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Compiled by

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Preliminary Title List for Bibliography on Radiation
Effects in Solid Materials

In recent years, numerous additions have been made to the literature in the field of Radiation Effects in Solid Materials. The Armistead Report (MonP-200) includes a comprehensive bibliography covering the field until 1946, and survey articles in the early issues of the Journal of Metallurgy and Ceramics (TID-65, TID-66) include extensive bibliographies prior to 1948. However, there is a need for a comprehensive survey of the great quantity of classified information published since that time. The following list of titles is an alphabetical inventory of abstracts (taken from the classified literature during the period 1948-1951) which will be used for a punched-card file of references for the Solid State Division at ORNL. This list is being issued in its present preliminary form because of considerable interest expressed by other workers in this field.

Although the titles have been collected primarily for a file on Radiation Effects on Reactor Component Materials, the list covers the field of Radiation Effects in solids in general, including such topics as sources for irradiations (reactors, accelerators, etc.), designs of equipment, and facilities for performing irradiations or investigating properties of irradiated materials. In addition, since the field of Radiation Chemistry overlaps the field of our present interests, survey articles are included but this topic will be covered more thoroughly later, when the unclassified literature is surveyed.

Titles are listed under the reference number which appears to be most readily available in installation libraries. When several numbers were assigned to a given report (such as memos and other articles with original limited distribution) all numbers are included with the title and cross references are listed so that the work can be identified with the originating installation whenever the numbers are available. Page numbers marked with an asterisk indicate that the pages are scattered throughout the report rather than in continued sequence.

Although this present list is made up of titles primarily taken from abstracts in our files, numerous secondary references were added directly from sources such as TID-3005 (A Bibliography of Classified Literature on the Physical Metallurgy of Uranium) in order to expedite making a more extensive collection available in this preliminary listing.

Certain groups of references have been listed in supplements to the general title list. In one of these, the report numbers for some Hanford Technical Progress Letters are listed. It was felt that although these might contain meager or routine data such references could be of interest for following a single special topic such as slug blistering. These references frequently were located as secondary references and it is assumed that most of the data has been accumulated and presented in later reports. Similarly, a group of California Research Corporation Progress Reports on The Investigation of the Effects of Fission Radiations on Lubrication and Lubricants have been listed. A group of secondary references are included which have information based on data from HW-17195 (Bibliography on Dimensional Instability of Uranium Fuel Elements Resulting from Pile Irradiation and Thermal Treatment).

It is hoped that a critical bibliography evaluating the individual references can be completed shortly. The compilers welcome suggestions for improving this collection. Current lists of titles will be added from time to time if interest at other sites warrants these publications.

This compilation was undertaken at the request of, and under the direction of D. S. Billington. The assistance and facilities provided by H. T. Bray, J. C. Morris, E. B. Howard, and their respective staffs, for this compilation are appreciated.

A-1487: See AECD-2078

A-4206; GE-KHK-15, General Electric Co. Knolls Atomic Power Laboratory Progress Report No. 8, March 1-31, 1947. p. 19 May 21, 1947.

AD-301(E), Performance of a Vacuum-Blasting Equipment in Removing Low-Level Radioactivity. Phase I. W. G. Neall. Mar. 28, 1951.

AD-310(C), Silicone Films as Protective Coatings in Radiological Defense. I. Preliminary Contamination-Decontamination Tests. J. D. Saunier Apr. 2, 1951

AD-315(H), Decontamination Kits; Final Report (Technical Objective AW-5c). C. J. Camp, R. E. Young, G. E. Cooke, and F. M. Tomnovec May 16, 1951

AEC-500, Survey of Effects of Radiation on Materials. J. C. Slater (chairman) et al. 52 p. n.d.

AECD-2078; CC-1097; A-1487, The Effect of Radiation on the Physical Properties of Plastics. J. G. Burr and W. H. Garrison. 32 p. Dec. 6, 1943. (Decl. June 25, 1948).

AECD-2750, Chemical Procedures Used in Bombardment Work at Berkeley: Addendum No. 1 of AECU-2738. W. Wayne Meinke (comp.) 18 p. (Decl. Dec. 2, 1949).

AECD-2810, Effect of Nuclear Reactor Radiation on Metals. D. S. Billington and Sidney Siegel. (Decl. Mar. 22, 1950). DECLASSIFIED

AECD-2996; ORNL-732, Decontamination and Corrosion Resistant Properties of Selected Laboratory Surfaces. C. D. Watson, T. H. Handley, and G. A. West. Aug. 29, 1950. DECLASSIFIED

AECD-3000 (Excerpt declassified from ANL-4475), Estimation of Self-Absorption on Neutron-Irradiated Samples. Robert Keyes. (Decl. September 1950). DECLASSIFIED

AEDC-3054, Distribution and Power Measurements in the Water Boiler. L.D.P. King and R. E. Schreiber. Oct. 19, 1944. (Decl. January 1951). DECLASSIFIED

* Page numbers marked with an asterisk indicate that the pages are scattered throughout the report rather than in continued sequence.

AECD-3059 (from LADC-887), An Enriched Homogeneous Nuclear Reactor.
(Decl. Jan. 25, 1951). DECLASSIFIED

AECD-3073; LADC-935, Energy Spectrum of Neutrons from Fissions Induced by Thermal Neutrons. B. E. Watt. 30 p. (Decl. Feb. 26, 1951). DECLASSIFIED

AECD-3188; LADC-961, Gamma Ray Spectra of Los Alamos Reactors 'Water Boiler' and Clementine. J. W. Metz. (Decl. July 5, 1951). DECLASSIFIED

AECD-3290; WAPD-43, Creep of Copper Under Deuteron Bombardment. Warren F. Witzig. October 1951. (Decl. December 1951). DECLASSIFIED

AECD-3294; LADC-1072, Measurement of Fast Neutron Flux. Barschall, Rosen, Taschek, and Williams. (n.d.) DECLASSIFIED

AECD-3379; LADC-1143, Energy Distributions of Fragments from the Fission of U²³⁵, U²³⁸ and Pu²³⁹ by Fast Neutrons. John S. Wahl. (n.d.)
DECLASSIFIED

AECU-551; ORNL-381, Radioactive Decontamination Properties of Laboratory Surfaces. I. Glass, Stainless Steel and Lead. Paul C. Tompkins, and Oscar M. Bizzell. (n.d.) UNCLASSIFIED

AECU-552; ORNL-382, Radioactive Decontamination Properties of Laboratory Surfaces. II. Paints, Plastics and Floor Materials. Paul C. Tompkins, Oscar M. Bizzell and C. D. Watson. UNCLASSIFIED

AECU-1185, Requirements for Handling a Gamma Emitter in the 1-Mc to 1 C Range. Louis G. Stang, Jr. June 26, 1951. UNCLASSIFIED

AECU-1533, Investigation of Color Centers in Single Crystals. C. J. Delbecq, Peter Pringsheim, R. Casler Voreck, and P. J. Yuster. 69 p. December 1950. UNCLASSIFIED

AERE-N/PC-15, Neutron Irradiated Diamonds. R. A. Dugdale. Oct. 25, 1950.
[REDACTED]

AERE-PR-17 (p. 33), Atomic Energy Research Establishment Progress Review No. 17. July 1950, [REDACTED]

AERE-PR-20, Atomic Energy Research Establishment Progress Review No. 20. p. 10, 49. April 1951. [REDACTED]

[REDACTED]

AERE-PR-21, Atomic Energy Research Establishment Progress Review No. 21, p. 11,
[REDACTED]

AERE-TL-32 (Lecture III), Scientific and Engineering Problems of Nuclear Power.
Feb. 3, 1949. UNCLASSIFIED

AERE-INF/BIBL-71, Range-Energy and Range Momentum Relationships for Charged
Particles. February 1951. UNCLASSIFIED

AERE-C/M-97, A Valve for Glass Blowing on Apparatus Contaminated with Radio-
active or Toxic Substances. F. T. Birks, February 1951. UNCLASSIFIED

AERE-C/R-206, The Oxidation of Graphite at Pile Temperatures. H. Sheard, P. C.
Davidge, K. Brown, and A. W. Kenney. Jan. 31, 1949. [REDACTED]

AERE-C/R-206 (Rev.), The Oxidation of Graphite at Pile Temperatures. H. Sheard
et al. Aug. 9, 1951. [REDACTED]

AERE-T/R-226, Non-Uniformity of Distribution of Very Fast Neutrons in a Cell
of a Pile. B. Davison. January 1949. [REDACTED]

AERE-G/R-366, The Radiography of Active Uranium Cartridge. J. A. Smith and J.
Thewlis. September 1949. [REDACTED]

AERE-M/R-382, Effect of Irradiation on the Hardness Properties of Alpha-Uranium.
E. R. W. Jones and P. Madsen. August 1949. [REDACTED]

AERE-C/R-643, An Apparatus for the Pile Irradiation of Liquids. UNCLASSIFIED

AERE-G/R-660, The Calculation of the Multiple Traversals of Cyclotron Targets.
J. M. Dickson. February 1951. UNCLASSIFIED

AERE-R/R-686, Divergency Data for Gleep. D. J. Littler. 7 p. March 1951.
[REDACTED]

AERE-M/R-741, Effect of Irradiation on the Hardness of Alpha-Uranium. P. E.
Madsen. July 1951. [REDACTED]

AL-328: See NAA-SR-3.

AL-329: See NAA-SR-4.

AL-333: See NAA-SR-10.

ANL-HLH-1, (Memo) Exposure of Vacuum Tubes in Pile. R. J. Creagan, Feb. 5, 1947.

ANL-GRH-13: See TID-5021 (paper 27)

ANL-JRG-32, Outline of Irradiation Problems Studied on C-II (for Slater Committee). J. R. Gilbreath. June 29, 1949.

ANL-JRG-34: See TID-68 (p. 41-57)

ANL-FF-55e: See TID-5021 (paper 3)

ANL-FF-68m: See TID-5021 (paper 4)

ANL-OCS-74, Wigner Effect on Graphite. O. C. Simpson. 2 p. Oct. 15, 1946.

ANL-OCS-75, Gamma Irradiation of Insulating Material. S. Gordon, F. Belletire, and Mary Rebenak. Oct. 1, 1946.

ANL-JRG-76: See TID-5019

ANL-JRG-84, Summary of Discussion on Reactor Development Between Sir John Cockcroft, Harwell, and Representatives of ANL on September 20, 1951. J. R. Gilbreath. 3 p. Oct. 31, 1951.

ANL-OCS-88 (Memo), Neutron-Induced Changes in Graphite. T. J. Neubert. 6 + 4 p. Nov. 20, 1946.

ANL-FF-100t, Naval Reactor Materials Testing Division Program M-4: Section 5. W. F. Murphy. 9 p. May 1951.

ANL-OCS-112, Semi-Monthly Abstracts. Pile Chemistry and General Chemistry. Period from February 16 to 28, 1947. C. A. Boyd et al. Mar. 4, 1947.

ANL-SM-122: See ANL-4551

[REDACTED]

ANL-OCS-140 and 140A, Relative Effectiveness of Fission Recoils as Compared with Fast Neutrons in Producing Radiation Damage. O. C. Simpson, March, 1948. [REDACTED]

ANL-OCS-163, Information Exchanged at Chalk River October 7, 8, and at Argonne National Laboratory October 25, 1948 on the Subject "Oxidation of Graphite".
10 p. n.d. [REDACTED]

ANL-WPB-177: See TID-73 (p.131-134)

ANL-OCS-179, Corrosion of Metals on Irradiation. W. Primak, May 25, 1949.
[REDACTED]

ANL-OCS-182, Radiation Damage Conference; June 22-24, 1949. O. C. Simpson,
June 22, 1949. [REDACTED]

ANL-OCS-189, Use of Proposed 60-Inch Cyclotron at ANL for Study of Irradiation Effects. O. C. Simpson, Aug. 5, 1949. [REDACTED]

ANL-OCS-242: See TID-5021 (paper 23)

ANL-FF-252: See TID-5021 (paper 24)

ANL-HE-603, In Pile Insulator Tests. C. E. Teeter, Jr. 2 p. Aug. 9, 1950.
[REDACTED]

ANL-HE-607, Status and Results of Tests to Determine the Resistance of Organic Materials to Reactor Flux. J. E. Perry, 2 p. July 28, 1950. [REDACTED]

ANL-HE-615, Results of Electrical Resistance Measurements in Oak Ridge Reactor. J. E. Perry, 2 p. July 31, 1950. [REDACTED]

ANL-HE-644, Memo on Pile Testing of the Copper Solenoid. Karl F. Smith,
Aug. 17, 1950. [REDACTED]

ANL-HE-833, Memo on Pile Testing of the Copper Solenoid. Karl F. Smith,
Jan. 3, 1951. [REDACTED]

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ANL-4000, Summary Report for July, August, September 1946; Chemistry Division, Section C-II. 51 p.* June 2, 1947. [REDACTED]

ANL-4005, Summary Report for October, November and December, 1946; Chemistry Division, Section C-II, 31 p.* Apr. 27, 1948. [REDACTED]

ANL-4006, Summary Report for January, February, and March, 1947; Chemistry Division, Section C-II, 35 p.* Oct. 3, 1947. [REDACTED]

ANL-4053, Investigations on the Absorption Spectra Induced in Single Crystals of Magnesium Oxide by Exposure to Various Types of Radiation, C. A. Boyd, 14 + 16 p. Sept. 16, 1947. [REDACTED]

ANL-4061, Anticipated Neutron-Induced Changes in Lampblack "Graphite", T. J. Neubert, 29 p. Oct. 1, 1947. [REDACTED]

ANL-4084, Radiocarbon from Pile Graphite: Implications for the Wigner Effect and Large Scale Isotope Farming, W. H. Hamill and W. F. Libby, Oct. 14, 1947.
[REDACTED]

ANL-4090, Summary Report for April, May, and June, 1947; Chemistry Division, Section C-II, 31 p.* Jan. 6, 1948. [REDACTED]

ANL-4185, Summary Report for July - December, 1947; Chemistry Division, Section C-II, 36 p.* Oct. 1, 1948. [REDACTED]

ANL-4188, Metallurgy Division; Report for April, May, and June, 1948, June 30, 1948. [REDACTED]

ANL-4196, Energy of Activation of Dislocated Carbon Atoms as Determined from the Irreversible Resistance Changes in Irradiated Graphite, R. L. Seifert, 29 p. Sept. 13, 1948. [REDACTED]

ANL-4204, Summary Report; January, February, March, 1948; Chemistry Division, Section C-II, W. M. Manning, 14 p.* Dec. 20, 1949. [REDACTED]

ANL-4232, Summary Report for April, May, and June, 1948; Chemistry Division, Section C-II, W. M. Manning and O. C. Simpson, 2 p.* Feb. 10, 1949. [REDACTED]

ANL-4238, Report for the Period March 1, 1948 through November 30, 1948; Reactor Engineering Division, W. H. Zinn, p. 17, Feb. 3, 1949. [REDACTED]

ANL-4258, Summary Report; July, August, September, 1948; Chemistry Division, Section C-II, 24 p.* May 11, 1949. [REDACTED]

[REDACTED]

ANL-4259. Quarterly Report for Period December 8, 1948 through February 28, 1949; Naval Reactor Division. H. Etherington. 3 p.* Mar. 15, 1949. [REDACTED]

ANL-4288. Summary Report; October, November, December, 1948; Chemistry Division, Section C-II. 9 p.* W. M. Manning and O. C. Simpson. July 28, 1949. [REDACTED]

ANL-4299. Thermal Conductivity Changes in the Permanent Graphite of the Development Reactor. Bernard I. Spinrad. 13 p. [REDACTED]

ANL-4300. Naval Reactor Division Report for period March 1 through May 30, 1949. H. Etherington. 3 p.* June 15, 1949. [REDACTED]

ANL-4304. Materials Testing Reactor Project Quarterly Report for Period Ending June 1, 1949. J. R. Huffman. (n.d.) p. 21, 26. [REDACTED]

ANL-4307. Stored Energy in HEW Irradiated Graphite. R. B. Lees and T. J. Neubert. June 13, 1949. [REDACTED]

ANL-4311. Master Slave Manipulator. R. C. Goertz. 6 p. Mar. 7, 1949.
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ANL-4315. Reactor Engineering Division; Quarterly Report for the Period March 1, through May 31, 1949. W. H. Zinn. p. 9. June 28, 1949. [REDACTED]

ANL-4316. Metallurgy Division; Quarterly Report for January, February, and March, 1949. F. G. Foote and J. F. Schumar. (p. 40 - 41). Mar. 31, 1949.
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ANL-4327. Pilot Channel Tests at ORNL for a Water-Cooled Naval Reactor; Progress Report #1 Description of Equipment. G. A. Anderson. Aug. 10, 1949. [REDACTED]

ANL-4335. An Electrical Recording Dial Gage. R. F. Plott. 5 p. Sept. 19, 1949.

ANL-4337. Naval Reactor Division Quarterly Report; June 1 through August 31, 1949. H. Etherington. 6 p.* Sept. 15, 1949. [REDACTED]

ANL-4359. Summary Report; January, February, March, 1949; Chemistry Division, Section C-II. W. M. Manning and O. C. Simpson. Dec. 6, 1949. [REDACTED]

ANL-4364. Quarterly Report; July, August, and September, 1949; Metallurgy Division. F. G. Foote. p. 57. Sept. 30, 1949. [REDACTED]

ANL-4365. Monthly Progress Report (for) November 1949. Report of the Work of Chemistry and Chemical Engineering, Metallurgy and Remote Control Divisions for the Quarterly Period Ending October 31, 1949.

ANL-4369. Thermal Annealing of Neutron-Incuded Discomposition in Artificial Graphite 1) Rate of Healing Experiments. T. J. Neubert. Nov. 18, 1949.

ANL-4379. Quarterly Report; September, October, November 1949; Naval Reactor Division. H. Etherington. 5 p.* Dec. 15, 1949.

ANL-4380. Summary Report for the Period April through September 1949; Chemistry Division, Section C-II. R. Gilbreath Jr., and O. C. Simpson. 39 p.* Mar. 20, 1950.

ANL-4385. New Hot Laboratories at Argonne. H. L. Hull, R. G. Goertz and K. R. Ferguson. 13 p. October 1949.

ANL-4399. Quarterly Report; October, November and December, 1949; Metallurgy Division. J. H. Kittel and S. H. Paine, Jr. 12 p.* Dec. 31, 1949.

ANL-4400. Mass Spectroscopy and Crystal Structure Division; Quarterly Report; September, October, and November, 1949. A. J. Dempster, p. 12-13, Jan. 19, 1950.

ANL-4405. Monthly Progress Report (for) February 1950. Report of the Work of Chemistry and Chemical Engineering, Metallurgy, and Remote Control Divisions for the Quarterly Period Ending January 31, 1950.

ANL-4416. The Hall Coefficient of Pile Irradiated Graphite. C. J. Delbecq and G. R. Hennig. 17 p. Mar. 9, 1950.

ANL-4424. Quarterly Report; December 1, 1949 through February 28, 1950; Naval Reactor Division. 3 p.* Mar. 15, 1950.

ANL-4427. Summary Report; October, November, December, 1949; Chemistry Division, Section C-II. J. R. Gilbreath and O. C. Simpson. 43 p.* July 28, 1950.

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- ANL-4436. Feasibility of Naval Reactor Fuel Elements Made of Zirconium-Uranium Alloy Clad with Zirconium. S. Naymark, J. A. Barker, P. H. Grant, L. B. Kramer, W. F. Saitta, and K. F. Smith. p. 51, 64-67. Mar. 31, 1950. [REDACTED]
- ANL-4439. Quarterly Report for Period Ending March 1, 1950; Materials Testing Reactor Project. J. R. Huffman 2 p. [REDACTED]
- ANL-4449. Quarterly Report; January, February, March, 1950; Chemistry Division, Section C-II. J. R. Gilbreath and O. C. Simpson. 24 p.* Oct. 19, 1950. [REDACTED]
- ANL-4455. Quarterly Report; March 1, 1950 through May 31, 1950; Naval Reactor Division. H. Etherington. June 15, 1950. [REDACTED]
- ANL-4465. Pilot Channel Tests at ORNL for a Water Cooled Naval Reactor; Progress report No. 2 (on) Results of Run I and Run II. Aug. 24, 1950. [REDACTED]
- ANL-4466. The Increase in Heat Content of Diamond on Irradiation. L. H. Fuchs and W. L. Primak. 9 p. June 9, 1950. [REDACTED]
- ANL-4475. Estimation of Neutron Self Absorption in $RaCO_3$ Samples. Robert Keyes. 11 p. June 26, 1950. [REDACTED]
- ANL-4477. Thermal Annealing of Neutron Induced Discomposition in Artificial Graphite II. Asymptotic Annealing Experiments. T. J. Neubert. 37 p. July 7, 1950. [REDACTED]
- ANL-4481. Quarterly Report; March 1, 1950 through May 31, 1950; Reactor Engineering Division. W. H. Zinn. p. 24. July 1, 1950. [REDACTED]
- ANL-4487. The Calculation of Induced Gamma Activity in Commercial Materials; Materials Testing Reactor Project. P. J. Persiani. 34 p. Aug. 8, 1950. [REDACTED]
- ANL-4504. "Irradiation Effects on Fuel Element Materials" (in) Quarterly Report; June 1, 1950 through August 31, 1950; Naval Reactor Division. H. Etherington. p. 51-74. Sept. 15, 1950. [REDACTED]
- ANL-4523. Pilot Channel Tests at Hanford for a Water-Cooled Naval Reactor; Progress Report No. 1; Design, Scope of Test and Preliminary Testing. L. W. Fromm and G. A. Anderson. Mar. 1, 1951 [REDACTED]
- ANL-4526. Summary Report; April through September, 1950; Chemistry Division, Section C-II. J. R. Gilbreath and O. C. Simpson. 27 p.* Jan. 23, 1951 [REDACTED]
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TID-5013: See TID-5021 (paper 12)

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TID-5021 (paper 32); NAA-SR-121. "Effect of Cyclotron Irradiation on Creep of Aluminum" paper 32 of Proceedings of the Irradiation Damage Conference at WAPD March 6 and 7, 1951. H. P. Yockey, M. R. Jeppson, and R. D. Keen. 31 p. June 8, 1951. [REDACTED]

TID-5022: See TID-72 (Supp.)

TID-5024: Report on Visit to Oak Ridge by C. A. Rennie of the United Kingdom on May 3, 1951. Technical Cooperation Program (Visit No. 175), William B. Allred. May 16, 1951. [REDACTED]

TID-5026; ANL-NDN-76589: See TID-5021 (paper 30)

TID-5029; NAA-SR-Misc-4: See TID-72 (p. 93-94)

TID-5041. Dimensional Stability of Uranium Rods. Report of Trip to Chalk River, September 4-5, 1951 (Visit No. 193). D. W. Lillie. Nov. 7, 1951. [REDACTED]

TID-5044: Memo-JPH-37: See TID-73 (p. 85-120)

TID-5045: See TID-73 (p. 49-67)

TID-5057. Determination of Central Flux with Indium Foils (Internal Memoranda), V. L. Sailor. Feb. 6, 1951. [REDACTED]

TID-5061 (p. 99-110); HW-22194. "Orientation Studies of Uranium Rod", p. 99-110 of Proceedings of the Metallurgy and Materials Information Meeting April 16-18, 1951. Held at Oak Ridge. John B. Burnham, Jr., Sept. 19, 1951 [REDACTED]

UCRL-583. The Decomposition of Water by Radiation. William J. Toulis (U. of Cal. Radiation Lab). Feb. 10, 1950. UNCLASSIFIED

UCRL-1238. Bibliography of Particle Accelerators July 1948 to December 1950. Bonnie F. Cushman, March 1951. UNCLASSIFIED

WESTINGHOUSE MONTHLY PROGRESS REPORTS (Naval Reactor Program):

WAPD-MR-8 (August 1950) [REDACTED]

WAPD-MR-9 (September 1950) [REDACTED]

WAPD-MR-10 (October 1950) [REDACTED]

WAPD-MR-11 (November 1950) [REDACTED]

WAPD-MR-12 (December 1950) [REDACTED]

WAPD-MR-13 (January 1951) [REDACTED]

[REDACTED]

WAPD-MR-14 (February 1951) [REDACTED]

WAPD-MR-15 (March 1951) [REDACTED]

WAPD-MR-16 (April 1951) [REDACTED]

WAPD-MR-17 (May 1951) [REDACTED]

WAPD-MR-18 (June 1951) [REDACTED]

WAPD-MR-19 (July 1951) [REDACTED]

WAPD-MR-20 (August 1951) [REDACTED]

WAPD-MR-21 (September 1951) [REDACTED]

WAPD-MR-22 (October 1951) [REDACTED]

WAPD-MR-23 (November 1951) [REDACTED]

WAPD-MR-24 (December 1951) [REDACTED]

WAPD-25 (p. 15-17). Preliminary Report on the Electrical Resistivity of Zirconium. L. A. Cook, L. S. Castleman and W. H. Johnson. Dec. 20, 1950. [REDACTED]

WAPD-31: See TID-5021 (paper 9)

WAPD-32: See TID-5021 (paper 2)

WAPD-33: See TID-5021 (paper 28)

WAPD-43: See AECD-3290

WASH-24. Application of a Water Cooled and Moderated Reactor to Aircraft Propulsion (An Informal Report). Aug. 18, 1950. [REDACTED]

Y-657. High Temperature Fuel Systems: A Literature Survey. W. R. Grimes and D. G. Hall. July 20, 1950. [REDACTED]

Y-722. Progress Report; Electromagnetic Research Division; October 1, 1950 to December 31, 1950. R. S. Livingston (Director), Jan. 15, 1951.

Y-767. Progress Report; Electromagnetic Research Division; January 1, 1951 to March 31, 1951. Robert S. Livingston. Apr. 15, 1951.

Y-821. Quarterly Progress Report; Stable Isotope Research and Production Division; July 1 to September 30, 1951. p. 37-38. Oct. 1, 1951.

Y-F26-1. Notes on ANP Research Conference. Wm. B. Cottrell. Jan. 3, 1951.

Y-F29-1. Radiation Damage and the ARE. L. P. Smith. Feb. 28, 1951.

PERIODICALS:

Discussions of the Faraday Soc. 5, 271-282 (1949). "On the Disordering of Solids by Action of Fast Massive Particles". Frederick Seitz

J. Applied Phys. 22: 237-256 (1951). "The Effects of Radiation on Materials". J. C. Slater. (Unclassified version of the "Slater Report": AEC-500)

J. Chem. Education 28, 404-420 (1951); AECU-1344. "An Introduction to Radiation Chemistry". Milton Burton

SUPPLEMENT I

List of some of the Hanford Technical Progress Letters which contain brief information on irradiation effects in Uranium, and in some instances in graphite:

HEW-7058	Technical Progress Letter No. 157	July 10, 1947
HW-8318	Technical Progress Letter No. 180	Dec. 18, 1947
HW-8597	No. 184	Jan. 15, 1948
HW-8602	No. 185	Jan. 22, 1948
HW-8679	No. 186	Jan. 29, 1948
HW-8838	No. 188	Feb. 12, 1948
HW-8989	No. 190	Feb. 26, 1948
HW-9077	No. 191	Mar. 4, 1948
HW-9136	No. 192	Mar. 11, 1948
HW-9201	No. 193	Mar. 18, 1948
HW-9250	No. 194	Mar. 25, 1948
HW-9352	No. 195	Apr. 1, 1948
HW-9566	No. 198	Apr. 22, 1948
HW-9636	No. 199	Apr. 29, 1948
HW-9708	No. 200	May 6, 1948
HW-9767	No. 201	May 13, 1948
HW-9910	No. 203	May 27, 1948
HW-9973	No. 204	June 3, 1948

[REDACTED]

HW-10128	Technical Progress Letter No. 206	June 17, 1948
HW-10188	No. 207	June 24, 1948
HW-11119	No. 221	Sept. 30, 1948
HW-11799	No. 231	Dec. 9, 1948
HW-11927	No. 233	Dec. 23, 1948
HW-12121	No. 236	Jan. 13, 1949
HW-12799	No. 246	Mar. 24, 1949
HW-17075	No. 271	Mar. 2, 1950

HW-22375. Technical Progress Letter; A Listing (of Technical Progress Letters from 1944 to Oct. 9, 1951). I. G. Linkous, comp. Oct. 9, 1951. [REDACTED]

SUPPLEMENT II

Abstracts for Hanford reports, listed below, based on data from HW-17195 ("Bibliography on Dimensional Instability of Uranium Fuel Elements Resulting from Pile Irradiation and Thermal Treatment") are available in TID-3005 (A Bibliography of Classified Literature on the Physical Metallurgy of Uranium).

Abstracts are numbered as they are listed in TID-3005:

- (Abstract No. 530) GEH-11,389. Feasibility of Significantly Increasing Exposure time of Metal at Hanford. G. L. Weil. Sept. 18, 1947. [REDACTED]
- (Abstr. No. 597) GEH-14,574. Extract from Report for the Period April 4 through April 16, 1949. Evergreen Liaison Office. Apr. 26, 1949. [REDACTED]
- (Abstr. No. 598) GEH-14,661. Extract from Report for the Period April 17 through May 7, 1949. Evergreen Liaison Office. May 12, 1949. [REDACTED]
- (Abstr. No. 599) GEH-14,485. Extract from Report for the Period May 23 through June 4, 1949, Inclusive. Evergreen Liaison Office. June 16, 1949. [REDACTED]
- (Abstr. No. 600) GEH-14,926. Extract from Report for the Period June 5 through June 18, 1949. Evergreen Liaison Office. June 29, 1949. [REDACTED]
- (Abstr. No. 601) GEH-14,956. Extract from Report for the Period June 20 through July 2, 1949 Inclusive. Evergreen Liaison Office. July 8, 1949. [REDACTED]
- (Abstr. No. 602) GEH-15,227. Extract from Report for the Period August 7 through August 20, 1949. Evergreen Liaison Office. Aug. 31, 1949. [REDACTED]
- (Abstr. No. 896) HW-8837. Effect of Fabrication Temperatures on Blistering. Interim Report (on) P. T. 105-119-P. W. K. Alexander. Feb. 3, 1948. [REDACTED]

SUPPLEMENT II (Continued)

Abstracts are numbered as they are listed in TID-3005:

- (Abstr. No. 930) HW-3-5609, Effect of Position in the Pile on Blistering of Slugs. B. F. Butler. June 27, 1947.
- (Abstr. No. 932) HW-9350. Statistical Analysis (of) Slug Blistering. Interim Report on Production Tests 313-94-M and 105-119-P. B. F. Butler. Mar. 31, 1948.
- (Abstr. No. 933) HW-10180. Statistical Analysis of Blistering, Length, Diameter, and Warp Data from P.T. 105-119-P. B. F. Butler. June 22, 1948.
- (Abstr. No. 934) HW-10603. Statistical Analysis of Blistering, Length, Diameter, and Warp Data from P.T. 105-124-P. B. F. Butler. July 30, 1948.
- (Abstr. No. 936) HW-7-4679. Exposure of Cast Slugs. Interim Report (on) P.T. 105-45-P. P. A. Dahlen. Aug. 29, 1946.
- (Abstr. No. 953) HW-9801. Behavior of Uranium Under Pile Irradiation. A. B. Greninger. May 17, 1948.
- (Abstr. No. 980) HW-8889. Comparison of Corrosion Weight Loss for Blistered and Non-Blistered Slugs. J. J. Lane. Feb. 17, 1948.
- (Abstr. No. 1012) HW-9072. Blistered Slug Fabrication History. E. A. Smith. Feb. 25, 1948.
- (Abstr. No. 1019) HW-3-5232. Relation of Fabrication Process Variables to Blistering. E. A. Smith. Jan. 10, 1947.
- (Abstr. No. 1022) HW-3-3021. Straightening Rods While Hot. P.T. 314-29-M. E. A. Smith. Aug. 13, 1945.
- (Abstr. No. 1037) HW-9430. Examination of Irradiated Uranium. Interim Report (on) Problem Assignment 3-M. L. D. Turner. Apr. 7, 1948.
- (Abstr. No. 1051) HW-9332. 100-300 Program Meeting (on) March 16, 1948. T. W. Hauff and W. K. Woods. Mar. 19, 1948.
- (Abstr. No. 1052) HW-9397. 100-300 Program Meeting (on) March 30, 1948. T. W. Hauff and W. K. Woods. Apr. 5, 1948.
- (Abstr. No. 1053) HW-9388 Results of Meetings Held in Regard to 300 Area Metal Fabrication. J. E. Marder. Apr. 2, 1948.

[REDACTED]

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SUPPLEMENT III

Monthly Progress Reports by California Research Corp. on: The Investigation of the Effects of Fission Radiations on Lubrication and Lubricants:

The following reports are included in a composite abstract filed for NEPA: 645, 646, 647, 648, 662, 728, 765, 800, 832, 847, 861 (Feb-Dec. 1948)

Library card abstracts are available for the following monthly progress reports on this same topic:

NEPA-890	Dec. 1948-Jan. 1949	NEPA-1308	Jan.-Feb. 1950
909	Jan. 1949 - Feb. 1949	1353	Feb.-Mar. 1950
967	Feb. - Mar. 1949	1382	Mar.-Apr. 1950
1003	Mar. Apr. 1949	1409	Apr.-May 1950
1024	Apr. May 1949	1477	May-June 1950
1057	May June 1949	1499	June-July 1950
1083	June July 1949	1537	July-Aug. 1950
1124	July Aug. 1949	1576	Aug.-Sept. 1950
1157	Aug. Sept. 1949	1604	Sept.-Oct. 1950
1189	Sept. Oct. 1949	1635	Oct.-Nov. 1950
1215	Oct. Nov. 1949	1673	Nov.-Dec. 1950
1239	Nov. Dec. 1949		
1273	Dec. 1949 - Jan. 1950		

Note: Final Report on The Effects of Fission Radiation on Lubricants and Lubrications issued as NEPA-1844.

SUPPLEMENT IV

List of Washington University Progress Reports on Effect of Charged Particles on the Physico Mechanical Properties of Materials:

NEPA-1598	Sept. 15 - Oct. 15, 1950
NEPA-1642	Oct. 15 - Nov. 15, 1950
NEPA-1674	Nov. 15 - Dec. 15, 1950
NEPA-1696	Dec. 15, 1950 - Jan. 15, 1951
NEPA-1753	Jan. 16,-Feb. 15, 1951

DC-51-6-9	May 1 - June 1, 1951
DC-51-7-10	June 1 - July 1, 1951
DC-51-8-16	July 1 - Aug. 1, 1951
DC-51-10-19	Sept. 1 - Oct. 1, 1951
DC-51-11-18	Oct. 1 - Nov. 1, 1951
DC-51-12-24	Nov. 1 - Dec. 1, 1951

S [REDACTED]

SUPPLEMENT V
1952 Titles [REDACTED]

KAPL-731; R 51 GL 19. Summary of Available Data on Radiation Damage on Various Non-Metallic Materials E. L. Mincher. Apr. 2, 1952. [REDACTED]

NP-3875. Laboratory Design for Handling Radioactive Materials. Research Correlation Conference, November 27 and 28, 1951. May 1952. NOT CLASSIFIED

ORNL (CF-52-8-103). Radiation Chemistry of Aqueous Reactor Solutions. J. W. Boyle, W. F. Kieffer, C. J. Hochanadel, T. J. Sworski and J. A. Ghormley. Aug. 16, 1952. [REDACTED] (To be submitted to J. Reactor Sci. and Techn. for publication).

ORNL-1323. Effect of Neutron Irradiation on a Supersaturated Solid Solution of Beryllium in Copper. G. T. Murray and W. E. Taylor. June 16, 1952. UNCLASSIFIED

ORNL-1371. "Gamma Radiation Induced in Engineering Materials". O. Sisman and C. D. Bopp (To be published)

ORNL-1372. Neutron Spectra from Foil Activation. J. B. Trice (To be published)

ORNL-1373. Radiation Stability of Plastics and Elastomers (Supplement to ORNL-928) O. Sisman and C. D. Bopp (To be published)

TJD-5094; Report No. 3. Summary Report; April 30, 1951 - May 30, 1952; Research on the Radiation Stability of Organic Fluids. California Research Corporation. July 1, 1952. [REDACTED]

WADC-TR-187, Part I. Effects of Nuclear Radiation on Electronic Components and Systems. Arnold N. Good and William T. Price. Aug. 18, 1952. [REDACTED]

Y-904. The Effect of Alpha-, Beta-, Gamma-, and X-Rays on Organic Compounds. A Literature Search. Frances Sachs. Aug. 18, 1952. UNCLASSIFIED