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Radiation Laboratory

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LIST OF UNCLASSIFIED REPORTS RECEIVED IN THE UCRL INFORMATION
DIVISION DURING THE PERIOD OF DECEMBER 1-15, 1953

December 16, 1953

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	- Armed Services Technical Information Agency	NYO	- New York Operations Office
ASTIA	- Battelle Memorial Institute	ONRL	- Office of Naval Research, London
BMI	- Brookhaven National Lab.	ORNL	- Carbide and Carbon Chemicals Co. (ORNL)
BNL	- Chicago Operations Office	ORO	- Oak Ridge Operations Office
CO	- Chalk River Project, Canada	RMO	- Division of Raw Materials
CRC		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 Co.		
LWS	- Massachusetts Institute of Technology		
MIT	- Mound Laboratory		
MLM	- California Research and Development Co.		
MTA			

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.

Index Number	Title	Author	Date
*A-3960	Lectures On Nuclear Physics	H. Bethe	
*AD-475	Development Of Procedures For The Identification Of Minor Phases In Heat-Resistant Alloys By Electron Diffraction; Progress Report No. 2 (For) April 15 To July 15, 1952	L. Brockway	
*AD-10 067	Heat Capacities, Latent Heats And Entropies Of Fluorine From 13° To 85°K; Heats Of Transition, Fusion, Vaporization And Vapor Pressures Of The Liquid	J. Hu et al	
*AEC-TR-1493	Experimental Determination Of Local And Average Coefficients Of Heat Transfer During Turbulent Flow Of Liquids In Tubes	I. Alad'ev	
*AEC-TR-2016	Heat Transfer Measurements With Mercury	D. Elser	
*AEC-TR-2029	Investigation Of Structures Of Some Compounds Of Rare Earth Elements	V. Iveronova et al	
AECU-2601	An Evaluation Of The Clinical Use Of A Sr ⁹⁰ Beta Ray Applicator With A Review Of The Underlying Principles	H. Friedell et al	6/22/53
*AECU-2640	Electronic Devices For Nuclear Physics; Quarterly Report (For) January 1953-April 1953	G. Morton et al	
AECU-2688	Thermal Insulation Development-Final Report	S. Spiel	9/14/53
BMI-883	Creep Strength Of Boral Sheet At 200, 400, And 600 F	H. Saller et al	11/23/53
BNL-1503	The Radical Pair Yield Of Ionizing Radiation In Sulfuric Acid Solutions	E. Johnson J. Weiss	
CEA-213	Regulateur De Courant Pour Stabilisation D'un Generateur Electrostatique Van De Graaff	A. Gabet J. Taieb	9/53

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CEA-214	Essai De Comparaison Des Generateurs Electrostatiques De Van De Graaff Et De Pauthenier	F. Prevot	9/53
CEA-215	Etude Du Facteur De Multilication Dans La Pile De Saclay	B. Jacrot et al	10/53
CEA-220	Dosage D'Oxydes De Tantale Niobium Et Titane Dans Leurs Melanges Par Radioactivite	J. Beydon C. Fisher	
CEA-226	Un Procede De Mesure Rapide Des Courants Faibles	J. Taieb	
CEA-227	Les Piles Atomiques	B. Jacrot et al	3/53
CEA-228	Controle Des Reacteurs Nucleaires	M. Surdin J. Weill	
CEA-229	Mesures De Coincidences Avec Utilisation De Detecteurs Mesurant L'Energie Des Rayonnements (Compteurs Proportionnels Et Compteur A Scintillations)	M. Sartory	10/53
CIRC-303	Stratigraphic Sections Of The Phosphoria Formation In Montana Part 2, 1949-50	R. Swanson et al	
CIRC-304	Stratigraphic Sections Of The Phosphoria Formation In Idaho, 1949, Part 1	R. Sheldon et al	
CU-129	Quarterly Report Nuclear Physics Laboratories For January, February, March, 1953	W. Havens, Jr.	
DP-13	Eddy Current Inspection Methods: Trip Report-The Dr. Forster Institute Reutlingern, Germany	R. McMillen	11/53
GEL-77	Collision Of Plates	H. Poritsky M. Bolster	11/1/53
ISC-230	Inner-Complex Compounds Of Alicyclic Vic-Dioximes	R. Voter C. Banks	6/51
ISC-278	Conductances, Transference Numbers And Activity Coefficients Of Some Rare Earth Halides	I. Yaffee F. Spedding	6/52
ISC-390	Kinetics Of The Reaction Between Lithium And Water Vapor	B. Deal H. Svec	7/53

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LA-1608	Some Considerations On Helmholtz Instability	E. Frieman	9/15/53
LRL-62	Thermoelectric Calibration Of Zirconium-Constantan And Zirconium-Alumel Thermocouples	C. Shoens J. Shortall	12/53
LRL-63	Static Corrosion Of Uranium, Zirconium And Copper By "Arochlor"	P. Strom	12/53
LRL-65	The Qualitative Anionic Behavior Of A Number Of Metals With An Ion Exchange Resin, "Dowex 2"	H. Hicks et al	12/53
Misc 1953- 29 No. 56	Translated Contents Lists Of Russian Periodicals No. 56	Scientific Ind. Res.	11/53
Misc 1953- 58 Vol. 3 No. 4	Isotopics--Announcements Of The Isotopes Division Vol. 3 No. 4 October, 1953	AEC OR	
Misc 1953- 59 Rp. 50	Ionospheric Research Scientific Report No. 50 "Instrumentation For The Observation Of Long Delay Echoes At 150/Kc/s"	R. Schrag	9/25/53
Misc 1953- 59 No. 51	Ionospheric Research Scientific Report No. 51 "Some Exact Solutions Of The Electrodynamical Problem Of Superimposed Positive And Negative Fluids"	J. Gibbons P. Bedient	10/10/53
Misc 1953- 59 No. 52	Ionospheric Research Scientific Report No. 52 Aeronomical Problem Of Nitrogen Oxides	M. Nicolet	10/25/53
Misc 1953- 203	Third Technical Report On Office Of Naval Research High Temperature Project-Powdered-Metal Flames	J. Conway A. Grosse	8/1/53
MIT-AL- QPR-7-9- 53	Quarterly Progress Report July-September, 1953	R. Bolt et al	
MIT-MET- MPD-TEC- No. 4	Technical Report No. 4-The Ductile Fracture Of Metals Mechanical Anisotropy In SAE 4340 Steel	D. Field, Jr. et al	9/30/53
*NAA-AL- 1560	Titanium Brazing	H. Meredith	

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*NAA-SR-Memo-304	A Low Power Water Boiler Reactor Neutron Source	A. Biehl et al	
*NAA-SR-Memo-553	P ₃ And P ₅ Approximation Spherical Harmonic Calculations For Natural Uranium Spheres In D ₂ O	S. Kash	
NACA-Abstract 53	Current NACA Reports No. 53	Committee for Aeronautics	12/2/53
*NACA-TN-1018	Methods For Determination And Computation Of Flow Patterns Of A Compressible Fluid	S. Bergman	
*NACA-TN-1712	Analytical Method Of Determining Transmission Of Particles And Radiation Through Great Thickness Of Matter	A. Bobrowsky	
*NACA-TN-2913	On The Development Of Turbulent Wakes From Vortex Streets	A. Roshko	
*NACA-TN-3017	Axial-Load Fatigue Tests On Notched And Unnotched Sheet Specimens Of 6IS-T6 Aluminum Alloy, Annealed 347 Stainless Steel, And Heat-Treated 403 Stainless Steel	H. Hardrath et al	
*Navord-2455	Apparatus For Measurement Of P _v t Relationships Of Gases At High Temperatures And Pressures: Effects Of Changing The Initial Operating Conditions	R. Allgaier	
*NBS-1628A	Bibliographical Survey Of Russian Mathematical Monographs, 1930 To 1951; Supplement	G. Forsythe	
*NBS-1904	Calorimetric Properties Of Polytetrafluoroethylene (Teflon) From 0° To 365°K	G. Furukawa et al	
*NBS-2125	Oblique Attenuation Of Gamma-Rays From Cobalt-60 And Cesium-137 In Polyethylene, Concrete And Lead	F. Kirn et al	

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*NBS-2165	A Diaphragm-Type, Capacitance-Type, Micromanometer For Very Low Differential Pressures	T. Perls et al	
*NBS-2264	An Experiment On Gamma-Ray Back-scattering	E. Hayward J. Hubbell	
*NBS-2688	Projects And Publications Of The National Applied Mathematics Laboratories: A Quarterly Report (For) April Through June 1953	Nat'l Bureau of Standards	
NBS-2821	Preparation Of D-Galactose-1-C ¹⁴ And D-Talose-1-C ¹⁴	H. Isbell et al	9/28/53
*NGTER-120	National Gas Turbine Establishment; Thermodynamic Properties Of Air And Combustion Products Of Hydrocarbon Fuels. Part II	D. Fielding J. Topps	
NM 000 018. 07 Memo 53-11	The Fat-Globule Membrane Of Non-homogenized And Homogenized Milk III. Differences In The Sedimentation Diagrams Of The Fat-Membrane Proteins	J. Brunner et al	7/27/53
NM 008 012. 03.04	Use Of Intraoral Photographs As A Means Of Personnel Identification And Registration Of Oral Lesions And Deformities	H. Lyon	5/27/53
NP-4768	The Neptunium-Aluminum Intermetallic Compounds	O. Runnalls	11/53
NP-4942	Periodic Status Report No. 5 August 1953-November 1953 I. Deformation Studies Of Metals At Elevated Temperatures II. The Iron-Chromium-Nickel Ternary System III. Effect Of Structure and Composition On The Strength Properties Of Stainless Steel	J. Chang et al	
NRL-4248	Some Spectroscopic Studies Of Rotational Isomerism	R. Kagarise L. Daasch	11/9/53
NRL-4275	Shadow Shields	E. Nowstrup et al	11/16/53
NYO-3078	Table Of Neutron Resonance Constants	B. Feld	8/28/53

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NYO-3486	Progress Report For April, May, June, 1953	R. Smoluchowski et al	9/1/53
NYO-3658	Half Life Of Positrons In Condensed Materials	H. Richings	5/53
NYO-3679	The Adaptation Of New Research Techniques To Mineral Engineering Problems	Project Res. Staff	10/30/53
NYO-4451	Report Of The Medical Examination On The 78 Hiroshima Patients With Radiation Cataracts	P. Fillmore	7/20/51
NYO-4452	Bibliography Of A-Bomb Material Collected Through April 17, 1952	Atomic Bomb Casualty Comm.	7/53
NYO-6199	Studies On The Lead Method Of Age Determination, Part I	J. Kulp et al	
ORNL-1628	Fractional Separation Of Rare Earths By Precipitation With Mandelic Acid	B. Weaver	12/4/53
ORNL-1629	Fractional Separation Of Rare Earths By Oxalate Precipitation From Homogeneous Solution	B. Weaver	12/4/53
ORO-100	Effect Of Wetting On Heat Transfer Characteristics Of Liquid Metals: Progress Report	R. Boarts et al	7/31/53
RME-4025	Routine Testing Of Samples For Radioactivity In Mills And Assay Offices In The United States-A Progress Report	M. Mathez	8/53
TEI-326	An Improved Tubular Electric Furnace For The Closed-Tube Distillation Of Oil From Oil Shale	F. Cuttitta C. Kinser	5/53
UCLA-273	The Application Of Subminiature Techniques To Nuclear Instruments-A Portable Scaler For Operation From 6 Volts DC Or 115 Volts AC	J. Dietrich et al	11/30/53
USNRDL-414	Increased Tolerance To Hypoxia In Irradiated And In Food Deprived Rats	B. Newsom D. Kimeldorf	8/6/53

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UCRL-236- Rev.	Berkeley Proton Linear Accelerator	L. Alvarez et al	10/13/53
UCRL-2302	The Effect Of Age And Low Phosphorus ⁴⁵ Rickets On The Metabolism Of Calcium In Rats	D. Thomson	8/53
UCRL-2304	The Dependence Of Negative Pion Produc- tion On Neutron Number	W. Dudziak R. Sagane	8/53
UCRL-2312	Some Measurements On A High-Vacuum High-Speed Ion Pump	J. Foster, Jr.	8/17/53
UCRL-2317	Dependence Of Positive Pion Production Cross Sections On Atomic Number At Low Energies	R. Sagane W. Dudziak	9/8/53
UCRL-2326	Kinetics Of Cyclic Metabolic Systems And Their Application In The Study Of The Mechanism Of Photosynthesis	D. Bradley	8/53
UCRL-2352	Seminar In High Energy Physics, Isotopic Spin, Isotopic Parity, And Charge Dependence Of Nuclear Forces	E. Vaughan	4/24/53
UCRL-2354	Instructions For Use Of 184-Inch Cyclotron	J. Ise, Jr. G. Millburn	10/1/53
UCRL-2357	Fast-Neutron Scintillation Survey Meter	B. Thompson	10/28/53
UCRL-2374	The Effect Of Thyroid Extract On Serum Lipoproteins And Serum Cholesterol	B. Strisower et al	10/22/53
UCRL-2381	Interaction Of Heparin Active Factor And Egg-Yolk Lipoprotein	A. Nichols et al	10/53
UCRL-2421	List Of Unclassified Reports Received In The UCRL Information Division During The Period Of November 16- 30, 1953		12/1/53