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LIST OF UNCLASSIFIED REPORTS RECEIVED AND ISSUED BY THE UCRL
INFORMATION DIVISION DURING THE PERIOD OF JANUARY 16-31, 1958

February 3, 1958

Printed for the U.S. Atomic Energy Commission

AF-SAM-57- 42	Failure of Beta-Aminoethylisothiuronium Dibromide to Protect Against Lethal Total-Body X-Irradiation in Dogs.	R. Benson, S. Michaelson, J. Howland, Rochester, N. Y. Univ., School of Med.	9-7-56
AF-SAM-57-	Radiation Creatinuria in the Rat	C. Williams, G. Krise, D. Anderson, et al, School of Aviation Medicine, Randolph AFB, Tex.	1-24-57
AF-SAM-57- 72	Systemic and Clinical Effects Induced in 263 Cancer Patients by Whole-Body X-irradiation with Nominal Air Doses of 15 to 200 R.	L. Miller, G. Fletcher, H. Gerstner, Texas. Univ., Houston. M. D. Anderson Hospital	2-4-57
SAM-57- 16	Neoplasms in Monkeys (MACACA Mulatta): Spontaneous and Irradiation-Induced	S. Kent, J. Pickering, Texas. Univ., Austin. Radiobiological Lab.	3-27-57
AF-SAM-57-126	Effect of a Chronic Exposure to Fast Neutrons on the Development of Tumors in the Rat	Q. Hartwig, S. Kent, J. Sproul, Jr. School of Aviation Med. Randolph AF Tex.	5-9-57
ORB-739	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. Newcombe, S. Axford, A. James, Atomic Energy of Canada Ltd. Chalk River Project, Chalk River	11-57
PR-1428	Effects of Nuclear Weapons on a Large Biological Specimen (Swine). Project 4.1 [of] Operation Plumbbob; Preliminary Report	G. McDonnell, H. Claypool, W. Moncrief, et al Walter Reed Army Medical Center, Wash. D C	11-5-57

440	Thermal Protection of the Individual Soldier. Project 8.1 [of] Operation Plumbbob; Preliminary Report	F. Babers, E. Waldron, L. Fox, Quartermaster Res. and Engineering Command, Natick, Mass.	9-9-57
447	The Internal Environment of Underground Structures Subjected to Nuclear Blast. I. The Occurrence of Dust. Project 33.5 [of] Operation Plumbbob; Preliminary Report	C. White, M. Wetherbe, V. Goldizen, Lovelace Foundation for Medical Education and Res. [Albuquerque, N. Mex.]	9-57
44PL-1869	Health Physics Report for April, May, June 1957	Knolls Atomic Power Lab.,	
44PL-1889	Health Physics Report for July, August, September 1957	Same	
447	Safety Considerations for Handling Plutonium, Uranium, Thorium, the Alkali Metals, Zirconium, Titanium, Magnesium and Calcium	E. Stout, Comp. Los Alamos Scientific Lab. N. Mex.	1-17-58
44MS-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	B. Schnap, J. Tribby, E. Cox, et al. Same	3-26-48
44KF-57-51T	Environmental Radioactivity in the NTA Test Area and Flight Corridor	R. Shockley, W. Miller, Convair, Fort Worth, Tex.	11-25-57
44NP-6353	Report of the First Meeting of the European Contact Group on the Uses of Isotopes and Radiation in Agricultural Research Held in Wageningen, Netherlands on December 10-14, 1956. Meeting Report No. 1956/27.	Food and Agriculture Organization of the United Nations, Rome. European Commission on Agriculture	

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AP-6440	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]	Czechoslovakia	9-20-56
AP-6503	The Disposal of Radioactive Waste on Land	National Res. Council	9-57
ORNL-2364	Fitting Linear Combinations of Exponentials to Human Uranium-Excretion Data	S. Bernard, B. Fish, J. Muir, et al. Oak Ridge National Lab.	1-10-58
WAC-235	Liquid-Metal Smoke Abatement	Pratt and Whitney Aircraft Div., United Aircraft Corp., Middletown, Conn.	11-1-57
AP-85	Integrated Air Sampling Program for a Radioactive Plant	T. Chapman, Dow Chemical Co. Rocky Flats Plant, Denver	6-17-57
CLA-421	Kinetics of Heat Inactivation of Ribonucleic Acid of Tobacco Mosaic Virus	W. Ginoza, California Univ., Los Angeles. Atomic Energy Project	1-20-58
LR-493	Studies on Small Area Sub-Fabric Flash Burns	K. Berkeley, Rochester, N. Y. Univ.	10-31-57
ORNL-TR-188	Effect of Weight Reduction and Diet Composition on Human Serum Lipoproteins	C. Entenman, A. Behnke, Jr. Naval Radiological Defense Lab., S. F.	10-30-57
ORNL-TR-190	The Metabolism of Sulfobromophthalein Sodium (BSP) in the Rat	J. Krebs, R. Brauer, Same	11-6-57

USNRDL-TR- .92	The Effect of Sublethal Total Body Irradiation on the Bactericidal Activity of Rat Leucocyte Mitochondrial Extracts	M. Fishman, M. Silverman, Naval Radiological Defense Lab.	12-2-57
USNRDL-TR- .94	Effects of X-Irradiation on Lipid Metabolism. IV. Lipogenesis from Acetate- C^{14} by the Liver	W. Warner, S. Lerner, C. Entenman, Same	10-23-57
USNRDL-TR- .95	Effect of Fractionation of Beta Radiation Upon Rat Skin	E. Jacobsen, A. Davis, E. Alpen Naval Radiological Defense Lab.	9-25-57
AECD-1178A	Beta Skin-Dose Measurements by Specially Designed Film-Pack Dosimeters	R. Dickey, L. Silverman, M. Griswold, California Univ., Los Angeles. Atomic Energy Project	5-57
AECD-1181	Exposure of Mobile Homes and Emergency Vehicles to Nuclear Explosions	E. Shaw, F. McNea, Federal Civil Defense Administration, Washington, D. C.	7-57

CHEMISTRY

AECD-3723	The Structure and Properties of Artificial and Natural Graphite	T. Neubert, J. Royal, A. VanDyken, Argonne National Lab. Lemont, Ill.	6-30-55
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AECU-3436	The Kinetics of the Reaction of Sulfite and Bromate	F. Williamson, E. King, Wisconsin. Univ. Madison	[1957]
AECU-3558	Calculation of Parameters for Low Pressure Gas Liquefaction Cycles	H. McMahon, G. Golden, Little (Arthur D.) Inc., Cambridge, Mass	3-1-53
AECU-3564	The Theory of a Rotating Cylinder Viscometer in the Knudsen Pressure Regime	W. DeMarcus, Oak Ridge Gaseous Diffusion Plant, Tenn.	6-28-57
AERE-C/M-316	Apparatus for Semi-Micro Potentiometric Titrations	B. Robinson, Gt. Brit. Atomic Energy Research Est. Harwell, Berks, Eng.	8-57
AERE-C/M-323	The Determination of Sodium and Potassium in a Sample of Dunite by Radioactivation Analysis	L. Salmon, Same	7-57
AERE-C/M-324	U^{235} Thermal Fission Product Activities and Emission Powers Plotted Against Irradiation and Decay Times	E. Crouch Same	7-57
AERE-C/R-1900	The Solubility of Sulphates in Uranyl Sulphate Solutions. A Tentative Discussion	E. Glueckauf, Same	6-57
AERE-C/R-2178	The Separation and Estimation of Radioactivity Due to Fission Product Ruthenium	A. Fudge, J. Wood, M. Banham, Same	7-57
AERE-C/R-2223	The Monitoring of Effluent for Alpha Emitters. Part II. Methods for the Determination of Uranium, Polonium and Other Alpha Emitters	A. Smales, L. Airey, J. Woodward, et al.	6-50

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ERE-C/R-2294	The Determination of Radiostrontium in Effluent	B. Loveridge, A. Thomas, Gt. Brit. Atomic Energy Res. Est. Harwell, Berks, Eng.	6-57
ERE-C/R-2319	Nitrato Nitrosylruthenium Complexes and Their Extraction From Nitric Acid Systems by Tributyl Phosphate. Part II. Miniature Extractor Runs	G. Ashworth, P. Brown, J. Fletcher, et al. Same	7-57
ERE-C/R-2334	The Solubility of Radiolytic Gas in the Homogeneous Aqueous Reactor Core Solution	P. Davidge, Same	7-15-57
ERE-C/R-2386	The Preparation of Deuterium Sulphate	D. Glanville, Same	2-56
ERE-CE/M-200	Granular Clay for Ion Exchange Use in Effluent Disposal	J. Grover, Same	4-57
ERE-CE/R-1941	Further Development of "Spraypak" Distillation Column Packings	J. McWilliams, H. Pratt, F. Dell, Same	11-15-56
ERE-CE/R-1998	Transport and Chemical Control in the Dissolution of Metals in Mercury	J. Bennett, J. Lewis, Same	6-57
ERE-CE/R-2101	Liquid-Liquid Extraction. Part XIV. The Effect of Column Diameter Upon the Performance and Throughput of Pulsed Plate Columns	D. Logsdaill, J. Thornton, Same	7-57
ERE-CE/R-2105	Ultimate Disposal of Long Lived Fission Products. Part I. Pilot Plant Development	J. Grover, Same	11-27-56
ERE-EL/R-209	Density Determination of Uranium Pulp and Uranyl Solutions by Gamma Ray Absorption	F. Seymour, Same	7-57

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ERE HP/R- 583	A Note on the Beta Counting of U^{237} and Np^{239}	N. Stewart, Gt. Brit. Atomic Energy Res. Est. Harwell, Berks, Eng.	9-57
SWC-TR- 584	Thermodynamic Functions for Atomic Ions	H. Woolley, National Bureau of Standards, Washington, D. C.	4-57
SWC-TR-56-	Thermodynamic Properties of Highly Ionized Air	J. Hilsenrath, M. Green, C. Beckett, Same	4-57
4469	Chemistry Division, Section C-I Summary Report for January, February, and March 1950	D. Osborne, Argonne National Lab., Lemont, Ill.	6-7-50
4797	Chemistry Division, Section C-II Summary Report for July Through December 1951	J. Gilbreath, O. Simpson, Same	7-30-52
4943	Chemistry Division, Section C-I Quarterly Report [for] July, August, and September 1952	D. Osborne, Same	11-1-52
5750	The Thermochemical Properties of the Oxides, Fluorides, and Chlorides to 2500°K	A. Glassner, Same	
WAR-SL- 10	Selection of Optimum Fluorinating Agent for Fused-Salt Process	G. Goring, Same	12-26-56
RI-5316	Thermodynamic Properties of Titanium-Oxygen Solutions and Compounds	A. Mah, K. Kelley, N. Gellert, et al. Bureau of Mines	12-55

BML-268 (Doc)	Corrosion-Resistant Materials for Hydrofluoric Acid	H. Pray, F. Fink, B. Friedl, et al. Battelle Memorial Inst.	6-15-53
BML-1241	Comparison of Active and Inactive Uranium Dioxide-Oxygen Systems	D. Vaughan, J. Bridge, C. Schwartz Same	12-10-57
BML-1242	Evaluation of Container Materials for Zircex and Darex Nuclear-Fuel-Recovery Processes	P. Miller, C. Peterson, E. White, et al. Same	12-11-57
BNL-1091 (Doc)	Status of Radioactive Waste Processing and Accumulation in Presently Operating AEC Research and Production Sites	B. Manowitz, W. Rodger, Waste Processing Committee, AEC	4-5-51
CCC-1024-TR- 243	A Study of Neutron Absorptiometry and Its Application to The Determination of Boron	D. Deford, R. Braman, Northwestern Univ.	5-17-57
CCC-1024-TR- 256	Turmeric Paper Test for Boron	W. Powell, E. Poindexter, J. Hardcastle, Richmond, Va. Univ.	7-5-57
OCF-55-8-8	Heat Capacity of Composition No. 102	W. Powers, G. Blalock, Oak Ridge National Lab.	8-1-55
OCF-56-1-50	Pilot Plant Preparation of Thorium Oxide	W. Carr, Same	1-4-56
OCF-56-1-128	ANCO Progress Report for Month of January 1956	J. Drury, Same	1-27-56
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CF-56-1-142	Deuterium Explosion Hazard in HRT Underflow Pot	H. Weeren, Oak Ridge National Lab.	1-18-56
CF-56-3-52 (2)	25 Process: Removal of Uranium Oxide Particles from Caustic Dissolver Solution. Terminal Report	T. Arehart, C. Hancher, Same	3-12-56
CF-56-5-24	Concentrated Salt Solutions for Reactor Fuel Media or Heat Exchanger Fluids	C. Secoy, Same	5-4-56
CF-56-6-158	Purification of Scrap Uranium by Electrolysis	I. Higgins, Same	6-29-56
CF-56-8-167	Darex: HEP Design and Recommendations	C. Guthrie, Same	8-23-56
CF-56-10-41	Zircex: HEP Design and Recommendations	C. Guthrie, Same	10-8-56
CF-56-11-27	Thorex Pilot Plant: Bench Tests on Resin Sorption Columns for the New Uranium Isolation System	J. Walker, Same	11-8-56
CF-56-12-106	The Stabilization of Aqueous Thorium Nitrate Systems at 300°C with Sulfate	J. McBride, Same	12-26-56
CF-57-3-114 Rev. (Suppl. 1)	Section 9.0 to Status Report on the Disposal of Radioactive Wastes	F. Culler, Jr. Same	9-3-57
CF-57-6-89	Determination of Trace Amounts of Sulfur in Fluoride Salts	T. Gilbert, J. White, Same	6-24-57
C-109	The Distribution of Uranyl Nitrate and Nitric Acid Between a Saturated Aqueous Solution of Ammonium Nitrate and Triglycoldichloride	T. Hardwick, J. Hebert, National Research Council of Canada. Atomic Energy Project, Chalk River, Ont.	2-28-46

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DZ-1819	Effects of Nuclear Radiation on Cork, Leather, and Elastomers	C. DeZeih, Boeing Airplane Co., Seattle	6-25-57
HW-46366	Trip Report -- Consultation on Organic Reactor Coolants	J. Atwood, M. Cook P. Eddy	11-5-56
IDO-18004 (E.P.)	Idaho Chemical Processing Plant Design and Operations Manual for RALA Processing -- L Cell	Blaw-Knox Co. Chemical Plants Div., Idaho Falls, Idaho	11-1-55
UR-TN/CA-652	The Exchange of Deuterium Between Hydrogen Chloride and Water	O. Pugh, V. Labaton, Gt. Brit. Capenhurst Works, Capenhurst, Ches., Eng.	8-57
KAPL-1758	The Fast Oxide Breeder. Radiation Effects in Chemical Processing of Fast Oxide Breeder Fuel	S. Jones, Knolls Atomic Power Lab.	6-14-57
KAPL-1809	Belgian Symposium on Chemical Processing. II. Session: Aqueous Reprocessing. Application of Mixer-Settler to the Purex Process	J. Davidson, A. Schafer, Jr., W. Haas, Jr. Same	5-8-57
KAPL-1879	The Determination of Uranium in $\text{UO}_2\text{-Al}_2\text{O}_3$ Fuel Elements by X-Ray Emmission Spectrography	W. Moak, W. Pojasek, Same	9-16-57
KAPL-M-FAW-2	Induced Fission Counting of Fuel Discs	F. White, Same	10-26-48
KAPL-M-NEF-1	Preliminary Considerations of Phase Relations in Systems of Diphenyl with Terphenyls and Other Aromatic Hydrocarbons	N. French, L. Epstein, Same	9-1-56

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KAPL-M-SMS-67	Report on the Decontamination of KAPL 120 Loop	F. Steiner, 5-15-57 Knolls Atomic Power Lab., Schenectady, N. Y.
KLX-1226 (Del.)	Metal Nitrate Conversion--Project Summation. Period [covered] December 1951 - May 1952. Job 23-L	Vitro Corp. of 6-25-52 America, New York
LA-1079 (Del.)	Quantitative Separation of Americium and Plutonium Using Cupferron	J. Nigon, 3-8-50 R. Penneman, Los Alamos Scientific Lab., N. Mex.
OW-1405	The Reflectivity of Orange Oxides	B. Swinehart, 11-15-57 Mallinckrodt Chemical Works, St. Louis
SSMT- CPR-27 Feb 15, 1958	Quarterly Progress Report No. 27	Mass. Inst. of Tech., 1-15-58 Cambridge. Solid-State and Molecular Theory Group
WM-664	The Distillation of Polonium from Liquid Bismuth. Interim Report	R. Moshier, 2-1-52 S. Barth, Mound Lab., Miamisburg, Ohio
WLT-156(Del.)	Process Design Report -- 706-D Building	J. Weills, 8-1-46 Clinton Labs., Oak Ridge, Tenn.
WP-6331	Organo-Metallic and Organo-Metalloidal High Temperature Lubricants and Related Materials. Quarterly Progress Report for February 15, 1957 to May 15, 1957	H. Gilman, 1957 Iowa State Coll., Ames
WP-6354	Development of Thickeners for High Temperature Greases. Quarterly Progress Report No. 23 [for] January 10, 1957 to April 10, 1957	J. Goossens, 4-57 Standard Oil Co. of Indiana, Whiting

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NP-6356	Development of "Chain Type" Polyphenyl and Polynuclear Aromatic Compounds as Base Materials for High Temperature Stable and Radiation Resistant Lubricants and Hydraulic Fluids. Quarterly Progress Report No. 7 for April 15, 1957 - July 15, 1957	J. Schmidt, J. Krimmel, Denver Univ. Denver Res. Inst.	7-15-57
NP-6357	Engine Oil Development. Quarterly Progress Report No. 6 for Period February 1 through April 30, 1957	C. Mahoney, K. Sax, W. Kerlin, et al. Shell Development Co., Emeryville, Calif.	
NP-6363	Research on the Determination of the Stability of Jet Engine Fuels. Quarterly Progress Report No. 2 [for] December 1, 1956 through February 28, 1957	H. Minor, A. Nixon, R. Thorpe, Same	
NP-6366	Studies on Boron Hydrides. Final Technical Report of Investigations on Water-Reactive Chemical Compounds	A. Burg, University of Southern Calif. Los Angeles	6-57
NP-6380	The Direct Determination of Oxygen and Nitrogen in Titanium and Titanium Alloys Using Bromine Trifluoride. Final Report [for] Period June 28, 1956 to December 28, 1956	H. O'Neill, Illinois Inst. of Tech., Chicago. Armour Res. Foundation	1-23-57
NP-6386	Investigation of Fundamental Properties of Elements and Their Compounds Including the Rare Earths at Very Low Temperatures with Particular Emphasis Upon Superconductivity. Final Report	W. Ziegler, Georgia Inst. of Tech., Atlanta. Eng. Experiment Station	6-30-57
NP-6397	Research on Determination of the Stability of Jet Engine Fuels. Quarterly Progress Report No. 3 [for] period March 1 through May 31, 1957	H. Minor, A. Nixon, R. Thorpe, Shell Development Co., Emeryville, Calif.	
NP-6406	Nuclear Radiation Resistant Turbine Engine Lubricants. Quarterly Progress Report No. 5 [for] February 1 to May 1, 1957	A. Matuzak, Esso Res. and Eng. Co., Linden, N. J.	6-14-57

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| *NP-6424 | Research in High Temperature Bearing Lubrication in the Absence of Liquid Lubricants. Progress Report No. 8 for May 1957 through July 1957 | R. Coit,
S. Sorem,
Shell Development Co.,
Emeryville, Calif. |
| *NP-6429 | Cleaning Alkali Metal Systems with Liquid Ammonia. Memo 59 | W. Milich, 6-9-54
E. King,
Mine Safety Appliances Co.,
Callery, Penna. |
| *NP-6430 | The Effect of Nuclear Radiation on Structural Adhesives and Plastics. Bimonthly Report No. 1 [for] June 7, 1957 to August 15, 1957 | R. Mixer, 8-15-57
Stanford Res.
Inst. Menlo Park, Calif. |
| *NP-6431 | Effects of Radiation on Aircraft Lubricants and Fuels. Quarterly Report No. 6 [for] Period February 28 to May 31, 1957 | California Res. 5-31-57
Corp., Richmond, Calif. |
| *NP-6437 | Synthesis and Evaluation of High Temperature Stable and Nuclear Radiation Stable Metal-Cyclopentadienyl Fluids. Quarterly Progress Report No. 2 Covering Period June 1, 1957 to August 31, 1957 | Wyandotte Chemicals 9-57
Corp., Wyandotte, Mich. |
| *NP-6442 | Research of Fluorescence and Conductivity Phenomena. Quarterly Progress Report No. 1 for February, March, April [1957] | H. Kallmann, 7-57
New York Univ., New York |
| *NP-6443 | Development of High Temperature Oxidation-Corrosion Inhibitors to Improve Stability of High Temperature Hydraulic Fluids and Lubricants. Quarterly Progress Report No. 1 [for] March, April, and May 1957 | R. Brunier, 9-18-57
E. Schwoegler,
Illinois Inst. of Tech.,
Chicago. Armour Res. Foundation |
| *NP-6446 | The Correlation of Nucleate Boiling Burnout Data. Technical Report No. 9 | P. Griffith, 3-57
Mass. Inst. of Tech.,
Cambridge, Div. of
Industrial Cooperation |
| *NP-6451 | Research on Growing of Cadmium Sulfide Crystals for Dosimeter Purposes. Quarterly Report No. 1 for Period of April 17, 1957 to July 17, 1957 | W. Medcalf,
K. Bean,
J. Powderly,
Eagle-Picher Res. Lab.,
Mining and Smelting Div.,
Miami, Okla. |

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*NP-6452	Determination of the Relations Between Structure and Radiation Stability of Various Glasses of Alkyl-Aromatic Fluids. Quarterly Progress Report No. 1 (Park I) [for] July-September 1957	J. Schmidt, 9-57 Denver. Univ. Denver Res. Inst.
*NP-6454	Engine Oil Development. Quarterly Progress Report No. 7 for May 1 through July 31, 1957	C. Mahoney, K. Sax, W. Kerlin, et al. Shell Development Co., Emeryville, Calif.
*NYO-1005	Progress Report for December 1949	G. Williams, 8-56 S. Galginaitis, E. Baker, Jr. et al. Louisville, Ky. Univ. Inst. of Industrial Res.
*NYO-2048 (Del.)	Sulfuric Acid Extractive Distillation Process for the Recovery of Anhydrous Hydrofluoric Acid from By-Product Aqueous Hydrofluoric Acid. Preliminary Process Design and Economic Study	R. Legassie, 2-54 J. Termini, New Brunswick Lab. AEC, N. J.
*NYO-5049	Extract From "42-39 (UF ₄) Wet Process Green Salt (UF ₄) Brown Oxide (OU ₂) Process" Report No. 2	Mallinckrodt Chemical 3-30-44 Works, St. Louis,
*NYO-5071	Summary of Experiments on Phosphate Removal (from Ore Refinery Feeds).	J. Barnes, 12-21-44 Same
*NYO-5094	Changes in Extractors to Prevent Emulsions	H. Yeager, 3-27-45 Same
*NYO-5171	A Study of the Salting in of Barium and Lead Sulfates by Chemical AAA [Pitchblende] Liquors and Pure Uranyl Nitrate Solutions	T. Furnas, 2-28-46 A. Ruehle, Same
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*NYO-5223	The Shotgun Test	Mallinckrodt Chemical Works, St. Louis	4-1-48
*NYO-5250	Potassium Hydroxide Recovery from High Pressure Scrubber Wastes	T. Anderson, Same	10-51
*NYO-5258	A Report on the Use of a Hydrofluoric Acid Recovery System	W. Oppold, Same	[1957]
*ORNL-870 (Del.)	Chemistry Division Quarterly Progress Report for Period Ending September 30, 1950	Oak Ridge National Lab., (Tenn.)	3-1-51
*ORNL-1788 (Rev.)	Analytical Chemistry Division Semiannual Progress Report for Period Ending October 20, 1954	Oak Ridge National Lab., Tenn.	1-3-55
ORNL-2388	Chemical Technology Division. Progress Report on Raw Materials for July, 1957	K. Brown, C. Coleman, D. Crouse, et al. Same	1-9-58
ORNL-2409	Oxidation of Uranium Tetrafluoride in a Moving-Bed Reactor	H. Franz, R. Teye, Oak Ridge National Lab. (Tenn.)	1-10-58
RMO-4011	Recovery of Uranium from Chattanooga Shale. Quarterly Progress Report [for] March 1957	Columbia Univ., New York. Mineral Beneficiation Lab.	
*TID-5094 (Del.)	Research on the Radiation Stability of Organic Fluids. Summary Report [for] April 30, 1951 - May 30, 1952	California Research Corp., Richmond, Calif.	7-1-52
*TID-5148 (Del.)	Research on the Radiation Stability of Organic Fluids. Progress Report [for] January 1, 1953 through September 30, 1953	California Research Corp., Richmond, Calif.	10-30-53
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*TID-10156	Quarterly Progress Report for the Period Ending June 30, 1952	C. Rodden, New Brunswick Lab., AEC., N. J.	12-24-52
*TID-10162	Quarterly Progress Report for the Period Ending September 30, 1952	C. Rodden, Same	
*WADC-TR-56-230	Performance of Sandwich with Cores of Foamed Silicone and Modified Polyester Resins at Elevated Temperatures and at High Humidity	V. Setterholm, E. Kuenzi, Wright Air Development Center (Wright-Patterson AFB, Ohio.)	10-56
*WADC-TR-57-92	Expansion Characteristics of Marlex 20 and Marlex 50	H. Marcus, F. Zaleski, Same	3-13-57
*WADC-TR-57-406	The Oxidative Degradation of Large Molecules	H. Beachell, Deleware. Univ., Newark	7-57
*WAPD-ADC-115	Transport and Deposition Tracer Studies in a Static Autoclave	T. DeFail, Y. Solomon, B. Schultz, Westinghouse Electric Corp.	4-25-57
*WAPD-CTA(GLA)-170 (Rev. 1)	Determination of Nitrogen in Zirconium and Zirconium Base Alloys	G. Harter, A. Perrine, J. Rodgers Same	4-18-57
*WAPD-CTA-(GLA)-371	The Determination of Tin in Zirconium Base Alloys	T. Bryson, G. Goward, W. Perrine, et al. Same	4-18-57
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*WAPD-PWR-CP- 2079	High-Temperature Stability of Aqueous Solutions of Reagents that are Potentially Applicatory to PWR Decontamination Processes	H. Droll, Westinghouse Electric Corp. Bettis Plant, Pittsburgh	[1957?]
*WAPD-PWR-CP- 2164	Evaluation of Montmorillonite Clay for Use in Decontamination of PWR Radioactive Waste Liquors	R. Ehrenreich, Same	2-14-57
*WAPD-PWR-CP- 2673	Removal of Radioiodine from PWR Plant Container Air	A. Kesten, Same	1-28-57
*WAPD-T-29	A Hollow Cathode Discharge Tube and High Voltage Power Supply for Routine Spectrochemical Analysis	N. Gordon, Jr. H. Cook, Same	2-21-53
WIN-56	Amenability Testing of Ambrosia Lake District Ore	H. Dixon, H. Viklund, National Lead Co., Inc. Raw Materials Development Lab. Winchester, Mass.	1-2-58
WIN-79	Alkaline Leach. Filtration Pilot Plant Testing of Globe Mining Company Ore	G. Pitmon, G. Winslow, Same	10-18-57
*Y-163	Research and Development Division, Chemical Development Department Progress Report on Special Projects for the Month of April, 1948	Carbide and Carbon Chemicals Co. Y-12 Plant, Oak Ridge, Tenn.	5-6-48
*Y-585(Del.)	Y-12 Chemical Research Division Progress Report for January 1, 1950 to March 31, 1950	G. Clewett, Oak Ridge National Lab., Y-12 Area, Tenn.	4-20-50

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Y-1059 Analysis of Lithium Metal, Hydride, and Hydroxide. IV.
Photometric Determination of Copper

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R. Murdoch,
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D. Watt, 9-57
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APEX-347 Radiation Effects on the G-E Ceramic Vacuum Triode

J. Crittenden, 1-58
General Electric Co.
Aircraft Nuclear Propulsion
Dept., Cincinnati

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APEX-347	Radiation Effects on the G-E Ceramic Vacuum Triode	J. Crittenden, 1-58 General Electric Co. Aircraft Nuclear Propulsion Dept., Cincinnati
*DOFL-TR-452	The Effects of Short Duration Neutron Radiation on Semi-Conductor Devices	W. Behrens, 4-10-57 J. Shaul, Diamond Ordnance Fuze Labs., Washington, D. C.
*HARD(B)/P-24	Preliminary Investigations on the Properties of Thoria Slurries under Irradiation	J. Dawson, 11-27-56 K. Alcock, D. Chilton, et al. Gt. Brit. Atomic Energy Res. Est. Harwell, Berks, Eng.
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*WAPD-T-215	Prediction of Local and Average Heat Transfer Coefficients by Mass Transfer Technique for Parallel Flow Over Interrupted Flat Plates (Thesis)	J. Spiegel, Westinghouse Electric Corp. Atomic Power Div., Pittsburgh	1956
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*WAPD-TH-318	Effect of Dissolved Hydrogen on Burnout for Water-Flowing Vertically Upward in Round Tubes at 2000 PSIA	R. DeBortoli, R. Masnovi, Same	4-15-57

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*AECU-3471	A Comparison of Some Piezoelectric Ceramics	R. Barger, 2-1-57 J. Canfield, Sandia Corp., Albuquerque, N. Mex.
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*AERE-CE/M-197	Annealing of Copper Rings by Induction Heating	A. Kenyon, P. Lacey, Same	5-57
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*AERE-M/M-107 (Del.)	Some Observations on Uranium-Rich Uranium Ruthenium Alloys	J. Murray, S. Lloyd, Same	1-56
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*CF-52-8-148 (Chapt 9, Pt. I:)	Reactor Materials. Aluminum Engineering Data for Use in Reactor Design and Technology. Chapter 9, Part II	N. Ritchey, Oak Ridge School of Reactor Technology, Tenn.	4-8-53
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*AECU-3573	Some Calculations Pertaining to the Expected Operational Characteristics of a Small Ionization Chamber for S. A. R.	E. Goodale, 5-14-57 D. Morley, General Electric Co. General Eng. Lab., Schenectady, N. Y.
AERE-M/M-165	A Current Regulator to Facilitate Electrical Resistance Measurements at Low Temperature	M. Thompson, 6-57 Gt. Brit. Atomic Energy Res. Establishment, Harwell, Berks, Eng.
AERE-R/R-2345	The Measurement of the Moderating Properties of Dowtherm A.	T. Blackman, 8-57 J. Lakey, G. Preston. Same
*AERE-T/R-2138	The Influence of Conducting Walls on the Wriggling Gas Discharge. Part I. Walls of Infinite Conductivity	S. Roberts, 1-57 R. Tayler, Same
*AERE-T/R-2211	The Behaviour of a Flux of Neutrons in the Neighbourhood of a Control Plate	R. Royston, 3-57 Same
*BNL-3341	Bismuth Cross Sections	S. Oleksa, 9-55 Brookhaven National Lab., Upton, N. Y.
*BNL-3344	The Inelastic Scattering Cross Section of Bismuth	S. Oleksa, 1-54 B. Mozer, Same
*CF-56-7-61	Zirconium-95 as a Fission Monitor	W. Brooksbank, Jr. 7-17-56 Oak Ridge National Lab., Tenn.
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*CISE-57	Orientation on Neutron Detection by Rapid Mechanical Selection. (In Italian)	M. Forte, Centro Informazioni Studi Esperienze, Milan	4-5-57
INS-PT-2	Isotopic Spin and Strange Particles	G. Takeda, Tokyo. Univ. Inst. for Nuclear Study	12-1-57
KAPL-1828	An Alpha Counter for Uniformity Measurements	F. White, J. Sheffield, Knolls Atomic Power Lab.	7-1-57
*KAPL-M-CJH-3	Lost, a Cross-Section Averaging Program for the IBM 650	D. Hibbert, Same	[1955]
MISC-1958-5	Studies on the Nuclear Photoeffect. Notas De Física, Vol. 2, No. 13	M. de Souza Santos, J. Goldemberg, R. Pieroni, et al. Rio de Janeiro. Centro Brasileiro de Pesquisas Físicas	11-1-55
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*MURA-300	Stability Limits for the Non-Linear Resonances in a General Spiral Sector Accelerator	G. Parzen, Midwestern Universities Res. Assn., Madison, Wis.	6-9-57
*MURA-365	Theory of the $2\nu_Y - \nu_X = 0$ Non-Linear Resonance in Alternating Gradient Accelerators	G. Parzen, Same	9-26-57
NEVIS-55	The Interactions of 31 Mev Positive Pions in Deuterium (Thesis)	D. Koppel, Columbia Univ., Irvington-On-Hudson N.Y. Nevis Cyclotron Labs.	12-57
NEVIS-57	Experimental Determinations of the Δ^0 and Σ spins	F. Eisler, R. Plano, A. Prodel, Columbia Univ.	12-57
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*NP-6388	Special Course of Lectures on Nucleonic Circuitry, D. C. Amplifiers, Electrometers, and Modulated Amplifiers	[Gt. Brit. Atomic [1952?] Energy Res. Establishment, Harwell, Berks, Eng..]	
*NP-6389	Research Investigation Directed Toward Extending the Useful Range of the Electromagnetic Spectrum. Quarterly Progress Report No. 6 [for] March 16, 1957 through June 15, 1957	P. Kusch, Columbia Univ., New York. Columbia Radiation Lab.	6-15-57
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*NP-6401	Production of Radioisotopes with Charged Particles (Thesis)	H. Moeken, Amsterdam. Universiteit	7-57
*NP-6438	Seaplane Hull Bottom Neutron Activation Study. Bi-monthly Progress Report No. 1	L. Wehle, Jr., A. Sutton, Grumman Aircraft Eng. Corp. Bethpage, N. Y.	6-57
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*NRL-4941	Lectures on the Dispersion Relations in Meson Field Theory	R. Arnowitt, Naval Research Lab., Washington, D. C.	5-24-57
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ORNL-2403	A Square-Wave Cyclotron Oscillator	C. Goodman, Oak Ridge National Lab. (Tenn.)	1-10-58
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*SCTM-275-57- (14)	Theory of End-Loaded Monopole	C. Harrison, Jr. Same	10-8-57
TID-7541(Pt. 1)	AEC and Contractor Source and Special Materials Management Representatives Meeting. A conference Held at Washington, D.C. June 17 - 19, 1957	Division of Nuclear Materials Management, AEC	12-57
*TID-10073	Energy Spectrum of Neutrons from Thermal Neutron Fission of U^{235} and From an Untamped Multiplying Assembly of U^{235}	G. Frye, Jr., J. Gammel, L. Rosen Los Alamos Scientific Lab., N. Mex.	5-54
*WAPD-TM-18	Rates of Convergence in One-Dimensional Codes	E. Gelbard, Westinghouse Electric Corp. Bettis Plant, Pittsburgh	10-56
*WAPD-TM-67	Cross Sections in the Sofocate Code: Second Deck	H. Amster, Same	6-57
*WAPD-TM-71	Cell Calculations and Flux Approximations for Simple Slab Geometry	G. Simon, A. Gray, Same	7-57
*WAPD-TM-72	MUFT-4--Fast Neutron Spectrum Code for the IBM-704	H. Bohl, Jr., E. Gelbard, G. Ryan, Same	7-57
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AP-NM-58	Attenuation of Neutrons in Non-Scattering Absorbers	J. Stein, Westinghouse Electric Corp. Industrial Atomic Power Group, Pittsburgh	3-55

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OD-3769	Materials Testing Reactor Project. Coffins and Coffin Handling. Design Report No. 21	M. Paleczny, Argonne National Lab., Lemont, Ill.	12-5-49
OD-3770	Materials Testing Reactor Project. Addendum to Reactor Building Report. Design Report No. 26A	L. Link, R. Guzik, Same	11-17-49
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OD-3774	Materials Testing Reactor Project. Reactor Building. Design Report No. 26	R. Guzik, L. Link, Same	10-10-49
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AERE-R/R-2337	Experiments with Dido/Pluto Mock-Ups in Dimple	D. Hicks, Same	8-57
AERE-R/R-2340	Lido. The Engineering and Physics Design	H. McK. Hyder, J. Weale, A. Green, et al. Same	9-57
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ANL-5719	Hazard Summary Report. Experimental Breeder Reactor II (EBR-II).	L. Koch, H. Monson, D. Okrent, et al. Argonne National Lab.,	5-57
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*BNL-3339	Grey Control Rods for the LMFRE	J. Lamarsh, Brookhaven National Lab.	4-2-56
*BNL-3340	The Time Constant of the Moderator Temperature Coefficient in the LMFRE	J. Fleck, Same	3-22-56
*BNL-3345	Flux Distributions and Shielding Equipment for a Proposed LMFRE	K. Spinney, Same	3-14-56
*BNL-3346	Further Calculations on the LMFRE Shielding Requirements	K. Spinney, Same	5-8-56
*CF-53-10-25	Study of a Fused Salt Breeder Reactor for Power Production	D. Wehmeyer, J. Bara, Jr., D. Cockeram, et al. Oak Ridge School of Reactor Technology, Tenn.	9-53
*CF-55-11-94	Element After Heating	K. Henry, J. Anno, Oak Ridge National Lab.	11-11-55
*CF-56-3-16	Operation of In-Pile Loop L-4-5 (EE)	F. Walter, Same	3-2-56
*CF-56-5-126	Minutes of HRP Monthly Information Meeting, April 26, 1956	H. McDuffie, Oak Ridge Nat. Lab., Tenn.	5-3-56
*CF-56-6-56	Composition of Solids from HRT Mockup Pressurizer	D. Richardson, Same	6-8-56
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*CF-56-8-200	A Proposed Fuel Element Design to Facilitate Reprocessing by the Hermex Method	O. Dean, Oak Ridge National Lab., Tenn.	8-31-56
*CF-56-11-52	A Preliminary Economic Evaluation of Organic Moderated, Homogeneous Power Reactors	P. Kasten, Same	11-2-56
*CF-57-8-67	Modified HRT Refrigeration System	R. Robertson, H. McLain, Same	8-6-57
*CF-57-8-78	After Recombiners for the HRT	H. McLain, Same	8-15-57
*CF-57-9-50	HRT Iodine Removal Bed	E. Gift, Same	9-10-57
*CF-57-9-51	Preliminary Study Condensing Water Requirements and Effect of Water Temperature on Electrical Power Output HRE-3	R. Robertson, Same	9-16-57
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*CRL-44	The Development of NRX as a Research Reactor	D. Hurst, Atomic Energy of Canada Ltd. Chalk River Project, Chalk River Ont.	8-57
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DP-245	Power Reactor Studies. Quarterly Progress Report [for] May, June, and July 1957	DuPont de Nemours (E.I.) and Co. Savannah River Lab., Augusta, Ga.	9-57

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*HW-34811	Investigation of Ultrasonic Decontamination. Interim Report	R. Cortlett, J. Kolb,	1-28-55
*HW-44054	Organic Reactor Coolant Survey; Trip Report	J. Atwood, M. Cook, H. Hanthorn	7-9-56
*HW-50610	Automatic Cobalt Tester	K. Drumheller, C. Huck	6-6-57
*KAPL-M-AMS-7	Initial Isolation Valve Report; SAR Project. and Addendum No. 1	E. Hottenstein, Knolls Atomic Power Lab., (Schenectady, N. Y.)	10-15-54
*KAPL-M-DCS-2	Selection of a Low Neutron Activation Metal for Activation Wires	D. Sherman Same	5-18-56
*KAPL-M-DWJ-5	Airborne Activity From the Void Space Between the SAR Reactor Pressure Vessel and Inner Wall of the Primary Shield Tank	D. Johnson, Same	3-13-56
*KAPL-M-EDL-33	Calrod Insertion Forces	C. Ripley, Same	2-21-53
*KAPL-M-EDL-66	Liquid Metal Scraper Seal Materials Compatibility Test	P. Bissonnette, E. Reynolds, Same	2-25-54
*KAPL-M-EDL-71	SIR Freeze Seal Test II	R. Jacoby, P. Benson, Same	5-25-54
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*KAPL-M-ELW-3	r-0 Multigroup Analysis of the PPA-19	E. Wachspress, Knolls Atomic Power Lab., (Schenectady, N. Y.)	4-9-54
*KAPL-M-ELW-5	Nuclear Characteristics of a Three-Cylinder Moving Fuel Reactor	E. Wachspress, Same	12-29-54
*KAPL-M-GH-2	Gravitational Stresses in the Top Plate of the Matrix Bundle	G. Horvay, Same	10-13-50
*KAPL-M-MSN-4	Thermal Utilization in an Infinite Array of Plane Thermal Absorbers	M. Nelkin, Same	6-1-56
*KAPL-M-RCD-11	Hot Pressure Test on Mark A Poison Tube Header	W. Plant, Same	7-28-53
*KAPL-M-RCD-29	Removal of Perchloroethylene from Blind Access Holes by Use of Vacuum and Heat	M. Thiebaud, C. Donnelly, Same	[1954]
*KAPL-M-S3G- RES-23	Interchannel Mixing	J. Fraser, Same	4-12-56
*KAPL-M-SMS- 13	A Steady State Dynamic Analysis of the S3G/S4G Natural Circulation Steam Generator System	J. Westmoreland, Same	1-9-56
*KS-215(Del.)	Graphical Solution of the Equations for the Water-Tamped Water Boiler	R. Gwin, H. Henry, Carbide and Carbon Chemicals Co. K-25 Plant, Oak Ridge, Tenn.	7-25-51
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NAA-SR-2003	Electrical Analog Application to a Reactor Safety Device Program	C. Weeks, Atomics International, Div., North American Aviation, Inc., Canoga Park, Calif.	11-15-57
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*NP-6445	Physical Aspect of the Plan of a Research Reactor with Natural Uranium as Fuel and Heavy Water as Moderator and Coolant	W. Hafele, K. Meetz, Kernreaktor Bau-und Betriebs-Gesellschaft m.b.H., Karlsruhe, Germany	2-28-57
ORNL-2432	Homogeneous Reactor Project. Quarterly Progress Report for Period Ending October 31, 1957	Oak Ridge National Lab., (Tenn.)	1-21-58

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TID-7549(pt. 1)	Reactor Safety Conference, New York, October 31, 1957. Jointly Sponsored by American Nuclear Society, Atomic Industrial Forum, and Atomic Energy Commission	Technical Information Service, AEC
TID-10015	The Heavy Water Pressurized Power Reactor (CP-7)	S. Untermeyer, 4-7-52 Argonne National Lab., Lemont, Ill.
TID-10138	Pressurized Water Reactor Program Technical Progress Report for the Period December 30, 1954 to February 10, 1955	Westinghouse Electric Corp. Atomic Power Div., Pittsburgh
WAPD-C-171	Chemical Aspects of Reactor Control	Z. Shapiro, 10-27-53 R. Giffen, W. Lindsay, Jr., et al. Same
WAPD-CP-1505	Feasibility Study on a Shim Rod Facility Loop. Dynamic in-Pile Loop Corrosion Testing	A. Miller, 10-14-55 Same
WAPD-CTA-EL- 2112	PWR (Ease) Simulator Study. Series V (December 1955).	Z. Calhoun, Same
WAPD-MRP-44 (Rev.)	Pressurized Water Reactor Program Technical Progress Report for the Period March 1, 1954 to April 22, 1954	Same
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WAPD-NCE-3509	Specification for Helium Leak Testing of PWR Core Blanket Components-Process Specification AP-292542 (Rev. 3).	Westinghouse Electric Corp. Bettis Plant, Pittsburgh	[2-4-57]
WAPD-PA-169	Means to Prolong Flow Coastdown	T. Walker, Same	5-31-55
WAPD-PWR-CP-2245	Fission Product Activity Levels in PWR Primary Coolant and Reactor Plant Container Air	A. Kesten, W. Kindsay, Same	[7-11-56]
WAPD-PWR-CP-2541	Feasibility of High pH Coolant for PWR; Preliminary Report	W. Lindsay, Jr. Same	[1956]
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WAPD-PWR-CP-2995	Calculated Deposited Crud Activity in the PWR Primary System Due to Corrosion of Core Materials	F. Pement Same	4-23-57
WAPD-PWR-Ph-105	f, p, and e Measurements on 0.600 Inch Diameter, 1.3% Enriched, Low Density UO ₂ -Fueled TRX Lattices	Same A. Kranz, G. Smith	5-56
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WAPD-PWR-PMF-625	Lithium Resins for pH Control	Same	[2-6-57]
WAPD-PWR-PMF-593	The Effect of Reactor Coolant Leakage Into the PWR Boiler Water	D. McDonald, Same	[3-57]
WAPD-PWR-PMM-034	Fission Gas Pressures within PWR Core 1 Fuel Rods and Proposed PWR Core 2 Fuel Elements	Same	1-21-57
WAPD-PWR-PS-1672	Gamma Radiation Levels from Deposited Fission Products in the Primary System	R. Devine, Same	1-23-57
WAPD-PWR-RD-1177	Sizing of PWR Core 1 Blanket Orifices	P. Bickel, S. Cerni, Same	5-17-57
WAPD-PWR-RD-104	PWR Reactor Vessel (Back-up Seal Development Program)	P. Halpine, Same	1-22-57
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WAPD-T-388	Simulation of Hot Channel Boiling in Water Cooled Reactors	S. Johnson, N. Curlee, J. Reihling, Same	2-57
WAPD-T-389	Directional Property of Magnetic Saturation Utilized in Design of Position Indicator	P. Nissenson, Same	6-56
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UCRL-3687	UCRL Design Data of General Interest	W. Brobeck, D. Scalise	9-57
UCRL-3944	Correction of the Magnetic Field Gradient of the Bevatron with Pole-Face Windings	H. Heard	9-24-57
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