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Publication Date

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Radiation Laboratory
Berkeley, California

Contract No. W 7405-eng 48

LIST OF UNCLASSIFIED REPORTS RECEIVED AND ISSUED BY THE OR
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April 17, 1958

Printed for the OR

LIST OF UNCLASSIFIED REPORTS RECEIVED AND ISSUED BY THE UCRL
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Radiation Laboratory
University of California
Berkeley, California

April 17, 1958

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44-3042	Ecology of Land Animals. E. The Ecological System, by W. Tischler. Trans. from Handbuch der Biologie <u>3</u> , no. 5/6, Lfg. 63/64, 101-11 ([1955?]).		
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CRL-51	Uranium Dioxide. A Promising Nuclear Fuel.	O. J. C. Runnalls Atomic Energy of Canada Ltd. Chalk River Project, Chalk River.	1-58
*CT-2116(Del.)	The Electroplating of Tuballoy. A Manual of Operating Instructions Developed for Electroplating on Tuballoy.	A. G. Gray Du Pont de Nemours (E.I.) & Co., Grasselli Chemicals Dept., Wilmington, Del.	1-31-45
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*KAPL-960(Del.)	Zirconium-Gas Reactions and Effects on Properties at Elevated Temperatures.	H. T. Sumsion Knolls Atomic Power Lab., Schen., N. Y.	2-26-54
*KAPL-1100(Del.)	Metallic Coatings on Uranium by Sputtering and Evaporation.	W. D. Davis Same	4-1-54
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*KAPL-M-EMS-2	Magnetic Properties of a 12% Chromium Martensitic Stainless Steel.	B. M. Smith Same	2-21-56

*KAPL-M-ERH-1	Leak Plugging of Stress Corrosion Cracks with Commercial Boiler Sealing Compounds.	E. R. Harris and G. E. Galonian Knolls Atomic Power Lab., Schen., N. Y.	3-28-56
*KAPL-M-FDL-1	The Analysis of Zircaloy II Corroded by Diphenyl.	F. D. Leipziger Same	5-31-56
*KAPL-M-GEG-5	Corrosion of T-410 Stainless Steel in 680°F Deoxygenated, Deionized, Static Water.	G. E. Galonian and D. C. Belouin Same	5-4-56
*KAPL-M-HBS-4 (Del.)	Methods for Weighing Uranium in Uranium-Aluminum Alloy Fuel Disks.	H. B. Stewart Same	12-29-53
*KAPL-M-HOS-2	Corrosion Resistance and Coatings for Corrosion Protection of AISI 410 Steel	H. Suss Same	1-6-56
*KAPL-M-JGG-1	Corrosion Studies of Crystal Bar Zirconium in Organic Coolants.	J. G. Gratton Same	10-18-56
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*KAPL-M-KOK-2	Metallurgical Examination of Griscom-Russell Evaporator Double Tube to Tube Sheet Specimen.	K. H. Koopman Same	8-17-56
*KAPL-M-KOK-3	Seal Welds. Status Report No. 2.	K. H. Koopman Same	8-20-56
*KAPL-M-KOK-4	Investigation of the Failure of an SLG Sound Isolating Steam Fitting.	B. E. Harper and K. H. Koopman	9-20-56

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*KAPL-M-RLM-8	The Effect of Hydrogen Embrittlement on the Mechanical Properties of Steel; A Literature Survey and Review of the Problem.	R. L. Mehan Same	3-27-56
*KAPL-M-RLM-13	Strain Fatigue Behavior of Zircaloy 2 and 3 at Room Temperature and 550°F.	R. L. Mehan, D. T. Groleau, J. H. Read, et al -- Same	11-18-57
*KAPL-M-RNH-1	Evaluation of Leached Sponge Zirconium Powder From Carborundum Co.	R. N. Honeyman and J. R. Peloke Same	5-22-56
*KAPL-M-RNH-2	The Manufacture of Hafnium Metal Powder by the Hydride Process.	R. N. Honeyman Same	9-5-56
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*KAPL-M-SMS-81	S3G Corrosion Product Activity Buildup with a Stainless Steel Unit Cell.	J. W. Sapp Same	9-30-57
*KAPL-M-WEC-11	The Significance of Material Properties to Design.	W. E. Cooper Same	10-17-57
*KAPL-M-WVJ-2	Friction and Wear Tests in Water.	W. V. Johnston and D. T. Groleau Same	10-18-56
*LA-1133(Del.)	Slip Casting Process for Magnesia Crucibles.	A. G. Allison and M. R. Nadler Los Alamos Scientific Lab., N. Mexico	6-15-50

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*LA-1405(Del.)	Preparation of Uranium-Molybdenum Alloys by Bomb Reduction.	B. R. Hayward Los Alamos Scientific Lab., N. Mexico	2-52
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*KAPL-M-JRS-10	Cross-Section Estimates for Dysprosium.	J. R. Stehn Same	6-19-56
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*KAPL-M-LOB-1	The Calculated Fast Neutron Flux from a Source Plate for a High Pressure Cell.	L. G. Bishop and J. H. Smith Same	10-8-56
*KAPL-M-LRB-3	Detection of Nucleate Boiling by Flux Variation Measurement.	L. R. Boyd Same	7-23-56
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*KAPL-M-PLH-3	Multigroup Procedures as Used at KAPL.	P. L. Hofmann Same	3-27-52
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*KAPL-M-GOM-1	Negative Reactivity Effect of Fuel Element Expansion on Cold Water Accident.	G. O. Mueller Same	8-20-57
*KAPL-M-HAB-2	Summary of Blanket Calculations.	H. A. Bethe Same	7-9-47
*KAPL-M-HB-26	Notes on the Feasibility of a Dual-Purpose Reactor.	H. Brooks Same	8-26-47
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*KAPL-M-JBP-1	Composition of FPR-1, 2, 2A, and 3A.	J. B. Paniszczyn Same	5-24-56
*KAPL-M-JBS-9	Multi-Group Analysis of PuO_2 Power Breeders; Preliminary Results.	J. B. Sampson and E. A. Luebke Same	8-17-54
*KAPL-M-JJK-1	Sodium Vapor Transport in a Closed System.	J. J. Kauzlarich Same	6-17-53
*KAPL-M-JS-1	Equivalent Cross Sections for Psyche.	J. C. Stewart Same	7-5-56
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*KAPL-M-LBV-8	An Instrument to Measure Simulated Temperatures in the S3G Emergency Cooling Test Loop.	L. B. Vandenberg and L. A. Hagen Same	6-8-56
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*KAPL-M-RAD-2	Fuel Element Failure Detection and Location - Estimate of Sensitivity D/N System S3G.	R. A. Dewes Same	11-7-57
*KAPL-M-REM-3	Scram Motion of a Spring Driven Control Rod.	R. B. McCalley, Jr., and M. C. Ray Same	8-56
*KAPL-M-RCR-1	Initial ANARPA PPA Loading (PPA-34).	R. C. Rohr Same	7-2-56
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*KAPL-M-RE-7	Multi-Group Calculations on the Fast Loading of the Variable Spectrum Reactor.	Same	3-17-50
*KAPL-M-RES-29	Lumped Metal Heat Capacity.	J. P. Fraser Same	7-16-56
*KAPL-M-RES-32	Heat Losses from the S3G/S4G Reactor Pressure Vessel, Head, and Mechanisms and Ambient Temperatures of the Region under the Top Hat.	H. F. Larkin and G. O. Mueller Same	9-20-57

*Microcards

*KAPL-M-RGK-1	Results of the Tests on Several Fast Breeder Flow Orifices.	R. G. Kennison Knolls Atomic Power Lab., Schen., N. Y.	10-5-49
*KAPL-M-RGK-2	Results of Several Water Flow Tests on a Fuel Rod and Fast Breeder Rod.	R. G. Kennison Same	10-10-49
*KAPL-M-RGK-4	Temperature Analysis of the WMA Reactor Slow Breeder Region.	Same	5-26-50
*KAPL-M-RGK-10	Thermal Stability Characteristics of a Cantilevered Fuel Rod.	Same	1-7-53
*KAPL-M-RJF-1	Hold-Up Times for Safe Fuel Rod Removal from the Schenectady Reactor.	R. J. Fritz Same	8-19-48
*KAPL-M-RMM-1	Shock and Vibration Design Requirements for S3G/S4G.	R. M. Mains Same	7-5-56
*KAPL-M-RMM-2	Shock and Vibration in Naval Reactors.	R. M. Mains. Same	10-31-57
*KAPL-M-RSS-3	Experimental Determination of the Spectra in Several Cold Water Moderated Assemblies.	R. S. Stone and R. E. Slovacek --Same	8-3-56
*KAPL-M-RWL-2 (Rev.)	Preliminary Heat Transfer-Fluid Flow Calculations for the KAPL Reactor May 1949.	R. W. Lockhart Same	
*KAPL-M-SAR-RES- 5	Consequences of Loss of Flow.	M. Altman Same	3-16-55
*KAPL-M-SCT-10	Project Owl: 8-Inch Water Injection Test. Run Number 1. Preliminary Results.	C. W. Sorenson Same	3-20-56

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*KAPL-M-SES-12	Log Reactor Model.	W. W. Sherman Knolls Atomic Power Lab., Schen., N. Y.	4-9-56
*KAPL-M-SI-1	Shielding Properties of a Sir Mark A Control Rod Drive Mechanism; Shielding Laboratory Experiment No. 1 (SI-1).	L. H. Weinberg Same	4-22-56
*KAPL-MSMS-31	Control of Gases in Primary Coolant During Filling and Cold Plant Startup.	G. F. Epstein Same	7-6-56
*KAPL-M-SMS-87	Operation of IBM-650 Program for Emergency Cooling Analysis.	I. R. Goodwin and F. J. Scheib Same	11-21-57
*KAPL-M-SMS-88	Decontamination of the S3G/S4G Steam Generators.	F. C. Steiner Same	11-25-57
*KAPL-M-SWK-3	Sir PPA 27, 28 and 29--Composition and Design.	S. W. Kitchen, G. B. Gavin, H. A. Palmer, et al Same	7-25-55
*KAPL-M-WEJ-1	Some Mechanisms of Dry Bearing Chatter.	W. E. Jahsman and D. R. Miller Same	6-4-56
*KAPL-M-WMG-1	Laboratory Simulation of Thermal Effects in Fuel Elements.	W. M. Cashin Same	2-11-56
*KAPL-M-WPW-1	S3G Instrument Tube Mock-Up Tests.	W. P. Walsh Same	11-18-57
*KAPL-M-WRK-3 (Rev.)(Del.)	Conference on the Experimental Breeder Reactor at the Argonne National Laboratory on April 25, 1952.	M. David. H. Hurwitz, Jr., W. R. Kanne, et al Same	
*KAPL-M-WRP-2	Fuel Placement in S3G Elements.	W. R. Plant Same	9-27-56

*LAMS-733(Del.)	Effect of Temperature and Reactivity Changes in Operation of the Los Alamos Plutonium Reactor.	D. B. Hall and J. P. Hall Los Alamos Scientific Lab., New Mexico	5-28-48
NAA-SR-2463	Hanford Safety Device. Summary Report.	Stephen H. Fitch Atomics International Div., NAA, Inc., Canoga Park, Calif	4-1-58
NAVORD-5747	Containment Study of the Enrico Fermi Fast Breeder Reactor Plant.	E. M. Fisher and W. R. Wise, Jr. Naval Ord. Lab., White Oak, Md.	10-7-57
NP-6539	Accident at Windscale No. 1 Pile on 10th October, 1957. Presented to Parliament by the Prime Minister by Command of Her Majesty, November, 1957.	Gt. Brit. Windscale Works, Sellafield, Cumb., England	11-6-57
WAPD-MRP-72	Pressurized Water Reactor (PWR) Project. Technical Progress Report for the Period December 24, 1957 to February 23, 1958.	Westinghouse Electric Corp. Bettis Plant, Pittsburgh	
WASH-747	Measurement of Air Blast Effects from Simulated Nuclear Reactor Core Excursions.	Richard J. Larson and Wendell Olson Ballistic Research Labs., Aberdeen Proving Ground, Md.	9-57
WKNL-46(Del.)	A Conceptual Study of a 100 KW Gas Cooled Reactor Power Plant for a Remote Location.	J. H. Frankfort Kidd (Walter) Nuclear Labs., Inc., Garden City, N. Y.	5-31-55

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AECL-566	Annual Report [Covering the Period April 1st, 1956 to March 31, 1957.]	Atomic Energy of Canada Ltd., Ottawa, Ont.	7-12-57
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ANL-5847	Additions to the Library. Report for the Period March 1-15, 1958. Technical Reports and Books.	P. A. Schulze Argonne National Lab., Lemont, Ill.	
MISC-1958-41 H.R. 11426	85th Congress 2d Session, House of Representatives. A Bill to Amend the Atomic Energy Act of 1954, as Amended, [With Regard to Cooperation with other Nations], Introduced March 13, 1958 by Mr. Durham and Referred to the Joint Committee on Atomic Energy.	U. S. Congress	
MISC-1958-50, No. 23	Twenty-Third Semiannual Report [to Congress] of the Atomic Energy Commission [for the Period July - December, 1957].	Atomic Energy Comm. (Wash., D. C.)	1-58

LIST OF TRANSLATIONS ISSUED BY THE UCRL INFORMATION DIVISION

UCRL Translation 346(L)	Concerning Some Platinum Alloys. Section [on] Platinum-Lead Alloys, by Fr. Doeringel. Trans. from Zeitschrift für anorganische Chemie <u>54</u> , 358-65 (1907). 9p.
UCRL Translation 369	Measurements of Reactivity on the G 1 Reactor, by J. Bernot, J. C. Koechlin, L. Portes, and A. Teste du Bailler. Trans. of France. Commissariat à l'Énergie Atomique, Paris, Report no. CEA-670 "F", 1957, 18p.
UCRL Translation 380(L)	Mironovka Radioactive Spring, by R. P. Kupchevskaya (i.e., Kupchevskaja) and in Connection with a "New" Diagnostic Symptom of TB of Lymphatic Nodes, by A. E. Rabykhin and Experiment of Treating Ulcer Sickness of Stomach and Duodenum Intestine by an Extract of Aloe Leaves, by A. M. Eliseyeva (i.e., Eliseeva) and M. H. Chumakova. Trans. from Vrachebnoe Delo <u>22</u> (?), 207-8 (1957). 3p.

UCRL REPORTS ISSUED DURING APRIL 1-15, 1958

UCRL-3481	The Dynamics of π - μ Decay in Flight	M. Lynn Stevenson	7-25-56
UCRL-3905	Properties of Negative K Mesons	F.M. Webb, E.L. Iliff, F.H. Featherston, W.W. Chupp, et al.	9-1-57
UCRL-3984	Photosynthesis (Official Use Only)	M. Calvin, J.M. Anderson, J.A. Bassham, U. Blass, et al.	4-58
UCRL-3995	DNA Synthesis in Irradiated Animals (Official Use Only)	L.S. Kelley	3-58
UCRL-3997 Abstract	Biological and Chemical Characteristics of Urinary Erythropoietin (Official Use Only)	D.C. Van Dyke, J.F. Garcia, J.H. Lawrence	12-57
UCRL-8089	Studies Relating to the Structure of Aluminum Hydride	R.F. Nickerson	12-16-57
UCRL-8092	Calibration of the Bevatron Beam-Induction Electrodes	H.G. Heard	1-58
UCRL-8093	Volumetric and Thermodynamic Properties of Normal Fluids	K.S. Pitzer	1-58
UCRL-8114	Bevatron Operation and Development. XV. August, September, October 1957	W. Hartsough	1-10-58
UCRL-8116 Addendum	Documents Issued by the Technical Information Division - Addendum July 1 through December 31, 1957		2-18-58
UCRL-8152	A Method for Estimating the Heat of Formation of Inorganic Compounds	H.W. Anderson	1-58
UCRL-8165	The Volumetric and Thermodynamic Properties of Fluids V. Two Component Solutions	K.S. Pitzer, G.O. Hultgren	2-58

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UCRL-8186	Several Spallation Reactions of Uranium-238 Plus Helium-4	J. A. Coleman	2-58
UCRL-8190	Ionization Energy Loss of Electrons and Their Range in Liquid Hydrogen	F. S. Crawford, Jr.	2-24-58
UCRL-8194	The Bare Particle Concept and Nucleon Electromagnetic Structure	G. F. Chew	2-24-58
UCRL-8201	A Summary of the Berkeley Conference on Biological Effects of Cosmic Rays and Accelerated Heavy Ions	C. A. Tobias, H. C. Mel, D. G. Simons	3-10-58
UCRL-8216	The Spin of Neptunium-238	R. G. Albridge, J. C. Hubbs, R. Marrus	3-18-58
UCRL-8218 Abstract	Further Studies on the Formation of the >C=O Bond in the Radiation-Induced Oxidation of Protein	M. E. Jayko, W. M. Garrison	3-58
UCRL-8219 Abstract	Formation of C^{14} -Labelled Protein Derivatives in the Radiolysis of Aqueous Pepsin- $\text{C}^{14}\text{H}_3\text{COOH}$ Solutions	B. M. Weeks, W. M. Garrison	3-58
UCRL-8222	Neutron Production in a Linear Pinch	O. A. Anderson, R. V. Pyle	3-19-58
UCRL-8224	The Effects of Hydroxylamine on the C^{14}O_2 Fixation Pattern During Photosynthesis	J. A. Bassham, M. Kirk, M. Calvin	3-21-58
UCRL-8235	List of Unclassified Reports Received and Issued by the UCRL Information Division During the Period of March 16-31, 1958		4-2-58
UCRL-8247 Abstract	Group Properties of the Electron Neutrino System	J. Gurnsey	
UCRL-8248 Abstract	Antiproton-Proton Cross Sections at 133-333 Mev	C. A. Coombes, B. Cork, W. Galbraith, G. R. Lamberton, et al.	4-58
UCRL-8256 Abstract	$\bar{\text{p}}$ -p Elastic and Charge-Exchange Scattering at about 120 Mev	W. B. Fowler, L. E. Agnew, Jr., T. Elioff, et al.	4-58

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INFORMAL REPORTS ISSUED

Date No. Assigned

UCID-60 (4312-03 M1)	Hydrogen Refrigerator Design Using Joy Heat Exchanger Tubing	D. Chelton, P. VanderArend	3-17-58
UCID-61 (4312-03 M2)	Cryogenics - 600 liter Hydrogen Storage Container	D. Mann, D. Chelton	3-17-58
UCID-62 (4312-03 M4)	72" Bubble Chamber - Chamber, Expansion System and Cryogenics Development Status	H. P. Hernandez	3-17-58
UCID-63 (4312-03 M8)	Large Bubble Chamber Development - Cryogenics Trip Report to NBS Cryogenic Laboratory, Feb. 14-16, 1956	H. P. Hernandez	3-17-58
UCID-64 (4312-03 M13)	Large Bubble Chamber Development - Cryogenics Operating Range for Deuterium	D. B. Chelton, D. B. Mann	3-17-58
UCID-65 (4312-03 M14)	Large Bubble Chamber Development Cryogenics - Heat Transfer Through Lead Gasketed Flanges	H. S. Hoard	3-17-58
UCID-66 (4312-04 M1)	72" Bubble Chamber - Full Scale Seal and Expansion Test	H. P. Hernandez	3-17-58
UCID-67 (4312-04 M2)	Large Bubble Chamber Development Piston Liquid Expansion System - Chamber and Expansion System	D. Parmentier	3-17-58
UCID-68 (4312-04 M3)	72" Bubble Chamber-Plates and Windows	F. Crawford	3-17-58
UCID-69 (4312-04 M4)	Large Bubble Chamber Development Chamber and Expansion System - 72" Inflatable Gasket Test Procedure	R. Smits	3-17-58
UCID-70 (4312-06 M5)	Relative Slopes of Isotherm and Adiabatic Curves	R. E. Donaldson	3-17-58
UCID-71 (4312-06 M6A)	Optical Windows and Seals for Hydrogen Bubble Chamber	J. Franck	3-17-58

UCID-72 (4312-07 M1)	Considerations on Choice of I. B. M. Punch	H. Bradner	3-17-58
UCID-73 (4312-07 M2)	Conversion of Microscope Shaft Position to I. B. M. Card Punch	H. Bradner	3-17-58
UCID-74 (4312-07 M3)	Effects of Multiple Coulomb Scattering on Track Curvature	H. Bradner	3-17-58
UCID-75 (4312-07 M4A)	Procedure for Finding Angles in Stereo Viewer	H. Bradner	3-17-58
UCID-76 (4312-07 M5)	Index of Refraction of Liquid and Gaseous Hydrogen at 27° K	F.S. Crawford, Jr.	3-17-58
UCID-77 (4312-07 M7)	Large Bubble Chamber Optical Studies and Data Analysis - Film Processing Building	D. Norgren	3-17-58
UCID-78 (4312-07 M9)	Specifications for a film Reader for Bubble Chamber photographs	H. Bradner	3-17-58
UCID-79 (4312-07 M17)	Large Bubble Chamber Development - Data Processing and Optical Studies - Film Reader Specs. Notes on Meeting of September 26, 1956 (Weds.)	H. Dea	3-17-58
UCID-80 (7911-10-M2)	72" Hydrogen Bubble Chamber - Magnet Tests Using 1 Megawatt D.C. Gen.	W. Eaton	3-17-58
UCID-81 (7911-30 F1A)	Trip Report --- Visit to Fish-Schurman Corp. RE: J-31577 - Glass Window for 72" Bubble Chamber	J.O. Turner	3-17-58
UCID-82 (7911-30-M12)	72" H ₂ Bubble Chamber - Chamber Fabrication: Hydrogen Manifold Pressure Calc.	Hoard	3-17-58
UCID-83 (7911-43 M1)	72" Hydrogen Bubble Chamber Fabrication-1000 Liter Nitrogen Dewar Vent - Size and Pressure Rise on Vac. Loss	R. Byrns	3-17-58
UCID-84 (4312-07 M8)	Hydrogen Bubble Chamber - Data Reduction Optical Studies, etc.	D. Norgren	3-17-58

UCID-85 (7911-30 M24)	72" Hydrogen Bubble Chamber - Chamber Stainless Steel Selection	L. R. Lucas	3-14-58
UCID-86 (7911-30 Spec 248B)	Stainless Steel Casting for 72" Hydrogen Bubble Chamber Body	R. A. Frey	3-14-58
UCID-87 (7911-30 - M23)	72" Hydrogen Bubble Chamber Fabrication Chamber Assembly - Summary of Trip to Hanford Foundry	L. R. Lucas R. A. Frey	3-14-58
UCID-88 (3140-01 M173)	Electricity Resistivity of Some Commercial Conductor and Resistor Materials	R. Burns	3-14-58
UCID-89 (3140-01 M186)	Low Temperature Tensile, Yield and Impact Strengths of Various Brasses	H. P. Hernandez	3-14-58
UCID-90 (3151-02 PB-3)	Cooling Water Systems for Electronics Particle Accel. Lab.	W. P. Carpender	3-31-58
UCID-91 (7911-30 M33)	72" Hydrogen Bubble Chamber Fabrication Chamber Assembly - Large Window (Schott No. 7751) as Installed	L. Lucas, D. Norgren R. Smits	3-14-58
UCID-92 (7911-01 M20)	72" Hydrogen Bubble Chamber Fabrication - General Assembly - 72" Bubble Chamber Building Requirements - Bldg. 59 (April, 1956)	H. P. Hernandez	3-14-58
UCID-93 (3140-01 M176)	Impact Strengths of Pure Annealed Metals at Low Temperature	B. Caylor	3-14-58
UCID-94	72" Hydrogen Bubble Chamber - General - First Operation Procedure	R. Burns, H. P. Hernandez	3-14-58
UCID-95 (7900-64 M1)	Fabrication of Fixed Assets - Two Sets of 8" Strong Focusing Magnets - 8" Aperture Strong Focusing Magnet Assy.	R. Kilpatrick	3-18-58
UCID-96 (7911-30 M36A)	Pressure - Test of 72" Hydrogen Bubble Chamber and Hydrogen Pressure Container	L. R. Lucas	3-26-58

UCID-97 (CRG-7)	Results of Tests on Two C7232 Experimental 16-Stage Multiplier Phototubes	Q. Kerns, F. Kirsten	3-21-58
UCID-98 (4601-81 M5)	General Chemistry Research. High Current Cyclotron Preliminary Studies - Cost Estimate (No. 2)	R. Burleigh, E. Kelly	3-20-58
UCID-99 (4152-02 E1) (EE-327)	Magnet Coil Tester - Pulse Type	C.N. Winningstad, Q. Kerns	3-25
UCID-100 (EE-518)	Study of Lease/Purchase of IBM 704	W. McNaughton	4-9-58
UCID-101 (EE-423)	Cost Study. Rental vs. Outright Purchase vs. Lease-Purchase Option - IBM 709	W. McNaughton	4-4-58
UCID-102 (EE-524)	Typical IBM Contract Form and the Effect of Lease/Purchase Option Plan on Purchase of IBM Computers	W. McNaughton	4-4-58
UCID-103 (EE-549)	Desirability of the Purchase Option when Renting IBM 700 Equipment	W. McNaughton	4-4-58
UCID-104 (4320-12 M2)	Data Analysis Development - Optical System Development 72" Chamber Test of Experimental Flash Tube	J. Mark, R. Sorenson	4-21-58

Electrical Engineering

4901-02 EE-550	Bevatron M. G. Interphase Transformers at Changeover	T. Sibary	4-11-58
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Magnet Test Group

8021-88 MT-1	Duke Bubble Chamber Magnet Magnetic Measurements	L. G. Ratner	4-7-58
4901-02 MT-4	Ripple Measurements on 8" Bore, 32" Long Quadrupole Magnet Using Lee Rectifier Power Supplies	Ratner, Dorst	3-31-58

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3140-01 M193	Light Transmission of Plate Glass	J. O. Turner	4-10-58
4601-81 M7	General Chemistry Research High Current Cyclotron Prelim. Studies Comparison of Possible Model Magnets	R. Burleigh	4-10-58
4902-02 M11	184" Cyclotron Operation New Equipment and Components Accelerator Improvements Request for 1958 - 59	A. DuBois	4-3-58
7301-04 M16	Bevatron - Building Utilities - Excerpts Pertaining to Compressed Air Receivers Installation, Maintenance and Inspection	K. Lou	11-56
7303-02 M23	Bevatron - Vacuum System - Envelope - Tangent Tank Weights, Loads, Stresses and Deflections	A. O. DuBois	1-18-50
7306-01 M97	Bevatron-Miscellaneous General Quadrant III Outside Heavy Duty Platforms. Between Magnet and Shielding	O. W. Callahan	2-28-58
7307-01 M30	Bevatron - Experimental Facilities Parallel Plate Velocity Spectrometer	G. Edwards	7-1-57
7307-01 M31	Bevatron - Exp. Facilities. Parallel Plate Velocity Spectrometer No. 2	G. Edwards	2-24-58
7311-29 M15	Bevatron - Shielding - Earthquake Loads on Labyrinth Door Blocks Including Proposed Half Roof Shielding	O. W. Callahan	4-1-57

7311-29 M17	Bevatron - Shielding - Design Study for 15" Lead Shielding Above Beam Inside Tangent Tanks	O. W. Callahan	8-6-57
7911-01-M22	72" Hydrogen Bubble Chamber - General 72 Bubble Chamber Future Plans	H. P. Hernandez	4-8-58
7911-20 M6	72 Hydrogen Bubble Chamber Vacuum System Pressure Test of Pressure Alarm Switch PA2V	F. Tanforan	4-8-58
7911-34 M3	72 Hydrogen Bubble Chamber Nitrogen Shield 7N1566 Vacuum and Pressure Test	J. Mark, F. Tanforan	4-7-58
7911-50 M1	72" Hydrogen Bubble Chamber Optics Mounting Tolerances	L. R. Lucas	3-21-58