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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 JANUARY 1-15, 1958

January 16, 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 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.

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Radiation Laboratory
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January 16, 1958

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*AF-SAM-57-118	A Flash-Triggered Electronic Timing and Multiple Shutter System.	E. O. Richey School of Aviation Medicine, Randolph AFB, Tex.	4-17-57
*AF-SAM-57-119	Effect of Radiation on Creatine Synthesis in the Dog.	D. R. Anderson, B. Joseph, C. M. Williams, et al Same	4-17-57
*CF-57-8-1	A Current Review of Body Fluid Analysis, Procedures, and Method of Reporting-- January 1957.	P. E. Brown, D. M. Davis, L. C. Henley Oak Ridge Nat'l. Lab.	8-1-57
FWE-130	A Film-Phosphor Dosimeter.	C. F. Barnaby Gt. Brit. Atomic Weapons Res. Establishment, Aldermaston, Berks, England <u>and</u> Technical Cooperation Program, AEC.	9-56

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*HW-20628	Recent Changes Affecting the Specifications Concerning Activity Levels in Reclaimed Uranium.	C. C. Gamertsfelder	3-27-51
*HW-50600	Effect of Chemicals Upon Infiltration of Water Into Soils.	K. C. Knoll	6-4-57
*HW-51364	Nuclear Safety in Processing Uranium Solutions of all Enrichments.	N. Ketzlach	7-15-57
*HW-52055	Effect of Detergents Upon Absorption of Radioisotopes by Soils.	K. C. Knoll	8-1-57
*IGR-TN/R-541	Monitoring for a Criticality Accident in a Plant Processing Irradiated Materials.	F. R. Charlesworth U. K. Atomic Energy Authority, Industrial Group H. Co., Risley, Lancs, England	5-57
ITR-1451	Response of Protective Vaults to Blast Loading. Project 30.4 [of] Operation Plumbbob; Preliminary Report.	E. Cohen, E. Laing, Ammann and Whitney, New York	9-57
ITR-1467	Blast Biology. A Study of the Primary and Tertiary Effects of Blast in Open Underground Protective Shelters. Project 33.1 [of] Operation Plumbbob; Preliminary Report.	D. R. Richmond, R. V. Taborelli, T. L. Chiffelle, et al Lovelace Foundation for Medical Education and Res., Albuquerque, N. Mex.	9-57
ITR-1469	Tertiary Effects of Blast. Displacement. Project 33.3 [of] Operation Plumbbob; Preliminary Report.	R. V. Taborelli, I. G. Bowen Same	9-57
ITR-1470	Missile Studies with a Biological Target. Project 33.4 [of] Operation Plumbbob; Preliminary Report.	V. C. Goldizen, D. R. Richmond, T. L. Chiffelle Same	9-57

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ITR-1475	Blast Effects on an Air-Cleaning System. Project 34.4[of] Operation Plumbbob; Preliminary Report.	Richard Dennis, C. E. Billings Harvard Univ., Boston. Air Cleaning Lab.	9-57
ITR 1507	The Internal Environment of Underground Structures Subjected to Nuclear Blast. II. Effects on Mice Located in Heavy Concrete Shelters. Project 33.6[of] Operation Plumbbob; Preliminary Report.	D. R. Richmond, T. L. Chiffelle, R. T. Sanchez, et al Lovelace Foundation for Medical Education and Res., Albuquerque, N. Mex.	9-57
*NBS-1190	Calibration Study of One Tracerlab Civil Defense Survey Meter.	F. H. Day	10-11-51
UCLA-418	Molecular Interactions in Irradiated Solids.	A. Norman, W. Ginoza	12-20-57
UCLA-419	The Effect of Ionizing Radiation on Uptake of Lipoproteins by Ascites Tumor Cells. The Fatty Acid-Albumin Complex.	D. L. Fillerup, J. C. Migliore, J. F. Mead	12-20-57
UCLA-420	Semi-Annual Progress Report for the Period Ending December 31, 1957.		1-15-58
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CHEMISTRY

*A-49 (Del.)	Comparison of Different Methods Applicable to the Separation of the Uranium Isotopes.	H. C. Urey Columbia Univ., New York. Div of War Res.	[1942?]
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*A-78 (Del.)	The Separation of Isotopes of Mercury in a Ten-Cell Apparatus by the Cascade Evaporation Method. Progress Report	S. L. Madorsky, A. K. Brewer, Fertilizer Res. Lab., Washington, D. C.	11-25-40
*A-2352	Analysis of Vent Gases from the Fractionation Unit.	D. A. McCaulay, W. L. Rittschof Standard Oil Co. of Indiana, Chicago	7-24-45
*AECD-4241	Automatic Isotope Mass Spectrometer. Job Specification JS-741, Rev. 2.	Union Carbide Nuclear Co. K-25 Plant, Oak Ridge, Tenn.	9-16-55
*AERE-R/R-1954	The Effects of Irradiation on Graphite.	J. H. W. Simmons	6-5-56
*AFCRC-TR-56-205	A Review of Charge Transfer Processes in Gases. Geophysical Research Papers No. 48.	S. N. Ghosh, W. F. Sheridan, J. A. Dillon, Jr., et al Cambridge Res. Center., (Mass)	7-55
*AFOSR-TN-57-561	Magnetic Properties of Rare Earth Metals at Very Low Temperatures. (Period Covered) May 1, 1956 - July 31, 1957.	H. Leipfinger Munich. Physikalishes Institut der Technischen Hochschule.	7-31-57
*AFOSR-TN-57-607	Spectrum of L Auger Electrons from 81Tl^{208} and 83Bi^{212}	C. Geoffrion, G. Nadeau Laval Univ., Quebec	7-1-57
*ANL-4258(Del.)	Chemistry Division, Section C-11 Summary Report for July, August, and September 1948.		6-11-49
*ANL-4942(Del.)	Chemistry Division, Section C-1, Summary Report (for) April, May, and June, 1952.	D. W. Osborne	8-1-52
ANL-5804	An X-Ray Spectrometric Method for Determination of Plutonium in Solution.	D. S. Flikkema, R. V. Schablaske	11-57

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ANL-5810	The Determination of Fission Product Ruthenium.	R. P. Larsen, L. E. Ross, G. Kesser	12-57
*CF-51-3-78(Del.)	A Survey of Homogeneous Reactor Chemical Processing.	F. R. Bruce Oak Ridge Nat'l. Lab.	3-19-51
*CF-55-8-21	Measurement of the Viscosity of Composition 88.	S. I. Cohen, T. N. Jones Same	8-1-55
*CF-55-10-101	Radioactive Waste Economics: Optimum Storage Time Prior to Shipping to Disposal Site.	H. R. Zeitlin, J. W. Ullmann Same	10-24-55
*CF-55-11-97	Proposal for "25" or Thorex Waste Disposal: Selective Recovery of Fission Products in Relation to the Long-Range Aspects of Chemical Waste Economics.	A. T. Gresky, R. P. Wischow Same	11-17-55
*CF-56-4-171	Review of HRT-Core Processing Plant Design.	R. E. Blanco, H. K. Jackson, W. H. Lewis, et al Same	4-26-56
*CF-57-10-6	Lithium Symposium--Analytical Procedures and High-Temperature Corrosion. Reading List.	E. E. Hoffman, D. H. Hansen Same	10-1-57
*FMPC-1	Process Engineering Memorandum on TBP Extraction and Purification of Thorium Evaluation of Extended Runs at BMI; Job No. 3542 of the Feed Materials Production Center-Fernald, Ohio.	J. W. Delaplaine, N. R. Natale Catalytic Construction Co., Philadelphia.	6-3-52
*HARE-15	Pumping of Thoria Slurries in 1" Glass Loop.	R. Murdoch, E. R. Jaques Gt. Brit. Atomic Energy Res. Establishment, Harwell, Berks, England	6-14-55

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*HEC-80	Boron Isotope Separation with Anisole-Boron Trifluoride Complex.	K. O. Hambrock Hooker Electrochemical Co., Niagara Falls, N. Y.	8-26-57
*HW-19300	X-Ray Photometric Determination of Uranium in Metal Oxides.	M. C. Lambert, D. C. Bixby	11-6-50
*HW-28405	The Use of Phosphate to Suppress Extraction of Niobium and Zirconium in a Modified Purex Process System. Report of Invention.	E. E. Voiland	6-16-53
*HW-29348(Del.)	A Continuous Gamma Activity Monitor for the Product Stream of the Uranium Recovery Plant.	M. B. Leboeuf, R. E. Connally, U. L. Upson	10-1-53
*HW-30589(Pts. I and II.)	Reactor Section Standard Analytical Methods.		7-54
*HW-46065	Technical Information for Application of Differential Pressure Transmitters in Pulse Column Bottom Interface Control Systems.	A. E. Smith	10-8-56
*HW-48873	Criticality Considerations in Final Cycle Processing of Enriched Uranium Fuels.	N. Ketzlach	3-5-57
*HW-48884	Technical Information for the Application of Hypalon Rubber in Chemical Separations Plants.	J. H. Kleinpeter	3-5-57
*HW-50131	Technical Information for the Application of Fluoro-Rubber 1F4 (Poly-FBA) in Chemical Separations Plants.	J. H. Kleinpeter	5-7-57
*HW-51171	A Pumping System for Ground-Water Aquifer; Evaluation Tests.	J. R. Raymond	6-28-57
*HW-51362	A Method for the Evaluation of Radiation Damage to the Mechanical Properties of Plastics.	J. H. Kleinpeter	[5-23-57]
*HW-51386	Performance of a Turbomixer for Continuous Washing of Purex Organic.	J. J. Shefcik	7-3-57

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*HW-51663	Effects of Some Organic Amines on the Extraction Behavior of Ruthenium.	A. S. Wilson H. D. Warren	7-22-57
*HW-52375	A Preliminary Study of the Effect of Neutron Irradiation and Oxidation at Moderate Temperatures on the Structural Characteristics of CSF Graphite.	R. E. Woodley	9-4-57
*IDO-14195(De1.)	Corrosion of Aluminum-Uranium Fuel Assemblies in Storage Basin Water. Investigation Order No. 103.	W. J. Guay, T. L. Hoffman, R. H. Perkins American Cyanamid Co. Atomic Energy Div., Idaho Falls, Idaho	12-12-52
*IDO-28001	Polyphenyl-Coolant Burnout Studies. Monthly Progress Report No. 7 [for] May 16 through June 15, 1957.	K. Sato Aerojet General Corp., Azusa, Calif.	7-19-57
*IDO-28002	Polyphenyl-Coolant Burnout Studies. Monthly Progress Report No. 8 [for] June 16 through July 15, 1957.	K. Sato Same	8-9-57
*IDO-28003	Polyphenyl-Coolant Burnout Studies. Monthly Progress Report No. 9 [for] July 16 through August 15, 1957.	K. Sato Same	9-10-57
*IDO-28004	Polyphenyl-Coolant Burnout Studies. Monthly Progress Report No. 10 [for] August 16 through September 15, 1957.	K. Sato Same	10-16-57
*IGO-AM/W-77	The Sampling of Carbon Dioxide Under Pressure Prior to the Determination of Oil.	Gt. Brit. Windscale Works, Sellafield, Cumb., England	3-8-57
*IGR-TN/CA-484	Capabilities of the High-Resolution Nuclear Magnetic Resonance Spectrometer at R. and D. B., Capenhurst.	P. G. Bentley, A. N. Hamer Gt. Brit. Capenhurst Works, Capenhurst, Ches., England	8-57
*IGR-TN/R-551	Some Safe Methods for Storing Aqueous Solutions of U ²³⁵ .	A. Campbell U. K. Atomic Energy Authority. Industrial Group H. O., Risley, Lancs, England	7-57

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*IGR-TN/S-563	Liquid-Vapour Equilibrium Data for Aqueous Solutions of Uranyl Nitrate, Nitric Acid and Ammonium Nitrate.	F. W. Trowse Gt. Brit. Springfields Works, Springfield, Lancs, England	7-57
*IGRL-IB /R-13	Electrolysis of Fused Salts. Information Bibliography.	B. Yates, Comp. U. K. Atomic Energy Authority. Industrial Group H. C., Risley, Lancs, England	4-56
*ISC-841	Pyrometallurgical Separation of Uranium from Thorium.	P. Chiotti, H. E. Shoemaker Ames Lab.	[3-21-57]
*K-819(Del.)	The Direct Fluorination of Belgian Congo Ore.	R. H. Harrison	9-30-51
*K-847	Conversion of Uranium Compounds to Uranium Hexafluoride by Means of Chlorine Trifluoride. Part III. Fluorination of the Uranium Oxides at 60, 100, and 140°C.	R. L. Jarry, W. Davis, Jr.	12-21-51
*KAPL-M-SMS-74	Power Plant Coolant Technology Program.	S. L. Williams	7-5-57
*KLX-015(Del.)	Bulk Storage of Radium Cake--Preliminary cost Estimates.	Kellex Corp.	6-15-49
*KLX-1068(Del.)	Waste Metal Recovery Process Engineering Summary Report for July 18, 1949 - March 1, 1950. Research Project 15D-1 (103).	Same	3-7-50
KLX-10089	Fission Product Separations Study. Final Report [for] September 27, 1956 - June 30, 1957.	R. A. Keeler, C. J. Anderson	11-29-57
*KT-148	Separation of Zirconium-Hafnium Using Solutions Containing Tributylamine.	R. G. Shaver, J. V. Gaven, A. C. Herrington, et al Mass. Inst. of Tech., Oak Ridge, Tenn. Engineering Practice School	10-18-52
*LA-199j	Purification and Concentration of Solvent Extracted Plutonium by Oxalate Precipitation.	W. J. Maraman, A. J. Beaumont, R. L. Nance, et al	1-56

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LA-2153	Electrophoretic Deposition of Plutonium. A Feasibility Study.	K. A. Walsh	1-2-58
*M-2147	Chambers Works Process for the Manufacture of Crude Metallic Uranium.	G. Firth Du Pont de Nemours (E.I.) & Co. Jackson Lab., Wilmington, Del.	1-13-45
*MCW-18	The Removal of Molybdenum from Solutions of Uranyl Nitrate Prepared from Pitchblende.	A. E. Ruehle	4-1-46
*MCW-23	The Distribution of Boron and Molybdenum in the Recovery of Nitric Acid and Calcium Nitrate from Raffinates Originating with Pitchblende.	A. E. Ruehle	4-1-46
*MCW-24	The Reaction of Uranium Dioxide with Hydrogen Fluoride to Produce Uranium Tetrafluoride, and Related Topics.	E. I. Miller	4-1-46
*MCW-218	Deterioration of Uranium Tetrafluoride During Storage in Steel Drums.	C. W. Kuhlman	9-14-49
MF-102	The Ranque-Hilsch Effect in a Vortex Tube. (D. Eng. Sc. Thesis)	H. G. Wenig New York Univ., N. Y.	5-52
MISC-1958-2	Research and Process Investigations on Lakeview Ore, Lake County, Oreg. Research Report No. 50.1.	I. L. Nichols, K. E. Tame, J. R. Ross, et al Bureau of Mines, Intermountain Experiment Station, Salt Lake City	12-57
NAA-SR-2124	Basic Chemistry of High Temperature Inorganic Systems. Semiannual Progress Report [for] January - June, 1957.	S. J. Yosim, T. A. Milne	12-15-57
NAA-SR-2144	The Synthesis of Biphenyl-2,2',4,4',6,6'-d ₆	J. M. Scarborough	12-1-57
NAA-SR-2147	The Synthesis of Biphenyl-4,4'-d ₂	R. I. Akawie	12-15-57
*NAA-SR-Memo-767	Determination of Terphenyl-Biphenyl Mixtures by Dielectric Constant and Refractive Index Measurements.	E. Colichman, S. Nakazato	8-21-53

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- *NACA-RM-E56K21 Material Compatibility with Gaseous Fluorine. H. G. Price, Jr., 11-19-56
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- NARF-57-54T Radiation Damage to Elastomers and Sealants. I. R. E. Johnson, 11-26-57
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- NBS-5520 Methods of Hydrogen Liquefaction. D. B. Chelton, 10-14-57
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- *NP-6320 Research on the Lubrication of Titanium. Quarterly Progress
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- *NYO-5146 Removal of Molybdenum in Processing AAA[Pitchblende]Ore;
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- *NYO-6313 Thermal Stability of the Hydrates of Uranyl Nitrate. Final
Report. A. J. King, 8-1-57
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- *RCTC/P-82 The Selection of a High Temperature Process for Extracting
Plutonium from Irradiated Uranium. K. M. Towers, 11-56
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Res. Establishment,
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- RMO-3001 Grand Junction Operations Office Analytical Laboratory
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WIN-80	Alkaline Leach - Filtration Pilot Plant Testing of Globe - Vitro Blend.	G. R. Pitmon, G. Winslow	12-12-57
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ENGINEERING

*AECU-3501	Convection Heat Transfer and Fluid Flow in Ducts.	L. Topper Columbia Univ.	3-57
*AERE-R/M-95	The Design and Development of a Liquid Metal Mechanical Pump.	F. L. Speed, K. A. Tomblin	9-53
*AERE-R/R-2357	A Rational Basis for the Design of Bayonet-Tube Heat Exchangers.	J. J. Thompson, R. W. S. Carlson	8-57
*AERE-RE/R-1406	Concrete of High Density for Shielding Atomic Reactors.	Gt. Brit. Building Res. Station, Garston, Watford, Herts, England	2-54
*CF-52-3-20	Bubble Behavior within Liquids Flowing in Tubes Containing 'U' Bends.	H. F. Poppendiek Oak Ridge Nat'l. Lab.	3-3-52
*CF-57-9-55	Stresses and Deflections Induced in Seal-Welding a Diaphragm Pump.	E. C. Hise Same	9-18-57
*CF-57-10-24	Performance Test of 220-v Three-Phase Stator for Use with 5-gpm In-Pile Loop Pump.	A. Weitzberg, H. C. Savage Same	10-4-57
*CF-57-10-48	Investigation of Effect of Seal Configuration on Mixing Flow and Radiation Damage in HRT-Type Circulating Pumps.	H. A. Rundell, D. H. Roy, J. C. Moyers Same	10-10-57
*CF-57-10-77	Test of Koby Oil Filter on HRT Shield Vacuum Pumps, HRT Test X.C 5.c.	S. I. Kaplan Same	10-16-57
CF-57-11-122	Sintered Alumina as a Pump Bearing and Journal Material.	H. C. Savage Same	11-26-57

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*CRHP-733	Emergency Radiation Monitoring of Drinking Water.	G. W. C. Tait, W. F. Merritt Chalk River Project	10-57
*HE-150-103	A High Output Source of L470A Radiation.	R. A. Evans Calif. Univ., Berkeley. Inst. of Eng. Res.	8-8-52
*HE-150-119	A New Method of Flow Visualization for Low Density Wind Tunnels.	R. A. Evans Same	1-11-54
*HE-150-130	Visualization of Low-Density Flows by Means of Oxygen Absorption of Ultraviolet Radiation.	P. M. Sherman Same	8-23-55
*HW-38242(Rev. 1)	Experimental Studies on Steam-Water Pressure Drops in an Annulus with Heat Transfer.	C. R. McNutt, M. W. Carbon	10-10-55
*IGE/R-3	Thermal Stresses in Reinforced Concrete Shields.	W. Bonsall U. K. Atomic Energy Authority. Industrial Group H. O., Risley, Lancs, England	10-55
*IGR-TN/W-500	Heat Transfer from a Fluid Containing a Distributed Heat Source. Proposals for Experimental Investigation.	D. Wilkie Gt. Brit. Windscale Works, Sellafield, Cumb., England	5-57
*KAPL-M-EDL-127	O-Ring Tests S1G/S2G.	D. F. Wood	6-28-57
*KAPL-M-HB-33	Notes of the Beta Experiment.	H. Brooks	5-25-50
*KAPL-M-WEC-10	Structural Significance of Applied Loadings. A Summary of Design Methods.	W. E. Cooper	4-2-57
MISC-1957-174 # 6	Accession List No. 6[on Radiation Effects on Materials] [Covering Period]November 1 to November 30, 1957.	Battelle Memorial Inst. Rad. Effects Info. Center, Columbus, Ohio	12-16-57
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PR-ED-14

Engineering Development and Special Projects Division.
Progress Report [for] July 1, 1957 to September 30, 1957.

Chalk River Project n.d.

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Continental No. 1 Mine, San Juan County, Utah.

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METALLURGY & CERAMICS

*AECU-3482

Production of Zirconium Oxide Carbon Briquettes.

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Vapor Deposition of Molybdenum and Niobium Coatings on
Stainless Steel Tubes.

C. F. Powell, 10-2-57
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G. E. Evans 4-23-53
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F. A. Field 5-21-54
Oak Ridge Nat'l. Lab.

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J. J. McCarthy,
E. F. Nippes
Rensselaer Polytechnic
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*ERI-2447-6-P	Electron Metallographic Investigations of the Minor Phases of Heat-Resistant Alloys.	W. C. Biglow, J. A. Amy, L. O. Brockway Michigan Univ., Ann Arbor. Eng. Res. Inst.	4-56
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*HW-49431	Corrosion of Aluminum in Deionized Water.	R. L. Dillon, R. J. Lobsinger	3-26-57
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*CF-53-7-131	Report on Third and Fourth ARE Cleaning Committee Meetings.	G. M. Adamson Same	7-15-53
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*NURG/M-54	The Choice of Steam Cycle for Use with a Pile.	O. Pulley Gt. Brit. Atomic Energy Res. Establishment, Harwell, Berks, England	3-12-53

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*RDB(R)/TN-56	Channel Ratings for the Calder Hall Reactors Including the Effect of Xenon Poisoning on the Radial Flux Distribution.	J. M. B. Lang U. K. Atomic Energy Authority. Industrial Group, H. C., Risley, Lancs, England	9-1-55

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Chalk River Project n.d.

*PTP-498

Preliminary Studies of the Distribution of Particles at Medium Range from a Ground Level Point Source.

F. Pasquill 8-12-55
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Defence Experimental
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Wilts, England

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UCRL-3901	Gamma Transitions from the 15-Mev Level in Carbon-12. (Thesis)	C. N. Waddell	8-13-57
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UCRL-8007	Masses and Decay Processes of Charged Hyperons. (Thesis)	P. C. Giles	10-7-57
UCRL-8010	Bevatron Induction-Electrode Beam-Monitoring Systems.	J. T. Lavrischeff	10-3-57
UCRL-8011	Gas Analysis by Optical Interferometry.	D. N. Hanson, A. Maimoni	10-9-57
UCRL-8025	Antineutron Production by Charge Exchange. (Thesis)	R. C. Weingart.	10-18-57
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UCRL-8026

The Induction of Tumors in the Rat by Astatine-211

P. W. Durbin,
C. Willet Asling,
M. E. Johnston,
M. W. Parrott,
N. Jeung,
M. H. Williams,
J. G. Hamilton

11-57

UCRL-8055

Relations Between the Hyperon Polarizations in Associated Production.

R. Gatto

11-25-57

UCRL-8100

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