ENVIRONMENTAL RADIOACTIVITY AT ARGONNE NATIONAL LABORATORY. Report for Year 1957. J. Sedlet. Oct. 1958. 42p. (ANL-5934) UNCLASSIFIED \$1.25(OTS).

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A LIST OF REFERENCES ON CESIUM-137. United States Reports, Articles and Speeches. 1958. 4p. (WASH-1004) UNCLASSIFIED.

A SELECTED LIST OF REFERENCES ON RADIOACTIVE FALLOUT. Alfred W. Klement, Jr., comp. Feb. 14, 1958. 8p. (WASH-1005) UNCLASSIFIED.

Brookhaven National Lab., Upton, N. Y.

EXPOSURE CRITERIA FOR ESTIMATING THE CONSEQUENCES OF A CATASTROPHE IN A NUCLEAR PLANT. J. B. H. Kuper and F. P. Cowan. 12p. (A/CONF.15/P/430) UNCLASSIFIED \$0.50(OTS).

QUARTERLY PROGRESS REPORT FOR JULY 1 - SEPTEMBER 30, 1957. 56p. (BNL-473) UNCLASSIFIED \$1.75(OTS).

THE DISTRIBUTION OF FALLOUT ACTIVITY IN RAINFALL AT BROOKHAVEN NATIONAL LABORATORY, JUNE TO SEPTEMBER 1957. F. P. Cowan and J. Steimers. Mar. 1958. 9p. (BNL-496) UNCLASSIFIED \$0.50(OTS).

THE ACCUMULATION OF RADIOACTIVE FALLOUT ON TYPICAL MATERIALS OF CONSTRUCTION. F. P. Cowan. Mar. 1958. 10p. (BNL-497) UNCLASSIFIED \$0.50(OTS).

MARCH 1957 MEDICAL SURVEY OF RONGELAP AND UTIRIK PEOPLE THREE YEARS AFTER EXPOSURE TO RADIOACTIVE FALLOUT. Robert A. Conard, Leo M. Meyer, J. Edward Rall, Austin Lowery, Sven A. Bach, Branford Cannon, Edwin L. Carter, Maynard Eicher, and Hyman Hechter. June 1958. 29p. (BNL-501) UNCLASSIFIED \$1.00(OTS).

FALLOUT, CIVIL DEFENSE AND EFFECTS OF RADIATION ON MAN. Eugene P. Cronkite. June 5, 1957. 10p. (BNL-3244) UNCLASSIFIED.

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ATOMIC BOMB FALLOUT AND ITS IMPLICATIONS. Victor P. Bond. Nov. 5, 1957. 13p.
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STRONTIUM 90 - BIBLIOGRAPHY. M. Comstock. Dec. 31, 1957. 10p. (M-6472)
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California. Univ., Berkeley. Crocker Lab. and California. Univ., Berkeley.
Donner Lab.

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Patricia Durbin and Hardin Jones. 4p. (A/CONF.15/P/887; UCRL-8083)
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Patricia W. Durbin, Marshall W. Parrott, Marilyn H. Williams, Muriel E.
Johnston, C. Willet Asling, and Joseph G. Hamilton. Jan. 7, 1957. 26p.
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HUMAN AND CATTLE THYROID RADIOACTIVITY ASSOCIATED WITH FALLOUT: OCTOBER 1955
TO OCTOBER 1956. Margaret R. White. Mar. 1, 1957. 15p. (UCRL-3703)
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FALLOUT AND NATURAL BACKGROUND IN THE SAN FRANCISCO BAY AREA. H. Wade
Patterson, Alan R. Smith, and Lloyd D. Stephens. Aug. 4, 1958. 17p.
(UCRL-8401) UNCLASSIFIED \$0.75(OTS).

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QUARTERLY PROGRESS REPORT FOR PERIOD ENDING JUNE 30, 1951. July 2, 1951. Decl.
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Decl. with deletions Mar. 7, 1957. 71p. (UCLA-195(Del.)) UNCLASSIFIED
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Decl. Mar. 19, 1957. 80p. (UCLA-206) UNCLASSIFIED \$12.30(ph OTS); \$4.50(mf OTS)

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SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD ENDING JUNE 30, 1957. July 10, 1957. 70p. (UCLA-399) UNCLASSIFIED.

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. 68p. (UCLA-401) UNCLASSIFIED \$0.40(OTS).

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E. M. Romney, J. W. Neel, G. M. LeRoy, A. J. Steen, and K. H. Larson.

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Richard K. Dickey, Louis B. Silverman, and Mary Lee Griswold. May 1957.

25p. Project 37.2 of OPERATION TEAPOT. (WT-1178A) UNCLASSIFIED \$0.25(OTS).

Chicago. Univ. Enrico Fermi Inst. for Nuclear Studies.

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Columbia Univ. New York. Lamont Geological Observatory.

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Dow Chemical Co. Rocky Flats Plant, Denver.

DETECTION AND MEASUREMENT OF RADIOACTIVE PARTICULATES. T. S. Chapman. Dec. 5, 1957. 16p. (RFP-92) UNCLASSIFIED \$3.30(ph OTS); \$2.40(mf OTS).

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. Oct. 1955. Published Jan. 6, 1958. 27p. (APEX-348) UNCLASSIFIED \$1.00(OTS).

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WIND PICKUP OF RADIOACTIVE PARTICLES FROM THE GROUND. John W. Healy and James J. Fuquay. 11p. (A/CONF.15/P/391) UNCLASSIFIED \$0.50(OTS).

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CALCULATIONS OF ENVIRONMENTAL CONSEQUENCES OF REACTOR ACCIDENTS. Interim Report. J. W. Healy. Dec. 11, 1957. 50p. (HW-54128) UNCLASSIFIED \$1.50(OTS).

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BIOLOGICAL MONITORING OF RECENT AIR-BORNE FISSION PRODUCTS. N. R. French and L. Van Middleworth. 7p. (A/CONF.15/P/2497) UNCLASSIFIED \$0.50(OTS).

Illinois Inst. of Tech., 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. 14p. ARF Project C-082. (AECU-3435) UNCLASSIFIED \$3.30(ph OTS); \$2.40(mf OTS).

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EXTERNAL ENVIRONMENTAL RADIATION MEASUREMENTS IN THE UNITED STATES. L. R. Solon, W. M. Lowder, A. V. Zila, H. D. LeVine, H. Blatz, and M. Eisenbud. 16p. (A/CONF.15/P/740) UNCLASSIFIED \$0.50(OTS).

A PROCEDURE FOR THE ACID EXTRACTION AND ANALYSIS OF STRONTIUM 90 IN SOIL. Gerald H. Hamada and Edward P. Hardy, Jr.; WITH A RECOMMENDED METHOD FOR SOIL SAMPLING. Lyle T. Alexander. Apr. 7, 1958. 32p. (HASL-33) UNCLASSIFIED \$6.30(ph OTS); \$3.00(mf OTS).

ENVIRONMENTAL CONTAMINATION FROM WEAPON TESTS. Oct. 1958. 370p. (HASL-42) UNCLASSIFIED \$3.50(OTS).

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STRONTIUM PROGRAM QUARTERLY SUMMARY REPORT. Edward P. Hardy, Jr. and Stanley Klein. Nov. 19, 1958. (HASL-51) UNCLASSIFIED.

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A STUDY OF FALLOUT IN RAINFALL COLLECTIONS FROM MARCH THROUGH JULY 1956. William R. Collins, Jr. and Naomi A. Hallden. Apr. 30, 1957. 27p. (NYO-4862) UNCLASSIFIED \$4.80(ph OTS); \$2.70(mf OTS).

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S. I. Auerbach and D. A. Crossley, Jr. 14p. (A/CONF.15/P/401) UNCLASSIFIED
\$0.50(OTS).

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T. E. VanZandt. Mar. 1, 1957. 10p. (AECU-3494; TM-118-57-51) UNCLASSIFIED
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Jack W. Reed. Feb. 1957. 23p. (SC-4073) UNCLASSIFIED \$4.80(ph OTS);
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ATTACK. W. W. Bledsoe. Apr. 29, 1957. 64p. (SC-4109(TR)) UNCLASSIFIED.

DISPERSAL OF FALLOUT BY MEANS OF A HEAT SOURCE. Kenneth L. Shipley. Mar. 1958.
20p. (SC-4153(TR)) UNCLASSIFIED \$3.30(ph OTS); \$2.40(mf OTS).

FALLOUT FROM A HYPOTHETICAL 1-MT SURFACE BURST AT ALBUQUERQUE. L. J. Vortman.
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\$19.80(ph OTS); \$6.30(mf OTS).

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(COO-217) \$28.80(ph OTS); \$8.40(mf OTS).

Washington. Univ., Seattle. Applied Fisheries Lab.

SURVEY OF RADIOACTIVITY IN THE SEA AND IN PELAGIC MARINE LIFE WEST OF THE
MARSHALL ISLANDS, SEPTEMBER 1-20, 1956. Allyn H. Seymour, Edward E. Held,
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