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UNIVERSITY OF CALIFORNIA

Radiation Laboratory  
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LIST OF UNCLASSIFIED REPORTS RECEIVED AND ISSUED BY THE UCRL  
INFORMATION DIVISION DURING THE PERIOD OF MARCH 16-31, 1956

April 4, 1956

Printed for the U. S. Atomic Energy Commission

LIST OF CODES FOR REPORT NUMBERS

ACCO	-American Cyanimid Company
AEP	-Monsanto Chemical Company
AERE	-Gt. Brit. Atomic Energy Research Establishment, Harwell, Berks. England
ALCO	-American Locomotive Company
AMF	-American Machine & Foundry Co.
ANL	-Argonne National Laboratory
ANP	-Aircraft Nuclear Propulsion Project
APEX	-General Electric Company, ANP Project
ASTIA	-Armed Services Technical Information Agency, Dayton, Ohio
BAW	-Babcock & Wilcox
BDX	-Bendix Aviation Corp., Detroit
BMI	-Battelle Memorial Institute
BNL	-Brookhaven National Lab.
BRB	-Bridgeport Brass Company
BSC	-Bethlehem Steel Company
CENP	-Combustion Engineering, Inc.
CERN	-European Organization of Nuclear Research, Geneva
COO	-Chicago Operations Office
CU	-Columbia University
DCDE	-Atomic Power Development Associates
DLWK	-Duquense Light Co-Walter Kidde
DOW	-Dow Chemical Company
DP	-E.I. duPont de Nemour & Co.
FWE	-Foreign Weapons Effects
GAT	-Goodyear Atomic Corporation
GEAP	-General Electric Company
GEL	-General Electric Co., General Engineering Laboratory
HEC	-Hooker Electrochemical Co.
HO	-Hanford Operations Office
HW	-Hanford Works, Richland
IDO	-Idaho Operations Office
ISC	-Iowa State College
K	-Carbide and Carbon Chemicals Co. (K-25 Plant)
KAPL	-Knolls Atomic Power Laboratory
KLX	-The Vitro Corporation of America
KLXS	-Vitro Corporation of America (Study Group)
KY	-Carbide and Carbon Chemicals Co. (C-31 Plant)
LA&LAMS	-Los Alamos Scientific Lab.
MCW	-Mallinckrodt Chemical Works
MIT	-Massachusetts Inst. of Tech.
MLM	-Mound Laboratory
NAA-SR	-North American Aviation, Inc.
NBL	-New Brunswick Laboratory
NBS	-National Bureau of Standards
NEA	-Foster Wheeler-Pioneer Service
NLCO	-National Lead Company of Ohio
NMI	-Nuclear Metals Inc.
NNSD	-Newport News Shipbuilding and Dry Dock Co.
NPG	-Commonwealth Edison Co. (Nuclear Power Group)
NRL	-Naval Research Laboratory, Washington D.C.
NYO	-New York Operations Office
ORINS	-Oak Ridge Institute of Nuclear Studies

ORNL	-Carbide & Carbon Chemicals Co. (ORNL)
ORO	-Oak Ridge Operations Office
PWAC	-Pratt & Whitney Aircraft Division of the United Aircraft Corp.
RFP	-Rocky Flats Plant
RME	-Grand Junction Operations Office
RMO	-Division of Raw Materials
SAN	-San Francisco Operations Office
SC	-Sandia Corporation
SEP	-Sylvania Electric Products, Inc.
SFO	-Santa Fe Operations Office
SRO	-Savannah River Operations Office
SO	-Schenectady Operations Office
TEI(M)	-U. S. Geological Survey Trace Elements Reports
TID	-Technical Information Service
TVA	-Tennessee Valley Authority
UCLA	-University of California Medical Research Laboratory
UCRL	-University of California Radiation Laboratory
UR	-University of Rochester
USNRDL	-U.S. Naval Radiological Lab., San Francisco, Calif.
UWFL	-University of Washington Applied Fisheries Laboratory
WAPD	-Westinghouse Electric Corp., Bettis Plant
WASH	-AEC, Washington
WEC	-Westinghouse Electric Company Industrial Atomic Power Group
WIN	-National Lead Co., Inc. Winchester
WT	-Weapon Test Reports
Y	-Carbide and Carbon Chemicals Company (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 received 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 the 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 BY THE UCRL  
INFORMATION DIVISION DURING THE PERIOD OF MARCH 16-31, 1956

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

April 4, 1956

<u>Index Number</u>	<u>Title</u>	<u>Author</u>	<u>Date</u>
<u>BIOSCIENCES</u>			
*AECU-3140	Studies on the Experimental Pathology and Biochemistry of the Pulmonary Granulomatosis of Beryllium Workers. Section II. Consolidated Progress Report.	G.W.H.Schepers Trudeau Foundation Saranac Lake, N.Y.	4-25-55
*AF-SAM-55-45	Cataract Induced by Iodoacetic Acid. Preliminary Report.	P.A.Cibis W.K.Noell School of Aviation Medicine, Randolph AFB, Texas	4-55
HW-38757	Biological Effects of I <sup>131</sup> Chronically Administered to Sheep	L.K.Bustad L.A.George, Jr. S.Marks, et al.	12-27-55
ITR-1172	Evaluation of the Acute Inhalation Hazard From Radioactive Fall-Out Materials by Analysis of Results from Field Operations and Controlled Inhalation Studies in the Laboratory. Project 37.3 of Operation Teapot; Preliminary Report	G.V.Taplin O.M.Meredith, Jr. H.Kade Calif. Univ. Los Angeles	8-55
MISC 1956-58 V. 6-#1	Isotopics. Announcements of the Isotopes Extension, Division of Civilian Application. Vol 6 - No. 1	Oak Ridge Nat'l Lab.	1-56
MLM-976	The Effects of Cell Division Inhibition on Phosphorus Metabolism of Escherichia Coli	B.J.Katchman E.S.Spoerl H.E.Smith	5-24-54
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NYO-4474	Semi-Annual Report Covering the Period July 1, 1953 through December 31, 1953. Part I. Research.	Atomic Bomb Casualty Commission, Hiroshima	3-56
NYO-4475	Semi-Annual Report Covering Period January 1, 1954 through June 30, 1954. Part I. Research.	Same	3-56
NYO-4476	Semi-Annual Report Covering the Period July 1, 1954 through December 31, 1954 Part I. Research.	Same	3-56
NYO-4926	Effect of X-Irradiation on Rat Spleen Adenylate Kinase	E.M.Uyeki Western Reserve Univ.	1-31-56
PR-B-28	Progress Report for October 1, 1955 - December 31, 1955; Biology Division	Chalk River Project	
TID-8008	Isotopes in Agriculture	J.S.Butts	3-56
UR-430	The Metabolism of Polonium <sup>210</sup> Administered by Intratracheal Injection to the Rat	R.G.Thomas J.N.Stannard	3-20-56
UR-434	The Use of Vitamin Fortified Antibiotics in the Therapy of the Acute Radiation Syndrome in Dogs	S.M.Michaelson J.W.Howland J.M.Koszalka, et al.	3-15-56
USNRDL-TR-73	Hemodynamics of the Vascular Tree of the Isolated Rat Liver Preparation	R.W.Brauer G.F.Leong, et al	1-10-56

CHEMISTRY

*AD-48382	Lattice II. Quarterly Report No. 3 Covering the Period February 1, 1954 to April 30, 1954	E.Banks Brooklyn. Polytechnic Inst.	5-18-54
*AD-62517	Accommodation Coefficients and Thermal Conductivities of Hydrogen, Helium, Air and Argon for Chrome Surfaces at Reduced Pressures. Technical Report No. 1	R.E.Peck J.D.Lokay Illinois Inst. of Tech.	5-20-55
*AECD-3726	An Attempted Separation of Mercury Isotopes	W.Kauzmann Westinghouse	4-30-42
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AECD-3838 (Y-B31-336)	Clarity of Borated Water	H.P. House C.D. Susano Oak Ridge National Lab., Y-12	3-5-52
AECD-3923	Carbon 11 Tracer Experiments on the Fate of Displaced Carbon Atoms in Graphite	G.R. Hennig A.F. Kurs Argonne	6-29-51
*AECU-3142	Reaction of Graphite with Sodium	G.L. Montet Argonne	6-19-52
*AERE-G/M-145	Some Notes on an Attempt to Use T.T.A. in Conjunction with Chromatography for the Separation of Rare Earths	F.W. Cornish Gt. Brit. Atomic Energy Research Estab. Harwell, Berks. England.	6-4-52
*AF-TR-6519 (Pt. IV)	Materials for Handling Fuming Nitric Acid and Properties of Fuming Nitric Acid with Reference to its Thermal Stability. Conducted from April 1953 to March 1954.	M.G. Fontana Ohio State Univ.	5-55
*AGC-1229-6	Inorganic and Semi-Organic Polymers. Bimonthly Progress Report No. 6 for October 1 through November 30, 1955	C.L. Randolph Aerojet General Corp., Azusa, Calif.	12-5-55
ANL-5512	Light Transmittance as a Measure of Interfacial Area in Liquid-Liquid Dispersions	V.G. Trice, Jr. W.A. Rodger	1-56
CF-54-6-258	Physical Properties of $UO_2SO_4-D_2O$ Solutions and $ThO_2-H_2O$ Slurries	T.W. Leland	6-18-54
DOW-141	Progress Report for January - February, 1956	R.H. Bailes	3-1-56
*IGR-TN/W-264	A Low Background, Sensitive Phosphor for Burst Cartridge Detection in the Calder Reactors.	D.J. Skillings Gt. Brit. Windscale Works, Sellafield, Cumb., England.	10-26-55
KAPL-1443	Problems and Costs Encountered in the Handling of Irradiated Fuels	L.O. Sullivan	9-1-55
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KY-166	Low Flow Variable Leak	R. Millican Union Carbide Nuclear Co., Ky.	2-14-56
LA-1285	The Determination of Vanadium in the Presence of Plutonium	M. E. Smith	8-1-51
*MCC-1023-TR-169	Thermodynamic Data and Bond Energies for Some Boron Compounds. Final Technical Report	D. H. Pack G. R. Hill Utah Univ.	6-55
*MCC-1023-TR-170	Kinetics of Conversion of Diborane in an Infrared Cell. Final Technical Report for period ending June 30, 1955	J. R. Morrey D. G. Wilson D. H. Pack, et al Utah Univ.	6-55
*MCC-1023-TR-174	The Production of Reduced Boron Compounds and Boron Hydrides (thesis)	P. R. Ogle, Jr. Michigan State Univ., East Lansing	6-55
*MCC-1023-TR-177	The Sorption of Boron Compounds (thesis)	K. R. Lange Delaware Univ.	11-55
*MCC-1023-TR-178	Equilibria and Kinetics Among Substituted Diboranes. Final Report.	D. M. Ritter Washington Univ.	6-55
MF-59	The Effect of the Lime-Soda Softening Process on the Removal of Radioactive Strontium <sup>90</sup> -Yttrium <sup>90</sup> . (M. S. Thesis)	W. A. Hoyt North Carolina State Coll. Raleigh.	1952
MISC 1956-58 V. 6-#1	Isotopics. Announcements of the Isotopes Extension, Division of Civilian Application. Vol. 6 -No. 1	Oak Ridge Nat'l Lab., (Tenn.)	1-56
MISC 1956-82	The Development and Evaluation of Radiochemical Separation Procedures for Barium, Calcium, Strontium, Silver and Indium	D. N. Sunderman Michigan Univ.	2-22-56
MLM-1020	The Radioelectric Effect. II. Use of the Radioelectric Cell as a Measuring Instrument	J. H. Hutchinson G. R. Grove J. W. Heyd	12-2-54
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*NCSC-109	Scintillation Counter Gamma Ray Measurements	A.Waltner North Carolina State Coll., Raleigh	9-55
*NP-5842	Coordination Polymers. Bimonthly Progress Report No. 5 for August 1, 1955 to September 30, 1955	W.C.Fernelius N.R.Garofane D.E.Goldberg, et al. Penn. State Univ.	
*NP-5852	Borax and Mercaptobenzothiazole as Corrosion Inhibitors for Water. Pt. II.	E.H.Keller Du Pont de Nemours E.I. & Co.	2-10-44
*NP-5856	The Thermodynamic Properties of Molten Salts. Bimonthly Progress Report for October-November. Report No. 5	O.E.Myers Stanford Research Inst.	12-10-55
*NP-5857	Development and Evaluation of High Temperature Greases. Quarterly Progress Report No. 16. Parts I and II.	E.A.Swakon D.D.Krehbiel M.Z.Fainman, et al Standard Oil Co.	4-55
*NP-5861	Bulletin of Unpublished Thermal Data	E.F.Westrum, Jr. Michigan.Univ.	8-55
*NP-5865	The Spectrum of Xenon I. Spectroscopic Report No. 12	M.Thekaekara G.H.Dieke H.M.Crosswhite Johns Hopkins Univ.	12-55
NYO-3921	High Temperature and High Pressure X-Ray Studies of Uranium Hydride . Progress Report for March 17, 1955 to October 17, 1955	E.J.Goon T.R.P.Gibb, Jr. Tufts Univ.	10-17-55
ORNL-2026	Progress Report of Pilot Plant Section, Raw Materials Process Testing		3-55
ORNL-2034	Progress Report of Engineering Section, Raw Materials Process Testing		4-55

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ORNL-2040	Automatic Photometric Titration of Sulfate	F.J.Miller P.F.Thomason	3-15-56
RFP-55	The Optical Properties of Ten Metal Cupferrates	W.S.Turnley Dow Chemical Co.	2-56
RFP-56	Microscopic Qualitative Analysis Using Cupferron	W.S.Turnley Dow Chemical Co.	2-56

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*APEX-238	Report of Analysis of Pressure Drop Data for a Multiple Tube Configuration	R.C.Brubaker General Electric Co.	4-8-55
BNL-1578	Analysis of the Clean Bucklings of 1.3 per cent Enriched Uranium-Water Lattices	J.Chernick	4-6-53
CF-53-9-75	Fluid Flow Through a Spherical Vessel Containing Distributed Heat Sources	D.H.Fax	9-10-53
HW-39432	Operational Characteristics of Submerged Gas-Lift Circulators	M.W.Cook E.D.Waters	12-1-55
*NACA-TN-3600	Correlation of Crippling Strength of Plate Structures with Material Properties	Langley Aeronautical Lab.	1-56
*NEI-51	Notes on the Use of Dowtherm 'A' As a Reactor Coolant	J.Howieson Chalk River Project	4-21-55
*NP-5840	Progress Report No. 31 for October and November 1955	W.J.Posey Mine Safety Appliances Co.	12-12-55
*NP-5862	A Summary of Experiments and Analysis for Gas Flow Heat Transfer and Friction in Circular Tubes. Including a consideration of: a. Temperature Dependent Gas Properties. b. Influence of Entrance Length and Type of Entrance. c. Transition Region Behavior. Technical Report No. 22	W.M.Kays Stanford Univ.	6-30-54
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METALLURGY AND CERAMICS

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*AD-37740	High Purity Nickel Project. Final Report	S.R.Williams P.J.Clough Nat'l Research Corp., Cambridge, Mass.	3-29-54
*AD-68680	Fatigue and Static Properties of Welded Joints in Low Alloy Structural Steels. (Civil Engineering Studies. Structural Research Series No. 90)	G.E.Nordmark J.E.Stallmeyer W.H.Munse Illinois Univ.	1-14-55
AECD-3795	Studies of the Aluminum-Uranium Alloying Reaction	D.W.Bareis Brookhaven	12-15-49
AECD-3913	Final Report. Part II. Technical	L.Brooks G.T.Sermon United Carbon Products Co.	5-20-49
*AWRE-0-12/55	Theoretical and Practical Considerations of the Purification of Beryllium by Distillation	A.J.Martin Gt. Brit. Atomic Weapons Research Estab. Aldermaston, Berks. England	5-20-55
BMI-269	The Behavior of High-Temperature Alloys in Cracked-Ammonia Atmospheres	H.A.Pray R.S.Peoples G.L.Ericson	6-30-53
*HW-25206	Analytical Procedures for the Plutonium Metal Fabrication Process. VIII. The Carrier Concentration Method	L.F.Kendall	8-15-52
*HW-31928	Role of Surface Area in the Kinetics of Oxidation of Graphite	C.N.Spalaris	5-24-54
*IDO-16162	Dimensional Stability of Irradiated Thorium	J.B.Burnham M.H.Bartz	4-13-54
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MISC 1956-40	Thirty-Ninth Quarterly Report	Chicago. Univ.	12-55
MISC 1956-61	The Effect of Cold-Work on the Creep-Rupture Properties of a Series of Simple 18-8 Type Stainless Steels	F.B.Cuff, Jr. N.J.Grant Mass. Inst. of Tech.	2-56
MISC 1956-85	ARC-Case Molybdenum-Base Alloys; Summary Report	M.Semchyshen R.Q.Barr Climax Molybdenum Co.	1955
MISC 1956-86	An Investigation of Scaling of Zirconium at Elevated Temperatures. Quarterly Status Report No. 11 for December 2, 1955 to March 2, 1956	C.A.Barrett E.B.Evans W.M.Baldwin, Jr. Case Inst. of Tech.	3-13-56
MISC 1956-87	An Investigation of the Effects of Stress Concentration and Triaxiality on the Plastic Flow of Metals. Technical Report No. 34. Low Temperature Brittleness	A.W.Magnusson W.M.Baldwin, Jr. Case Inst. of Tech.	3-56
Monograph 2504	Low Magnetic Saturation Ferrites for Microwave Applications	L.G.Van Uitert	11-55
Monograph 2525	Restoration of Resistivity and Lifetime in Heat-Treated Germanium	R.A.Logan M.Schwartz	11-55
*NACA-TN-865	The Direct-Stress Fatigue Strength of 17S-T Aluminum Alloy Throughout the Range From 1/2 to 500,000,000 Cycles of Stress	E.C.Hartmann G.W.Stickley Aluminum Co. of America. Aluminum Research Labs., New Kensington, Penn.	4-23-42
*NACA-TN-3552	Investigation of the Compressive Strength and Creep Lifetime of 2024-T3 Aluminum-Alloy Plates at Elevated Temperatures	E.E.Mathauser W.D.Deveikis Langley Aeronautical Lab.	1-56
*NACA-TN-3556	Grain Boundary Behavior in Creep of Aluminum Bicrystals	F.N.Rhines W.E.Bond M.A.Kissel Carnegie Inst. of Tech.	4-15-54
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*NACA-TN-3596	On the Permeability of Porous Materials	E.C.Yates, Jr. 10-7-55 Langley Aeronautical Lab., Langley Field, Va.
*NEPA-IC-51-3-21	Fabrication and Properties of Beryllium Carbide	J.H.Coobs 3-51 Fairchild Engine and Airplane Corp.
*NOL-CORONA-143	Computing Machine Components Program. Quarterly Progress Report No. 6 for October - December 1953	Naval Ordnance Lab. 5-54
*NOL-CORONA-151	Computing Machine Components Program. Quarterly Progress Report No. 7 for January - March 1954	Same 2-55
*NOL-CORONA-252	Computing Machine Components Program Quarterly Report No. 8 for April - June 1954	Same 4-55
*NP-5837	Notch Sensitivity of the Weld Heat-Affected Zones of a 6% Al - 4% V Titanium Alloy. Final Report	E.F.Nippes 10-55 J.M.Gerken Rensselaer Polytechnic Inst., Troy, N.Y.
*NP-5838	Periodic Status Report No. 13 for August 1955 - October 1955. I. Mode of Deformation and Fracture Near the Melting Point. II. The Iron-Chromium-Nickel Ternary System. III. Sub-Structure Studies	N.J.Grant F.B.Cuff P.E.Price, et al Mass. Inst. of Tech.
*NP-5841	The Mechanism of Yielding. Final Report	D.S.Clark 9-55 D.S.Wood California Inst. of Tech.
*NP-5843	X-Ray Diffraction Studies of the Solid-Liquid Transition of Sodium Metal. Technical Report No. 3	B.A.Kulp 8-55 C.H.Shaw R.Speiser Ohio State Univ.
*NP-5846	Thermal Aspects of Galling of Dry Metallic Surfaces in Sliding Contact. Technical Report No. 5	E.Saibel 11-55 F.F.Ling Carnegie Inst. of Tech.
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*NP-5850	High Temperature Scaling of Ni-Cr, Fe-Cr, Cu-Cr and Cu-Mn Alloys. Third and Final Technical Report for March, 1955 to November, 1955 on Thermodynamics and Kinetics of Metals and Alloys	C.A.Barrett E.B.Evans W.M.Baldwin, Jr. Case Inst. of Tech.	12-55
*NP-5858	The Effect of Hydrogen on the Mechanical Properties of Titanium and Titanium Alloys and Control of Hydrogen in Titanium and Titanium Alloys. Quarterly Progress Report No. 2	G.A.Lenning L.W.Berger W.M.Albrecht, et al Battelle Memorial Inst.	9-15-55
*NP-5864	The Effect of Brittle Skins on the Ductility of Metals. Technical Report No. 33 on the Effects of Stress Concentration and Triaxiality on the Plastic Flow of Metals	G.W.Form W.M.Baldwin, Jr. Case Inst. of Tech.	12-55
*NP-5866	The Investigation of Thermal and Electrical Properties of Metals at High Temperature. Final Report	R.B.Sawyer Lehigh Univ.	12-31-55
NYO-7175	The Adaptation of New Research Techniques to Mineral Engineering Problems	Mass. Inst. of Tech.	1-31-56
NYO-7292	Radiation Damage in Solids as Observed by Ultrasonic Attenuation and Velocity Measurements. January 1 1955 December 31, 1955	R.Truell Brown Univ.	1-56
*SEP-6	The Development of Uniform Distributions of Uranium in Beryllium by Means of Powder Metallurgy	R.P.Angier H.H.Hausner	10-29-48

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AD-71506	Final Report on P-N Junctions and Their Photoelectric Properties for Period of 15 June 1954 to 14 June 1955	Sprague Electrical Co.	
AEC-tr-2382	Excited States of Nucleons, by I.I.Gurevich. Trans. from Akademia Nauk, SSSR. Doklady <u>105</u> , 69-72 (1955) March, 1956		
AEC-tr-2383	Phase Analysis of Proton-Proton Scattering, by A.Simin. Trans. from Akademia Nauk, SSSR. Doklady <u>105</u> , 73-6 (1955). March 1956		
*Microcards			

AEC-tr-2386	Angular Distribution of Fragments in Uranium <sup>238</sup> Fission Induced by Neutrons of Various Energies, by A.A. Varfolomeev, A.S.Romantseva and V.M.Kutukova. Trans. from Akademia Nauk, SSSR. Doklady <u>105</u> , 693-5 (1955) March, 1956	
AECD-3979	The Effect of Gaps on Pile Reactivity	S.Tamor 7-14-52 Oak Ridge Nat'l Lab.
ANL-5472	Neutron-Induced Discomposition of Graphite	T.J.Neubert 1-56 M.Burton R.C.Hirt, et al
ANL-5523	Beta Gamma Directional Correlation in Re <sup>186</sup>	T.B.Novey 2-56 M.S.Freedman F.T.Porter, et al
*ARL/R3/E600	Atmospheric Attenuation of Infra-Red and Visible Radiation	Gt. Brit. Admiralty 12-48 Research Lab., Teddington, Middlesex, England.
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BNL-1795	The Solution of Reactor Integral Equations by Relaxation Methods	J.Chernick 3-29-54
CERN 56-1	The Design of the CERN Synchro-Cyclotron Control System	P.Debraine 1-15-56 M.Lazanski G.Boyadjian
CERN-PS/RH 9	Stability of Two-Dimensional Non-Linear Oscillations with Periodical Hamiltonian; Applied to the Non-Linear Betatron Oscillations of an Alternating-Gradient Synchrotron	11-55
CF-54-4-182	Reactivity Effects of Non-Uniform Density Changes in HRT	V.K.Pare' 4-26-54
CF-54-9-97	Calculation of Fermi Ages for ThO <sub>2</sub> -Heavy Water Slurries	M.Tobias 9-14-54

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CF-3599	The Critical Size of a Cylindrical Pile Having a Vertical Temperature Gradient	R.J.Finkelstein Argonne Nat'l Lab 8-19-46
DP-64	Neutron Energy Spectra in Water	H.D.Brown 2-56
*IDO-16226	Neutron Absorption Cross Section of Pa <sup>233</sup>	R.R.Smith 10-27-55 T.O.Passell S.D.Reeder, et al
*IDO-16251	Method for Making Measurements in the RMF	J.W.Webster 6-25-54
*IGR-TN/CA-251	A Capacitance Level Gauge	E.F.Davidson 9-13-55 Gt. Brit. Capenhurst Works, Capenhurst, Ches., England.
KAPL-1469	Averages of Thermal Cross Sections for Hydrogen-Moderated Assemblies	P.F.Zweifel 1-1-56 C.D.Petrie
MISC 1956-45	A Possible Method of Measuring Magnetic Moments of V Particles	M.Goldhaber 1-23-56 Brookhaven Nat'l Lab.
MISC 1956-76	The Plasma of High Intensity Ion Sources	C.B.Mills Curtiss-Wright Corp
MISC 1956-78 (Translation)	An Effective Potential for the Pion-Nucleon Interaction, by V.R.Velibekov and V.A.Meshcheryakov. Trans. from Akademiia Nauk, SSSR. Doklady <u>105</u> , 951-4 (1955)	
MISC 1956-79 (Translation)	Paramagnetic and Diamagnetic Resonance of Conduction Electrons, by Ya. G. Dorfman. Trans. from Akademiia Nauk, SSSR. Doklady <u>81</u> , 765-6 (1951)	
MISC 1956-80	The Binding Energy of Tritium Hyperfragments	D.M.Haskin 1956 T.Bowen R.G.Glasser, et al Chicago Univ.
MISC 1956-81	Cascade Backward-Wave Amplifier with Drift Tube or Third Helix Transducer. Series No. 60 Issue No. 153	H.R.Jory 12-5-55 Calif. Univ.
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MISC 1956-84	A Simple Mechanical Calculator for Solving Transmission Line Equations. Technical Report No. 25	K.R.MacKenzie Calif. Univ.L.A.	
Monograph 2368	Trapping of Minority Carriers in Silicon	J.A.Hornbeck J.R.Haynes	1-15-55
Monograph 2523	Search for the Hall Effect in a Superconductor. II. Theory	H.W.Lewis	10-15-55
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NAA-SR-1452	Solid State Physics Quarterly Progress Report April-June, 1955	D.Bowen	3-15-56
NAA-SR-1464	Theory of the Magnetic Susceptibility of Graphite; the Variation with Temperature, Bromination and Neutron Damage	J.E.Hove Same	3-15-56
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UCRL-3274	Tables of K-Meson Scattering by Protons	J.A.Baker K.Curtis	1-31-56
UCRL-3281	Experiments on Interference and Polarization in Nucleon Scattering (Thesis)	D.L.Fischer	2-7-56
UCRL-3286	New Isotopes: $\text{Er}^{172}$ and $\text{Tm}^{172}(1)$	D.R.Nethaway M.C.Michel W.E.Nervik	2-9-56

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