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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 OCTOBER 16 - 31, 1958

November 4, 1958

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 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)
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 OCTOBER 16 - 31, 1958

Radiation Laboratory
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	BIOSCIENCES		
HW-56636	Translocation and Excretion of Pulmonary Deposited Plutonium Oxide.	W. J. Blair	8-1-58
HW-56928	Quarterly Progress Report. Research and Development Activities in the Field of Radiological Sciences [for] April - June, 1958.	J. W. Healy, ed.	7-28-58
ITR-1476	Large Neutron-Gamma Irradiation Experiment. Operation Plumbob Preliminary Report. Project 39.6a.	U. S. Grant Kuhn, III, R. E. Kyner Tennessee. Agricultural Experiment Station, Oak Ridge	5-58
LA-2216	Annual Report of the Health Division [for] 1957.	T. L. Shipman	10-17-58
LA-2238	The Geneva Counter. A Large Liquid Scintillation Counter for Men and Mesons.	E. C. Anderson, F. N Hayes, R. D. Hiebert	10-15-58
MISC-1958-394	Cobalt-60 from Thermonuclear Tests in the Atmosphere. Notas de Física, Vol. 4, No. 6.	L. Marquez, N. L. Costa, I. G. Almeida, Rio de Janeiro. Centro Brasileiro de Pesquisas Físicas	5-22-58

MISC-1958-395	Radioisotopes from Fusion in Rain Water: Co^{57}, Mn^{54}, and Co^{60}. Notas de Fisica, Vol. 4, No. 7.	L. Marquez, N. L. Costa, I. G. Almeida Rio de Janeiro. Centro Brasileiro de Pesquisas Físicas	6-4-58
ONRL-67-58	Lausanne Symposium on Noxious Effects of Low Level Radiation.	J. A. O'Donoghue Office of Naval Research, London.	9-9-58
ORO-176	Alignment Charts for Shape Parameters of Atmospheric Diffusion and Deposition Patterns.	F. Gifford, Jr. Weather Bureau, Oak Ridge, Tenn. and Oak Ridge Operations Office. Research and Development Div., AEC.	9-58
UR-534	A Multiple Chamber Exposure Unit Designed for Chronic Inhalation Studies.	L. J. Leach, C. J. Spiegl, R. H. Wilson, et al.	10-3-58
USNRDL-TR-254	Antigenic Stimuli for Transplantation Immunity to Rat Bone Marrow Heterografts in Lethally X-Irradiated Mice.	G. W. Santos, L. J. Cole, R. M. Garver	7-7-58
USNRDL-TR-256	Protecting and Cleaning Hands Contaminated by Synthetic Fallout Under Field Conditions.	R. H. Black	8-27-58

CHEMISTRY

*AD-87867	A Basic Study of the Physics of Aerosol Formation. Final Technical Report.	W. G. Cutler, W. E. Meyer Penn. State Coll., University Park	7-1-58
*AEC-tr-2411	The Preparation of Chemically Pure Vanadium from the Gas Phase, by G. Jantsch and F. Zemek. Trans. from Monatshefte für Chemie und verwandte Teile anderer Wissenschaften 84, 1119-26 (1953).		
*AEC-tr-2450	Information on Nitric Acid. X. Gas Analysis Methods in the System N_2 - NO - NO_2 - N_2O_4 - N_2O_3 - HNO_2 - HNO_3, by A. Klenenc. Trans. from Monatshefte für Chemie und verwandte Teile anderer Wissenschaften 83, 334-45 (1952).		
*AEC-tr-3202	Reactions of Cold Liquid Amalgams with Gases. III. Transformations with Nitrogen Monoxide, by Hans Hohn, V. Gutmann, and O. Sova. Trans. from Monatshefte für Chemie und verwandte Teile anderer Wissenschaften 88, 502-16 (1957).		
AERE-C/R-1575 (1 to 6) (Supplement 2)	Selected Abstracts of Atomic Energy Project. Unclassified Report Literature in the Field of Radiation Chemistry. and Bibliography of the Published Literature. 2nd Annual Supplement. (Papers Noted up to December 1957.)	R. W. Clarke, Comp.	1958
AERE-C/R-2297	Pulse Polarography.	G. C. Barker, A. W. Gardner	8-58
AERE-C/R-2566	The Polonium Chemistry Project (August 1953 - April 1958)	K. W. Bagnall, D. S. Robertson, J. H. Freeman, et al.	7-58
AERE-CE/R-2470	Purification of Uranium Fuels by Slagging and Filtration.	R. F. Taylor, D. L. Banfield,	7-58

*Microcards

AERE-EL/M-70	The Integration of Currents Flowing Through an Electrolytic Cell.	E. H. Cooke-Yarborough	3-4-52
AERE-Lib/Trans-797	The Binary Systems: UC with TiC, ZrC, VC, NbC, TaC, Cr_3C_2, Mo_2C and WC, by H. Nowotny, R. Kieffer, F. Benesovsky, and E. Lambe. Trans. from Monatshefte für Chemie und verwandte Teile anderer Wissenschaften 88, 336-43 (1957).		
AERE-Lib/Trans-798	The Investigation and Choice of Alloys for High-Temperature Thermocouples, by A. A. Rudnitskii and I. I. Tiurin. Trans. from Zhurnal Neorganicheskoi Khimii 1, 1074-90 (1956).		
ANL-5875	The Fluorination of Plutonium Tetrafluoride.	M. J. Steindler, D. V. Steidl, R. K. Steunenberg	6-58
APEX-411	Irradiation Testing of Organic Liquids.	G. W. Pomeroy, V. P. Calkins	9-5-58
BNL-471	Pilot Plant Fluorination of Uranium Fuel Elements by Bromine Trifluoride.	G. Strickland, F. L. Horn, R. Johnson	7-26-57
BNL-508	The Nondestructive Analysis of Ancient Potsherds Through Neutron Activation.	E. V. Sayre, A. Murrenhoff, C. F. Weick	4-1-58
BNL-511	Reprocessing of Power Reactor Fuels. The Enrico Fermi Fast Breeder Reactor Fuel. Progress Report No. 1.	C. W. Pierce, B. Manowitz	6-58
BNL-WGW-1	AGS Water.	W. G. Walker	10-29-57
CF-58-9-50	Electrolysis Cell for Recombination Studies.	R. S. Culver Oak Ridge Nat'l Lab., Oak Ridge, Tenn.	9-18-58

DP-294	A Stable Diluent for Purex Process Extractants.	H. Pollock	6-58
GAT-247	Four-Tower Water Treatment Test Facility.	R. G. Murray, M. E. Tester Goodyear Atomic Corp., Portsmouth, Ohio	9-23-58
IDO-14441	The Effect of Silicon in the Reprocessing of a Uranium Aluminum Alloy.	O. W. Parrett, K. L. Rohde Phillips Petroleum Co. Atomic Energy Div. Idaho Falls, Idaho	5-10-58
IDO-14443	Technical Progress Report for January Through March, 1958. Idaho Chemical Processing Plant.	C. E. Stevenson Same	9-15-58
IDO-14448	Ruthenium Behavior in a Nitric Acid Scrubber.	C. E. May, B. J. Newby, K. L. Rohde, et al. Same	9-29-58
IGO-AM/W-176	The Determination of Boron in Gaseous Carbon Dioxide.	U.K.A.E.A. Industrial Group. Windscale Works, Sellafield, Cumb., England	1958
IGR-TN/CA-850	The Preparation of Boron Isotopic Standards.	P. G. Bentley, A. N. Hamer U.K.A.E.A. Industrial Group. Capenhurst, Ches., England	1958
IGR-TN/CA-875	The Thermal Conductivity of Solid Boron Trifluoride.	E. J. Burton, P. J. Stokes, A. B. Murphy Same	1958
ISC-851	Quantitative Separation of Small Amounts of Rare Earths from Thorium, Uranium, and Zirconium by Ion Exchange.	H. J. Hettel, V. A. Fassel Ames Lab., Ames, Iowa	12-56

ISC-1014	Elution of Copper and Neodymium from a Cation-Exchange Resin with Ammonia-Ethylenediaminetetraacetic Acid Solutions.	L. K. Matson, F. H. Spedding Ames Lab., Ames, Iowa	12-57
JENER-57	Separation of U(VI), Pu(VI) and Pu(IV) from Zr and Nb on a Column of Silica Gel.	D. Cvjeticanin Joint Establishment for Nuclear Energy Research Kjeller, Norway	8-58
JENER-PUB-15	X-Ray and Neutron Diffraction Study of Calcium Hypophosphite and Phosphorous Acid.	B. O. Loopstra Same	1958
MISC-1958-400	Research in Photochemical and Photoemission Processes in Nitroaromatics and in Other Compounds. Final Report [for the Period] September 15, 1955 Through August 31, 1958.	E. H. Gilmore Oklahoma State Univ. of Agriculture and Applied Science Research Foundation, Stillwater	9-58
Monograph 3010	Stark Effect from 1.1 to 2.6 Millimeters Wavelength; PH_3, PD_3, DI, and CO. Reprinted from Journal of Chemical Physics 28, 427-9 (1958).	C. A. Burrus Bell Tel. Labs., Inc., N.Y.	7-58
Monograph 3014	Stark Effect at 2.0 and 1.2 Millimeters Wavelength; Nitric Oxide. Reprinted from Physical Review 109, 1553-6 (1958).	C. A. Burrus, J. D. Graybeal Same	7-58
Monograph 3019	Optical Properties of Several Ferrimagnetic Garnets. Reprinted from Journal of Applied Physics 29, 539-41 (1958).	J. F. Dillon, Jr. Same	7-58
Monograph 3033	Stress-Enhanced Diffusion in Glass. I. Glass Under Tension and Compression. II. Glass Under Shear. Reprinted from Journal of Chemical Physics 28, 218-29 (1958).	K. B. McAfee, Jr. Same	7-58
Monograph 3034	Elastic Moduli of Single Crystal Germanium as a Function of Hydrostatic Pressure. Reprinted from Acoustical Society of America, New York. Journal 30, 314-8 (1958).	H. J. McSkimin Same	7-58

Monograph 3041	Junction Delineation in Silicon by Gold Chemiplating. Reprinted from Electrochemical Society, New York. Journal 105, 170-2 (1958).	S. J. Silverman, D. R. Benn Bell Tel. Labs., Inc., N.Y.	7-58
Monograph 3047	The Thirty Years of Plastics Impact Testing. Parts I and II. Reprinted from Plastics Technology 4, 223-7, 230, 240 (1958). and Plastics Technology 4, 348-52 (1958).	R. F. Westover Same	7-58
Monograph 3048	Chromatrographic Adsorption of Polystyrene. Reprinted from Journal of Polymer Science 27, 149-66 (1958).	Si Jung Yeh, H. L. Frisch Same	7-58
Monograph 3056	Evaluation of Surface Concentration in Silicon; Measuring Sheet Resistivities. Reprinted from Bell System Technical Journal 37, 699-718 (1958).	Same	8-58
Monograph 3057	Piezoelectric and Dielectric Characterisitcs of Single-Crystal Barium Titanate Plates. Reprinted from Bell System Technical Journal 37, 719-38 (1958).	A. H. Meitzler, H. L. Stadler Same	8-58
Monograph 3061	Dielectric Properties of Single Domain Crystals of $BaTiO_3$ at Microwave Frequencies. Reprinted from Physical Review 109, 1091-3 (1958).	T. S. Benedict, J. L. Durand Same	8-58
Monograph 3064	Weathering of Polyvinyl Chloride; Effect of Composition. Reprinted from Chemical and Engineering Data Series 3, 131-40 (1958).	J. B. DeCoste, J. B. Howard, V. T. Wallder Same	8-58
NARF-58-39T	The Effect of Nuclear Radiation on Protective Coatings.	B. M. Minden Convair, Fort Worth, Tex.	9-12-58
ORNL-2558	Decladding of PWR Blanket Fuel Elements with Aqueous Ammonium Fluoride Solutions.	L. M. Ferris	10-9-58
ORNL-2584	Chemistry Division Annual Progress Report for Period Ending June 20, 1958.		10-23-58

TID-5276(2nd ed.)	Hot Laboratory Equipment. 2nd Edition.	L. G. Stang, Jr., Comp. Brookhaven Nat'l Lab., Upton, N. Y. and Tech. Info. Service, AEC	4-58
Y-1233	Development of a Continuous Countercurrent High Efficiency Gas-Solids Contactor.	R. P. Levey, Jr., A. de la Garza, S. C. Jacobs, et al.	9-3-58

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DP-287	Measurement of Low Velocities in Liquids.	H. E. Wingo, Jr.	6-58
LA-2183	Low Temperature Flow of He^4 Through Narrow Channels.	E. F. Hammel	10-13-58
MISC-1958-174 #16	Accession List No. 16. Covering the Period September 1 to September 30, 1958.	Battelle Memorial Inst., Radiation Effects Info. Center, Columbus, Ohio	10-15-58
MISC-1958-388	Heat Transfer and Pressure Loss Performance of Griscom-Russell Special Small K-Fin Helically Finned Tubes.	T. C. Carnavos Griscom-Russell Co., Massillon, Ohio	5-58
WADC-TR-57-644	An Electron Beam Density Probe for Measurements in Rarefied Gas Flows.	F. C. Hurlbut Calif. Univ., Berkeley. Inst. of Eng. Res.	1-58

METALLURGY AND CERAMICS

AEC-tr-3415	The Preparation of Uranium Monocarbide and its Reactions With Carbides of the Refractory Transition Metals, by H. Nowotny, R. Kieffer, and F. Benesovsky. Trans. from Revue de Métallurgie 55 453-8 (1958).		
ANL-5855	Irradiation of Prototype CP-4 (EBR-I) Reactor Fuel Slugs in the CP-3' Goat Hole.	S. H. Paine, P. J. Persiani, W. F. Murphy	8-58
BMI-1292	Design Features of Capsules for High-Temperature Irradiations.	J. H. Stang, W. H. Goldthwaite. B. W. Dunnington	9-22-58
CRDC-718	Irradiation of Compacted and Sintered Uranium Oxide in the X-2 Loop Tests X-2-f and X-2-i.	R. F. S. Robertson, G. M. Allison Atomic Energy of Canada Ltd. Chalk River Project, Chalk River, Ont.	5-58
HW-55667	Electron Beam Vacuum Welding; Development of Process.	W. L. Wyman, W. I. Steinkamp	4-8-58
IDO-16477	Metallurgical Examination of a Melted Spert-I Type-B Fuel Plate.	W. O. Schaffnit Phillips Pet. Co. Atomic Energy Div., Idaho Falls, Idaho	9-18-58
IGR-TN/W-905	Equipment for the Machining and Tensile Testing of Irradiated Uranium.	D. Shaw, W. G. Hufton U.K.A.E.A. Industrial Group. Windscale Works, Sellafield, Cumb., England	1958
ISC-1047	Tabulation, Bibliography, and Structure of Binary Intermetallic Compounds. IV. Compounds of Zinc, Cadmium, and Mercury.	R. M. Stanton, P. F. Woerner, C. L. Vold, et al. Ames Lab., Ames Iowa	8-1-58

KAPL-1929	Hafnium Metal Powder by the Hydride-Dehydride Process.	R. N. Honeyman, C. T. Waldo	5-6-58
KAPL-1965	The Effects of Transients and Longer-Time Anneals on Irradiated Uranium-Zirconium Alloys.	W. V. Johnston	10-3-58
LA-2231	The Preparation of Plutonium Alloys in the Reduction Process.	A. N. Morgan, Jr.	10-10-58
Monograph 3031	Microstructure of Ceramics for Communication Equipment. Reprinted from American Ceramic Society, Columbus, Ohio. Bulletin 37, 152-5 (1958).	W. F. Janssen, M. D. Rigterink Bell Tel. Labs., Inc., N.Y.	7-58
NAA-SR-2852	The Oxide-Drossing Furnace for the Processing Re-Fabrication Experiment.	J. L. Ballif	9-1-58
ORNL-2495	Progress Report on Volatility Pilot Plant Corrosion Problems to April 21, 1957.	L. R. Trotter, E. E. Hoffman	10-17-58
SCTM-298-58(16)	Elevated Temperature Properties of 2024-T3 Aluminum Alloy.	D. R. Adolphson Sandia Corp., Albuquerque, N. Mex.	9-16-58
SCTM-299-58(16)	Elevated Temperature Properties of 7075-T6 Aluminum Alloy.	D. R. Adolphson Same	9-16-58
SCTM-300-58(16)	Elevated Temperature Properties of 2014-T6 Aluminum Alloy.	D. R. Adolphson Same	9-16-58
SEP-250	Fundamentals of Sintering. III. Third Annual Progress Report for June 30, 1957 to June 30, 1958.	A. L. Pranatis, L. S. Castleman, L. Seigle	6-30-58
USBM-U-505	Zirconium Progress Report for the Period of June 15, 1958 - September 15, 1958.	H. Kato, R. A. Beall, H. P. Holmes, et al. Bureau of Mines	10-15-58

PHYSICS

ADI-4999	Excitation Functions and Cross Sections. Progress Report No. 4. Microfilm Supplement C. Rev. 1.	O. U. Anders, W. W. Meinke, comps. American Documentation Inst., Washington, D.C. and Michigan. Univ., Ann Arbor	6-18-56
AERE-I/R-2630	Flux and Cross-Section Measurements with Fast Fission Neutrons in Bepo and Dido.	C. E. Mellish, J. A. Payne, R. L. Otlet	7-58
AERE-M/R-2603	Calculations on the Release of Stored Energy in Graphite.	D. E. Rimmer, W. M. Lomer	6-58
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BNL-EDC-26	Quadrupole and Sextupole Requirements.	E. D. Courant	7-12-57
BNL-GRL-1	Magnetic Measurements on Configuration No. 1 and No. 2 of Model No. 2.	G. R. Lambertson	6-20-55
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BNL-JPB-7	Application of the Linear Accelerator for Production of Intense Proton Beams at 10 Bev.	J. P. Blewett	12-31-56
BNL-LJL-5	Adjustment of ν by Azimuthal Relocation of Magnets.	L. J. Laslett	6-20-55
CERN-58-6(a)	Le Synchrotron a Protons du Cern. (1ère Partie). (The Proton Synchrotron at CERN. Part I.	E. Regenstreif	7-58

CERN-58-22	The 2.5 MW H.F. Amplifier of the CERN Linear Accelerator.	E. Zaccheroni	9-58
CERN-58-23	Introduction to Field Theory. (Lectures Given to the Experimental Physicists at Cern.)	V. F. Weisskopf	9-15-58
CWR-400-4	Energy Distributions of Neutrons Scattered from Lead.	C. E. Mandeville, D. L. Kavanagh Curtiss-Wright Corp. Res. Div., Quehanna, Penna.	3-58
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CWR-496	Interpolation of Experimental Cross Sections for Elastic Scattering of Neutrons from Iron.	S. C. Snowdon Same	8-1-57
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HEPL-95	Photoproduction of Pion Pairs in Hydrogen.	R. M. Friedman, K. M. Crowe Stanford Univ., Calif. High Energy Physics Lab.	10-56

IDO-16370	Calculated Efficiencies of Cylindrical Radiation Detectors.	S. H. Vegors, Jr., L. L. Marsden, R. L. Heath Phillips Pet. Co. Atomic Energy Div., Idaho Falls, Idaho	9-1-58
KAPL-1651	Analog Computing Equipment for Analysis of Neutron Cross-Section Data.	R. W. Hockenbury, C. R. Pierce, M. L. Yeater	3-7-58
LA-2202	Magnetic Compression of Shock Preheated Plasma.	E. M. Little, D. B. Thomson	10-21-58
MISC-1958-380	Equilibrium Charges of Fission Fragments in Gases.	C. B. Fulmer, B. L. Cohen ORNL, Tenn.	[1956?]
MISC-1958-381	Energy Distributions of Product Particles from Nitrogen-Induced Nuclear Reactions on Beryllium.	C. D. Goodman, J. L. Need ORNL, Tenn.	[1957?]
MISC-1958-382	Neutron-Transfer Reactions from the Nitrogen Bombardment of Be, C, O, Na, and $Mg^{24, 25, 26}$.	M. L. Halbert, T. H. Handley, J. J. Pinajian, et al. ORNL, Tenn.	11-56
MISC-1958-383	Protons and Alpha-Particles from the Nitrogen Bombardment of Aluminum.	A. Zucker Same	11-57
MISC-1958-385	Characteristics of Ruby for Maser Applications. Technical Report No. 156-2.	W. S. Chang, A. E. Siegman Stanford Univ., Calif. Stanford Electronics Labs.	9-30-58
MISC-1958-389	Beziehungen Zwischen Klassischen Und Relativistischen Invarianzoperationen. (Relation between Classic and Relativistic Invariance Operations.) Notas de Física, Vol. 4, No. 1.	H. Zocher, C. Török, G. Beck Rio de Janeiro. Centro Brasileiro de Pesquisas Físicas	1958

MISC-1958-390	Properties of Nuclear Matter. Notas de Física, Vol. 4, No. 2.	L. C. Gomes, J. D. Walecka, V. F. Weisskopf Rio de Janeiro. Centro Brasileiro de Pesquisas Físicas and Massachusetts Inst. of Tech., Cambridge. Lab. for Nuclear Science	1-10-58
MISC-1958-391	Measurements of (γ,d) and (γ,np) Reactions in the Threshold Region. Notas de Física, Vol. 4, No. 3).	J. Goldemberg, L. Marquez Rio de Janeiro. Centro Brasileiro de Pesquisas Físicas	1-10-58
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MTec-245	Characteristics of Chalk River Ion-Chambers Types TPA, TPD and TPJ.	B. S. Smith, C. O. Peabody, D. S. Craig Atomic Energy of Canada Ltd. Chalk River Project, Chalk River, Ont.	4-12-46
NAA-SR-2562	Some Refinements in the Calculation of Resonance Integrals.	J. Chernick, R. Vernon	9-1-58
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AECU-3607(Vol.I)	Final Physics Report for the Engineering Test Reactor.	B. Wolfe General Electric Co. Atomic Power Equipment Dept., Schenectady, N. Y.	6-25-56
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AERE-R/M-168	A Measurement of the Contribution of the Doppler Effect to the Temperature Coefficient of Reactivity in a Fast Reactor.	A. R. Baker, T. A. J. Jaques	6-58
AERE-R/M-176	An Absolute Measurement of the Effective Delayed Neutron Fraction in the Fast Reactor Zephyr.	D. B. McCulloch	7-58
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DP-307	A Preliminary Evaluation of Gas Cooling of Power Reactors Moderated by Heavy Water.	R. C. Holmes, L. Bernath, E. W. Hones	8-58
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IDO-16466	A Standard Practices Guide for Hazard Analysis of Experimental Systems.	R. J. Nertney Same	9-8-58
IDO-16473	Operational Status of the Engineering Test Reactor as of March 1, 1958.	J. H. Rainwater Same	7-31-58
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NAA-SR-2986	Design of an Eddy-Current Brake for a Sodium-Cooled Nuclear Power Reactor.	R. S. Baker	9-15-58
ORNL-2201	Two Beryllium-Moderated Critical Assemblies.	E. L. Zimmerman	10-21-58
ORNL-2568	HRP Blanket Processing Studies of O_2-H_2 Hazards in a Loop Pressurizer.	P. A. Haas	10-9-58
ORNL-2575	Review of Experimental and Theoretical Studies Concerning the Age of Fission Neutrons in Heavy Water.	M. Tobias	10-17-58
YAEC-60	Preliminary Hazards Summary Report. Part B. License Application (Docket No. F-29)	Yankee Atomic Elec. Co. Boston	4-57
YAEC-95	Monthly Progress Report for the Period August 1 to 31, 1958.	R. W. Garbe, H. E. Walchli Westinghouse Elec. Corp. Atomic Power Dept., Pittsburgh	9-20-58

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ANL-5926	Additions to the Library. Report for the Period September 16-30, 1958. Technical Reports and Books.	P. A. Schulze	n.d.
ASTIA-U58-15	Technical Abstract Bulletin. Bulletin No. U58-15.		10-1-58
ASTIA-U58-16	Technical Abstract Bulletin. Bulletin No. U58-16.		10-15-58
CIA-U58	Consolidated Translation Survey (Unclassified Version) for August 1958. Number 8.	Central Intelligence Agency, Washington, D.C.	9-22-58
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TID-4558(1st Rev.)	Questions and Answers on Atomic Energy Commission Access Permits.		9-58

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UCRL-8202 Rev.	Positron Spectrum from the Decay of the μ Meson.	W. F. Dudziak, R. Sagane, J. Vedder	8-6-58
UCRL-8334	Bevatron Operation and Development. XVII. February, March, April, 1958.	W. D. Hartsough	6-26-58
UCRL-8373	Nuclear Spectroscopic Studies of Neutron-Deficient Isotopes in the Rare Earth Region.	K. S. Toth, J. O. Rasmussen	7-58
UCRL-8374	Two New Neutron-Deficient Terbium Activities.	K. S. Toth, J. O. Rasmussen	7-58
UCRL-8418	Fast-Neutron Surveys Using Indium-Foil Activation.	L. D. Stephens, A. R. Smith	8-13-58
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UCRL-8424	The Antiproton-Nucleon Annihilation Process. II.	O. Chamberlain, G. Goldhaber, L. Jauneau, T. Kalogeropoulos, E. Segrè, R. Silberberg	8-18-58
UCRL-8426	An Extension of Henry's Law to Higher Concentrations.	R. E. Meredith	8-58
UCRL-8435	Occurrence of an Unknown Radioactive Substance After Short-Time Photosynthesis in $C^{14}O_2$.	O. Kandler	9-58
UCRL-8436 Abstract	Radiation Chemistry of Organic Compounds Containing the N-C Bond.	W. M. Garrison	9-58

UCRL-8452	Alpha-Decay Barrier Penetrabilities with an Exponential Nuclear Potential. I. Even-Even Nuclei.	J. O. Rasmussen	9-58
UCRL-8454	Zeeman Investigations of Curium-242.	J. C. Hubbs, R. Marrus, J. Winocur	9-18-58
UCRL-8461	The Unphysical Region in Heavy-Meson--Nucleon Dispersion Relations.	San Fu Tuan	9-24-58
UCRL-8467	Differential Cross Sections for the Production of Polarized Positons and Negatons by Polarized Photons in an External Field.	C. R. Johnson	9-16-58
UCRL-8482	Equipment and Methods for Automatic Track Analysis.	W. H. Barkas	8-14-58
UCRL-8500	List of Unclassified Reports Received and Issued by the UCRL Information Division During the Period of October 1 - 15, 1958.		10-17-58
UCRL-8529	Weak Interaction Experiments at the Berkeley Synchro-cyclotron.	R. P. Haddock	10-58
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UCID-386 (7911-01 M34)	72" Hydrogen Bubble Chamber - First Operation.	R. Smits, H. Hernandez	8-28-58
UCID-387 (3320-01 M120)	Combustion.	P. Hernandez	5-28-56
UCID-388 (4311-14 MT1)	Magnet Test Plan - Bubble Chamber Development, 20 x 50 Model, Effects of Return Path Iron.	C. G. Dols	3-15-55
UCID-389 (4601-81 M7)	General Chemistry Research. High Current Cyclotron Prelim. Studies. Comparison of Possible Model Magnets.	R. Burleigh	4-10-58
UCID-390	Linear Amplifier Model III 2T404.	J. Barale	9-18-51
UCID-391	Linear Amplifier Model III Schematic 2T404.	A. Stripeika	11-9-51
UCID-392 (4330-01 M3)	Physics Research - High Current Cyclotron Development - 88" Cyclotron - Preliminary Man-Power Estimate.	R. Burleigh.	10-1-58
UCID-393	Tektronix Scopes Comparative Specifications.	A. J. Stripeika	1-4-52
UCID-394 (3320-01 M88)	Specific Heat Ratio of Hydrogen Gas.	W. M. Brobeck	4-18-55
UCID-395 (3320-01 M89)	Density and Vapor Pressure of Liquid Hydrogen.	W. M. Brobeck	4-18-55
UCID-396 (3320-01 M90)	Specific Heat of Hydrogen Gas.	W. M. Brobeck	4-18-55
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UCID-398 (3320-01 M104A)	Hays "Shur-Flo" Automatic Interlocks.	W. O. Brunk	12-20-55

UCID-399 (3320-01 M109)	Pittsburgh Plate Glass Co. Technical Glass Bulletin No. 6, 1941. Strength of Plate and Laminated Glass.		1-31-56
UCID-400 (3320-01 M113)	Electrical Resistivity of Conductors at Low Temperatures and in 0, 10,000 and 50,000 Gauss Magnetic Fields.	P. Hernandez	3-15-56
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UCID-403 (3320-01 M60)	Heat Conductivity of Metals and Alloys.	R. Nickerson	3-30-53
UCID-404 (3104-01 M130)	Heat Transfer - Cryogenics - Joy Tube Heat Exchangers.	R. Byrns	12-11-56
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UCID-407 (3140-01 M140)	Prandtl Number of Normal Molecular Hydrogen 40°K to 300°K.	H. P. Hernandez	2-5-57
UCID-408 (3140-01 M141)	Viscosity of Normal Molecular Hydrogen 30°K - 300°K.	H. P. Hernandez	2-5-57
UCID-409 (3140-01 M150)	Memorandum - 20 March 1957. Subject: Derivation of the Expressions for Radiant Heat Transfer Between Parallel Planes and Between Concentric Cylinders.	R. G. Finke	3-20-57
UCID-410 (7318-25 M222A)	Specification for Impregnating Magnet Coils with Epoxy Resins.	E. F. McLaughlin	8-16-55
UCID-411 (4310-03 MT2)	Magnetic Measurements Ten Inch Bubble Chamber Magnet AEC 6897.	L. G. Ratner	11-11-55

UCID-412 (4310-03 MT3)	15" Bubble Chamber Magnet AEC 6897 Magentic Measurements.	J. Dorst, L. Ratner	1-23-58
UCID-413 (4310-17 MT1)	Brief Discussion of Use of Bismuth Resistor for Measuring Magnetic Flux Density.	C. G. Dols	2-28-55
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UCID-415 (4310-17 MT3)	Flux Density Functions for Parallel Gaps from Conformal Mappings.	C. G. Dols	6-23-55
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UCID-423 (4902-02 M13)	184 Cyclotron - "Juno" - 12" Aperture Quadrupole Design Notes.	A. O. DuBois	5-9-58
UCID-424 (7205-11 M280A)	Bevatron Experimental Facilities - 8" - 20,000 Gauss Air Gap "H" Magnet - Low Power.	W. W. Salsig, Jr.	8-25-58

UCID-425 (CC4-4)	Useful Diodes for Millimicrosecond Circuits.	F. Evans	8-1-58
UCID-426 (4314-03 EE521)	"Glowing Filaments" a Cause of Poor Performance of Certain Multiplier Phototubes.	Q. Kerns, F. Kirsten	1-9-58
UCID-427 (4311-01 EE450)	Model V Linear Amplifier.	W. W. Goldsworthy	3-8-57
UCID-428 (EE-572)	Results of Tests on Dumont K1549 14-Stage Linear-Multiplier Phototubes.	F. A. Kirsten	9-5-58
UCID-429 (7911-01 M35)	72" Bubble Chamber - General Mechanical Shop Work for Liquid Hydrogen Run.	H. P. Hernandez	9-23-58
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UCID-431 (4320-53 M7)	Resume of the Track Detection Problem: Part I.	B. H. McCormick, M. Horovitz	9-23-58
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EE-573	Notes on Thermo-Electricity.	F. Voelker	9-10-58
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4310-15 MT4	Magnetic Measurements - Propane Chamber in 40" Sagane Magnet.	L. G. Ratner	10-27-58
4514-41 MT1	Ion Magnetron - Magnetic Field Measurements.	J. H. Dorst	9-12-58
4601-66 MT1	General Electric Adiabatic Demagnetization Magnet.	L. G. Ratner	10-7-58

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3140-01 M200	Methods of Water Cooling Copper Sheet.	J. G. Dorward	9-15-58
3140-01 M201	Time Analysis of 90" Cyclotron.	S. Auld	6-58
3140-01 M202	Time Analysis of 184" Cyclotron.	S. Auld	6-58
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3140-01 M206	"Luxorb" Light Absorbing Coating for Lens and Prism Elements.	J. O. Turner	10-27-58
4121-12 M34	184 Cyclotron Modification - Strain Gage and Load Cell Check.	R. Peters, H. Dea	9-29-58
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4310-10 M5	General Physics Research (Moyer's Group) - Critical Point Cerenkov Counter.	M. Schwager	6-12-58
4703-10 M1	Resume' of a Meeting Between UCRL and Westinghouse Concerning Ion Rocket Propulsion.	E. McLaughlin	10-3-58
4901-01 MT6	Bevatron Magnet. Magnetic Field Measurements.	L. G. Ratner	9-24-58
4902-01 M5	184" Cyclotron Operation - Operation and Maintenance 184 Magnet Startup Noises.	R. Peters	10-16-58
4910-03 M5	90" Cyclotron Operations - Additional Equip. and Components - Low Temperature Refrigeration System Testing and Charging Procedure.	P. Kennedy	9-18-58

4910-03 M6	90" Cyclotron Operations - Additional Equip. and Components - Low Temperature Refrigeration System - Operating Procedure.	P. Kennedy	9-18-58
4910-03 M7	90" Cyclotron Operation - Additional Equipment and Components - Low Temperature Refrigeration System General Description.	P. B. Kennedy	9-18-58
7204-12 M1	~~Accelerator Improvements-184" Cyclotron. Magnet, 12" Quadrupole Assembly.~~	L. P. Henderson	9-23-58
7204-12 M2	Magnet, 12" Quadrupole Assembly.	L. P. Henderson	10-9-58
7303-02 M24	Bev. Vac. System - Envelope - QI - 11 1/4° Clipper - Punching Procedure.	J. Gunn	9-26-58
7303-02 M25	Bevatron Vacuum System Envelope - Quad III 29° Experimental Area Thin Window - Window Punching and Assembly Procedure.	O. W. Callahan	10-11-58
7307-01 M33	Bevatron Experimental Facilities - 8" - 20,000 Gauss Air Gap "H" Magnet - Low Power.	K. Lou	9-2-58
7311-29 M19	Miscellaneous Construction - Bevatron Shielding - Armor Plate from Idaho Falls.	L. P. Henderson	10-9-58