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UNIVERSITY OF CALIFORNIA

Radiation Laboratory  
Berkeley, California

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

May 15, 1956

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 MAY 1-15, 1956

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

May 16, 1956

<u>Index Number</u>	<u>Title</u>	<u>Author</u>	<u>Date</u>
<u>BIOSCIENCES</u>			
AEC-tr-2435 (pt. 4)	Conference of the Academy of Sciences of the USSR on the Peaceful uses of Atomic Energy, July 1-5, 1955. Pt. 4. Session of the Division of Biological Sciences.		
CF-54-6-27	Relative Biological Hazards Associated with Radiations Expected in Homogeneous Reactors K-23 and K-49	E. Arnold, A. Gresky Oak Ridge National Lab.	6-7-54
DP-146	Determination of Plutonium in Urine	S. Marshall Sanders, Jr.	3-56
NM 006 012.04.99	Histologic Changes in the Incisor Teeth of Rats Serially Sacrificed After Receiving 1,5000 r of 200 KV X-ray Irradiation	L. Hansen, J. English Naval Med. Res.	1-19-56
ORNL-2049	Health Physics Division Semiannual Progress Report for Period Ending January 31, 1956	K. Morgan	5-3-56
UCLA-364	Initial Studies of Blood-Brain Barrier Disturbances with Radioactive Tracers	B. Cassen, W. Gutfreund, M. Moody, Rochester, N. Y. Univ.	4-16-56

UGLA-366	The Radioisotope Renogram (An External Test for Individual Kidney Function and Upper Urinary Tract Patency)	G. Taplin, O. Meredith, H. Kade, et al.,	5-2-56
UR-436	Evaluation of Magnesium Powder as a Source for the Production of Large Area Flash Burns on Pig Skin	H. Bales, R. Roth, L. Krolak, et al.	4-26-56
WT-936	Nature and Extent of Internal Radioactive Contamination of Human Beings, Plants, and Animals Exposed to Fallout. Report to the Scientific Director. Project 4.1 of Operation Castle. Addendum Report	S. Cohn, R. Rinehart, J. Gong, et al., Naval Radiological Defense Lab.	
WT-937	Medical Examination of Rongelap People Six Months After Exposure to Fallout. Report to the Scientific Director. Project 4.1A of Operation Castle. Addendum Report.	V. Bond, R. Conard, J. Robertson, et al., Naval Radiological Defense Lab.	4-55
WT-1166	Radiological Safety. Report to the Test Director. Operation Teapot.	T. Collison, Armed Forces Special Weapons Project	5-55

#### CHEMISTRY

AEC-tr-2156	Fluorescence and Photochemistry of Chlorophyll.	A. Krasnovsky, V. Evstigneev, et al.,	
AEC-tr-2435 (pt. 2)	Conference of the Academy of Sciences of the USSR on the Peaceful Uses of Atomic Energy, July 1-5, 1955. Pt. 2. Session of the Division of Chemical Science.		
AEC-tr-2435 (pt. 3)	Conference of the Academy of Sciences of the USSR on the Peaceful Uses of Atomic Energy, July 1-5, 1955. Pt. 3. Session of the Division of Technical Science.		
AECD-3709	The Thermodynamics of Reducibility of Fission Product Oxides by Sodium and Other Elements	L. Epstein, J. Nigriny, Knolls Atomic Power Lab.	4-27-48

AECD-3968	Catalytic Recombination of Hydrogen and Oxygen - II	J. Gaven, R. Bacastow, A. Herrington, Mass. Inst. of Tech.	8-29-52
DOW-24	The Recovery of Uranium From Commercial 30% Phosphoric Acid with Antimony. Summary Status Report	R. Bailes	2-23-50
DOW-143	March - April, 1956, Progress Report	R. Bailes	5-1-56
DP-151	An All-Over Spot Test	V. Montenyohl	3-56
HW-28711	Radiochemical Studies on the Isotope Plutonium-241	A. Chetham- Strode, Jr.	7-14-53
ISC-706	Semi-Annual Summary Research Report in Chemistry for July - December, 1965	Ames Lab.	3-9-56
ISC-710	Semi-Annual Summary Research Report in Engineering for July - December, 1955	Ames Lab.	2-27-56
K-1236	Separation of Isotopes by Flow Through Powder Packs with High Ratio of Surface Area to Void Volume	W. Trawick, A. Berman, Oak Ridge Gaseous Diffusion Plant, Tenn.	5-2-56
K-1272	A Small and Inexpensive Signal can for the Space Recorder	G. Smith, Oak Ridge Gaseous Diffusion Plant, Tenn.	4-25-56
LA-1721 (Rev)	Collected Radiochemical Procedures	J. Kleinberg	9-10-54
MF-61	Chelated Monomers for Polymerization Studies. (Thesis)	S. Aspey, Illinois, Univ.	1955
MISC-1956-106 (MF-62)	A Study of the Formation of Gas Bubbles from Horizontal Circular Submerged Orifices. (Thesis)	L. Davidson Columbia Univ.	1951

MISC 1956-111	Short Time Acid Leaching of Utex and Vitro Ores . Research Report No. 44.1	I. Nichols, 4-56 K. Tame, J. Rosenbaum, Bureau of Mines.
MITG-228	Miscellaneous Precipitants for Uranium in Phosphoric Acid Solutions	D. George, 3-6-50 Mass. Inst. of Tech.
MITG-252	Lyometallurgical Tests on Marysvale Uranium Ores	F. Bloecher, Jr. 1-30-50 Mass. Inst. of Tech.
NAA-SR-1421	Determination of Free Potassium Metal in Colored Potassium Chloride	L. Silverman, 4-15-56 M. Shideler Matics International, North American Aviation, Inc., Canoga Park, Calif.
NBL-126	Determination of Uranium 235 by Neutron Activation	J. Hudgens, 4-56 R. Meyer, New Brunswick Lab.
NBL-127	Semiannual Progress Report for the Period July 1955 through December, 1955	New Brunswick 5-56 Lab.
NRL-4685	The Development of the NRL Electrochemical Recorder Paper	E. Kohn, 3-5-56 D. Venezky, R. Rice, et al., Naval Research Lab.
RMO-2620	Studies on the Chemical Behavior of Uranium Minerals and Compounds	W. Watson, 7-55 C. Hoffman, E. Bullsinkel, Little (Arthur D.) Inc.,
Y-817	Production of Zirconium at Y-12	J. Ramsey, 10-12-51 W. Whitson, Jr. Oak Ridge National Lab.

ENGINEERING

ANL-5409	The Transient Behavior of Single-Phase Natural Circulation Water Loop Systems	C. Alstad, 3-56 H. Isbin, N. Amundson, et. al.,
CF-54-3-57	Heat Transfer and Pressure Loss in Proposed Orr Fuel Assemblies	J. Sanders, 3-11-54 Oak Ridge National Lab.
CF-54-12-100	A Study of Possible Blast Effects from HRT Pressure Vessel Rupture	P. Wood, 12-14-54 Oak Ridge National Lab.
NACA-TN-3596	On the Permeability of Porous Materials	E. Carson Yates, Jr. 1-56 Langley Aeronautical Lab.
ISC-710	Semi-Annual Summary Research Report in Engineering for July-December, 1955	Ames Lab. 2-27-56

METALLURGY AND CERAMICS

AEC-tr-2435 (pt. 3)	Conference of the Academy of Sciences of the USSR on the Peaceful Uses of Atomic Energy, July 1-5, 1955. Pt. 3. Session of the Division of Technical Science.	
ISC-527	The Tensile Properties of Uranium in the Inelastic Range of Stress	R. Wells Lewis, 6-54 G. Murphy Ames Lab.
Monograph 2445	Thermionic Emission Microscopy of Metals. (Part I and II)	R. Heidenreich 6-55
Monograph 2489	Germanium: On the Melting Point; on-Silicon Phase Diagram	F. Hassion, 10-55 D. Thurmond, F. Trumbore, et al.
Monograph 2526	Superconductivity of Zirconium Alloys	B. Matthias, 9-7-55 E. Corenzwit

Monograph 2560	Surface Resistivity of Non-Porous Ceramic and Organic Insulating Materials	J. Williams, D. Herrmann	10-20-54
Monograph 2576	Stability Characteristics of Molybdenum Permalloy Powder Cores	C. Owens	3-56
Monograph 2593	Aluminum Die Castings for Carrier Telephone Systems	L. Pedersen	9-55
NRL-4713	Notch Ductility of Commercial Malleable Irons	H. Bishop, G. Sandoz, N. Howells, et al., Naval Res. Lab.	3-20-56
NRL-4718	Notch Ductility of Austenitic Nodular Irons	R. Morey, H. Bishop Same	3-19-56

PHYSICS

AD-76097	Research and Development of Cathode Ray Tubes. Second Quarterly Report Covering the Period June 16, 1955 to September 15, 1955	K. Schlesinger, Motorola, Inc.	9-26-55
AD-77652	High Power, Noise Free Pulse Cable. Final Report	R. Feller, Okonite Co.	1955
AEC-tr-2435 (pt. 1)	Conference of the Academy of Sciences of the USSR on the Peaceful Uses of Atomic Energy, July 1-5, 1955. Pt. 1. Introductory Remarks and Session of the Division of Physical and Mathematical Sciences.		
AECD-3699	Xenon-135 Generation in the Materials Testing Reactor	D. deBoisblanc, W. Nyer, Phillips Petroleum Co.	5-14-53
AECD-3706	Low Temperature Thermal Expansion of Various Materials	H. Laquer, Los Alamos Scientific Lab.	12-9-52
AECD-3707	MTR Technical Branch Quarterly Report. Fourth Quarter, 1954	J. Huffman Same	3-31-55

AECD-3711	Summary Evaluation of Organics as Reactor Moderator-Coolants	R. Bolt, J. Carroll, Calif. Res. and Development Co.	3-15-55
AECD-3721	Fast-Neutron Spectrum of the LITR	R. Cochran, K. Henry Oak Ridge National Lab.	12-31-53
ANL-5532	Results of Recent Analyses of Borax II Transient Experiments	A. Ulrich	4-56
ANL-5552	Interim Report on "Argonaut". A generalized Reactor Facility for Nuclear Technology Training and Research	D. Lennox, B. Spinrad	3-56
BMI-1085	An Analysis of Transients in a Pressurized-Water Reactor During Continuous Rod Withdrawal	R. Redmond, J. Stone, J. Chastain, Jr.	4-25-56
BNL-1149	Serial Reports on Start-up Experiments. No. 1. The Hot Rod Experiment	J. Chernick, J. Kunstadter	11-29-50
BNL-1150	Serial Reports on Start-up Experiments. No. 2. The Uniform Temperature Coefficient of the BNL Reactor	J. Chernick, J. Kunstadter	1-17-51
BNL-1690	Fast Effect Measurements	G. Price	3-56
BNL-1785	Reactivity Coefficient Measurement of Buckling	K. Downes, H. Kouts	3-18-54
BNL-2019	The Transmission of Neutrons and Gamma-Rays Through Air Slots. Part I. The Mechanical Construction of the Slots and Representative Background Data.	R. Schamberger, F. Shore, H. Sleeper, Jr.	9-1-54
BNL-2021	The Transmission of Neutrons and Gamma-Rays Through Air Slots. Part III. The Transmission of Gamma-Rays Through Straight Air Slots in Water	R. Schamberger, F. Shore, H. Sleeper, Jr.	9-1-54

BNL-2023	The Transmission of Neutrons and Gamma-Rays Through Air Slots. Part V. The effect of the Vertical Position of a Single Offset on the Neutron Transmission of an Air Slot.	R. Schamberger, 9-1-54 F. Shore, H. Sleeper, Jr.
BNL-2025	The Transmission of Neutrons and Gamma-Rays Through Air Slots. Part VII. The Effect on the Neutron Transmission of Changing the Wall Material of an Air Slot	R. Schamberger, 9-1-54 F. Shore, H. Sleeper, Jr.
BNL-2027	The Transmission of Neutrons and Gamma-Rays Through Air Slots. Part IX. Thermal and Epithermal Neutron Distributions Around an Air Slot in Water	R. Schamberger, 9-1-54 F. Shore, H. Sleeper, Jr.
BNL-2119	Migration Areas of Fission Neutrons in Uranium-Water Lattices	H. Kouts, 12-15-54 G. Price, K. Downes, et al.
CERN-PS/CS-16	Principle of an Electronic Analogue of the Phase Motion in Radio Frequency Accelerators.	European 1956 Organization for Nuclear Res.
KAPL-1471	Interaction of Black Control Rods	J. Stewart, 1-8-56 J. Smith
LA-1927	Taylor Instability Appendices to Report LA-1862	G. Birkhoff 5-2-56
MLM-1054	The Spectrum of Polonium-Beryllium Neutron Sources (Information Report)	R. Breen, 6-13-55 M. Hertz, D. Wright, Jr.
Monograph 2543	Spurious Modulation of Electron Beams	C. Cutler 1-56
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Monograph 2548	Transistor Amplifiers for Use in a Digital Computer	Q. Simkins, 1-56 J. Vogelsong
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Monograph 2553	Periodic Focusing of Beams from Partially Shielded Cathodes	K. Harker	10-55
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Monograph 2592	Engineering Multistage Diode Logic Circuits	B. Yokelson, W. Ulrich	9-55
UCLA-365	The Linear Energy Transfer Distribution of Primary Compton Recoil Dosage	B. Cassen, T. Hennessy, Rochester, N.Y. University	4-18-56
WAPD-145	Kinetics of a Plane Neutron Burst in an Infinite Homogeneous Medium	A. Voorhis, Westinghouse Electric Corp.	2-56
REACTOR SCIENCE			
AECD-4083	Practical Reactor Theory	J. Webster, Oak Ridge National Lab.	10-21-53
CF-50-12-104	HRE Shielding Design Report - Supplement	C. Segaser, Oak Ridge National Lab.	12-27-50
CF-54-7-122	HRT Entrainment Separator Design Study	C. Segaser, Oak Ridge National Lab.	7-23-54
IDO-16005	Pre-Operational Acceptance Test Procedures for the Materials Testing Reactor. Part II. Post Neutron Tests	Phillips Petr. Co.	2-29-52

ORNL-2018	Operating Procedure for the Bulk Shielding Facility	F. Maienschein, 5-2-56 K. Henry, Oak Ridge National Lab.
TID-8010	The Pressurized Water Reactor Forum Held December 2, 1955, at Mellon Institute, Pittsburgh	Technical Info. 2-55 Service, AEC
MISCELLANEOUS		
ASTIA-U-101	Title Announcement Bulletin No. U-101	Armed Services 4-2-56 Tech. Info. Agency, Dayton, Ohio
ASTIA-U-102	Title Announcement Bulletin No. U-102	Armed Services 4-16-56 Tech. Info. Agency, Dayton, Ohio
CF-56-1-189	Articles Published in Technical Journals and Papers Presented at Scientific Meetings During 1955 by ORNL Staff Members	Oak Ridge 4-26-56 National Lab.
K-1284	Improvements to the Argon Cammagraph a Wide Range Gamma Monitor	G. Smith, 5-3-56 Oak Ridge Gaseous Diffusion Plant, Tenn.
MISC 1956-105	Financial Protection Against Atomic Hazards; Preliminary Report	A. Murphy, 3-56 C. Ball, B. Gibbs, Atomic Industrial Forum Inc.
MISC-1956-107	The President's 1956 Offer of U235; Comments on the Pro- duction Costs of U235.	J. Slepian 3-56

MISC-1956-110	Academy of Science of the U. S. S. R. in the Last Twenty-five Years	A. Baikov	
Monograph 2554	The Graduate Engineer; His Training and Utilization in Industry	S. Ingram	2-56
NBS-4612	Test of One Atomic Instrument Company Model 404A Survey Meter	P. Barrans, R. Brueckmann	4-4-56
NBS-4653	Test of Two Jordan Electronic Mfg. Co. Model AGB-10-SR Survey Meters	P. Barrans, R. Brueckmann	4-19-56
TID-1907	Report Announcement Bulletin. Unclassified Reports for Civilian Applications	Tech. Info. Extension, AEC	4-27-56
TID-5315	The International Conference on the Peaceful Uses of Atomic Energy. Geneva, Switzerland, August 8-20, 1955. Report of the United States Delegation; with Appendices and Selected Documents	Atomic Energy Commission	
TID-5315	The International Conference on the Peaceful Uses of Atomic Energy. Geneva, Switzerland, August 8-20, 1955. Report of the United States Delegation; with Appendices and Selected Documents	Atomic Energy Commission	

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UCRL Translation 265 (L)	On the Question of Plant Utilization of $C^{14}O_2$ at Different Conditions of Illumination (Red and Blue Light)	N. Voskresenskaya, G. Grishina	

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UCRL-3310	The Microdetermination of Methyl Groups Attached at Carbon	V. Tashinian, M. Baker, C. Loch	2-16-56
UCRL-3330	The Absolute Yield of Low-Energy Neutrons from 190-Mev Proton Bombardment of Gold, Silver, Nickel, Aluminum, and Carbon	E. Gross	2-29-56
UCRL-3331	The Photosynthetic Cycle and Respiration: Light-Dark Transients	J. Bassham, K. Shibata, K. Steenberg, et al.	3-1-56
UCRL-3338	Thioctic Acid: Physics, Chemistry and Biology	M. Calvin	4-2-56
UCRL-3349	Body Composition from Fluid Spaces and Density: Analysis of Methods	W. Siri	3-19-56
UCRL-3350	The Problem of Synthetic Lethals in <u>Drosophila Melanogaster</u>	P. Hildreth	3-19-56
UCRL-3361	Decay Scheme of $\text{Re}^{183}$ and Rotational Bands of Daughter Nucleus $\text{W}^{183}$	S. Thulin, J. Rasmussen, C. Gallagher, et al.	4-3-56
UCRL-3366	Use of the Wire Loop in Locating the Orbital Surface of a Cyclotron Field	G. Lambertson	3-21-56
UCRL-3368	The Masses of Identified Positive Heavy Mesons	J. Peterson	4-5-56
UCRL-3394	Absolute Cross Sections for Secondary Particles Produced in High-Energy Nuclear Bombardments	L. Bailey	4-20-56
UCRL-3403	List of Unclassified Reports Received and Issued by the UCRL Information Division During the Period of April 16-30, 1956		5-4-56
UCRL-4663	Helmholtz Instability in Magnetohydrodynamics	T. Northrop	3-15-56

UCRL-4666	Temperature Coefficients of Scintillating Systems	W. Ball, R. Booth, M. MacGregor	3-16-56
UCRL-4690 Abstract	Weighted Least-Square Polynomial Approximation to a Continuous Function of a Single Variable	R. von Holdt, R. Brousseau	4-26-56
UCRL-4691	Approximate Solutions of the Neutron Transport Equation Assuming a Discontinuity in the Angular Density	J. Bengston	4-56
UCRL-4693 Abstract	Split-Word Floating Decimal Routine	K. Malmquist, Jr.	5-3-56