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LIST OF UNCLASSIFIED REPORTS RECEIVED AND ISSUED BY THE UCRL INFORMATION DIVISION DURING THE PERIOD OF FEBRUARY 1-15, 1956

February 16, 1956

Printed for the U. S. Atomic Energy Commission

LIST OF CODES FOR REPORT NUMBERS

ACCO	-American Cyanimid Company
AEP	-Monsanto Chemical Company
ALCO	-American Locomotive Company
AMF	-American Machine & Foundry Co.
ANL	-Argonne National Laboratory
ANP	-Aircraft Nuclear Propulsion Project
APEX	-General Electric Company, ANP Project
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.
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 deNemour & 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)
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
UWFL	-University of Washington Applied Fisheries Laboratory
WAPD	-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 FEBRUARY 1-15, 1956

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

February 16, 1956

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	BIOSCIENCES		
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HW-38218 Rev	A Study of the Effectiveness of Decontaminating Agents on Contaminated Protective Clothing	J. L. Norwood	7-29-55
MIT-RLE-TR-300	An Analog Correlator System for Brain Potentials. Technical Report 300	J. S. Barlow R. M. Brown	7-14-55
MLM-1057	The Effects of Injected Actinium Equilibrium Mixture on Rats and Mice	W. P. Jolley D. Roesch, R. Horne, et al.	6-15-55
NAA-SR-1458	Energy Deposition in Tissue by Neutrons of Various Energies and the $B^{10}(n, \alpha)$ Li Reaction	M. A. Greenfield	11-1-55
NRL-4680	A Portable Reader for DT-60 Dosimeters	J. C. Schaffert Naval Research Lab.	1-3-56
NYO-4654	Sanitary Engineering Aspects of Long-Range Fallout from Nuclear Detonations (Thesis)	Carlos G. Bell, Jr. Harvard Univ.	1-55

ORNL-2013	Neutron Scattering	J. W. Cure, III	1-30-56
TID-8002	Facility Design Utilizing Gamma Radiation for Meat Pasteurization	L. E. Brownell J. J. Bulmer J. V. Nehemias	1-56
UCLA-359	Endogenous Histamine Excretion in the Rat as Influenced by X-ray Irradiation and Compound 48/80	J. L. Leitch V. Debley T. J. Haley	1-30-56

CHEMISTRY

AERE C/M 260	An Apparatus for the Disposal of Fluorine on a Laboratory Scale	G. Long Gt. Brit. At. En. Res. Est. Harwell, Berks. England	10-55
AERE C/R 1501	The Isolation and Determination of Protactinium-233	A. J. Fudge J. L. Woodhead same	8-55
AERE C/R 1502	The Determination of Radioactivity Due to Fission Product Niobium	A. J. Fudge same	12-8-54
AERE C/R 1631	The Spectrographic Analysis of Alpha-Active Materials by the Copper Spark Method	F. T. Birks same	9-16-55
AERE C/R 1732	A Spectrographic Absolute Determination of the Natural Abundance Ratio of the Lithium Isotopes	R. P. Thorne same	7-25-55
AERE C/R 1755	Determination of Strontium in Sea Water Using Both Radioactive and Stable Isotopes	R. W. Hummel A. A. Smales, same	10-20-55
AERE C/R 1757	A Quartz Fibre Ultra Microbalance for Use Inside an Evacuated Container	W. P. Hutchinson same	10-7-55

AERE C/R 1783	An Experimental Investigation of the Motion of Ions Near the Surface of a Polarized Anion Exchange Membrane	A. C. Littlejohn Gt. Brit. At. Eng. Res. Est. Harwell Berks. England	10-26-55
AERE-Lib/Trans-567	On Geometrical Methods of Quantitative Mineralogical Analysis of Rocks, by A. A. Glagolev. Trans. from Instituta Prikladnoi Mineralogii. Trudy no. 59, 1933.	same	
ANL-WMM-1140	The Composition of Plutonium, Americium, and Curium Resulting from Irradiation of Am^{241} in a High Neutron Flux	P. Fields M. A. Weiss	2-20-53
BMI-1064	Vapor Pressures of the Sodium Fluoride-Zirconium Fluoride System and Derived Information	K. A. Sense R. E. Bowman R. W. Stone, et al.	1-9-56
DOW-119	Proposed HCl Recovery System, Salt Lake City Pilot Plant	J. F. Valle-Riestra	8-20-54
DP-142	A Survey Meter with an Extended Probe	C. E. Flanagan, Jr R. T. Nowak	12-55
DP-145	A Monitor for Low-Level Radioactivity in Liquid Streams	E. C. Wingfield P. R. Liller	1-56
HW-40142	The Promotion of Chemical Reaction by Pile Radiation Final Report Production Test 105-504-E	R. W. Woodley	11-22-55
HW-40285	Polarography: Efficient Removal of Dissolved Oxygen	K. Koyama C. E. Michelson	11-17-55
ISC-682	Separation of Hafnium from Zirconium Using Tributyl Phosphate	R. P. Cox G. H. Beyer	12-23-55

JENER-39	A Fast Neutron Detector	K. Skarsvåg Jt. Est. for Nuclear Energy Kjeller, Norway	12-55
MF-56 (microfilm)	An Investigation of Certain Physical Properties of Ammonium Amalgan. (Thesis)	M. J. Boehm Mich. State Univ.	1955
MISC-1956-11 (Translation)	Use of an Inhomogeneous Magnetic Field as a Means of Increasing the Resolving power of the Mass-Spectrometer, by N. E. Alekseevsky, G. P. Prudkovsky, G. I. Kosourov and S. I. Filimonov. Trans. from Akademiia Nauk, SSSR. Doklady 100, 229-232 (1955)		
MISC-1956-12 (Translation)	(3-3) Ammonia Absorption Line as a Standard for the Measurement of Frequency in the 5-20 MC Region with an Accuracy of 10^{-6}, by B. D. Osipov and A. M. Prokhorov. Trans. from Akademiia Nauk, SSSR. Doklady 102, 933-4 (1955).		
MISC-1956-14 (Translation)	Mass-Spectrometer Study Under Operating Conditions of the Gases Contained in Electron Devices with Oxide Cathodes, by N. D. Morgulis and G. Ya. Pikus. Trans. from Akademiia Nauk, SSSR. Doklady 102, 1103-6 (1955)		
MLM-995	A Process for the Semimicro Preparation of Elemental Lanthanum by Reduction of Lanthanum Bromide or Chloride by Potassium Vapor	W. H. Power G. L. Fox J. B. Otto, Jr	7-30-54
NBS-Cir-562	Bibliography of Research on Deuterium and Tritium Compounds, 1945 to 1952	L. M. Brown, A. S. Friedman C. W. Beckett	1-27-56
*NRL-4536	Some Factors Affecting the Decomposition of Hydrazine in Liquid Ammonia.	J. P. Redmond J. A. Krynitsky Naval Res. Lab.	4-11-55

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NRL-4679	The Determination of Arsenic in Steel by X-Ray Fluorescence	M.B. Cavanagh Naval Research Lab.	12-21-55
*NYO-1323	A Report on the Filtration of Pitchblende Digest Slurry on an Oliver Continuous Vacuum Rotary Precoat Filter.	W.G. Weber Mallinckrodt Chem. Works	
*NYO-1326	Equilibrium Liquid and Vapor Composition in the System $HF-SO_2$.	E.G. Schmieding J.W. Stevenson same	
*NYO-5079	The Manometer System on the Hydrogen Fluoride Storage Tanks.	E. Miller same	2-5-45
*NYO-5131	Freezing Point of AAA[Pitchblende] Ore.	O.J. Buckheim same	7-19-45
*NYO-5191	Comments on Plant 6 [Ore Refinery] Inventory Sampling.	F.L. Epelley same	8-1-46
ORNL-1962	The Production of C^{14} by the Be_3N_2 Process	R.P. Shields	2-1-56
ORNL-2002	Narrative Status Report; Raw Materials Chemistry Section, November 11, 1955		2-1-56
ORNL-2028	Stable Isotopes Research and Production Division Semi-annual Progress Report for Period Ending November 20, 1955	C.P. Keim	2-7-56
ORNL-2031	Application of the Beckman Model K Automatic Titrator to the Potentiometric Determination of Uranium	C.D. Susano J.S. Decker	
*ORO-146	Electromotive Force Measurements of Cell Reactions in Fused Salt Solvents. Annual Report	D.G. Hill A.S. Gillespie, Jr. Duke Univ.	9-15-54

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*PRL-5.16	Fluids, Lubricants, Fuels and Related Materials. Quarterly Report No. 3 for July, August, and September 1955.	Penn. State Univ.	9-30-55
*RM-1551(RAND)	Approximate Values for the Continuous Absorption Coefficients of Air Between 2 and 600 Volts.	F. R. Gilmore A. L. Latter RAND Corp.	8-24-55
*RMO-2032	Leached Zone-Preliminary Data for Alternate Processes.	R. F. McCullough R. Bart International Min. and Chem. Corp.	9-13-54
*RMO-2039	Leached Zone--Digestion with Miscellaneous Reagents.	J. H. Gross J. B. Adams R. Bart same	2-28-55
RMO-2519	The Electrolytic Recovery of Uranium and Vanadium from Carbon Leach Liquors by Means of Ion Exchange Membranes	J. Saunders Rohm and Haas	4-6-53
*TID-5259	Microdetermination of Tin in Zirconium-Base Alloys	F. E. Huber, D. L. Chase E. J. Center Battelle Mem. Inst.	1-31-52
*USNRDL-TR-62	Flame Photometric Determination of Na, K, Ca, Mg, and Sr in Sea Water.	M. Honma Naval Radiological Defense Lab., S.F.	9-15-55
* WADC-PR-55-1	Preparation of Polymers from Halogen-Substituted Olefin and Diene Nonmers. [Progress Report for July to October 1955.]	J. T. Barr, Jr. H. Iserson F. E. Lawlor Penn. Salt Mfg. Co.	10-55

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*WADC-TR-52-5 (Suppl. 2)	High Strength Epon Laminates.	F.C. Hopper Shell Dev. Co.	3-54
*WADC-TR-52-5 (Suppl. 3)	High Strength Epon Laminates.	F.C. Hopper same	4-55
*WADC-TR-54-45	Composite Spectrophotometric Procedures for the Analysis of Low-Alloy Steels and of Aluminum Alloys	S.B. Simmons Wright Air Dev. Ohio	2-55
*WADC-TR-54-185 (Pt. II)	Thermal and Related Physical Properties of Molten Materials. Part II. High Temperature Reaction of Sodium Hydroxide	D.D. Williams R.R. Miller Naval Res. Lab.	2-55
*WADC-TR-54-601	A Modified Adiabatic Calorimeter.	M.W. Belaga D. Coddington H. Marcus Wright Air Dev.	3-55
*WADC-TR-55-26 (Pt. II)	Research on Boron Polymers. Part II. Polymer Studies. Conducted from June 1953 through November 1954.	W.L. Ruigh C.E. Erickson F. Gunderloy et al Rutgers Univ.	5-55
*WADC-Tr-55-102 (Pt. 2)	Grease Lubrication of High Speed Anti-Friction Bearings. Report for the Period January 1 through August 31, 1955.	J.B. Accinelli C.R. Greene Shell Dev. Co.	10-55
*WAL-120/73-1	Methods of Separation of Total Rare Earths in Low-Alloy Constructional Steels. Final Technical Report.	W.A. Dupraw Ill. Inst. of Tech.	11-2-55
*WASH-596	International Cooperation Visit [Of Peter Victor Danckwerts, U.K. Atomic Energy Authority to Oak Ridge National Laboratory, October 31 and November 1, 1955] Under Staff Paper No. AEC 852/32.	S.R. Sapirie Oak Ridge Op. Office, AEC	11-18-55

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*WIS-ONR-16	Applications of High-Speed Computing to Chemical Problems.	J. O. Hirschfelder Wisc. Univ.	8-17-55
*WSL/M-181A (Prov.)	The Fluorimetric Determination of Uranium: Analytical Method.	C. J. Riley Gt. Brit. Windscale Works, England	11-16-54
*Y-1096	A Continuous Water Monitor for Detecting PPM Quantities of Alkali Metals	J. F. Been	6-20-55
*Y-1114	A Pneumatically Operated Vacuum Lock for Mass Spectrometers with Glass Envelopes	H. S. Corey, III	10-12-55
*55-RL-1260	Arc Melting in High Vacuum.	P. C. Rossin Gen. Elec. Co. Res. Lab. N. Y.	3-55

ENGINEERING

AERE Inf/Bib. 93 (3rd Edition)	Electromagnetic Pumps and Flowmeters (A Bibliography of Literature References and Readily Available Reports)	M. Greenhill Gt. Brit. Atomic En. Res. Est. Harwell, England	1955
BMI-1065	Burnout Heat Flux in a Rectangular Channel	D. A. Dingre H. M. Epstein J. W. Chastain et al. Battelle Me. Inst.	1-10-56
CERN-PS/AED 4	Measurements on the Site	European Org. for Nuclear Res. Geneva.	12-55
Monograph 2515	Micromachining with Virtual Electrodes	A. Uhlir, Jr. Bell Tele Labs.	10-55

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ORNL-2010	Temperature Distribution in Flat Plate with Exponential Heat Source	F. T. Binford M. L. Nelson Oak Ridge Nat. Lab.	2-1-56
*WADC-TR-53-288 (Pt. 6)	Heat Transfer and Frictional Effects in Laminar Boundary Layers. Part 6. Effect of Variable Properties.	R. N. Thurston A. N. Tifford Ohio State Univ.	9-53
*WADC-TR-54-66	Heat-Transfer Fluids for Aircraft-Equipment Cooling Systems. [Period cover] December 1952 to January 1954.	C. J. Geankoplis W. B. Kay, A. W. Lemmon et al. same	2-54
*WADC-TR-55-102 (Pt. 2)	Grease Lubrication of High Speed Anti-Friction Bearings. Report for the Period January 1 through August 31, 1955.	J. B. Accinelli C. R. Greene Shell Dev. Co.	10-55

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*RME-73	Summary of Airborne Radiometric Surveying in the Kaiparowits Plateau Area, Kane County, Utah.	G. E. Klosterman	7-20-54
*RME-75(Pt. 1)	Drilling at Dripping Springs, Emery County, Utah.	D. N. Hinckley J. H. Volgamore W. J. Potter	1-55
*RME-76(Pt. 1)	Color Changes and Uranium Deposits of the Upper Morrison Formation Northeast Flank of the Zuni Uplift, New Mexico.	T. A. Konigsmark	1-5-55
*RME-80(Pt. 1)	Wagon Drilling in the Skull Creek Area, Moffat County, Colorado	W. D. McDougald	4-55

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*RME-1044	Reconnaissance for Uranium in the South Central Part of Colorado.	L. J. Brown R. C. Malan Div. of Raw Materials. Denver	6-1-54
*RME-1059	Results of an Airborne Reconnaissance for Uranium in Southeastern and South Central Colorado.	L. J. Brown W. Easton same	4-7-55
*RME-2021	Summary of Airborne Reconnaissance in the Little Rocky Mountains, Montana.	O. M. Hart E. Lovejoy Div. of Raw Materials Salt Lake	12-54
*RME-2024	Airborne Reconnaissance Project, Green River Basin, Wyoming. Interim Report.	D. N. Magleby R. J. Meehan same	1-55
*RME-2027	Airborne Reconnaissance: West-Central Utah Project-1954.	R. J. Meehan N. S. Mallory same	2-55
*RME-2032 (Pt. 1)	Uranium Occurrence at the Moonlight Mine Humboldt County, Nevada.	B. J. Sharp same	3-55
*RME-3105	Some Statistical Problems of Uranium Exploration. Final Technical Report.	M. R. Mickey, Jr H. W. Jespersen, Jr Iowa State College	9-8-54
*RME-3113	Buffalo Creek Monazite Placer, Cleveland and Lincoln Counties, North Carolina.	R. F. Griffith W. C. Overstreet Bur. of Mines and Geological Survey.	1-53

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*RME-3119	Interpretation and Evaluation of the Uranium Occurrences Near Goodsprings, Nevada. Final Report	P. B. Barton, Jr C. H. Behre, Jr Columbia Univ.	12-31-54
*RME-4054	Airborne Radiometric Surveying in Grand, San Juan, Emery, and Wayne Counties, Utah and Montrose County, Colorado.	A. L. Nash	10-3-53
*TEI-336A	Reconnaissance During 1952 From Uranium-Bearing Carbonaceous Rocks in Parts of Colorado, Utah, Idaho and Wyoming.	J. D. Vine, R. F. Flege, Jr Geo. Survey	6-53
*TEI-479	Radioactivity of Part of the Bituminous Coal Region of Pennsylvania.	E. D. Patterson same	11-54
*TEM-917	Reconnaissance Examination of the Uranium Deposits Northeast of Winston, Broadwater County, Montana.	G. E. Becraft same	4-55

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AERE-Lib/Trans-555	The Corrosion of Iron by Benzene Solutions of Iodine, by L. G. Gindin and M. V. Pavlova. Trans. from Zhurnal Prikladnoi Khimii 24, 1151-5 (1954).	Gt. Brit. At. En. Res. Es. Harwell, Eng.	
AERE-Lib/Trans-602	The Effect of Holes in a Crystal Lattice on the Electrical Resistance of a Metal, by B. G. Lazarev and O. N. Ovcharenko. Trans. from Akademiia Nauk, SSSR. Doklady 100, 875-8 (1955).	same	
AERE-M/R 1769	Liquid Immiscibility in Metal Systems	B. W. Mott same	10-3-55
ANL-5501	Neutron Diffraction Studies of Hafnium-Hydrogen and Titanium-Hydrogen Systems	S. S. Sidhu LeRoy Heaton D. D. Zauberis	1-56

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HW-39539	Macroetching of Irradiated Uranium	G. R. Mallett	10-17-55
HW-40494	A Model of Mechanical Behavior Evaluated with Creep Tests applied to Alpha Uranium	K. R. Merckx	11-17-55
MISC 1956-35	Titanium Program, Project TB4 - 15 (Subtask 1), Twentieth Quarterly Progress Report, October 1 to December 31, 1955.	Bureau of Mines Electrometallurgical Exp. Station, Nevada	
*NRL-4545	Effect of Temperature on the Ductility of High-Strength Structural Steels Loaded in the Presence of Sharp Cracks.	P. P. Puzak W. S. Pellini Naval Res. Lab.	5-6-55
*NRL-4597	Hot Cracking of Stainless Steel Weldments.	P. P. Puzak W. R. Apblett W. S. Pellini same	7-12-55
*NRL-4623	X-Ray-Diffraction Studies of the Bainite Transformation in Four Alloy Steels.	L. S. Birks R. T. Seal same	8-22-55
NYO-7298	Fundamental Studies of the Mechanism of Radiation Damage. Technical Report No. 1	R. Chang Rutgers Univ.	12-31-55
ORNL-1945	Solid State Division Semiannual Progress Report for Period Ending August 30, 1955	Oak Ridge Nat. Lab.	1-30-56
ORNL-2008	The Mass-Transfer Properties of Various Metals and Alloys in Liquid Lead	J. V. Cathcart W. D. Manly same	2-1-56
*TID-5259	Microdetermination of Tin in Zirconium-Base Alloys.	F. E. Huber D. L. Chase E. J. Center Battelle Me. Inst.	1-31-52

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TID-8004	Gamma Radiography of Metal Castings at Sandia Laboratory	L. D. Patterson	1-56
*TML-7	Survey of the Problem of Delayed Cracking in Formed Titanium Parts.	R. I. Jaffee D. J. Maykuth Battelle Me. Inst.	6-20-55
*TML-15	The Engineering Properties of Commercial Titanium Alloys.	M. W. Mote, Jr P. D. Frost same	9-22-55
*TML-18	Analysis and Laboratory Examination of Aircraft Parts which Failed by Delayed Cracking.	H. A. Robinson P. D. Frost same	10-17-55
*TML-19	A General Summary of the Physical Metallurgy of Titanium Alloys.	R. I. Jaffee same	10-18-55
*TML-20	The Effects of Carbon, Oxygen, and Nitrogen on the Mechanical Properties of Titanium and Titanium Alloys.	H. R. Ogden R. I. Jaffee same	10-19-55
*TML-21	The Diffusion of Interstitial and Substitutional Elements in Titanium.	J. E. Reynolds R. I. Jaffee same	10-24-55
*USBM-U-3	Distribution of Impurity Elements in Bureau of Mines Zirconium Sponge. Report No. 4 Covering period November 10, 1953 to June 30, 1954.	D. D. Harper Northwest Electro-dev. Lab. Oreg.	11-54
*WADC-TR-53-41 (Suppl. 1)	Constitution of Titanium Alloy Systems. Supplement 1. [Period Covered February 1953 to September 1954.]	D. W. Levinson D. J. McPherson W. Rostoker Ill. Inst. of Tech. Chicago.	9-54

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*WADC-TR-53-287	Study of the Systems TiC-SiC-B_4C and TiC-VC-ZrC.	O. E. Accountius R. F. Stoops H E. Konrad, et al. Ohio State Univ.	3-55
*WADC-TR-53-308 (Pt. II)	Density and Viscosity of Molten Materials. Part II. Application of Hoeppler, Andrade, and Piezoelectric Crystal Viscometers for Viscosity Measurement. [Period covered] January 1952-August 1953.	J. W. Sausville Cinn. Univ.	2-55
*WADC-TR-53-457	Molybdenum Disilicide Coating for Graphite.	J. F. Lynch J. A. Slyh W. H. Duckworth Battelle Me. Inst.	9-54
*WADC-TR-53-477	Surface Treatment of Metals for Adhesive Bonding [Final Summary Report.]	R. S. Shane T. L. Eriksson A. Korczak, et al. Wyandotte Chem. Corp.	9-54
*WADC-TR-54-33	Preliminary Miscropic Studies of Cermets at High Temperatures. [Period covered] September 1952 to September 1953.	E. T. Montgomery T. S. Shevlin H. M. Greenhouse, et al. Ohio State Univ.	4-55
*WADC-TR-54-38	Metal and Self-Bonded Silicon Carbide. [Summary Report for] January 11, 1953 to January 10, 1954.	R. A. Alliegro L. B. Coffin J. R. Tinklepaugh New York State Univ.	1-54
*WADC-TR-54-38 (Pt. 2)	Metal and Self-Bonded Silicon Carbide. [Summary Report for] January 11, 1954 to December 29, 1954.	R. E. Wilson L. B. Coffin J. R. Tinkelpaugh same	1-55

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*WADC-TR-54-101 (Pt. 2)	Studies of Phase Relationships and Transformation Processes of Titanium-Alloy Systems. [Period covered] January 11, 1954 through October 11, 1954.	D. J. McPherson W. Rostoker Ill. Inst. of Tech.	4-55
*WADC-TR-54-175 (Pt. 1)	Notch Sensitivity of Heat-Resistant Alloys at Elevated Temperatures. Part I. Preliminary Studies of the Influence of Relaxation and Metallurgical Variables.	H. R. Voorhees J. W. Freeman Mich. Univ.	8-54
*WADC-TR-54-185 (Pt. II)	Thermal and Related Physical Properties of Molten Materials. Part II. High Temperature Reaction of Sodium Hydroxide	D. D. Williams R. R. Miller Naval Res. Lab.	2-55
*WADC-TR-54-305 (Pt. II)	Handbook on Titanium.	H. K. Adenstedt Avco Mfg. Corp.	9-55
*WADC-TR-54-414	The Pressure-Carbonization of Carbon Bonded Silicon Carbide-Graphite for use in Uncooled Rocket Nozzles.	T. L. Charland J. R. Tinklepaugh B. R. Goss New York State Univ.	4-55
*WADC-TR-54-485 (Pt. II)	Electrodeposition of Titanium. [Period covered] July-December 1954.	W. E. Reid, Jr C. A. Gaudette A. Brenner National Bureau of Standards	4-55
*WADC-TR-54-487	The Effect of Grain Size on the Mechanical Properties of Titanium and Its Alloys. [Summary Report covering the period from March 18, 1953 through June 30, 1954.]	F. C. Holden H. R. Ogden R. I. Jaffee Battelle Mem. Inst. Ohio	3-55
*WADC-TR-54-492	Oxidation-Resistant Coatings for Molybdenum. [Summary Report for December 1950-December 1954.]	J. R. Blanchard Climax Molyb. Co. of Mich.	12-54

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*WADC-TR-55-5	Tensile Properties and Rheotropic Behavior of Titanium Alloys and Molybdenum. Conducted from August 1953 to February 1955.	E. J. Ripling Case Inst.	5-55
*WADC-TR-55-22	Oxidation Resistant Brazing Alloys. [Period covered June 30, 1953 to December 31, 1954.]	G. H. Sistare, Jr A. S. McDonald Handy and Harman Bridgeport, Conn.	4-55
*WADC-TR-55-23	Development of Wrought and Cast Alloys for High Temperature Applications.	R. R. MacFarlane R. S. DeFries E. E. Reynolds et al. Allegheny Ludlum Steel Corp.	4-55
*WADC-TR-55-96	Development of Molybdenum Nozzle Blades.	D. V. Doane Climax Molybdenum Co. of Mich.	4-55
*WADC-TR-55-111	Tensile Deformation of Molybdenum as a Function of Temperature and Strain Rate.	R. P. Carreker, Jr R. W. Guard Gen. Elec. Co.	1-55
*WADC-TR-55-212	The Effect of Elevated Temperature on the Fatigue Strength of Sintered-Aluminum Powder. Period Covered January 15, 1953 to May 15, 1955.	W. S. Hyler H. R. Grover Battelle Me. Inst.	8-55

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*WAL-401/143-11	Corrosion and Passivity Studies of Titanium. Final Technical Report [for] July 1, 1952-September 30, 1955.	H. E. Farnsworth R. E. Schlier T. H. George Brown Univ.	9-30-55
*WAL-401/149-20	The Influence of Oxygen on the Transformation Characteristics of Some Titanium-Molybdenum Alloys. Final Technical Report.	G. L. Kehl A. E. Riccardo Columbia Univ.	10-31-55
*WAL-401/203-5	Development of Titanium-Base Alloys of High Strength and Toughness. Interim Technical Report No. 4 for September 1 to December 31, 1954.	C. R. Lillie Ill. Inst. of Tech.	8-2-55
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*WAL-401/237	Evaluation of a Molybdenum Boride Cutting Tool in Turning Titanium Alloy Ti 150A.	E. DiCesare Watertown Arsenal	6-9-55
*WAL-401/241	True Stress-True Strain Properties of Titanium and Titanium Alloys.	E. Kula F. R. Larson same	9-2-55
*WAL-401/245	Metallographic Identification and Crystal Symmetry of Titanium Hydride. (First Partial Report on Hydrogen in Titanium).	L. D. Jaffe same	11-17-54
*WAPD-SFR-FF-192	Tensile and Impact Test Results on Irradiated Boron-Stainless Steel.	J. J. Lombardo West. Elec. Corp.	6-28-55

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CERN-55-26	Angular Momentum in Quantum Mechanics	A. R. Edmonds European Org. for Nuclear Res. Geneva.	11-15-55
HW-38682	A Single Transistor High Voltage Supply	W. G. Spear	1-1-56
IDO-16105	Fuel Burnup Determinations by Gamma-Ray Scanning	S. G. Forbes W. E. Nyer	10-16-53
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KAPL-1415	One-Space-Dimensional Multigroup for the IBM 650 Part I. Equations	G. J. Habetler	12-1-55
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Monograph 2514	Electrical Conductivity and Seebeck Effect in $Ni_{0.80}Fe_{2.20}O_4$	F. J. Morin T. H. Geballe same	7-15-55

Monograph 2527	A Regenerative Binary Storage Tube	R. W. Sears Bell Telephone	10-15-55
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*NRL-4608	Theory of the Optically Focused Synchrotron. [Interim Report].	D. C. dePackh Naval Res. Lab.	8-3-55
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ORNL-2022	Neutron Absorption by Fissionable Materials in the 5 to 50 Kev Energy Range	R. L. Macklin H. W. Schmitt J. H. Gibbons Oak Ridge Nat.	2-1-56
PLAC 11	Design of R. F. Resonant Cavities for Acceleration of Protons from 50 to 150 Mev	J. J. Wilkins Gt. Brit. Atomic En. Res. Est. Harwell, England	9-55
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*WAPD-TN-522	Distribution of Fission Product Gases in PWR Type Reactor Systems.	F. E. Obenshain B. D. O'Reilly same	10-55

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AECL-240	The Preliminary Design for NPD	H. A. Smith At. Eng. of Canada Chalk River	10-55
IDO-16213	Fission Product Monitoring in Reactor Coolant Streams	R. L. Heath	1-1-56
KAPL-1456	Investigation of Radioactive Decontamination Methods for Sodium Reactor System Components	F. G. Haag	12-1-55
NDA-16	The Self-Regulation by Moderator Boiling in Stainless Steel-UO_2-H_2O Reactors	L. Gartner R. Daane Nuclear Dev. Associates, N. Y.	6-10-55
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ANL-5521	Additions to the Library Report for the Period January 1-15, 1956 Technical Reports and Books		
ANL-5526	Additions to the Library Report for the Period January 16-31, 1956 Technical Reports and Books	P. A. Schulze	
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MISC 1956-9	First Annual Report for the Period 19th July 1954-31st March 1955	United Kingdom At. Eng. Auth.	10-25-55
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MISC 1956-46	National Defense Review Volume 17, Number 6 Abstracts 17 - 2651 to 17 - 3050	Army Lib	12-55
Monograph 2530	Quality Control and Operations Research	P. S. Olmstead Bell Telephone	10-55
NACA-Abstract No. 96	Research Abstracts and Reclassification Notice No. 96	Nat. Adv. Committee for Aero.	2-10-56
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NRL-4607	Relationship Between the Air Concentration of Radioactive Fission Products and Fallout	I. H. Blifford, Jr. L. B. Lockhart, Jr. R. A. Baus.	11-4-55 same

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*ONRL-39-53	The Elliott-N.R.D.C. Computer 401 Mark I.	R.R. Weber Office of Naval Res. England	4-1-53
ORNL-1997	Instrumentation and Controls Division Semiannual Progress Report for Period Ending July 31, 1955		2-1-56
OSRD-1668	A Portable Optical Instrument for the Measurement of Particle Size in Smokes: The "Owl" and Improved Homogeneous Aerosol Generator	V.K. LaMer D. Sinclair Columbia Univ.	6-10-43
*TID-5282	Report of Visit to the French Atomic Energy Research Laboratory, Saclay, France on August 1, 1955	J.P. Howe No. Am. Aviation Downey, Calif.	9-12-55
TID-8003	Gamma Facilities at the Materials Testing Reactor	B.F. Boardman	1-56
*USNRDL-450	Passive Defense Philosophy and Principles of Damage Control in Atomic Attack on Shore Establishments.	W.E. Strope Naval Radio Def. Lab.	9-1-54
*WASH-586	Visit of Dr. Geoffrey R. Hall, Harwell [To Argonne National Laboratory], September 13 and 14, 1955 under the Bilateral Cooperation Agreement with the U.K.	J.R. Gilbreath Argonne Nat. Lab.	10-19-55

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UCRL-3267 Abstract	Concerning Transition Probabilities for Low Energy E 1 Transitions in the Heavy Region	J. O. Rasmussen D. Strominger	2-56
UCRL-3269	Note on the Negative K Particles Produced at 0°	W. H. Barkas	1-26-56
UCRL-3270	The Fluorescence Spectrum of Am^{+3} in $LaCl_3$	D. M. Gruen J. G. Conway R. D. McLaughlin B. B. Cunningham	1-27-56
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UCRL-3282	Application of General Theoretical Principles to Experiments - Lecture 6 Charge Symmetry Parity and Isotopic Spin	C. Goebel	2-14-56
UCRL-3290	Application of General Theoretical Principles to Experiments - Lecture 7 Application of Causality To Scattering	R. H. Capps	2-21-56

UCRL-3292 Abstract	π^+-Photomeson Production as a Function of Atomic Number	W. Imhof E. Knapp V. Perez-Mendez	2-56
UCRL-3293 Abstract	$C^{12}(p, pn)C^{11}$ Cross Section at 4.1 Bev	N. Horwitz J. J. Murray W. E. Crandall	2-56
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UCRL-3300 Abstract	π^0 Modes of Heavy-Meson and Hyperon Decay	J. E. Osher B. J. Moyer S. I. Parker	2-56
UCRL-3301 Abstract	$\mu^+ - \beta^+$ Decay Spectrum	R. Sagane W. F. Dudziak J. Vedder	2-56
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UCRL-3303 Abstract	Hyperfragments from Negative K-Particle Captures and the Mass of a Negative K Particle	F. C. Gilbert C. E. Violet R. S. White	2-56
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UCRL-3311 Abstract	Masses of K Particles	M. Whitehead D. H. Stork D. H. Perkins J. P. Peterson R. W. Birge	
UCRL-3313 Abstract	Antiproton Measurements in Emulsions	G. Goldhaber R. W. Birge W. W. Chupp G. Ekspong S. Goldhaber J. E. Lannutti D. H. Perkins D. H. Stork L. VanRossum	