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Lawrence Radiation Laboratory
Berkeley, California

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LIST OF UNCLASSIFIED REPORTS RECEIVED AND ISSUED BY THE UCRL
INFORMATION DIVISION DURING THE PERIOD OF FEBRUARY 16 - 28, 1959

March 5, 1959

Presented to 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.

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 FEBRUARY 16 - 28, 1959

Lawrence Radiation Laboratory
University of California
Berkeley, California

March 5, 1959

<u>Index Number</u>	<u>Title</u>	<u>Author</u>	<u>Date</u>
<u>BIOSCIENCES</u>			
*AEC-tr-1961	Concerning Capillary Conduction of Water in the Ground (Rise, Seepage and Application to Irrigation), by Josef Kozeny. Trans. from Akademie der Wissenschaften, Vienna. Mathematisch-naturwissenschaftliche Klasse. Sitzungsberichte, Abt. IIa, <u>136</u> , 271-306 (1927).		
*AEC-tr-3046	On the Methods of Finding Changes Arising in the Organism Under the Influence of Small Doses of Ionizing Radiation. A Draft Translation of a U.S.S.R. Report, 1956.		
*AECU-3891	Studies on the Effects of Maternally Administered Phosphorus-32 on Foetal and Post-Natal Development of the Rat.	J. E. Loistrom Wayne State Univ., Detroit. Coll. of Medicine	1957
*AECU-3893	The Effect of the Level of Nutrition on the Pathology and Productivity of Range Sheep. Progress Report No. 4 and Final Report for January 15, 1957 to April 15, 1958.	Utah State Agricultural Coll., Logan	
*AECU-3894	The Release and Stability of the Large Sub-Unit of DNA from T ₂ and T ₄ Bacteriophage.	C. A. Thomas, Jr. Johns Hopkins Univ., Baltimore	[1958]
*AECU-3897	The Effect of X-Irradiation on a Megakaryocytosis Produced in Gelatin Treated Animals.	I. M. Murray, A. R. Seaman N.Y. State Univ. Veterinary Coll., Ithaca	[1945]
*Microcards			

*AECU-3904	Upper Atmosphere Monitoring Program. Quarterly Report Covering Period February 1, 1958 Thru June 30, 1958. Report No. 1884.	S. Stern, L. Torgeson, S. Rohrbough, et al. Gen. Mills, Inc., Minn.	11-7-58
*AECU-3911	Physiological Studies on Congenital Deformity in Mice. Progress Report and Fourth Renewal Proposal. Report Period: September 1, 1957 - August 31, 1958. Renewal Period: December 1, 1958 - November 30, 1959.	M. N. Runner Roscoe B. Jackson Memorial Lab., Bar Harbor, Me.	10-1-58
*AECU-3912	Antibody Synthesis.	W. H. Taliaferro Chicago Univ.	1958
AERE-C/R-2614	The Spectrochemical Determination of Total Strontium in Bone, Milk and Vegetation.	R. V. Jury, M. S. W. Webb, R. J. Webb U.K.A.E.A. Research Group, Chemistry Div., Woolwich Outstation, England	11-58
ATI-33654	Development of Oxygen Candle Apparatus for Use in Aircraft. Report to the Committee on Medical Research of the Office of Scientific Research and Development.	J. R. Pappenheimer Naval Research Lab. (Wash., D.C.) and Pennsylvania Univ., Phila- delphia. Johnson Research Foundation and Nat'l Defense Research Committee and Oldbury Electro-Chem. Co., Niagara Falls, N.Y. and Mine Safety Appliances Co., Pittsburgh	
*BNL-2304	Metabolic Effects of Marked Sodium Restriction in Hyper- tensive Patients; Comparison with Two Normotensive Individuals.	L. K. Dahl, B. G. Stall, III, G. C. Cotzias	[1955]
HASL-51	Strontium Program Quarterly Summary Report.	E. P. Hardy, Jr. S. Klein N. Y. Oper. Office. Health and Safety Lab., AEC	11-19-58

*Microcards

HW-52368	Techniques for Exposure of Mice to Aerosols of Radioactive Particles.	D. H. Willard, W. J. Bair, L. A. Temple, et al.	11-1-58
HW-58221	Behavior of I^{131} Following its Inhalation as a Vapor and as a Particle.	D. H. Willard, W. J. Bair	12-24-58
MISC-1959-31	Determination of Atmospheric Contaminants. Reprinted from American Gas Assn., New York. Proceedings [35], 892-923 (1953).	G. D. Clayton Amer. Gas Assn., N. Y.	1953
MISC-1959-47	The Effect of Ionizing Radiation on the β -Aminolaevalic Acid Dehydrase in Rats. Report No. 47/XRB.	A. M. Danciewicz, B. Lipinski, O. Rosiek Polish Academy of Sciences. Inst. of Nuclear Res., Warsaw	12-58
*NP-6763	Aircraft Nuclear Propulsion Biomedical Research Program. Report No. 4. Radio-Biologic Problems of ANP.	R. M. Dowben, D. B. Williams, E. M. Miller, et al. School of Aviation Medicine, Randolph AFB, Tex.	10-55
*NP-6764	Aircraft Nuclear Propulsion Biomedical Research Program. Report No. 5. Contract Research on Radiobiologic Problems of ANP.	Same	[1958]
*NP-6811	Gamma-Ray Measurement of Defects in Poles and Trees.	B. J. J. McHugh, H. E. Booth Australia. Forestry Commission of New South Wales Div. of Wood Tech., Sydney	1957
*NP-6848	List of Publications Issued by the Laboratory, First Revision. Part I. Technical Communications. Part II. Miscellaneous Publications. Part III. Subject Index.	Australia. Commonwealth X-Ray and Radium Lab., Melbourne	1-58

*Microcards

NYO-2274	Annual Report on Research Project.	Columbia Univ., N.Y. Radiological Res. Lab.	7-1-58
*NYO-4614	Evaluation of the Electro-PL and Electro-Klean Dust Collectors.	R. Dennis, E. Kristal, L. Silverman Harvard Univ., Boston. Air Cleaning Lab.	7-21-58
*NYO-4889	A Study of Fallout in Rainfall Collections from March Through July, 1956.	W. R. Collins, Jr., N. A. Hallden	4-30-57
*NYO-8601	Biological Effects of Beryllium and Its Compounds.	J. Cass, F. Cleveland, A. W. Horton Cincinnati. Univ. Kettering Lab.	6-10-58
ORNL-2557	Report of the Joint Program of Studies on the Decontamination of Radioactive Waters.	ORNL., (Tenn.) and Robert A. Taft Sanitary Eng. Center, Cincinnati	2-9-59
*ORO-175	Studies on the Biochemical and Nutritional Aspects of X-Irradiation Injury.	P. L. Day, F. D. Lawrason, J. T. Caldwell Arkansas. Univ., Little Rock. School of Medicine	5-1-58
RDB(W)TN-79	Some Notes on Alpha Assay by the Counting of Thick Sources.	T. E. F. Carr, G. S. Murray U.K.A.E.A. Industrial Group. Windscale Works, Sellafield, Cumb., England	1958
*SC-4153(TR)	Dispersal of Fallout by Means of a Heat Source.	K. L. Shipley	3-58

*Microcards

SCTM-80-57(51)	Fallout from a Hypothetical 1-MT Surface Burst at Albuquerque.	L. J. Vortman Sandia Corp., Albuquerque, N. Mex.	3-10-57
Trans. 11E2G	Technical Remarks on the Electron Counter, by Hans Geiger and Walther Miller. Trans. from Physikalische Zeitschrift <u>30</u> , 489-93 (1929).		
UCLA-433	Metabolism of Essential Fatty Acids. VIII. Origin of 5, 8, 11-Eicosatrienoic Acid in the Fat-Deficient Rat.	A. J. Fulco, J. F. Mead	2-9-59
UR-530	Studies on Aerosols.	L. Dauterebande	10-1-58
WADC-TR-56-614	An Elastic Tube Theory of Pulse Transmission and Oscillatory Flow in Mammalian Arteries.	J. R. Womersley Wright Air Dev. Center. Aeronautical Res. Lab., Wright-Patterson AFB, Ohio	1-57

CHEMISTRY

AEAC-tr-1969	Electrochemical Series of Metals in Molten Salts, by Iu. K. Delimarskii. Trans. from Ukrainskii Khimicheskii Zhurnal <u>16</u> , 414-36 (1950).
AEAC-tr-2068	Investigation of the System $\text{Na}_2\text{O} - \text{SiO}_2 - \text{ZrO}_2$, by J. D'Ans and J. Loeffler. Trans. from Zeitschrift für anorganische und allgemeine Chemie <u>191</u> , 1-35 (1930).
AEAC-tr-2082	Experiments with Heterodispersed "Seeds", by S. Maričić and I. Markovčić. Trans. from Zeitschrift für anorganische und allgemeine Chemie <u>276</u> , 193-203 (1954).
AEAC-tr-2106	Chemical Physics Series. Vol. 9. Book I. Imperfect Gases, by Taro Kihara. Book II. Condensation Phenomena, by Yoshiro Muto. Trans. of a book published in 1948.
AEAC-tr-2167	X-Ray Spectrographic Investigation of Aging Metal Hydroxides, by R. Fricke and F. Wever. Trans. from Zeitschrift für anorganische und allgemeine Chemie <u>136</u> , 321-4 (1924).

- *AEC-tr-2147 Quantitative Analysis of Indium, by D. Jentzsch, I. Frotzcher, G. Schwerdtfeger, and G. Sarfert. Trans. from Zeitschrift für analytische Chemie 114, 8-16 (1955).
- *AEC-tr-2360 The System Sodium Hydroxide - Sodium Nitrate - Water, by E. Janecke. Trans. from Zeitschrift für anorganische und allgemeine Chemie 188, 72-80 (1930).
- *AEC-tr-2390 Notes on Studies of Rare Earth Metals, by W. Klemm and H. Bommer. Trans. from Zeitschrift für anorganische und allgemeine Chemie 231, 160-71 (1937).
- *AEC-tr-2401 The Linkage of Water in Hydrates of Manganese Dioxide, Titanium Dioxide and Thorium Dioxide, by Oscar Glömser. Trans. from Zeitschrift für Elektrochemie und angewandte physikalische Chemie 45, 820-2 and 826-9 (1939).
- *AEC-tr-2430 Direct Potentiometric Titration of Fluorides, by M. M. Raines, O. I. Perogova, and M. V. Andreeva. Trans. from Zavodskaya Laboratoriia 21, 152-4 (1955).
- *AEC-tr-2440 The Relationship Between Concentration and Activity in Fused Salt Mixtures, by H. Flood, T. Förland, and K. Grojtoheim. Trans. from Zeitschrift für anorganische und allgemeine Chemie 276, 289-315 (1954).
- *AEC-tr-2455 Studies on the Reaction Between Polynitrobenzene Compounds and Active Methylene Groups. II. Synthesis of Picryl Compounds, by Michiya Kimura. Trans. from Yakugaku Zasshi 73, 1216-8 (1953).
- *AEC-tr-2475 The Reversible Glass - Tin - Sodium Reference Electrode in Fused Salts, by Iu. K. Delimarskii and A. A. Kolotti. Trans. from Ukrainskii Khimicheskii Zhurnal 16, 438-46 (1950).

*Microcards

- AEC-tr-2479 Behavior of the Glass Tin-Sodium Electrode in Various Molten Salts, by A.A. Kolotti. Trans. from Ukrainskii Khimicheskii Zhurnal 20, 502-7 (1954).
- AEC-tr-2483 Oxygen Depolarization on an Iron Porous Electrode, by A.A. Edigarian and N.N. Voronin. Trans. from Ukrainskii Khimicheskii Zhurnal 21, 195-205 (1955)
- AEC-tr-2521 Pure Silicon, by H.V. Wartenberg. Trans. from Zeitschrift für anorganische und allgemeine Chemie 283, 372-6 (1956)
- AEC-tr-2538 Determination of Decomposition Potentials of Molten Fluorides of Alkaline and Alkaline Earth Metals, by Iu. K. Delimarskii and F.F. Grigorenko. Trans. from Ukrainskii Khimicheskii Zhurnal 21, 561-8 (1955)
- AEC-tr-2539 Electrochemical Separation of Binary Alloys of Pb with Bi, Sb, As, and Sn in Molten Electrolytes, by Iu. K. Delimarskii, P.P. Turov, and E.B. Hitman. Trans. from Ukrainskii Khimicheskii Zhurnal 21, 687-93 (1955)
- AEC-tr-2543 The Relationship Between Concentration and Activity in Fused Salt Mixtures, by H. Flood, O. Fykes and S. Urnes. Trans. from Zeitschrift für Elektrochemie 59, 364-70 (1955)
- AEC-tr-3069 A Study of Denuding. Several Considerations Concerning the Denuding Process of Amalgam from a Galvanic Corrosive Point of View, by Fumio Hine. Trans. of a publication issued by Kyoto Univ., [1956]
- AEC-tr-3189 Contemporary Problems in the use of Ultrasound. III. Ultrasonic Microscope, by S. Va. Sokolov. Trans. from Uspekhi Fizicheskikh Nauk 40, 20-7 (1950)
- AEC-tr-3248 Methods and Equipment for Long-Wave Infrared Spectroscopy, by N.G. Iaroslavskii. Trans. from Uspekhi Fizicheskikh Nauk 62, 159-86 (1957)

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AEUCU-3791	Final Report on E.I. Du Pont de Nemours Radioactive Waste Concentration Project	T.C. Carnavos Griscom-Russell Co., Massillon, Ohio	10-15-56
AEUCU-3875	A Calculation of the Elastic Constants of Calcium Fluoride (thesis)	R.N. Seitz Case Inst. of Tech. Cleveland	5-58
AERE-EL/R-2598	The Interpretation of Gamma-Ray Scintillation Spectra from Fission Product Mixtures	D.H. Peirson	5-58
AERE-I/R-2746	Gamma-Radiation and Catalysis. The Methanol Synthesis over Zinc Oxide	T.I. Barry, R. Roberts	11-58
*CF-57-4-115	Operation of the Distillation Method for the Determination of Sodium Oxide in NaK During the Calibration of a Plug Indicator	R.D. Peak ORNL, Tenn.	4-30-57
*CF-57-9-73	Darex Flowsheet (Batch Operations.)	W.E. Clark Same	9-18-57
*CF-58-10-40	Dowtherm "A" Journal Bearing Test	W.E. Thomas Same	11-6-58
*CF-58-11-40	Results of Examinations of Fused Salt Mixtures by Optical and X-Ray Diffraction Methods	R.E. Thoma Same	11-14-58
CRDC-811	The Accurate Determination of Microgram Amounts of Boron in Aluminum and Aluminum-Uranium Alloys by the Methyl Borate - Curcumin - Oxalic Acid Method	I.H. Crocker Atomic Energy of Canada Ltd., (Chalk River Ont.)	10-58
GAT-T553 (Rev.1)	Powder X-ray Diffraction and Related Data on NOUF and NOMoF ₆ 6	F.J. Musil, P.R. Ogle, K.E. Beu, Goodyear Atomic Corp. Portsmouth, Ohio	12-31-58
IEC-1069	Separation of Cerium from Other Rare Earths by Ignition of the Nitrates	R.W. Johnson, E.H. Olson, Ames Lab., Ames, Iowa	9-58
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NAFL-1911	Determination of Silver, Cadmium, Indium, and Tin in Silver-Base Alloys	D.P. Stricos, J.T. Porter II, Knolls Atomic Power Lab., (Schenectady, N.Y.)	1-59
TAMS-2236	Alpha-Particle Oxidation and Reduction in Aqueous Plutonium Solutions	S.W. Rabideau, M.J. Bradley, H.D. Cowan, Los Alamos Scientific Lab., N. Mex.	2-11-59
MSW-1424	Some Physical Properties of Uranyl Nitrate Solutions	G.P. Lang, M.O. Nethaway, Mallinckrodt Chemical Works, St. Louis	12-15-58
MSC-1959-39	Processing of the Golden Cycle Blend of Colorado Front Range Uranium Ores (AEC-455.26). Research Report No. 53.1)	I.L. Nichols, J.R. Ross, K.E. Tame, J.B. Rosenbaum, Bureau of Mines. Intermountain Experiment Station, Salt Lake City	1-59
MSC-1959-43	Quantitative Evaluation of Chromatograms by Double Decomposition with Simple Radioactive Reagents. I. The Use of Ag ¹³¹ I in Radiometric Estimation of Organic and Phosphoric Acids. Report No. 43/V; XRB	Z.J. Zubrzycki, A.Z. Budzyński, I.G. Campbell, Polish Academy of Sciences. Inst. of Nuclear Research, Warsaw	11-58
MSC-1959-44	Synthesis of C ¹⁴ -Labelled Sodium or Potassium Cyanide. Report No. 44/V	M. Wolska-Witerowa, Polish Academy of Sciences. Inst. of Nuclear Research, Warsaw	11-58

MSC-1959-45	Spectrophotometric Determination of Contaminations in Nuclearly Pure Uranyl Nitrate. Report No. 45/VIII.	T. Nowicka-Jankowska, A. Golkowska, I. Pietrzak, W. Zmijewska, Polish Academy of Sciences. Inst. of Nuclear Research, Warsaw.	11-58
MSC-1959-51	The Tri-n-butyl Phosphate (TBP) - Diluent - $\text{HNO}_3\text{-H}_2\text{O}$ System. Report No. 51/IV	W. Korpak, C. Deptula, Same	12-58
MSC-1959-52	The Synthesis of Acetic Acid Labelled with C^{14} in the Carboxyl Group. Report No. 52/V	J. Oleksy-Lesinska Same	12-58
MSC-1959-53	Effects of Chlorides and Sulphates on Extraction of Uranium and Iron by Tri-n-butyl Phosphate. Report No. 53/IV	W. Korpak, C. Deptula, Same	12-58
MSC-1959-55	Synthesis of Glycine Labelled with C^{14} in the Carboxyl Group. Report No. 55/V	K. Russin, Same	12-58
Monograph 3121	Intensities in Inorganic Complexes. Part II. Tetrahedral Complexes. Reprinted from Journal of Molecular Spectroscopy <u>2</u> , 342-60 (1958)	C.J. Ballhausen, A.D. Liehr, Bell Telephone Labs., Inc., New York	11-58
Monograph 3122	Gassing of Liquid Dielectrics Under Electrical Stress; Influence of Voltage and Pressure. Reprinted from Industrial and Engineering Chemistry <u>50</u> , 959-66 (1958)	H. Basseches, M.W. Barnes Same	11-58
Monograph 3128	Quantitative Spectrochemical Methods of Broad Applicability. Reprinted from Applied Spectroscopy <u>12</u> , No. 2(?) 87-9 (1958)	E.K. Jaycox Same	11-58

ograph 3133	Surface Melt Patterns on Silicon. Reprinted from Acta Crystallographica <u>11</u> , 397-9 (1958)	G.L. Pearson, R.G. Treuting Bell Tel. Labs., Inc., N.Y.	11-58
ograph 3140	Diffusion in Ethylene Polymers. III. Effects of Temperature and Pressure. Reprinted from American Chemical Society, Washington, D.C. Journal <u>80</u> , 1861-8 (1958)	D.W. McCall, W.P. Slichter Same	11-58
SAR-TR-321-12	Test Results of Liquid Metal Closed Cycle Coolant System	R.C. Andrews, J.R. Betz MSA Research Corp., Callery, Penna.	11-15-57
AA-SR-3450	AEC Unclassified Programs. Bi-Monthly Technical Progress Report [for] November-December 1958	Atomics International Div., North American Aviation, Inc., Canoga Park, Calif.	2-1-59
MP-6760	Current Literature Abstracts Bulletin. Volume 7, No. 1	Olin Mathieson Chemical Corp. Niagara Falls, N.Y.	1-58
MP-6761	Current Literature Abstracts Bulletin. Volume 7, No. 2	Same	2-58
MP-6796	Synthesis and Evaluation of High Temperature Stable and Nuclear Radiation Stable Metal-Cyclopentadienyl Fluids. Quarterly Progress Report No. 4 Covering Period March 15, 1958 to May 31, 1958.	Wyandotte Chemicals Corp., Wyandotte, Mich. and Illinois. Univ., Urbana	6-30-58
MP-6808	Ionic Conductivity and Diffusion in Cesium Bromide and Cesium Iodide. Technical Report No. 1 [on] Physics of the Solid State	D.W. Lynch, Illinois, Univ., Urbana	6-58
MP-6809	Development of an Advanced Nuclear Radiation-Resistant Hydraulic Fluid. Quarterly Report No. 1.	California Research Corp., Richmond, Calif.	5-31-58
MP-6813	Chemical Kinetics by Nuclear Magnetic Resonance. Research Report No. 3.	O.E. Myers, Convair Scientific Research Lab., San Diego, Calif.	6-15-58

Microcards

UCRL-8672

NP-6814	Electrode Potentials in Molten Lithium Chloride-Potassium Chloride Eutectic. Behavior of Halogen, Iron and Vanadium Electrodes. Technical Report No. 5. (Thesis)	J.W. Pankey, Illinois Univ., Urbana	6-15-58
NP-6815	Research on Growing of Cadmium Sulfide Crystals for Dosimeter Purposes. Quarterly Report No. 4 for the Period January 17, 1958 to April 17, 1958.	J.E. Powderly, K.E. Bean, Eagle-Picher Research Labs., Miami, Okla.	4-17-58
NP-6816	Tables of Dielectric Materials. Volume VI. Technical Report 126.	W.B. Westphal, Massachusetts Inst. of Tech., Cambridge, Lab. for Insulation Research	6-58
NP-6835	Critical Field Measurements on Superconducting Lead Isotopes. Technical Report No. 11	D.L. Decker, Illinois, Univ. Urbana	7-58
NP-6838	Evaluation of Experimental Polymers for Dielectric Applications. A Preliminary Evaluation of Differential Thermal Analysis as a Means of Determining Thermal Stability of Organic Polymers. First Quarterly Progress Report for April 24, 1958 to July 5, 1958.	C.D. Doyle, J.A. Hill, General Electric Co. General Eng. Lab., Schenectady, N.Y.	7-15-58
NP-6842	Properties of Gases at Extremely High Temperatures. Technical Report No. 3.	I. Amdur, E.A. Mason, Massachusetts Inst. of Tech., Cambridge and Maryland. Univ., College Park. Inst. of Molecular Physics	8-1-58
NP-6849	Special Measurement Techniques for Thermoelectric Materials with Results for Bi_2Te_3 and Alloys with Bi_2Se_3 . Technical Report No. 1.	T.C. Harman, M.J. Logan, Battelle Memorial Inst., Columbus, Ohio	6-1-58

Microcards

TR-48	Temperature Measurement with a Graphite - Tungsten Thermocouple, by E.A. Calileava. Trans. from Teploenergetika <u>3</u> , 62-3 (1956)		
ANP-tr-64	The Binding of Potassium by Carbon, by Karl Fredenhagen and Gustav Cadenbach. Trans. from Zeitschrift für anorganisch und allgemeine Chemie <u>158</u> , 249-63 (1926)		
AFG-7	A Review of Some of the Physical Properties of Heavy Water	W.E. Cooper, Atomic Energy of Canada Ltd., Chalk River Project, Chalk River, Ont.	1-55
NEC-208(Suppl.)	Additional Engineering Studies (Preliminary) Polymer Project. (Production Facilities for Boron 10)	Girdler Corp. Gas Processes Div., Louisville, Ky.	4-17-53
EO-220	Additional Engineering Studies-Polymer Project. (Production Facilities for Boron 10)	Same	4-24-53
4805	Kinetics of Reactions Between Liquid Metals and Liquid Salts. Progress Report Covering Period March 1, 1958 to December 15, 1958	Thomas King Massachusetts Inst. of Tech., Cambridge. Dept. of Metallurgy	
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*MURA-407	Resonance Survey in the Electron Model Spiral Sector FFAG Accelerator.	W. A. Wallenmeyer Same	6-2-58
MURA-440	On Helmholtz's Theorem in Finite Regions.	J. Van Bladel Same	12-29-58
MURA-441	On the Instability of a Coasting Beam.	C. E. Nielsen, A. M. Sessler Same	1-1-59
MURA-443	The Non-Linear Coupling Resonance $2\nu_y - \nu_x = 1$	L. J. Laslett Same	1-2-59
NEVIS-73	The Interactions of 173 Mev Negative Pions in Deuterium. (Thesis)	R. L. Bingham Columbia Univ., Irvington- on-Hudson, N. Y. Nevis Cyclotron Labs.	12-58
NEVIS-77	Spallation of Bismuth by 380 Mev Protons. (Thesis)	E. T. Hunter Same	1-59
*NP-6490	Neutron Dosimetry Research. Quarterly Progress Report No. 2 for Period June 15, 1957 to Sept. 14, 1957.	W. S. Diethorn, E. Paskall, R. K. Willardson, et al. Battelle Memorial Inst., Columbus, Ohio	10-2-57
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*NP-6762	Present State of Knowledge About L Capture. (In French)	P. Radvanyi, M. Langevin Paris. Universit�.	2-5-57
*NP-6769	German Science Bulletin Number 26.	American Consulate General, Frankfurt am Main. Science Div.	5-58
*NP-6775	Quarterly Progress Report No. 49 [for] Period Ending April 15, 1958.	J. B. Wiesner, G. G. Harvey, H. J. Zimmermann Mass. Inst. of Tech., Cambridge. Res. Lab. of Electronics.	
*NP-6777	Solution to Multi-Group Diffusion Equation for Plane Geometries. Scientific Paper 6-94469-3Pl.	R. S. Carter Westinghouse Elec. Corp. Res. Labs., East Pittsburgh, Penna.	11-25-57
*NP-6791	The Diffraction of Electrons by Thin Films. Technical Report (Final). Dept. of Chemistry.	S. H. Bauer Cornell Univ., Ithaca, N. Y.	2-1-58
*NP-6795	German Science Bulletin No. 27.	American Consulate General, Frankfurt Am Mein. Science Div.	6-58
*NP-6818	The Flux of Cosmic Ray Particles with $Z \geq 2$ over Texas.	A. Engler, M. F. Kaplon, J. Klarmann Rochester, N. Y. Univ.	[1958]
*NP-6821	Stark Effect on the Hyperfine Structure of Cesium ¹³³ . Technical Report 322.	R. D. Haun, Jr. Mass. Inst. of Tech., Cambridge. Res. Lab. of Elec.	1-18-57
*NP-6840	Quarterly Progress Report No. 29.	Mass. Inst. of Tech., Cambridge. Solid-State and Molecular Theory Group	7-15-58

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*NP-6870	Gamma-Ray Insensitive Emulsions. Quarterly Report No. 8 for January 1, 1958-March 31, 1958.	D. A. Nepela, H. F. Nitka Anso Div., General Aniline and Film Corp., Binghamton, N.Y.	
*NP-tr-78	Mesonic Atoms, by D. D. Ivanenko and G. E. Pustavalov. Trans. from Uspekhi Fizicheskikh Nauk <u>61</u> , 27-43 (1957).		
*NRDC-35	Fast Neutron Processes in Be.	J. E. Sanders, D. J. Littler Gt. Brit. Atomic Energy Res. Establishment, Harwell, Berks, England	3-54
*NRDC-73(Del.)	On $\bar{\nu}$, the Average Neutron Yield per Fission.	J. S. Story Same	7-55
*NRDC-103	The Cross Sections of Tc^{99} , Nd^{143} , Nd^{145} , Sm^{149} , Eu^{151} , Gd^{155} , Gd^{157} , in the Neutron Energy Range 0.01 to 0.07 eV.	H. J. Hay, N. J. Pattenden U.K.A.E.A. Res. Group. Atomic Energy Res. Establish- ment, Harwell, Berks, England	[1958]
NYO-2196	Quarterly Report Covering the Period October 1 - December 31, 1958.	Princeton Univ., N. J. Project Matterhorn	
NYO-2536	Theory of Cusped Geometries. II. Particle Losses.	J. Berkowitz N. Y. Univ., N. Y. Atomic Energy Commission Computing and Applied Mathematics Center	1-6-59
NYO-7904	Stability of Hydromagnetic Equilibria with Helically Invariant Fields.	J. L. Johnson, C. R. Oberman, R. M. Kulsrud, et al. Princeton Univ., N. J. Project Matterhorn	8-1-57
*ORNL-436(Del.)	A Critical Review of ORNL Shield Measurements: Neutron Attenuation.	H. P. Sleeper, Jr.	12-21-49

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*ORNL-1360(Del.)	Mathematics Panel Quarterly Progress Report for Period Ending July 31, 1952.	C. L. Perry, ed.	10-27-52
*ORNL-2518	Attenuation in Water of Radiation from the Bulk Shielding Reactor: Measurements of the Gamma-Ray Dose Rate, Fast-Neutron Dose Rate, and Thermal-Neutron Flux.		7-8-58
ORNL-2648	The Oak Ridge Relativistic Isochronous Cyclotron.	R. S. Livingston, F. T. Howard, Comp. and Ed.	2-12-59
*ORO-173	Recent Experimental Results on Electron-Capturing Nuclides.	R. W. Fink Arkansas Univ., Fayetteville	3-1-58
SC-4257(TR)	A Stabilized Transistor Oscillator.	T. F. Marker	1-59
*SCR-10	Acceptance Sampling Criteria for the Consumer.	A. F. Hurford Sandia Corp., Albuquerque, N. Mex.	8-8-58
*SCR-17	Tube Design and Circuit Considerations for Fast-Heating Electronic Systems.	K. D. Hardin Same	6-58
*SCR-18	Contact-Resistance Symposium, Bendix Aviation Corporation Kansas City Division, Sandia Corporation, June 14, 1957, Albuquerque, New Mexico.	Same	5-58
*SCR-20	A Comparison of the Power Curves of Some Double-Sample Tests.	D. B. Owen Same	6-58
*SCR-22	Geometric Progressions Modulo n as Random Number Generators.	D. R. Morrison Same	6-58
*SCR-23	Digital Data Gathering System, Blowdown Wind Tunnel.	W. T. Botner Same	4-1-58
*SCR-27	Empirical Uncertainties in Predicting Particle Trajectories.	T. E. Van Zandt, J. W. Reed Same	9-56
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*SCR-28	Some Causes and Remedies for Undesirable Variability of Relay Performance Characteristics.	J. W. Grear, Jr. Sandia Corp., Albuquerque, N. Mex.	4-58
*SCR-30	Derivation from Boltzmann's Equation of the Similarity Laws for Low-Pressure Discharges.	T. E. Van Zandt Same	10-56
*SCR-40	The Vanishing Coefficients in Series Expansions of Periodic Distribution Functions.	T. E. Van Zandt Same	7-58
*SCTM-11-58(14)	Theory of Inverted L-Antenna with Image.	C. W. Harrison, Jr. Same	4-8-58
*SCTM-37-58(14)	Antenna Synthesis.	C. W. Harrison, Jr. Same	3-10-58
*SCTM-51-58(14)	Radiation from an Inverted L-Antenna with Image.	C. W. Harrison, Jr., D. Sparks, Same	4-16-58
*SCTM-102-58(12)	Ozolid-Photo-Chemical Method of Producing Printed Wiring Boards.	H. L. Hawk Same	3-21-58
*SCTM-129-58(51)	A Continuously Variable Constant-Current Source.	A. R. Phillips Same	6-3-58
*SCTM-134-58(51)	The Measurement of Remanent Magnetization.	R. W. Kulterman Same	4-15-58
*SCTM-157-58(14)	Hybrid Transmission Lines.	C. W. Harrison Same	5-15-58
*SCTM-169-58(51)	Distribution of a Quadratic Function of a Single Variable.	E. J. Gilbert Same	4-30-58
*SCTM-177-58(15)	An Application of the Trinomial Distribution to Acceptance Inspection.	B. E. Barker Same	6-3 -58

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TNCC-8	Tripartite Nuclear Cross Sections Committee. Minutes of the Technical Portions of the Fourth Meeting Held on May 20 - 22, 1958, A.E.C.L., Chalk River.	Nuclear Dev. Corp. of America, White Plains, N.Y.	11-1-58
WAPD-TM-137	DRACO. A Three-Dimensional Few-Group Depletion Code for The IBM-704.	D. S. McCarty, C. M. King, J. T. Mandel, et al.	12-58
<u>REACTOR SCIENCE</u>			
AEC-tr-3559	The Influence of Cell Configuration on the Laplacian and Fine Structure of Thermal Flux in a Heterogeneous Reactor, by B. Bailly du Bois. Trans. of report CEA-740, issued by France. Commissariat à l'Energie Atomique, Paris, 1957.		
CAECU-3867	Computer Program for Transients in Nuclear Reactor Coolant Networks.	K. E. Korn, R. C. Jacobsen, R. O. Woods Allstates Design and Development Co., Inc., Trenton	6-4-58
AERE-N/M-221	The Computed Frequency Response of DIDO and PLUTO at Low Power.	L. A. J. Lawrence	11-58
APAE-30	Army Package Power Reactor APPR-1 Operating Manual and Inspection and Service Manual.	Alco Products, Inc., Schenectady, N. Y.	2-58
BNL-532	Reactor Operations. Monthly Report [for] November, 1958.	R. W. Powell, C. L. Osborne	1-59
BNL-2432	Liquid Bismuth as a Fuel Solvent and Heat Transport Medium for Nuclear Reactors.	O. E. Dwyer, D. H. Gurinsky, J. R. Weeks	[1955]
BNL-3489	A Liquid Metal Breeder Blanket for Power Reactors.	J. W. Bryner, R. J. Teitel, M. B. Brodsky	12-12-57

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HW-57642	The Decontamination of Reactors and Reactor Loops. A Literature Review.	B. Griggs	11-11-58
MISC-1959-32	Civilian Nuclear Power.	Ad Hoc Advisory Committee on Reactor Policies and Programs, AEC	1-2-59
NAA-SR-3450	AEC Unclassified Programs. Bi-Monthly Technical Progress Report [for] November - December, 1958.		2-1-59
ANP-6787	Progress Report No. 46 for April and May, 1958.	W. F. Posey, ed.	6-16-58
ANP-6812	The Economics of Electricity Generation in Queensland and the Potential Employment of Nuclear Reactors.	R. D. Waldie Queensland, Australia. State Electricity Commission	1957
ANURG-M/37	Application of Experimental Data to Channel Cooling Design.	O. Pulley Gt. Brit. AERE, Harwell, Berks, England	7-21-52
ANURG-M/58	Suggestions for a Programme of Practical Work on Re-Entrant Cooling.	J. H. Bowen Same	4-24-53
ANYO-8504	Digital Pressure Indicator System.	Ford Instrument Co., Long Island City, N. Y.	1-17-58
ANYO-8897	APPR-1 Simulator. Computer Description.	RCA Service Co., Inc., Camden, N. J.	12-15-58
ORNL-2057(Del.)	Homogeneous Reactor Project Quarterly Progress Report for Period Ending January 31, 1956.	H. F. McDuffie, V. K. Hill, comps.	4-17-56
ROB(W)TN-182	Surveying Graphite Displacements in the Windscale Piles.	D. Powell U.K.A.E.A. Industrial Group, Culcheth Labs., Culcheth, Lancs, England	1958

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TID-3525	Reactor Safety. A Literature Search.		2-59
TID-7563	Proceedings of the 1958 Nuclear Merchant Ship Symposium [Held at] Washington, D. C., August 21, 1958.		1-14-58
TID-7564	Information Meeting on Gas-Cooled Power Reactors [Held at] Oak Ridge National Laboratory October 21 - 22, 1958.		12-58
YAEC-93	Corrosion Products Transport and Deposition Under Ionizing Radiation.	C. C. Thomas, Jr., H. W. LaLock Westinghouse Electric Corp. Atomic Power Dept., Pittsburgh	12-58
YAEC-112	Monthly Progress Report for the Period December 1 to 31, 1958.	R. W. Garbe, H. E. Walchli Same	1-20-59

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ANL-5969	Additions to the Library. Report for the Period January 16-31, 1959. Technical Reports and Books.	P. A. Schulze	
ASTIA-U59-3	Technical Abstract Bulletin. Bulletin No. U59-3.		2-1-59
CIA-U11	Consolidated Translation Survey for November, 1958. No. 11.	Central Intelligence Agency, Washington, D. C.	12-19-58
CIA-U12	Consolidated Translation Survey for December, 1958. No. 12.	Same	1-12-59
MISC-1959-33	Annual Financial Report [for the Fiscal Year] 1958.	AEC., (Wash., D. C.)	10-24-58
MISC-1959-34	Brookhaven National Laboratory, Upton, Long Island, New York.	Brookhaven Nat'l Lab., (Upton, N. Y.)	[1958]
WP-6829	Symposium on the Peaceful Uses of Atomic Energy in Australia, 1958, Held in Sydney in June, 1958.	Australia. Atomic Energy Commission	

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WP-6839	Report on the Activities of the Danish Atomic Energy Commission up to March 31, 1957.	Denmark. Atomenergi-kommissionen, Roskilde	1-58
ORNL-2691	Oak Ridge National Laboratory Status and Progress Report [for] January, 1959.		2-6-59
SCR-62	Civilian Application Releases Through 1958. (Bibliography)	Sandia Corp., Albuquerque, N. Mex.	1-59
SCTM-162-58(14)	Manually Operated Oscilloscope Camera Positioning Mechanism.	P. L. Kerley, C. J. Smith Sandia Corp., Albuquerque, N. Mex.	5-7-58
TID-4022(5th Rev.)	Consolidated Availability Listing of Confidential Reports Announced to the Civilian Application Program.		1-1-59
TID-4023(5th Rev.)	Consolidated Availability Listing of Secret Reports Announced to the Civilian Application Program.		1-1-59

LIST OF ABSTRACTS SUBMITTED BY THE INFORMATION DIVISION
FOR THE WASHINGTON, D. C. MEETING OF
THE AMERICAN PHYSICAL SOCIETY
April 30 - May 2, 1959

UCRL-8672

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UCRL-8646 Abstract	Neutron-Proton Total Cross-Section Measurement at 4.5 Bev.	V. Perez-Mendez, J. H. Atkinson, W. N. Hess, R. W. Wallace	2-59
UCRL-8647 Abstract	Dispersion Relation for S-Wave Nucleon-Nucleon Scattering.	D. Y. Wong, N. P. Noyes	2-59
UCRL-8648 Abstract	A Procedure for Calculating the Matrix Element of the Process $\langle NN/2\pi \rangle$.	J. R. Fulco	2-59
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UCRL-8651 Abstract	Photopion Production from Deuterium and the π^-/π^+ Ratio.	J. D. Anderson, D. C. Gates, T. L. Jenkins, R. W. Kenney, W. P. Swanson	2-59
UCRL-8652 Abstract	Σ^- Hyperon Absorption in Deuterium.	N. Horwitz, D. Miller, J. Murray	2-59
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UCRL-8660 Abstract	Polarization of the Recoil Proton in π^+-p Scattering at 312 Mev: Results.	J. H. Foote, E. H. Rogers, H. M. Steiner, C. Wiegand, T. Ypsilantis, O. Chamberlain	2-59
UCRL-8661 Abstract	Scattering of 312-Mev Positive Pions by Hydrogen.	E. H. Rogers, H. M. Steiner, C. Wiegand, T. Ypsilantis, O. Chamberlain, W. B. Johnson	2-59
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UCRL-8669 Abstract	Nuclear Spin of Praseodymium-142.	R. Marrus, A. Y. Cabezas, E. Lipworth, J. Winocur	2-59

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UCRL-3617 Rev.	Radiofrequency-Contact Spring.	L. R. Lucas	1-59
UCRL-8145 Rev.	Copper Welding for Maximum RF Conductivity.	E. F. McLaughlin	1-59
UCRL-8345 Rev.	The Present Status of the Bevatron Power Supply.	J. G. Harding, H. W. Vogel, T. W. Sibary	11-1-58
UCRL-8383	A Chronotron for Relativistic Neutron Time-of-Flight Measurements.	R. H. Ragsdale, W. F. Stubbins	12-11-58
UCRL-8570	Gas Cherenkov Counters.	V. Perez-Mendez, J. H. Atkinson	12-23-58
UCRL-8575	Bio-Organic Chemistry Quarterly Report, September, October, November, 1958.		12-15-58
UCRL-8591	Low-Energy Antiproton Interactions in Hydrogen and Deuterium.	N. Horwitz, D. Miller, J. Murray, R. Tripp	1-7-59
UCRL-8605	An Atomic-Beam Magnet-Stabilization System.	G. O. Brink, N. Braslau	1-16-59
UCRL-8613	The Absorption Spectrum of UF_4 and the Energy Levels of Uranium V.	J. G. Conway	2-3-59
UCRL-8614	Phenomenological Analysis of Hyperon Decay.	S. A. Bludman	1-22-59
UCRL-8620	The Rate of Oxidation of I^- to Hypiodite Ion by Hypochlorite Ion.	Y. Chia, R. E. Connick	1-59
UCRL-8631 Rev.	Evidence for the $\Delta I = \frac{1}{2}$ Rule.	F. S. Crawford, Jr., M. Cresti, R. L. Douglass, M. L. Good, G. R. Kalbfleisch, M. L. Stevenson, H. K. Ticho	2-59

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465

Thermodynamic Properties of Alkaline Earth Metals
(Mg, Ca, Sr, and Ba) and of their Oxides and Monohydrides
in the Gaseous State, by I. V. Veitz, L. V. Gurevich and
N. P. Rtishcheva. Trans. from Zhurnal Fizicheskoi
Khimii 32, 2532-42 (1958).

UCRL Translation
466

A Study of Intermediate Products of Photosynthesis with
the Help of Radioactive Isotopes, by N. G. Doman. Trans.
from Vsesoiuznoi Nauchno-Tekhnicheskoi Konferentsii po
Primeneniiu Radioaktivnykh Izotopov i Izlucheni v
Narodnom Khoziaistve i Nauke, Moscow, 1957. Trudy, 1958,
p. 65-71.

UCRL Translation
467

Junction-Type Germanium Photodiodes, by Zh. I. Alferov,
B. M. Konovalenko, S. M. Ryvkin, V. M. Tuchkevich, and
A. I. Uvarov. Trans. from Zhurnal Tekhnicheskoi Khimii
25, 11-17 (1955).

UCRL Translation
468

The 800 KV Cascade Generator of the Department of Atomic
Physics of the Central Physical Research Institute, by
Imre Meray. Trans. from Magyar Fizikai Folyoirat 3,
489-96 (1955).

INFORMAL REPORTS RECEIVED IN THE INFORMATION DIVISION

UCRL-8672

Magnet Testing

4310-04 MT2	Magnetic Measurements "Juno" 12" Bore Quadrupole	L. G. Ratner	2-20-59
7910-55 MT4	Bevatron Experimental Facilities 16000 Gauss- 13x24 "C" Magnet	L. G. Ratner	2-20-59

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4313-03 M10	Hydrogen Bubble Chambers Operation 72" Bubble Chamber Operation Hydrogen Sniffer Alarm Procedure	R. Smits	2-17-59
4313-03 M11	72" Bubble Chamber Start-Up Procedure - Test Photographs	H. Bradner	2-18-59
4313-03 M12	72" Hydrogen Bubble Chamber Procedure 1 PSI and 25 PSI Alarm	J. Mark	2-17-59
7302-02 M99	Bevatron - Magnet Core - Behavior of Quadrant End Sectors Under Tangential Magnetic Loads	A. O. DuBois	3-16-52
7302-02 M100	Bevatron - Magnet Core - External Proton Beam - Stress if West Reentrant Faceplate Carries Horizontal Stanchion Load	W. W. Salsig, Jr.	2-11-59
7302-04 M35	Bevatron - Magnet Power Supply - Head Design for East Gen. Special Coil Brace Assembly Bolt.	W. W. Salsig, Jr.	1-23-59
7302-04 M36	Bevatron - Magnet Power Supply - Material Choice for Rebabbiting #2 West Generator Bearing - June, 1958.	W. W. Salsig, Jr.	1-22-59
7302-04 M37	Bevatron - Magnet Power Supply - Tensile Test of Mk II (Drawing 8M6222) Coil Brace Bolt - East Generator	J. Gunn	5-7-58

7304-08 M9	Bevatron - Injector - Ion Gun - Strength of Proposed Insulating Strut for Ion Source Carrier	W. W. Salsig, Jr.	12-18-59
7311-29 M20	Bevatron - Shielding - South Outer Radius Roof and Downstream Backstop. Drawing 8N7796	O. W. Callahan	11-17-58
7330-01 M6	88" Cyclotron - Account Numbers	W. Dexter, E. Kelly, R. Burleigh	3-3-59
7911-01 M50	72" Hydrogen Bubble Chamber Worthington Compressor Packing	H. P. Hernandez	2-11-59
7911-01 M51	72" Bubble Chamber Work List for First Hydrogen Run- (Second Run)	H. P. Hernandez	2-12-59
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4601-35 EE-603	Modification of the HP 460A Amplifier, to Improve Overload Performance, and to Reduce Interference Susceptibility	W. W. Goldsworthy	2-25-59