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Radiation Laboratory

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LIST OF UNCLASSIFIED REPORT RECEIVED IN THE UCRL INFORMATION
DIVISION DURING THE PERIOD OF JANUARY 15-31, 1954

February 1, 1954

Berkeley, California

LIST OF CODES FOR REPORT NUMBERS

ACCO	- American Cyanamid Co.	NAA	- North American Aviation, Inc.
AERE	- Atomic Energy Research Establishment, Harwell, England	NBS	- National Bureau of Standards
ANL	- Argonne National Lab.	NM	- Naval Medical Research Institute
ANP	- Aircraft Nuclear Propulsion Project	NRL	- Naval Research Lab.
APEX	- Project	NYO	- New York Operations Office
ASTIA	- Armed Services Technical Information Agency	ONRL	- Office of Naval Research, London
BMI	- Battelle Memorial Institute	ORNL	- Carbide and Carbon Chemicals Co. (ORNL)
BNL	- Brookhaven National Lab.	ORO	- Oak Ridge Operations Office
CO	- Chicago Operations Office	RMO	- Division of Raw Materials
CRC	- Chalk River Project, Canada	SEP	- Sylvania Electric Products, Inc.
CRE		SO	- Schenectady Operations Office
CRP		TEI(M)	- U. S. Geological Survey
CU	- Columbia University	TID	- Technical Information Service
DOW	- Dow Chemical Company	UCLA	- University of California Medical Research Lab.
DP	- du Pont, Wilmington	UR	- University of Rochester
FMPC	- Feed Materials Production Center at Fernald	USNRDL	- U. S. Naval Radiological Defense Lab.
GEL	- General Electric Co., General Engineering Lab.	WAPD	- Westinghouse Electric Corp., Atomic Power Division
HW	- Hanford Works, Richland	WASH	- Atomic Energy Commission, Washington
IDO	- Idaho Operations Office	Y	- Carbide and Carbon Chemicals Co. (Y-12 Plant)
ISC	- Iowa State College		
JENER	- Joint 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		
LAMS	- Los Alamos Scientific Lab.		
LA			
LRL	- California Research and Development Do.		
LWS			
MIT	- Massachusetts Institute of Technology		
MLM	- Mound Laboratory		
MTA	- California Research and Development Co.		

The Technical Information Service assigns NP ("Non-Project") numbers to university research and development reports received from outside sources, e.g., government agencies, universities, industry and foreign countries.

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AECD-3589	Cavity Design Data for High Energy Linear Accelerators	S. Kitchen A. Schelberg B. Hill R. Smits	12/9/52
ADEC-3590	Recalibration of the X-10 Standard Graphite Pile	E. Klema R. Ritchie G. McCammon	10/17/52
AERE-C/R-1232/2	The Determination of Niobium in Some African Low Grade Minerals and Mineral Dressing Products Part II. Spectrographic	R. Thorne B. Childs	9/19/53
AERE-X/R-1052	The Theory of the D. C. Electromagnetic Flowmeter for Liquid Metals	J. Shercliff	11/52
ANL-5111	Annotated Bibliography in Radiobiology	S. Stephens R. Boche	12/53
ANL-5168	Development of a Wavelength-Independent Radiation Monitoring Film. Final Report	Argonne Nat'l Lab.	8/1/53
ANL-5173	Absorption Spectra of Uranyl Compounds in Solution	E. Rabino- witch	12/53
ANL-5177	Instrument Research and Development Division Quarterly Progress Report for September, October, November 1953	Argonne Nat'l Lab.	12/53
ANL-5200	Monthly Progress Report for Period Ending December 31, 1953	Argonne Nat'l Lab.	1-54
ASTIA-U-34	Title Announcement Bulletin	Armed Serv. Tech. Info. Agency	12/21/53
*BLR-51-57	General Program for the Evaluation of Titanium and Titanium-Base Alloys at Bell Aircraft Corporation	A. Leach	
*BM-RI-4658	A Preliminary Survey of Zirconium Alloys	C. Anderson E. Hayes A. Roberson W. Kroll	

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*BM-RI-4915	High-Temperature Experiments with Zirconium and Zirconium Compounds	W. Kroll W. Carmody A. Schlechten	
*BM-RI-4958	The Thermodynamics of Combustion Gases: Temperatures and Composition of the Combustion Products of Oxyacetylene Flames	H. Edwards R. Smith, Jr. S. Brinkley, Jr.	
BMI-888	Fabrication and Evaluation of Thin Clad Sheets of Molybdenum	M. La Chance C. Craighead R. Jaffee	11/25/53
BMI-891	Solubility of the Products of Corrosion of Stainless Steel in 600 F Water	H. Pray E. Stephan	11/30/53
*BNL-1303	A Test for the Influence of Radiation Decomposition on Retention in the Szilard-Chalmers Reaction	W. Hamill R. Williams, Jr.	
*BNL-1352	The Radical Yield Ratio of Ionizing Radiation in Ferrous Sulfate and Ceric Sulfate Solutions	E. Johnson	
*BNL-1355	A Neutron Diffraction Study of Magnesium Ferrite	L. Corliss J. Hastings	
*BNL-1422	An Insulated Union for Metal Tubing	E. Reilly	
*BNL-1501	Colorimetric Determination of Cyanide in the Presence of Ferrocyanide	V. Hogan E. Johnson	
*BNL-1508	Examples of Multiple Pion Production in N-P Collisions Observed at the Cosmotron	W. Fowler R. Shutt A. Thorndike W. Whittemore	
*BNL-1513	The Use of Averages in Air Pollution Meterology	I. Singer M. Smith	
*BNL-1514	Inner Bremstrahlung and the Magnetic Moment of the Neutrino	J. Weneser	
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*BNL-1516	The Instrumentation of the Brookhaven Reactor	J. Binns	
COO-1011	Removal of Nitrogen Oxides from Gaseous Mixtures	M. Peters C. Ross L. Andersen	9/30/53
COO-1012	Collection of Aerosols by Fiber Mats	J. Wong H. Johnstone	10/31/53
CR-B-RHC-554	A Method for Studying Slime Formation in River Water Cooling Systems	H. Newcombe J. McGregor S. Simpson	9/53
HW-29091	The Uptake and Translocation of Yttrium by Higher Plants	J. Rediske A. Selders	8/21/53
HW-29478	A Portable Meteorological Mast	P. Nickola R. Clark	9/30/53
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HW-30156	A Replica Press Attachment for the Precision Mounting Press for use in Preparing Aluminum Replicas of the Surfaces of Irradiated Materials	W. Roake	10/21/53
ISC-418	A Theoretical Study of the Electronic Structure of Water	F. Ellison H. Shull	1/54
ISC-422	Quarterly Summary Research Report in Physics for July, August, September, 1953	Ames Lab. Staff	12/15/53
ISC-431	A Coincidence Scintillation Spectrometer	S. Johansson	12/9/53
ISC-432	The Decay Scheme of Sb ¹²⁵	S. Johansson	12/7/53

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JENNER-20	Absolute Measurements of Neutron Densities in the Jeep	B. Grimeland	1953
JENNER-21	Measurements of Neutron Density Distribution in the Jeep by Copper Band Irradiation	M. Bogaardt W. Halg J. Felser	1953
JPL-PR-24-4	An Improved Radio-Frequency Mass Spectrometer and a New Method for Interpreting Data	B. Keilin	11/25/52
*K-565	Fluorine Reactor Test	A. Tuholsky	
KAPL-989	Temperature Distribution in the Walls of a Slot as the Level of a Liquid is Rapidly Raised in the Slot	D. Timo	9/15/53
KAPL-999	Some Comments on the Mass Spectrometric Analysis of the Isotopes of Lithium Using a Surface Ionization Source	T. Collins F. Rourke	11/9/53
KAPL-1016	The Equilibrium Constant, Infrared Spectrum, and Thermodynamic Properties of Bromine Chloride	H. Matraw C. Pachucki N. Hawkins	12/1/53
*KAPL-Memo-DLD-3	Liquid Sample Beta Counter: A New Laboratory Counting Facility	D. Douglas	
*KLI-1852	Metallographic Study Electroless Nickel Plate on Various Materials	W. Latham	
*KLX-1306	Summary Progress Report (for) June, 1950	W. Bain	
*KLX-1314	Summary Progress Report (for) August, 1950	W. Bain	
*KLX-1317	Summary Progress Report (for) September, 1950	W. Bain	

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*KLX-1327	Summary Progress Report (for) November, 1950	W. Bain	
*KLX-1333	Summary Progress Report (for) January, 1951	W. Bain	
*KLX-1337	Summary Progress Report (for) February, 1951	W. Bain	
*KLX-1358	Summary Progress Report (for) August, 1951	W. Bain	
*KLX-1365	Summary Progress Report (for) October, 1951	W. Bain	
*KZ-1181	Powdered Metals: A Bibliography	N. McDonald	
*LA-1420	Recent Developments in Pulse Height Analyzer Design	C. Johnstone	
LRL-72	Cross Sections for Formation of Be ⁷ from Beryllium Bombarded with Helium Ions, Deuterons, and Protons	R. Batzel G. Coleman	12/53
*M-1510	Gamma Ray Activity of TX ₁ , TX ₂ Separated from T-Metal	W. Bale	
*M-1593	Monthly Report for November 1944; Section III. Division of Pharmacology	H. Hodge	
*M-1594	Monthly Report for November 1944; Section III. Pharmacology	H. Hodge	
*M-1595	Monthly Report for November 1944; Section III. Pharmacology; Part B. Toxicology	A. Dowdy	
*M-1600	Monthly Report for December 1945; Section II. Special Problems	W. Bale	

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*M-1634	Monthly Report for February, 1945. Section II. Radioactivity	A. Dowdy	
*M-1644	Report for February 1945; Report Prepared by the Division of Pharmacology. Section III. Part E	A. Dounce	
*M-1663	Summary of Research of the Section on Pharmacology; Progress Report for March 1945	A. Dowdy	
*M-1687	Report of Progress for April, 1945. Section III. Pharmacology. Part E	A. Dowdy	
*M-1710	Survey of the Local and Systemic Damage Caused by Application of T-Compounds to the Skin and to the Eye	J. Orcull N. Smith	
*M-1736	Report of Progress for June 1945. Section III. Pharmacology. Part E	F. Haven	
*M-1766	Pathology Monthly Research Report; Section V; Report Prepared by the Division of Pathology	R. Metcalf	
*M-1778	Monthly Progress Report (for) September 1945. Section III. Pharmacology; Part C	N. Murphy	
*M-1811	Inhalation of Volatilized Polonium by Rats	C. Kimball R. Fink	
*M-1958	Inhalation Toxicity in Laboratory Animals Exposed to 2.8 MG/M ³ of UO ₂ F ₂ Dust for Thirty Days	A. Rothstein	
*M-1962	Monthly Progress Report (for) March 1947. Part III - H. Pharmacology. Enumerative Report of Animal Colony	R. Kesel	

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*M-1964	Report on Animal Controls for Inhalation-Exposure Studies; a 36-Day Study	G. Sprague	
*M-4517	Medical Aspects of Atomic Warfare; March 27-31, 1950	Atomic Energy Com. Training Program	
*M-4814	Perturbation Theory; Chapter 20 - Reactor Physics Notes	A. Weinberg	
MISC-1953-29 #57	Translated Contents Lists of Russian Periodicals #57, December 1953	Dept. of Scientific and Industrial Res.	
MISC-1953-126 #28	Accumulative Microcard Availability List No. 28, October 1, 1953 through December 31, 1953	TIS OR	
MISC-1954-16	European Scientific Notes. Vol. 8-1	Off. of Naval Res. London	1-1-54
MISC-1954-16	European Scientific Notes. Vol. 8-2	Off. of Naval Res. London	1-15-54
*MLM-102	Decrease in Weight of Lead Alloy Squares Immersed in Various Inorganic Solvents	M. Haring	
MONOGRAPH-2146	Hydrothermal Synthesis of Quartz Crystals	A. Walker	8/53
*MP-41	Capture Cross-Section of Heavy Water for Thermal Neutrons	F. Fenning J. Knowles	
*MR-496	Use of a Portable Rockwell Hardness Tester and Examination of Test Results on Standard Calibration Blocks	M. Dougherty W. Boyer	
NACA-Abstract # 56	Current NACA Reports No. 56, January 13, 1954	Nat'l Advisory Committee for Aeronautics	

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NM-007- 081.12.02	Some Humoral Aspects of the Development of Tolerance to Bacterial Pyrogens in Rabbits	R. Farr S. Clark J. Proffitt D. Campbell	8/14/53
NP-4261 Supplement	Revisions and Additional Information Supplementing the Contents of "An Aerial-Focusing Magnetic Beta-Ray Spectrometer of High Luminosity, Resolving Power and Precision with Proton-Resonance -Stabilized Homogenous Field (Without Iron:) Comprising the Theory Design, Construction and Tests of the New Instrument"	J. Dumond L. Bogart J. Kohl D. Muller J. Wilts	11/20/53
NP-4982	Summaries of Research - 1 January-30 June, 1953	Naval Med. Res. Inst.	
NRL-4230	R-F Impedance Bridges for Military Use	J. Connor D. Troxel	11/13/53
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NSF-TR-152	Relation Between Creep and Relaxation of Stresses in Metals	I. Oding O. Sorokin N. Sazanova	12/53
NYO-3648	The Measurement of Thermal Conductivity of Refractory Materials - Progress Report	F. Norton W. Kingery	10/1-53
NYO-7034	Solid Solution Formation in the Gold-Nickel System	B. Averbach P. Flinn M. Cohen	
ORNL-1653	Enthalpies and Specific Heats of Alkali and Alkaline Earth Hydroxides at High Temperatures	W. Powers G. Blalock	1/20/54
PR-P-19-E	Progress Report July 1 to September 30, 1953 - Electronics Branch	J. Hardwick	
RME-4020	Preliminary Report on Relation of Structure to Uranium Mineralization in the Todilto Limestone, Grants District, New Mexico	P. Ellsworth A. Mirsky	9/10/52
RME-4039	Drilling in the Happy Jack Mine Area, White Canyon, San Juan County, Utah	L. Miller	8/18/52
TEI-369	On Metamictic Disintegration of the Zircon Group of Minerals	E. Kostyleva	1/54
TEM-444-A	Results of Reconnaissance for Uranium in Nonmarine Carbonaceous Rocks in Parts of California, Idaho, Nevada, Oregon, Utah, and Washington During 1951 and 1952	D. Duncan	3/53

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UCLA-275	Production of High Speed Liquid Jets by Means of a Propellant	B. Dunne, Jr. H. Gass B. Cassen	1/10/54
UCSF-8	Radiological Laboratory 1953 Annual Report	Univ. of Calif. Sch. of Medicine San Francisco	
UR-252	A Comparative Study of the Inhibitory Actions of Mercury and Uranium on Yeast and Yeast Hexokinase	L. Hurwitz	10/22/53
UR-253	Comparison of the Photographic Effects Produced by Cadmium and Rhodium After Neutron Bombardment with Reference to Personnel Monitoring	G. Rausa	10/7/53
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UCRL-2402	Effect of Negative Energy Components in the Two Nucleon System	R. Arnowitt S. Gasiorowicz	1/19/54
UCRL-2413	The Electron Compton Effect at 250 Mev	F. Coensgen	1/19/54
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