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UCRL-2873
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Radiation Laboratory

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Contract No. W-7405-eng-48

LIST OF UNCLASSIFIED REPORTS RECEIVED AND ISSUED IN THE UCRL
INFORMATION DIVISION DURING THE PERIOD FEBRUARY 1-15, 1955

February 15, 1955

Printed for the U.S. Atomic Energy Commission

LIST OF CODES FOR REPORT NUMBERS

ACCO -American Cyanamid Co.
AERE -Atomic Energy Research Establishment, Harwell, England
AFCRC -Air Force Cambridge Research Center
AMRL -Army Medical Research Lab., Fort Knox
ANL -Argonne National Lab.
ANP -Aircraft Nuclear Propulsion Project, Oak Ridge
APEX -General Electric Co., Aircraft Gas Turbine Div.
ASTIA -Armed Services Technical Information Agency
BM -Bureau of Mines
BM-II -Northwest Electrodevelopment Lab., Bureau of Mines,
Albany, Oregon
BMI -Battelle Memorial Institute
BNL -Brookhaven National Lab.
BRL -Ballistic Research Labs., Aberdeen Proving Grounds
CEA -Commissariat à l'Énergie Atomique, France
CEI, CRC, CRE, CRP, CRT and others
-Chalk River Project, Canada
CEPS -Commonwealth Edison Co.
CERN -European Council for Nuclear Research
CF -Oak Ridge National Lab., Central Files
CU -Columbia University
DC -General Electric Co., ANP Project
DOW -Dow Chemical Co.
DP -E. I. du Pont de Nemours and Co.
FMPC -National Lead Co. of Ohio
HW -Hanford Works, Richland, Wash.
ISC -Iowa State College
JENER -Jount Establishment for Nuclear Energy Research, Norway
K -Carbide and Carbon Chemicals Co., K-25 Plant
KAPL -Knolls Atomic Power Lab.
KLX -Vitro Corp. of America
LA, LADC, LAMS
-Los Alamos Scientific Lab.
LRL, LWS
-California Research and Development Co.
MIT -Massachusetts Institute of Technology
MLM -Mound Lab.
Monograph
-Bell Telephone System
MTA -California Research and Development Co.
NAA -North American Aviation, Inc.
NBS -National Bureau of Standards
NM -Naval Medical Research Institute
NRL -Naval Research Lab.
ONRL -Office of Naval Research, London
ORNL -Carbide and Carbon Chemicals Co., Oak Ridge National Lab.
PR -Chalk River Project, Canada

SEP -Sylvania Electric Products, Inc.
TEI, TEM -U. S. Dept. of Interior, Geological Survey
TID -Technical Information Service, Oak Ridge
UCLA -Univ. of California at Los Angeles
UR -Univ. of Rochester
USNRDL -U. S. Naval Radiological Defense Lab.
WAPD -Westinghouse Electric Corp., Atomic Power Division
Y -Carbide and Carbon Chemicals Co., Y-12 Plant

Many prefixes used for research and development reports cover a number of installations. NP("Non-Project") numbers are assigned by the Technical Information Service at Oak Ridge to those reports which it receives from sources not under contract to the Atomic Energy Commission. The UCRL Information Division gives "Misc" numbers to any others received here that do not bear an identifying number. Many reports are grouped together under numbers corresponding to an AEC division or operations office. Some of these are as follows:

CO, COO -Chicago Operations Office
IDO -Idaho Operations Office
NYO, NYOO -New York Operations Office
ORO -Oak Ridge Operations Office
RMO -Raw Materials Division
WASH -Atomic Energy Commission, Washington

In our semimonthly "List of Reports Received" the originating installation will be placed in the author column whenever the report code number does not indicate a specific laboratory, or is obsolete or not given in this list.

Two series of translations are currently received, one sponsored by the AEC (AEC-tr), the other by the National Science Foundation (NSF-tr).

LIST OF UNCLASSIFIED REPORTS RECEIVED AND ISSUED IN THE UCRL
INFORMATION DIVISION DURING THE PERIOD FEBRUARY 1-15, 1955

Radiation Laboratory, Department Of Physics
University of California, Berkeley, California

February 15, 1955

<u>Index Number</u>	<u>Title</u>	<u>Author</u>	<u>Date</u>
<u>BIOSCIENCES</u>			
*AECU-2972	Collection of Aerosol Particles in the Presence of Electrostatic Fields	H.F.Kraemer H.F.Johnstone Illinois Univ.	1954
*AECD-3445	Work in Progress At the Applied Fisheries Laboratory	Applied Fisheries Lab., Univ. of Wash.	1952
*AECD-3446	Radiobiological Survey of Bikini, Eniwetok, and Likiep Atolls; July - August 1949	same	7-12-50
AECU-221	Effect of Beryllium Compounds on Sewage Effluents and Streams	New York Univ. M.M.Luckens	1-49
*AECU-620	Personnel Protection Gamma Radiation Meter	Los Alamos R.J.Watts	1949
*AECU-1535	Cytologic Changes Following Intravenous Injection of Thorium Dioxide	W.R.Christensen S.C.Sommers Cancer Research Inst., New England Deaconess Hospital, Boston	
*AECU-2093	Some Aspects of the Physical Behavior of Aerosol Particles in the Atmosphere	W.E.Ranz H.F.Johnstone Illinois Univ.	5-5-52
*AECU-2630	Transfer of Radioactivity from Worker to Drone Honey Bees After Ingestion of Radioactive Sucrose	E.Oertle R.B.Emerson, et al Bureau of Entomology & Plant Quarantine Dept. of Agriculture	1953
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*AECU-2679	Content of Human Tissues in Eleven Trace Minerals. Progress Report	H.H.Mitchell Ill. Univ.	6-19-53
ALI-8	Qualitative Specifications for Animal Laboratories for Experimental Work With Radioactive Materials to Brookhaven National Laboratory	A.D.Little, Inc.	12-8-48
*AMRL-149	Early History of the Scintillation Counter, A New Tool in Radiobiological Research	A.T.Krebs	10-25-54
*BNL-2045	Chromosome Rejoining Capacity With Respect to Breakage Sensitivity to X-Rays and Thermal Neutrons	E.Deschner A.H.Sparrow	1954
*BNL-2071	Decrease in Uptake of Iron by Duck Erythrocytes in Vitro Following Whole-Body X-Irradiation	J.R.Klein	1954
IDO-16205	Gamma-Ray Dosage Rate Measurement	C.H.Hogg	11-22-54
LA-1835	General Handbook For Radiation Monitoring Second Edition	R.F.Barker	9-54
LA-1848	Studies on the Mechanism of Action of Thermal Neutrons in Producing Biological Effects. II. Comparative Effectiveness in Producing Intestinal Damage, Lethality, and Marrow Damage in Rats	J.B.Storer J.E.Furchner	9-54
LA-1851	Chelating Agents and Stability Constants	H.Foreman	6-54
MISC 1955-6	Test of "Fiberfrax" Ceramic Fibers for High Temperature Gas Filtration	M.W.First J.B.Graham G.M.Butler, et al Buffalo Forge Co.	1-3-55
*NAVORD-3803	A Wide Band Film Dosimeter	N.Modine Naval Ord. Lab.	9-20-54
*NP-5423	An Investigation of Samplers for the Collection and Classification of Radioactive Airborne Particulate Materials. Progress Report	Mine Safety Appliances Company	4-9-54

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*NYO-3343	Quarterly Progress Report for the Period January 1, 1954 to March 31, 1954, Bactericidal effects of Radiation and Dosimeter Development	B.E.Proctor S.A.Goldblith Mass. Inst. of Tech	4-1-54
*NYO-4006	Experimental Investigations Concerning Toxicity of Beryllium; Progress Report, Part I	Trudeau Foundation, Saranac Lake, N.Y.	3-15-52
ORO-132	A Summary of Findings of the Ecological Survey of White Oak Creek, Roane County, Tennessee, 1950 - 1953	L.A.Krumholz Tenn. Valley Authority	10-54
UR-307	A Radon Exposure Unit for Small Animals	D.A.Morke Rochester Univ.	1-13-55
*UR-365	On the Mechanism of Skeletal Fixation of Radium	W.F.Neuman J.B.Hursh E.S.Boyd, et al Atomic Energy Project Univ. of Rochester	11-16-54
USNRDL-TR-19	Performance During Exposure to Ionizing Radiation. Part I. Food and Water Consumption of Rats During Exposure to Gamma Radiation. Part II. A Conditioned Aversion Towards Saccharin Resulting From Exposure to Gamma Radiation	J.Garcia D.J.Kimeldorf, et al	11-12-54

CHEMISTRY

*AD-28908	Gas - Metal Systems. Seventh Annual Report. [For] October 1, 1952 - September 30, 1953	C.A.Zapffe Lab. of Carl A. Zapffe and Associates	1953
*AECD-2983	The Design and Development of a System for the Recovery and Purification of Hydrogen Fluoride From Hydrofluorination Waste Gases	R.H.Giffen Iowa State College	1947
*AECD-3196	The Mechanism of Extraction of Uranium by Tributyl Phosphate	R.L.Moore Hanford Works	

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*AECD-3540	An Experimental Method to Determine Equation of State Data for Solids by Shock Wave Measurements	R.H.Christian J.M.Walsh Los Alamos	
*AECD-3583	The pH Measurement of Uranyl Sulfate Solutions from 25° to 60° C.	E.Orban Mound Lab.	8-1-52
*AECD-3639	Equation of State of Water	J.M.Walsh M.H.Rice Los Alamos	1954
*AECD-3640	Preparation of Zirconium Metal	K.A.Walsh Ames Lab.	7-14-50
*AECU-13	Seal and Gasket Materials for Liquid Nitrogen	R.O.Hutchinson Carbide and Carbon Chemicals Corp. Y-12	9-22-48
*AECU-104	Report on Tantalum Carbide	R.E.Tate Fairchild Engine and Airplane Corp.	4-20-48
*AECU-453	Krypton; A Compendium of the Literature	F.E.McKenna Air Reduction Sales Co.	9-2-49
*AECU-565	Design of Radioactivity Laboratories	W.H.Ray Clinton Lab.	11-10-47
*AECU-584	Pyrolysis of Hexadecafluoroheptane	D.V.Walker J.D.Gibson Carbide and Carbon Chemicals Corp.,K-25	9-23-49
*AECU-601	Vapor Pressures of He ³ and of He ³ - He ⁴ Mixtures	D.W.Osborne B.M.Abraham B.Weinstock Argonne Nat'l Lab.	

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*AECU-1158	Bond Type and Stability	J.C.Hindman Argonne Nat'l Lab.	1-3-51
*AECU-2226	Design of Laboratories for Safe use of Radioisotopes	D.R.Ward Isotopes Div., Advisory Field Service Branch,AEC	
*AECU-2488	Ion-Exchange and Spectrophotometric Investigation of Iron (III)-Sulfate Complex Ions	R.A.Whitaker N.Davidson Gates and Crellin Labs. of Chem. Calif. Inst. of Tech.	1952
*AECU-2707	Viscosity Behavior of Polyelectrolytes	R.H.Wiley C.C.Ketterer Louisville Univ.	
*AECU-2853	Determination of the Alpha Counting Efficiency of Some Filter Papers	R.F.Barker Los Alamos	1953
*AECU-2876	Appearance Potential Studies. 2. Nitromethane	R.J.Kandel Los Alamos	1953
*AECU-2965	Automatic Instrumental Methods for the Determina- tion of Critical Solution Temperatures	J.R.Mosley C.A.Lucchesi R.H.Muller Los Alamos	1954
*AECU-2968	The Partial Phase Diagram of the System CaI_2 - CaF_2 .	W.J.McCreary Los Alamos	1954
*AECU-2971	A Reaction Rate Study of the Solution of Cuprite in Sulfuric Acid	M.E.Wadsworth D.R.Wadia Inst. for the Study of Rate Processes, Univ. of Utah	2-2-54

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*AECU-2974	Fundamental Research on Isotopic Reactions. Technical Report. Oxygen-18 Isotope Effect in The Reaction of Oxygen with Copper	R.B.Bernstein Mich. Univ.	12-54
*AECU-2978	The Reduction of Metals from Aqueous Solutions by High Temperature-High Pressure Techniques. 1. Cobalt Amine in Hydrogen	T.M.Kaneko W.M.Fassell, Jr., M.E.Wadsworth Inst. for the Study of Rate Processes Univ. of Utah	12-1-54
*AERE-M/R-606	Fabrication of Titania Dielectrics for Linear Accelerators	J.Billing P.Murray	11-50
*BM-OSRD-66	Retorting Chattanooga, Tennessee Oil Shale Entrained-Solids Retort Run 24-1235°F.	Bureau of Mines Fuel Tech. Div., Laramie, Wyo.	8-53
*BM-OSRD-68	Retorting Chattanooga, Tennessee Oil Shale Entrained-Solids Retort Run 26-1400°F.	same	12-53
*BM-OSRD-69	Retorting Chattanooga, Tennessee Oil Shale. Entrained- Solids Retort Run 38-1600°F.	same	1953
*BM-OSRD-70	Retorting Chattanooga, Tennessee Oil Shale. Entrained-Solids Retort Run 40-1715°F.	same	1-54
*CCC-1024-TR-76	Electrochemical Preparation of Boron	N.F.Murphy R.S.Tinsley G.F.Meenaghan Virginia Polytechnic Inst.	11-25-54
*ISC-444	Methods for Separating Rare Earth Elements in Quantity as Developed at Iowa State College	F.H.Spedding J.E.Powell Ames Lab.	1-25-54

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ISC-559	Determination of Fractional Part Per Million Amounts of Certain Rare Earths in Zirconium Metal Ion Exchange Separation-Spectrographic Determination	H.J.Hettel V.A.Fassel	12-30-54
K-1190	The Theory of Isotope Separation by Countercurrent Chemical Exchange	W.C.DeMarcus E.Von Halle	1-19-55
LA-1706	Fluorometric Determination of Uranium in Sulfuric Acid	K.S.Bergstresser	7-54
LA-1845	A Radiochemical Procedure for Thorium and its Application to the Determination of Ionium in Coral Limestone	H.A.Potratz	10-18-54
LA-1855	The Preparation of Methyl Beryllium Hydride	S.W.Rabideau H.D.Cowan J.F.Lemons, et al	11-54
*MDDC-1133	Note on the Determination of Lead in Pitchblende	T.R.Braddock G.L.Martin J.R.McCoy Mallinckrodt Chemical Works	7-46
MISC 1955-11	Some Studies of the Low and High Forms of BiO_2 and AlPO_4	F.H.Gillery Penn. State College	11-54
MIT-SSMT-QPR-15 1-15-55	Quarterly Progress Report No. 15		1-15-55
*MLCR-43	Investigation of Ion-Exchange Materials	J.C.Morris Harvard Univ.	10-54
*MLSR-2	Literature Survey on Toxicity of Boric Acid and Sodium Tetraborate (Borax)	A.M.Kunkel Chemical Corps Medical Labs., Army Chemical Center	9-50

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*NP-5414	Calibration of the Lilly-Anderson-Hervey Nitrogen Meter (With Special Reference to the Influence of Water Vapor and CO ₂).	N.P.V.Lundgren C.S.White W.M.Boothby Research Labs., Lovelace Foundation for Medical Education and Research, Albuquerque	3-54
*NP-5432	Lime Bonded and Stabilized with Titanium Oxide as a Refractory for Special Applications	R.L.Eichelberger Wyoming Univ.	3-24-54
*NP -5441	Fundamental Research in Organic Fluorine Chemistry Terminal Report [For the Period September 1, 1951 to August 31, 1954]	L.A.Bigelow Duke Univ.	1954
*NP-5442	Investigations of the Oxidation of Chromium and Nickel-Chromium Steels. Summary Technical Report	H.J.Yearian Purdue Univ.	6-54
*NRL-Memo-387	Thermal and Related Physical Properties of Molten Materials. Progress Report No. 10 [For] Period May 1 to July 31, 1954	B.E.Walker C.T.Ewing D.D.Williams	11-1-54
*NYO-591	The Adaption of Tracer Techniques to Mineral Engineering Problems	A.M.Gaudin Mass. Inst. of Tech	1-31-51
*NYO-1589	Hood Scrubber Unit for Perchloric Acid	L.Silverman M.W.First Air Cleaning Lab., Harvard Univ. School of Public Health	11-30-54
*NYO-3327	Utilization of Waste Fission Products in Chemical Reaction	W.A.Selke C.Kardys E.V.Sherry, et al Columbia Univ.	1-1-52
UCLA-321	The Determination of Triose Phosphate Isomerase	W.S.Beck	1-20-55
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*TAB-78	Thermodynamic Properties of Steam at Very High Pressure; Extrapolation of Published Data	D.H.Fax Oak Ridge Nat'l Lab., Y-12	8-2-50
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GEOSCIENCES

*AECU-2325	Final Report [On] Petrographic and Mineralogical Studies of Los Alamos, New Mexico Rock Samples Related to Waste Disposal	C.W.Beck Lovelace Foundation for Medical Education and Research, Albuquerque	9-5-52
*NF-5439	Routine Radiometric Analysis for Uranium in Ores	G.G.Eichholz Dept. of Mines and Tech. Surveys, Mines Branch (Canada)	11-9-54
*RME-70	Reconnaissance of the Lower Chinle Along the Colorado River Between the Moab and Dewey Bridges, Grand County, Utah	K.J.Rogers Grand Junction Operations Office, AEC	10-4-54
*RME-2010	Preliminary Report on Uranium Occurrence in the Austin Area, Lander County, Nevada	B.J.Sharp D.L.Hetland Div. of Raw Materials, AEC	5-54
RMO-2732	Progress Report Utilization of Florida Leached Zone Material January 1955	Tenn. Valley Authority	1-28-55

METALLURGY AND CERAMICS

*AD-28436	Development of a Coating, Pretreatment for Metals (Wash Primers). Report No. 4 [For] November 1, 1953 to December 31, 1953	F.Liberti M.Shor Vita-Var Corp.	
*AD-28641	The Frictional Properties of Titanium and Its Alloys. Progress Report No. 7 [For] January 1 to Feb. 28, 1954	E.Rabinowicz E. Kingsbury Lubrication Lab., Mass. Inst. of Tech.	3-1-54
*Microcards			

*AD-28819	The Influence of Surface Treatment on the Fatigue Properties of Titanium and Titanium Alloys. Progress Report No. 7	L.Thomassen M.J.Sinnott A.W.Demmler Jr. Eng. Research Inst. Univ. of Mich.	2-54
*AD-29006	Flash Welding 5/8" Diameter Round RC-130B Titanium Alloy	J.J.Duero Smith, A.O.Corp.	11-23-54
*AD-29007	Flash Welding Titanium All Alpha Alloy A-110, .230" Plate	J.J.Duero Smith, A.O.Corp.	10-30-53
*AD-31584	Non-Destructive Inspection of Adhesive Bonded Sheet Metal. Interim Monthly Progress Report No. 21, [For] March 1, 1954 - April 1, 1954	E.Niemann, Jr. General Eng. Lab. General Electric Co.	4-13-54
*AECD -3036	Creep-Rupture Tests of Beryllium	M.J.Manjoine Westinghouse Research Lab.	6-2-47
*AECD-3038	Short Time, High Temperature Tensile Tests of Beryllium	F.C.Hull Westinghouse Research Lab.	8-9-48
*AECU-2698	Gas Plated Coatings on Metals and Alloys. Progress Report	Commonwealth Eng. Co. of Ohio	4-14-53
*AECU-2699	Gas Plated Coatings on Metals and Alloys. Progress Report	same	5-11-53
*AECU-2976	An Investigation of Scaling of Zirconium at Elevated Temperatures. Quarterly Status Report No. 6 [For] September 2 to December 2, 1954	W.M.Baldwin, Jr. D.J.Garibotti H.M.Green Case Inst. of Tech,	12-7-54
*ATI-58193	Temperature Gradients in Uncoated and Coated Metal Specimens. Report No. 37	D.G.Bennett W.J.Plankenhorn R.G.Hicks Ill. Univ.	4-49
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*ATI-171112	Welding and Metallurgical Characteristics of Low Carbon, High Strength C.P. Titanium	E.F.Hutchinson A.J.Rosenberg Thomson Lab., General Electric Co.	6-2-51
BMI-970	Creep-Rupture Properties of 6061-T6 Aluminum Alloy at 450 and 500 F	H.A.Saller J.A.VanEcho J.T.Stacy	12-20-54
*EES-6C101730	Development and Test of a Performance Test for Use in Evaluating Penetrant Methods of Flaw Detection	R.W.Miller Naval Engineering Experiment Station, Annapolis	12-20-50
MISC-1955-9	The Effect of Gases on the Contact Potentials of Evaporated Metal Films	N.Hackerman E.H.Lee Texas Univ.	1-1-55
*NACA-RM-E50F22	Fabrication and Properties of Hot-Pressed Molybdenum Disilicide	R.A.Long Lewis Flight Propulsion Lab. NACA	8-24-50
*NACA-RM-E52A17	Preliminary Investigation of the Heat-Shock Resistant Properties of Molybdenum Disilicide Blades Under Centrifugal Load	R.A.Long J.C.Freche Lewis Flight Propulsion Lab., NACA	5-6-52
*NACA -RM-E-52B06	Some Factors Affecting Fabrication and High-Temperature Strength of Molybdenum Disilicide	W.A.Maxwell same	4-17-52
*NACA-RM-E52D09	Some Stress-Rupture and Creep Properties of Molybdenum Disilicide in the Range 1600 ^o to 2000 ^o F	W.A.Maxwell same	6-24-52
*NP-5433	The Influence of Oxygen on the Corrosion of Armco Iron and Type 347 Stainless Steel in 1000 ^o F Sodium	E.F.Batutis S.J.Rodgers J.W.Mausteller Mine Safety Appliances Co.	11-29-54
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*NP-5443	Effects of Impurities and Imperfections on Mechanical Properties of Metals. Technical Report No. 13	E.R.Parker J.Washburn Minerals Research Lab., Univ. of Calif.	11-54
*NP-5444	Decomposition of Eutectoids in Alloy Systems [thesis] Eighth Quarterly Status Report and First Interim Technical Report, September 1, 1953 to August 31, 1954	R.E.Pawel Tenn. Univ.	1954
NYO-3968	The Study of Diffusionless Phase Changes in Solid Metals and Alloys Final Report for the Period June 1, 1950 to August 31, 1954	D.S.Lieberman Columbia Univ.	8-31-54
ORO-134	Thermal Expansion of Some Glasses in the System of $\text{Li}_2\text{O}-\text{B}_2\text{O}_3-\text{SiO}_2$	J.H.Handwerk T.N.McVay Alabama Univ.	11-1-54
SO-2037	Twenty-fourth Quarterly Report (Progress Report Number 41) Fundamental Research in Physical Metallurgy	General Electric Research Lab.	1-5-55
*U-22916	The Manufacture of Titanium Alloys. Report No. 9— Final Report [For] August 3, 1950 to December 31, 1951	E.I.Larsen L.S.Busch, R.H.Dickinson, et al Mallory, P.R., and Co., Inc.	
*WADC-TR-54-17	Joining of Molybdenum	W.N.Platte Westinghouse Electric Corp.	1-54
*WADC-TR-54-112	Intermediate Temperature Creep and Rupture Behavior of Titanium and Titanium-Base Alloys	J.V.Gluck J.W.Freeman Eng. Research Inst., Univ. of Mich.	9-54
*WADC-TR-54-195	A Fundamental Study in the Principles Governing Seizing and Galling in Metals	E.S.Machlin W.R.Yankee R.Duncan, et al Columbia Univ., School of Mines	5-54
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*WADC-TR-54-244	Structural Changes of Commercial Titanium and Titanium-Base Alloys on Heat Treatment	D.W.Levinson W. Rostoker Armour Research Foundation	5-54
*WADC-TR-54-371	Investigations of Rhenium	C.T.Sims C.M.Craighead R.I.Jaffee Battelle Memorial Inst.	6-54
*WAL-401/65-37	Investigation of Galling and Friction Characteristics of Titanium Alloys. Final Report	E.W.Gaylord Carnegie Inst. of Tech.	10-31-54
*WAL-401/68-44	Damage of Titanium Under Repeated Load	R.G.Crum E.D'Appolonia Carnegie Inst. of Tech.	8-54
*WAL-401/84-41	Surface Hardening of Titanium with Metalloid Elements. Interim Technical Report [For] December 1, 1953 - May 31, 1954	A. Siede V.Pulsifer Armour Research Foundation	1954
*WAPD-MM-258	Report of the September 1953 Meeting of the Zirconium Alloy Corrosion Committee [Held at Argonne National Laboratory].	M.R.Achter Westinghouse Atomic Power Div.	11-24-53
*WAPD-MM-713	Report of October 1954 Meeting of the Zirconium Alloy Corrosion Committee [Held at Knolls Atomic Power Laboratory].	S.Kass	11-30-54

PHYSICS

*AD-18061	Rudiments of Good Circuit Design. Talk Delivered at the Electronic Components Symposium Pasadena, California, April 30, 1953. Report R-224.	N.H.Taylor Digital Computer Lab., Mass. Inst. of Tech.	5-19-53
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*AECD-3147	Proposed Measurement of the Neutron-Helium Scattering Cross Section and Angular Distribution Between 0.6 and 2.5 Mev.	H.Staub Los Alamos	1-12-44
*AECD-3165	File Neutron Physics (Lecture Notes); Chapter II. Second-Order Diffusion Theory	A.M.Weinberg L.C.Noderer Oak Ridge Nat'l Lab.	7-22-49
AEC-TR-1956	"Directed Valences with Shared f-Electrons"	M.G.Shirmazan M.E.Dyatkina Zhurnal Fizicheskoi Khimii, 27, No.4, pp491-494 (1953)	
*AECU-42	The Development of High Temperature Thermocouples	G.Steven R.M.Curcio W.C.Troy Armour Research Foundation NEPA Div. Fairchild Engine and Airplane Corp.	8-19-48
*AECU-185	Pulse Generator (Information Report).	P.E.Ohmart D.McKee Mound Lab.	3-28-49
*AECU -1159	Nuclear Physics Program of the Department of Physics; Progress Report; January 1, 1949, to November 1, 1949	Case Inst. of Tech.	
*AECU-1377	Criteria for the Continuity of a Linear Functional in the Real Hilbert Space and in Some More General Spaces	O.M.Nikodym Kenyon Coll.	
*AECU-2907	Development of the Modified Ohio State University Cyclotron. Final Report. Part 2	H.J.Hausman Research Foundation, Ohio State Univ.	6-2-54
*AECU-2963	Fundamental Research in Spectroscopy of Short Wavelength X-Rays and Gamma-Rays. Quarterly Progress Report for Period July 1 to September 30, 1953	J.W.M.Dumond Calif. Inst. of Tech.	1953
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*AECU-2964	The Spatial Distribution of Atoms in Liquid He ⁴	L.Goldstein J.Reekie Los Alamos	1954
*AERE-M/R-606	Fabrication of Titania Dielectrics for Linear Accelerators	J.Billing P.Murray	11-50
*BRL-Memo-819	A Survey of Magnetic Drum Memory Systems for Electronic Computers	M.H.Weik Ballistic Research Labs., Aberdeen Proving Ground	8-54
*CERN-PS/KJ-14	The Effect of Straight Sections of Different Lengths in a S. F. S.	K.Johnsen	1-22-53
*CERN-PS/KJ-16	Some Thoughts About Possible Methods to Compensate for Perturbations on the Free Oscillations Caused by Unavoidable Inhomogeneities	K.Johnsen	2-18-53
*CERN-PS/KJ-17	Some Numerical Data for Eight Different Alternatives of a Strong Focusing Synchrotron Having an Average Radius of 150 M and Giving 30 Ge V Protons	K.Johnsen	4-4-53
CVAC-198T	Air and Ground Scattering of CO ⁶⁰ Gamma Rays in a Shadow Shield Geometry	L.V.Woodruff J.W.Harris W.P.Kunkel	12-16-53
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*NP-5429	Quarterly Progress Report of Duke Microwave Laboratory. Report No. 7, August 1, 1954 - November 1, 1954	Duke Univ.	1954
*NP-5431	Apparatus for Measuring Mean Gap Length in Nuclear Emulsions	J.E.Hooper M. Scharff European Council for Nuclear Research	4-11-54
*NP-5434	Tables of Radial Solutions of the Dirac Equation for the Scattering of High Energy Electrons by a Point Charge	A.E.Glassgold E.W.Mack Lab. for Nuclear Science and Engineering Mass. Inst. of Tech.	8-31-54
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*NRL-4342	Pulse Synthesis by Networks	D.Kirk	11-12-54
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*AECD-3170	Material Limitations For Water Boiler	R.F.Christy Los Alamos	9-11-43
*AECD-3435	A Low Cost Experimental Neutron Chain Reactor; Part I	W.M.Breazeale Oak Ridge Nat'l Lab.	4-15-52
*MDDC-555	The Statistics of the Hypocritical Water Boiler	S.P.Frankel Los Alamos	1-8-44

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*AECU-23	Inventory of Stable Isotopes [For] November 1948	C.P.Keim H.W.Savage B.S.Weaver, C & CCC Y-12	11-8-48
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