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Berkeley, California

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LIST OF UNCLASSIFIED REPORTS RECEIVED AND ISSUED BY THE UCRL INFORMATION DIVISION DURING THE PERIOD OF MAY 1-15, 1958

May 16, 1958

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*WAPD-PMM-15	Resumé of Uranium Alloy Data-VIII.	B. Lustman Westinghouse Elect. Corp. Atomic Power Div., Pitts.	2-25-55
*WAPD-PMM-197	Resumé of Uranium Oxide Data-III.	Z. M. Shapiro Same	9-19-55
*WAPD-PMM-404 (Del.)	Minutes of Uranium Oxide Panel Meeting.	J. Glatter and R. C. Koch Same	10-18-55
*WAPD-PWR-CP-1814	Erosion of UO_2 Fuel Material.	L. A. Waldman and J. M. Lojek Same	2-15-56
*WAPD-PWR-FEm-78	Uranium-12 w/o Molydbenum Homogeneity and Density.	E. S. Foster Same	1-21-56
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*WAPD-PWR-PMM-634	PWR Alternate Control Rod Material Program.	Same	8-15-56
*WAPD-PWR-PMM-662	PWR Alternate Control Rod Material Program.	Same	12-15-56
*WAPD-PWR-PMM-1062	Corrosion of Experimental Aluminum Alloys in High Temperature Water. Report No. 8.	I. Cohen Same	4-6-57
*WAPD-RM-96 (Del. 2)	Zirconium Ingots Arc Melted from Various Types of Zirconium Scrap.	E. S. Foster and W. J. Hurford Westinghouse Elect. Corp. Atomic Power Div., Pitts.	11-13-51

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*WAPD-RM-116	General Corrosion of WAPD Crystal Bar Zirconium. Part I. Effect of Test Conditions.	K. M. Goldman and D. E. Thomas Westinghouse Elect. Corp., Atomic Power Div., Pitts.	3-21-52
*WAPD-RM-205 (Del.)	Effects of Neutron Bombardment upon the Properties of ASTM Type SA212-B Steel.	M. L. Bleiberg Same	2-1-54
*WAPD-RM-215	Impact Tests of Zircaloy 2-Hafnium Welds.	H. R. Hoge Same	12-30-53
*WAPD-STR(Ph)-83	Neutron Bombardment Effects in Semiconductors.	W. Russ Westinghouse Elect. Corp., Bettis Plant, Pitts.	9-55
*WAPD-T-24	The Solid Solubility of Tin in Alpha Zirconium.	G. R. Speich and S. A. Kulin Westinghouse Elect. Corp., Atomic Power Div., Pitts.	9-23-52
*WAPD-T-46	Mechanical Properties and Microstructure of Annealed Zirconium.	W. L. Mudge, Jr. Same	6-10-53
*WAPD-T-185	The Application of Cathodic Vacuum Etching to Electron Metallography.	T. R. Padden Same	[1954]
*WAPD-TH-333	Preliminary Investigation of External Quenching of a Plate-Type Subassembly from an Initial Steady State Condition.	R. A. DeBortoli and J. S. Williams, Jr. Westinghouse Electric Corp., Bettis Plant, Pittsburgh.	7-9-57
*WAPD-TM-17	Preliminary Bettis Plant Safe Practice Guide for Storing, Handling, and Processing Zirconium and its Alloys.	Same	10-1-56

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*WASH-120(Del.)	Uranium Alloy Newsletter, Number I.	D. W. Lillie Div. of Res., AEC	1-29-53
*WASH-298(Del.)	Uranium Alloy Newsletter.	E. Epremian Same	9-56

PHYSICS

AECD-4256	Neutron-Induced Fission Cross Section of Pu^{240}.	R. L. Henkel, R. A. Nobles and R. K. Smith Los Alamos Scientific Lab., N. Mexico	2-57
*AECU-3497	Extension of Existing Tables of Attributes Sampling Plans.	J. M. Wiesen Sandia Corp., Albuquerque, N. Mexico	7-5-56
*AECU-3585	Space Plots of Pressure, Density and Particle Velocity for the Blast Wave from a Point Source in Air.	H. L. Brode Rand Corp., Santa Monica California	6-3-57
*AECU-3593	Calculation of Temperatures in a Two Pass Cylindrical Core Using an IBM-704 Computer.	Intermuclear Co., Clayton, Mo.	11-5-56
*AECU-3594	Research and Investigation Leading to Methods of Generating and Detecting Radiation in the 100 to 1000 Micron Wavelength Range of the Spectrum. Technical Progress Report No. 2 (Quarterly Report No. 6) for June 1, 1957 to September 1, 1957.	P. D. Coleman, M. D. Sirkis, R. C. Becker, et al Illinois Univ., Urbana, Electrical Engineering Res. Lab.	9-15-57
AERE-T/M-154	A Multigroup Diffusion Theory Programme for Plane Slab or Spherical Systems.	P. D. Preston and M. E. Mendl U.K. Atomic Energy Auth. Res. Gp., Atomic Energy Res. Est., Harwell, Berks, Eng.	1-58
AERE-T/M-155	Injection into the 7 GeV Synchrotron.	Mary Bell Same	1-58

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AERE-T/R-2389	Nuclear Data Series. Part I.	J. S. Story U.K. Atomic Energy Auth. Res. Gp., Atomic Energy Res. Est., Harwell, Berks, England	1957
APEX-362	Reactor Cell Calculations for Some Cylindrically Symmetric Fuel Elements Surrounded by Moderator.	J. A. McLennan Gen. Elect. Co., Aircraft Nuclear Prop. Dept., Cincinnati	8-15-55
BNL-459	Selected Topics in Low Energy Pion Physics. Lectures Given at Purdue University.	Michael J. Moravcsik Brookhaven National Lab., (Upton, N.Y.)	3-57
BNL-487	Table of Radioisotopes Arranged According to Half-Life. From the General Electric Chart of the Nuclides, Fifth Edition (April, 1956).	Elaine Daniels, comp. Same	12-57
CERN-57-23	Theory of Linear and Non-Linear Perturbations of Betatron Oscillations in Alternating Gradient Synchrotrons.	A. Schoch European Organisations for Nuclear Research, Geneva	2-1-58
CERN-58-3	Remarks on Depolarisation Effects in a Source of Polarised Protons.	Ch. Schlier Same	3-15-58
CERN-58-4	Cern Meeting on Nucleonic Instrumentation for High Energy Physics, Geneva, September 30 - October 2, 1957.	G. Von Dardel, ed. Same	4-1-58
CERN-PS/MM-34	Measurements on the Prototype Quadrupole Lens.	Same	3-58
CERN-PS/MM-35	A Method for Calculating Disturbances in Constant Gradient Magnets and its Application to the Vacuum Chamber Effect.	Same	4-58
MISC-1958-108	Polarization of Cosmic Ray μ-Meson. Experiment. Notas de Física, Vol. 3, No. 25.	George W. Clark and Juan Hersil Rio de Janeiro. Centro Brasileiro de Pesquisas Físicas and Massachusetts Inst. of Tech., Cambridge. Lab. for Nuclear Science.	9-15-57

MISC-1958-109	Energetic Heavy Fragments Emitted from Nuclear Stars.	Shigeo Nakagawa, Eiji Tamai, and Shoji Nomoto Rikkyo Univ., Tokyo	3-15-58
MISC-1958-111	Uncertainty Relation and Diffraction by a Slit. Notas de Física, Vol. 3, No. 28.	Guido Beck and H. M. Nussenzveig Rio de Janeiro. Centro Brasileiro Pesquisas Físicas.	12-12-57
MISC-1958-122	A Random Walk Method for Calculation of Probabilities of Bond Rupture by Hot Atoms. Report No. 9/V.	I. G. Campbell Instytut Badań Jadrowych, Warsaw.	1-58
NBS-5816	Improved Velocity Analyzer.	J. Arol Simpson National Bureau of Standards, (Washington D. C.)	4-58
NYO-2169	Positive Pion Scattering from Hydrogen at 31.5 Mev.	W. B. Johnson and M. Camac Rochester, N.Y. Univ.	2-3-58
NYO-2174	Polarization of 5.7 Mev Protons Elastically Scattered from Nickel.	W. Parker Alford and Robert E. Warner Rochester, N.Y. Univ.	3-19-58
NYO-7978	Non-Linear Bending and Buckling of Circular Plates.	Herbert B. Keller and Edward L. Reiss N.Y. Univ., N.Y. Atomic Energy Comm. Comp. Fac. and Appl. Math. Center	2-1-58
NYO-7980	Moment Description of Gas Mixtures-I.	Ignace I. Kolodner Same	9-10-57
NYO-8056	Asymmetry Measurements in the Scattering of 155 Mev Neutrons by Carbon, Aluminum, Copper, Cadmium and Lead.	Robert S. Harding Rochester, N.Y. Univ.	2-7-58

NYO-8057	Phenomenological Theory of the Photodisintegration of the Deuterium in the Medium Energy Range.	J. J. De Swart and Robert E. Marshak Rochester, N. Y. Univ.	3-7-58
NYO-8576	Feasibility of Proton Polarization Measurement with a Carbon Polarimeter.	Robert E. Warner and W. Parker Alford Same	1-2-58
NYO-8580	Search for Evidence of Parity non-Conservation.	E. Heer, Arthur Roberts, and John H. Tinlot Same	3-11-58
NYO-8581	π^+-Production in Al and C by 209 Mev Polarized Protons.	E. Heer, Arthur Roberts, and John H. Tinlot Same	3-11-58
ORNL-2431	Electromuclear Research Division. Annual Progress Report for Period Ending October 1, 1957.	Oak Ridge National Lab., (Tenn.)	4-29-58
PR-P-36	Physics Division. Progress Report [of] October 1, 1957 to December 31, 1957.	Atomic Energy of Canada Ltd. Chalk River Project, Chalk River, Ont.	
RM-2092-AEC	Relativistic Oscillator Strengths.	Fred Zachariasen Rand Corp., Santa Monica, Calif.	1-15-58
*WAPD-P-91	Transport Theory of Neutrons. III. Approximation Methods.	A. F. Henry Westinghouse Elect. Corp., Atomic Power Div., Pitts.	5-24-51
*WAPD-PM-41	Mixing Coefficients.	H. Bohl, Jr., R. E. Grimble, and J. R. Parrette Westinghouse Elect. Corp., Bettis Plant, Pitts.	9-55

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*WAPD-T-173	Magnetic Latch Analysis (Thesis)	J. G. Murray Westinghouse Elect. Corp., Atomic Power Div., Pitts.	8-19-55
*WAPD-T-567	P-Cyclic Matrices: A Generalization of the Young-Frankel Successive Overrelaxation Scheme.	Richard S. Varga Westinghouse Elect. Corp., Bettis Plant, Pitts.	8-57
*WAPD-T-650	Implicit Alternating Direction Methods.	Garrett Birkhoff and Richard S. Varga Same	10-57
WAPD-TM-107	The IBM-704 Simpl Codes.	L. M. Culpepper, Eli Gelbard, James Davis, and James Pearson Same	1-58
*WCAP-277	Escape of Fission Fragments from Slurry Particles.	C. J. McDole Westinghouse Elect. Corp., Atomic Power Div., Pitts.	7-23-56
*WKNL-7-26	Critical Radii of Spheres and Infinite Cylinders of PuF_4 and PuF_6.	N. Tralli Kidde (Walter) Nuclear Labs., Inc., Garden City, N.Y.	12-22-53
*ZJ-015	Neutron Penetration by the Monte Carlo Method.	J. E. Braley and R. E. Donaldson Convair, San Diego, Calif.	5-29-57

REACTOR SCIENCE

*AECD-3765	Performance of the Disassembly Equipment. NYX Test Numbers 2.9.1, 2.9.3.	L. Bernath and J. H. Thompson, Jr. Du Pont de Nemours (E.I.) & Co. Atomic Energy Div., Wilmington, Del.	2-53

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*AECU-3575	Irradiated Fuel Assembly Shipping Container; Functional Requirements.	Westinghouse Elect. Corp., Atomic Power Div., Pitts.	4-57
*AECU-3576	Valve Operating System; System Description No. 10.	Same	5-57
*AECU-3586	Nuclear Instrumentation System; System Description No. 15.	N. E. Wilson Same	5-12-56
*AECU-3591	Decay Heat Removal System; System Description No. 8.	Same	12-6-56
*AECU-3592	Miscellaneous Service Lines; System Description No. 36.	Same	8-5-57
ANL-5787	Two-Phase Air-Water Flow Phenomena. (Thesis).	Michael Petrick Argonne National Lab., (Lemont, Ill.)	3-58
APAE-25	Literature Survey for Activity Build-Up on Reactor Primary System Components.	A. L. Medin, Ed. Alco Products Inc., Schenectady, N. Y.	1-15-58
CF-57-12-24	Notes on Use of Turbo Blowers.	W. T. Furgerson Oak Ridge National Lab., (Tenn.)	12-4-57
CF-58-3-68	Homogeneous High-Flux Reactor.	W. K. Ergen Same	3-31-58
CF-58-3-76	Maximum Thermal Flux per Mw in Three-Region Homogenous Reactors.	T. B. Fowler Same	3-18-58
CF-58-4-14	Fission Gas Holdup Tests on HRT Charcoal Beds.	R. E. Adams and W. E. Browning Same	4-2-58
ICR-R/CA-255	Measurement of Liquid-Metal Levels by the Effect of Eddy Currents on an Inductance.	D. F. Davidson U.K. Atomic Energy Auth. Ind. Gp., Capenhurst Works, Capenhurst, Ches., England	12-57

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NAA-SR-1850	Organic Moderated Reactor Experiment. Quarterly Progress Report [for] November-December 1956.	Atomics International Div., North American Aviation, Inc., Canoga Park, Calif.	5-1-58
NRL-5077	Naval Research Laboratory Research Reactor. Part IV. Control System.	M. P. Young and G. F. Wall Naval Research Lab., (Washington, D. C.)	4-3-58
*WAPD-IC-111	[Analog Computer Solutions for the Xenon Concentration in a Reactor]	R. R. Leonard Westinghouse Elect. Corp., Atomic Power Div., Pitts.	11-18-52
*WAPD-MRC-40	Pressurized Water Reactor Program Technical Progress Report for the Period July 1, 1953 to August 15, 1953.	Same	
*WAPD-MRP-54 (Del.)	Pressurized Water Reactor Program Technical Progress Report for the Period May 5, 1955 to June 16, 1955.	Same	
*WAPD-P-520	Examination of MTR Facilities for PWR Progressive Failure Tests.	W. F. Witzig Same	9-22-54
*WAPD-PC-48	PWR Control System Study.	G. L. Hartfield Same	1-31-55
*WAPD-PF-738	System Design Description: PWR Safety Injection System.	Westinghouse Elect. Corp., Bettis Plant, Pitts.	3-9-55-[6]
*WAPD-PWR-168	Operational Requirements for PWR.	W. J. Purcell and N. E. Wilson Westinghouse Electric Corp., Atomic Power Div., Pitts.	8-13-54

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*WAPD-PWR-CP-1723 and Add.	Expected Air and Water Activities in the Fuel Storage Canal.	J. M. Wright Westinghouse Elect. Corp., Bettis Plant, Pitts.	2-56
*WAPD-PWR-CP-1866	Feasibility Study of a Dynamic Pressurized Water Irradiation Facility in a Vertical Hydraulic Rabbit Facility at the Materials Testing Reactor.	W. Schwartz Same	[2-29-56]
*WAPD-PWR-CP-2351 (Del.)	In-Pile Test Section Pressure Drop Summary.	Westinghouse Elect. Corp., Atomic Power Div., Pitts.	[10-56]
*WAPD-PWR-CP-3077	Information Required to Define Contamination Status of PWR.	W. T. Lindsay, Jr., Same	7-57
*WAPD-PWR-FE-1138	Creep Tests on Water-Logged Tubes.	L. F. Cochrun Same	1-13-56
*WAPD-PWR-FE-1165 (Del.)	Tentative Specifications for 1) Zirconium Ingot, 2) Zirconium Strip, 3) Uranium, 4) Zirconium-Base Fuel Alloy Ingot and 5) Zirconium-Base Fuel Alloy Strip for PWR Seed Fuel Plates. Preliminary Process Specifications for PWR Seed Fuel Plates and Fuel Alloy Components.	P. G. DeHuff Same	2-8-56
*WAPD-PWR-FE-1232	Preparation of Fuel Rods for the CR-IV X-1-f and X-1-g Tests at Chalk River.	T. J. Kisiel Westinghouse Elect. Corp., Bettis Plant, Pitts.	3-23-56
*WAPD-PWR-FEP-1146	Preliminary Process Specification for the Manufacture and Inspection of PWR Fuel Rod Bundles.	T. J. Kisiel Same	1-19-56
*WAPD-PWR-PCR-19	PWR Simulator Studies. [Period covered: October 1955]	Same	

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*WAPD-PWR-PCR-327	[RE] Delayed Neutron Monitor for use with the Failed Element Detection and Location System--PWR Project, Contract AT-11-1-Gen-14--Subcontract 73-(14-498).	W. R. Ellis Westinghouse Elect. Corp., Atomic Power Div., Pitts.	2-12-57
*WAPD-PWR-PMF-414	PWR Radioactive Waste Disposal System.	J. R. LaPointe Same	9-7-56
*WAPD-PWR-PMM-1026	Methane in PWR Core 1 Fuel Rods.	B. Lustman Same	1-7-57
*WAPD-PWR-RD-1-126	Re-Sizing of PWR Core 1 Blanket Orifices.	P. A. Bickel and S. Cerni Same	[8-8-57]
*WAPD-RM-33	Pile Kinetics for Linear Rate of ρ k Insertion--The Worst Accident Solution.	J. C. Connor Same	[1951]
*WAPD-RM-60	A Proposed Method of Measuring the Thermal Neutron Energy Distribution in the Interior of a Reactor.	M. Dansker Same	6-14-51
*WAPD-RM-169	Cyclic Variation of Reactor Power as a Means of Determining Film Coefficient Variation.	G. M. Anderson Same	2-53
*WAPD-S5W-TH(S)-352	Result of Investigation on Recommendations Concerning the SSN 585 Coolant Pressurising System Contained in the Report of the S5W Fluid Systems Review Committee.	J. A. Logan Westinghouse Elect. Corp., Bettis Plant, Pitts.	1-7-57
*WAPD-STR-L-494	PWR (Ease) Simulator Study--Series II.	J. P. Franz and N. F. Simcic Westinghouse Elect. Corp., Atomic Power Div., Pitts.	6-28-55
*WAPD-T-340	The Effect on Reactor Kinetics of Delayed Neutrons from Uranium-238 Fissions and Over-All Delayed Neutron Leakage.	P. H. Jarvis Westinghouse Elect. Corp., Bettis Plant, Pitts.	[6-56]
*WAPD-TM-82	Numerical Studies of Reactor Kinetic Equation Parameters.	M. J. Abrams Same	8-22-57

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WAPD-TM-114	A Lattice of Slightly Enriched UO_2 Fuel Rods Partly Immersed in Light Water.	D. R. Harris Westinghouse Elect. Corp., Bettis Plant, Pitts.	11-57
*WASH-23(Del.2)	Eleventh Meeting of the Reactor Safeguard Committee at North American Aviation, Inc., Downey, California, on June 29 and 30, 1950.	Reactor Safeguard Committee, AEC.	8-21-50
*WKNL-64	Preliminary Design of a 45 MW Engineering Test Reactor for the Connecticut Aircraft Nuclear Engine Laboratory.	K. H. Puechl Kidde (Walter) Nuclear Lab., Inc., Garden City, N.Y.	7-19-56
*YAEC-22	Instrumentation and Control Preliminary Functional Requirements.	B. H. Axelson, S. N. Ehrenpreis, S. M. Canter, et al Westinghouse Elect. Corp., Commercial Atomic Power, Pitts.	4-26-57
*YAEC-23	Conceptual Study of the Fuel Handling System.	E. V. Anderson and P. B. Haga Same	4-17-57
YAEC-66	Monthly Progress Report for the Period March 1st to 31st, 1958.	I. H. Coen and R. W. Garbe Westinghouse Elect. Corp., Atomic Power Dept., Pitts.	4-20-58
YAEC-57	Analysis of Experimental Data Reactivity of Plutonium-Bearing Fuel Rods.	W. H. Arnold, Jr. Same	2-25-58

MISCELLANEOUS

ASTIA-U58-4	Technical Abstract Bulletin. Bulletin No. U58-4.	Armed Services Tech. Information Agency, Arlington, Va.	4-15-58

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MISC-1958-103	Hearings Before the Joint Committee on Atomic Energy, Congress of the United States, Eighty-Fifth Congress, Second Session, on Problems of the Uranium Mining and Milling Industry, Pursuant to Section 202 of the Atomic Energy Act of 1954, which Requires Hearing on the "Development, Growth, and State of the Atomic Energy Industry", February 19, 24, and 25, 1958.	U. S. Congress	1958
NAA-SR-2400 (Pt. II of II)	Annual Technical Report. AEC Unclassified Programs for the Period January - December, 1957. Part II.	Atomics International Div., North American Aviation, Inc., Canoga Park, Calif.	3-15-58
NACA-ABSTRACTS-126	Research Abstracts and Reclassification Notice No. 126.	National Advisory Committee for Aeronautics	5-2-58
TID-4552(1st Rev.)	Guide to Coverage and Scope of Nuclear Science Abstracts. First Revised Ed.	Technical Information Service, AEC.	4-58
TID-5001(2nd Rev.) Book I	Subject Headings Used in the Catalogs of the United States Atomic Energy Commission. Book I. Subject Headings.	Charles W. Hargrave, ed. Same	4-58
TID-5001(2nd Rev.) Book 2	Subject Headings Used in the Catalogs of the United States Atomic Energy Commission. Book 2. (Appendixes)	Charles W. Hargrave, ed. Same	4-58

UCRL REPORTS ISSUED DURING MAY 1-15, 1958

UCRL-8026 Rev.	The Induction of Tumors in the Rat by Astatine-211	P. W. Durbin, C. W. Asling, M. E. Johnston, et al.	3-58
UCRL-8117 Abstract	Primary Physical and Chemical Processes in Radiobiology	P. Howard-Flanders	4-58
UCRL-8142	The Reactions of Uranium-238 with Carbon Ions	T. Sikkeland, S. G. Thompson, A. Ghiorso	3-58
UCRL-8196	Neutron-Deficient Iridium Isotopes	R. M. Diamond, J. M. Hollander	3-58
UCRL-8210	Comments on Franck's Theory of the Primary Quantum Conversion Process in Photosynthesis	G. Tollin	3-12-58
UCRL-8213 Lecture 4	Lecture on "Continuous Groups and Reflections in Quantum Mechanics"	W. Pauli, R. J. Riddell, Jr.	3-31-58
UCRL-8213 Lecture 5	Lectures on "Continuous Groups and Reflections in Quantum Mechanics"	R. J. Riddell, Jr.	4-4-58
UCRL-8213 Lecture 6	Lectures on "Continuous Groups and Reflections in Quantum Mechanics"	W. Pauli, R. J. Riddell, Jr.	4-22-58
UCRL-8217	The Study of Nuclear States Observed in Alpha Decay	F. S. Stephens, Jr.	3-58
UCRL-8228 Abstract	Early Effects of a Short-Lived Radium Isotope (Ra^{223}) on Bone Marrow	P. W. Durbin, C. W. Asling, M. E. Johnston, et al.	4-58
UCRL-8229 Abstract	Histophysiology of Calcium-45 Deposition in the Developing Skeletal Tissues of the Fetal Rat	M. E. Johnston, C. W. Asling	4-58
UCRL-8231	$\bar{p}$-p Elastic and Charge-Exchange Scattering at about 120 Mev	L. E. Agnew, Jr., T. Elioff, W. B. Fowler, et al.	

UCRL-8240 Abstract	Neutron Yields from Heavy Ion Reactions	E. L. Hubbard, R. M. Main, R. V. Pyle	4-14-58
UCRL-8241	On the Universal Fermi Interaction	S. A. Bludman	4-8-58
UCRL-8244 Abstract	Neutron Transfer from 140-Mev N^{14} Ions to Metallic Targets	E. L. Hubbard, G. Merkel	4-14-58
UCRL-8245	μ-Mesic Molecular Ions and Nuclear Catalysis	S. Cohen, D. L. Judd, R. J. Riddell, Jr.	4-10-58
UCRL-8249	Antiproton-Hydrogen Scattering and Inelastic Scattering from Complex Nuclei	G. Goldhaber, T. Kalogeropoulos, R. Silberberg	4-15-58
UCRL-8251 Abstract	Accuracy of Bond Distances in Monoclinic and Triclinic Crystals	D. H. Templeton	4-58
UCRL-8252 Abstract	Future Synthetic Elements by Heavy Ion Bombardment	G. T. Seaborg	
UCRL-8253 Abstract	Reactions of Carbon Ions with Heavy Nuclides	T. Sikkeland	
UCRL-8257 Abstract	Coulomb Excitation Experiments with the Heavy Ion Accelerator at Berkeley	J. P. Newton, F. S. Stephens	
UCRL-8258 Abstract	Antiproton Interactions in a Liquid Hydrogen Bubble Chamber	D. H. Miller, N. Horwitz, J. J. Murray, et al.	4-58
UCRL-8259	Elastic Scattering of Antiprotons from Complex Nuclei	G. Goldhaber, J. Sandweiss	4-22-58
UCRL-8266 Abstract	Element No. 102	A. Ghiorso, T. Sikkeland, J. R. Wilson, et al.	4-58

UCRL-8272 List of Unclassified Reports Received and Issued by the UCRL Information Division During the Period of April 15-30, 1958 5-2-58

Information Division	INFORMAL REPORTS ISSUED		Date No. Assigned
UCID-105 (3320-01 M76 A)	Cost Estimating Information	D.T. Scalise, E. Burger	4-14-58
UCID-106 (4311-17 M24)	10" Bubble Chamber Copper-Constantan Thermocouple Tests	G. Eckman	4-14-58
UCID-107 (4311-14 M1)	Bubble Chamber Development Four-Inch Liquid Hydrogen Bubble Chamber	M. Lynn Stevenson	4-14-58
UCID-108 (4311-14 M5)	20 x 50 Bubble Chamber First Cost Estimate	H.P. Hernandez	4-14-58
UCID-109 (4311-14 Mt-5)	Magnet Test Plan 20 x 50 Bubble Chamber Development 1/5.28 Model	F.S. Grobelch	4-14-58
UCID-110 (4311-14 M6)	20 x 50 Bubble Chamber	D. Norgren	4-14-58
UCID-111 (4311-14 M10)	Low Temperature Thermal Coefficients of Expansion	G. Eckman, J. Franck	4-14-58
UCID-112 (4311-14 M11)	Static Heat Leak 15 x 30 x 72 Bubble Chamber	B. Birmingham, D. Chelton	4-14-58

UCID-113 (4311-14 M27)	72" Bubble Chamber Magnet Coil Temperature Rise without Cooling	W. Eaton	4-14-58
UCID-114 (4311-14 M28)	72" Bubble Chamber Magnet Coil Inductance and Time Constant	W. Eaton	4-14-58
UCID-115 (4311-17 M8)	10" Bubble Chamber First Hydrogen Run November 17-19, 1955	D. B. Chelton, D. B. Mann	4-14-58
UCID-116 (4311-17 M14)	10" Bubble Chamber - Magnet Cooling Requirements for Gap Fields	W. Eaton	4-14-58
UCID-117 (4311-17 M19)	Decay of Vortices	R. Donaldson, R. Watt	4-14-58
UCID-118 (4312-07 M15)	72" Hydrogen Bubble Chamber - Optical Development Front Illumination of Large Hydrogen Bubble Chamber	D. Norgren	4-14-58
UCID-119 (4312-07 M10)	72" H_2 Bubble Chamber - Optics Bubbles in Water for Modeling in Dark Field	D. Norgren	4-14-58
UCID-120 (4312-07 M31)	Large Bubble Chamber Development, Data Processing and Optical Studies H_2 Bubble Chamber Optics, Problem of Distortions	F. Solmitz	4-14-58
UCID-121 (4312-07 M26)	Large Bubble Chamber Development Data Processing Optical Studies Dollar Cost of Picture Resolution	D. Norgren	4-14-58

UCID -122 (4312-07 M34)	Large Bubble Chamber Development Data Processing and Optical Studies Relation Between Film Resolution and Permissable Demagnification	H. Bradner, D. Norgren	4-14-58
UCID-123 (7911-10 M1)	72 Bubble Chamber - Magnet Floor Loading	P. Hernandez	4-14-58
UCID-124 (7911-11 M1)	72 Hydrogen Bubble Chamber Magnet Coil Conductor Specifications	W. Eaton	4-14-58
UCID-125 (7911-11 M2)	72" Hydrogen Bubble Chamber Fabrication-Magnet Coil Magnet Coil Winding Contract J 31916	H.P. Hernandez	4-14-58
UCID-126 (7911-11 M3)	72 Hydrogen Bubble Chamber, Magnet Coil Bend Test of Copper Conductor	J. Hart	4-14-58
UCID-127 (7911-11 M4)	72 Hydrogen Bubble Chamber, Magnet Coil Pressure Tests on Copper Conductor	J. Hart	4-14-58
UCID-128 (7911-01 F1)	Trip Report on Bubble Chamber Matters. Dewar Heads, Methacrylate and Glass Windows	J. Turner	4-14-58
UCID-129 (7911-01 M8)	Specific Heat of Metals	H.P. Hernandez	4-14-58
UCID-130 (7911-30 M14)	72 Hydrogen Bubble Chamber Fabrication Chamber Assembly Magnetic Permeability Requirement of Chamber Material	H.P. Hernandez	4-14-58

UCID-131 (7911-30 M16)	72" Hydrogen Bubble Chamber Chamber Stresses	L. R. Lucas	4-14-58
UCID-132 (7911-30 M26)	72" Hydrogen Bubble Chamber - Hydraulic Forming Chamber Beam Window	L. R. Lucas	4-17-58
UCID-133 (4601-81 M6)	General Chemistry Research - High Current Cyclotron Preliminary Studies - Tentative Specifications	R. Burleigh, E. Kelly	4-24-58
UCID-134 (4320-12 M3)	Data Analysis Development - Optical System Development 72" Chamber - Test of Xenon Flash Tubes	J. Mark, R. W. Sorenson	4-24-58
UCID-135 (4902-06M 255A)	184" Cyclotron Experimental Facilities H Steering Magnet	R. Peters	4-28-58
UCID-136 (7307-01M 12A)	Bevatron-Experimental Facilities - Preliminary Study of 16,000 Gauss, 6" Gap, 13 x 24 Pole "C" Magnet	W. Salsig, K. Lou	4-28-58
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UCID-140 (7910-72 M254A)	Bevatron Experimental Facilities - 8" - 20,000 Gauss Air Gap "H" Magnet	K. H. Lou	5-1-58
UCID-141 (4310-03 M28)	General Physics Research - Alvarez' Group "Peculiar" Λ and K Decays	M. L. Good	5-8-58
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UCID-144 (4310-03 LA6)	Λ^0 Spin - Lee-Yang Test Functions	F. Crawford	5-8-58
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