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LIST OF REPORTS RECEIVED IN THE UCRL INFORMATION
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August 1, 1952

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<u>Reports Received from Atomic Energy Commission, Washington:</u>				
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Misc 1952-89	SERVICES LIST OF PREFERRED VALVES ISSUED BY THE INTER-SERVICE TECHNICAL VALVE COMMITTEE. EFFECTIVE FROM 10/1/51		U	6/5/52
Misc 1952- 102	INDEX TO THE ELEVENTH SEMIANNUAL REPORT TO CONGRESS SOME APPLICATIONS OF ATOMIC ENERGY IN PLANT SCIENCE JULY 1951 - DECEMBER 1951		U	5/52
<u>Reports Received from American Cyanamid Company:</u>				
ACCO-19	EXPERIMENTAL WORK FOR THE DEVELOP- MENT OF A PROCESS TO TREAT LUKACHUKAI ORES	G.W. Clevenger	S	6/9/52
<u>Reports Received from Argonne National Laboratory:</u>				
ANL-4709	THE ARGONNE FLUORIDE VOLATILITY PROCESS STATUS AS OF DECEMBER 31, 1951	O. DuTemple et al.	S	2/10/52
ANL-4717	SUMMARY REPORT APRIL, MAY AND JUNE 1951. CHEMISTRY DIVISION SECTION C-11	O. Simpson J.R. Gilbreath	S	4/30/52
ANL-4789	ISOLATION OF GRAM QUANTITIES OF IONIUM FROM MALLINCKRODT RAFFINATE	D.F. Peppard et al.	S	4/52
ANL-4790	HEAT GENERATION IN IRRADIATED URANIUM	J.T. Weills S. Untermyer	S	2/25/52
ANL-4805	NEUTRON PRODUCER (CP-6) REACTOR PROGRAM SUPPLEMENT TO THE QUARTERLY REPORT JANUARY THROUGH MARCH 1952		S	5/26/52
ANL-4810	DESIGN AND DATA REPORT. THE MARK I SUBMARINE THERMAL REACTOR	E. Fricke	S	4/10/52
ANL-4849	MONTHLY PROGRESS REPORT FOR JULY 1952		OUO	

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ANL-4851	ADDITIONS TO THE LIBRARY. REPORT FOR THE PERIOD JUNE 15-30 1952. AECU AND AECU DOCUMENTS AND BOOKS	P.A. Schulze	U	
<u>Reports Received from Battelle Memorial Institute:</u>				
BMI-752	ALLOYS OF URANIUM WITH ZIRCONIUM, CHROMIUM, COLUMBIUM, VANADIUM, AND MOLYBDENUM	H.A. Saller F.A. Rough	S	6/19/52
BMI-753	NOTCHED BAR IMPACT TESTING OF URANIUM	H.A. Saller S.J. Peprocki	S	6/26/52
BMI-754	EXPERIMENTAL FABRICATION OF A LIGHT WEIGHT CONTROL ROD	H.A. Saller et al.	S	7/1/52
BMI-755	PROGRESS ON GE-ANP PROJECT FOR JUNE 1952	C.G. Harman H.A. Saller	S	7/1/52
BMI-756	PROGRESS REPORT FOR JUNE 1952	H.W. Russell et al.	S	7/1/52
BMI-757	ELECTROPLATING ON ZIRCONIUM AND ZIRCONIUM-TIN	W. Schickner et al.	C	7/1/52
<u>Reports Received from Brookhaven National Laboratory:</u>				
BNL-170	A COMPILATION OF THE AEC NEUTRON CROSS SECTION ADVISORY GROUP	D.J. Hughes	S	5/15/52
BNL-177 (S-13)	QUARTERLY PROGRESS REPORT JANUARY 1 - MARCH 31, 1952		U	
BNL-188	REACTOR OPERATIONS DIVISION MONTHLY REPORT	R.W. Powell	S	6/52
<u>Reports Received from California Research and Development:</u>				
LWS-24406	MTA QUARTERLY PROGRESS REPORT MARCH 1 - MAY 31, 1952		S	7/14/52
LWS-24424	MTA TARGET TECHNICAL COMMITTEE MINUTES OF JUNE 9, 1952 MEETING	D. Kallman	S	
LWS-24442	EXTRAPOLATION OF NEUTRON YIELDS WITH INCREASING PARTICLE ENERGY CRD-T4A-126	D.H. Imhoff C.C. Old	S	7/11/52
LWS-24448	C-FRAME LATTICE SCHEDULING AND COOLING CRD-T1-121	C.C. Stone R.C. Gerber	S	6/23/52

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LWS-24457	PRELIMINARY DESIGN SPECIFICATION TARGETS HEAT GENERATION (SHUTDOWN)	R.C. Gerber	S	6/23/52
<u>Reports Received from Carbide and Carbon Chemicals Company:</u>				
K-519	PILOT PLANT STUDIES OF THE RECOVERY AND DECONTAMINATION OF HANFORD IRRADIATED URANIUM BY THE CHLORINE TRIFLUORIDE (CTF) PROCESS	R.A. Gustison	S	6/18/52
K-911	THE PREPARATION AND INFRA-RED TRANSMISSION OF THIN FILMS OF SOME INORGANIC SULFIDES	A.E. Cameron	U	7/9/52
Y-876	DEVELOPMENT OF HIGH DENSITY URANIUM DIOXIDE POWDERS	H. Kite D.W. Smith	S	5/28/52
<u>Reports Received from Dow Chemical Company:</u>				
DOW-80	JUNE PROGRESS REPORT	R.H. Bailes	S	7/7/52
DOW-81	SUMMARY STATUS REPORT. THE RECOVERY OF URANIUM FROM INDUSTRIAL PHOSPHORIC ACIDS BY SOLVENT EXTRACTION	D.A. Ellis	S	7/14/52
<u>Reports Received from General Electric Company:</u>				
HW-20055	EFFECT OF HANFORD PILE EFFLUENT UPON AQUATIC INVERTEBRATES IN THE COLUMBIA RIVER	J.J. Davis C. Cooper	S	1/19/51
HW-24082	EVALUATION OF THE CHAIN-DRIVEN 1/4 INCH MINIATURE MIXER SETTLER - RECUPLEX EQUILIBRIUM DATA	L.P. Varga	S	2/19/52
HW-24548	PRELIMINARY STUDIES OF PLUTONIUM ADSORPTION IN HANFORD SOIL	D.W. Rhodes	S	5/29/52
HW-24700	THE DETERMINATION OF URANO-URANIC OXIDE IN URANIC OXIDE	H.H. VanTuyl	U	6/13/52
HW-24717	GUIDE TO APPLICATION OF THE X-RAY PHOTOMETER IN CHEMICAL ANALYSIS	M.C. Lambert	U	6/20/52
HW-24760	STATUS OF HANFORD REQUEST AS OF JUNE 30, 1952		S	

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HW-24836	TECHNICAL ACTIVITIES REPORT JUNE, 1952. GRAPHITE DEVELOP- MENT - PILE GRAPHITE	J.F. Music H. Zuhr	S	7/10/52
KAPL-743	VARIATION OF FAST FISSION EFFECT WITH HOMOGENITY IN INFINITE SLAB REACTOR	F.H. Clark	S	5/19/52
KAPL-756	DETERMINATION OF ACID IN DISSOLVED MnO ₂ CAKE SOLUTIONS	W.W. Sabol L.P. Pepkowitz	S	7/1/52
KAPL-758	SUMMARY TECHNICAL PROGRESS REPORT NO. 59 FOR JUNE 1952	K. Kingdon	S	6/52
KAPL-P-692	LIQUID METALS ARE GOOD HEAT-TRANS- FER AGENTS	T. Trocki	U	5/52
KAPL-P-697	DISCUSSION OF PAPER, STRESSES IN PIPE BUNDLES	G. Horvay H. Poritsky	U	
Misc 1952-3 (6/52)	STATUS OF MATERIALS TESTING IRRADIATIONS - JUNE 1, 1952		S	
SO-2021	THE SELF-DIFFUSION OF LIQUID MERCURY (RL-693)	R.E. Hoffman	U	6/52
<u>Reports Received from Library of Congress:</u>				
C7420-C7499 C7500-C7579	TECHNICAL INFORMATION PILOT JUNE 24, 1952		C	
Misc 1952-15 (7-52)	MONTHLY RESEARCH REPORT FOR JULY 1952		C	
Misc 1952-16	EUROPEAN SCIENTIFIC NOTES Volume 6, Nos 11 and 12		U	7/7/52
R6052-R6119 R6120-R6189	TECHNICAL INFORMATION PILOT JUNE 1952		R	6/17/52
U20600-U20699 U20700-U20799	TECHNICAL INFORMATION PILOT		U	5/15/52
U20800-U20899 U20900-U20999	TECHNICAL INFORMATION PILOT		U	5/27/52
U21000-U21099 U21100-U21199	TECHNICAL INFORMATION PILOT		U	6/12/52

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<u>Reports Received from Los Alamos Scientific Laboratory:</u>				
LA-1413	COLLISION KINETICS IN A SHOCK WAVE	T.P. Cotter	OUO	7/23/52
LAMS-1396	"WATER BOILER" SOLUTION HANDLING SYSTEM	J.E. Evans	U	7/25/52
<u>Reports Received from Massachusetts Institute of Technology:</u>				
Misc 1952-88	REPORT ELEVENTH ANNUAL CONFERENCE ON PHYSICAL ELECTRONICS MARCH 29,30 AND 31, 1951		U	
MIT-ELEC-TECH-REP- No. 218	THERMIONIC EMISSION FROM OXIDE-COATED TUNGSTEN FILAMENTS	C.P. Hadley	U	12/11/51
MIT-ELEC-TECH-REP- No. 221	PROBE STUDIES OF ENERGY DISTRIBUTIONS AND RADIAL POTENTIAL VARIATIONS IN A LOW PRESSURE MERCURY ARC	R.M. Howe	U	1/18/52
MIT-ELEC-TECH-REP- No. 226	CODING WITH LINEAR SYSTEMS.	J.P. Costas	U	2/20/52
MIT-NSE-PR(5/31/52)	PROGRESS REPORT FOR MAY 31, 1952		U	
MIT-NSE-TECH-REP- No. 59	THE HARD COMPONENT OF COSMIC RAYS IN THE UPPER ATMOSPHERE	M.A. Clark	U	6/1/52
MIT-TECH-REP No. 4	THE CONSTITUTION OF TITANIUM-TANALUM-CARBON ALLOYS	J.G. McMullin	U	6/10/52
<u>Reports Received from Mound Laboratory:</u>				
MLM-674	BISMUTH CASTING AND CANNING	P. Engle	C	6/16/52
MLM-710	URANIUM SALTS RESEARCH QUARTERLY PROGRESS THROUGH JUNE 17, 1952	E. Orban	C	6/30/52
MLM-711	POLONIUM-208 RESEARCH QUARTERLY PROGRESS THROUGH JUNE 17, 1952	J.H. Payne, Jr.	S	6/30/52
MLM-713	INSTRUMENTATION AND TECHNIQUES QUARTERLY PROGRESS REPORT THROUGH JUNE 30, 1952		U	6/30/52

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MLM-714	BIOLOGICAL RESEARCH QUARTERLY PROGRESS THROUGH JUNE 17, 1952		S	6/17/52
MLM-715	REACTOR WASTE DISPOSAL QUARTERLY PROGRESS THROUGH JUNE 17, 1952	M. McEwen	C	6/30/52
<u>Reports Received from National Advisory Committee for Aeronautics:</u>				
NACA-ABSTRACTS No. 25	RESEARCH ABSTRACTS NO. 25		U	7/1/52
<u>Reports Received from Naval Medical Research Institute, Bethesda, Maryland:</u>				
Misc 1951-123	LECTURE AND REVIEW SERIES 51-1. CREATIVENESS AND ECONOMY IN TECHNICAL RESEARCH AND DEVELOPMENT	G. Madelung	U	10/23/50
	LECTURE AND REVIEW SERIES 51-10. THE SYNDROME OF ACUTE RADIATION INJURY DUE TO EXPOSURE OF THE WHOLE BODY TO THE INITIAL NUCLEAR RADIATION OF AN ATOMIC BOMB	C.L. Dunham et al.	U	8/7/51
	LECTURE AND REVIEW SERIES 51-11. RADIOLOGY AND RADIOACTIVITY EFFECTS OF WHOLE BODY IRRADIATION	E.P. Cronkite G. Brecher	U	11/15/51
	LECTURE AND REVIEW SERIES 52-1. MECHANICAL VIBRATION AND ITS EFFECTS ON MAN	D.E. Goldman	U	2/6/52
	LECTURE AND REVIEW SERIES 52-2. THE USE OF PRESERVED TISSUES IN SURGERY	T.C. Turner et al.	U	4/17/52
Misc 1951-169	SUMMARIES OF RESEARCH JULY 1 - DECEMBER 31, 1951		U	
NM 000 018.05.02	STUDIES ON THE SHWARTZMAN PHENOMENON. II THE SUPPRESSIVE ACTION OF NITROGEN MUSTARD (HN ₂)	H.A. Schlang	U	3/14/52

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NM 000 018.06.11	STATISTICAL THERMODYNAMICS OF THE TRANSITION REGION BETWEEN TWO PHASES. II ONE COMPONENT SYSTEM WITH A PLANE INTERFACE	T.L. Hill	U	4/4/52
NM 000 018.06.14	RATES OF HYDROLYSIS OF FRUCTOSE-6-PHOSPHORIC ACID	S.L. Friess	U	5/5/52
NM 000 018.06.15	THERMODYNAMIC FUNCTIONS OF ADSORBED MOLECULES FROM HEATS OF IMMERSION	G. Jura T.L. Hill	U	5/28/52
NM 000 018.07.16	MODIFICATION OF THE BECKMAN SPECTROPHOTOMETER WITH AN EXTERNAL "C" BATTERY SUPPLY AND A VOLTAGE-CHECKING ARRANGEMENT. MEMORANDUM REPORT 52-4	L. Cecchine M. Eicher	U	4/3/52
NM 004 005.03.05	INJURY TO LIVING CELLS IN STANDING SOUND WAVES	D.E. Goldman	U	12/10/51
NM 005 048.04.14	NAVAL MEDICAL DEPARTMENT REFERENCE COLLECTION OF ENTEROBACTERIACEAE	M. Babcock et al.	U	12/12/51
NM 005 048.19.01	A MODIFIED SYNTHETIC MEDIUM FOR THE GENUS SHIGELLA	R. Ruhl et al.	U	1/30/52
NM 006 012.04.45	A COLORIMETRIC METHOD FOR THE DETERMINATION OF GERMANIUM IN BIOLOGICAL MATERIALS	G. Rosenfeld	U	4/16/52
NM 006 012.04.46	STUDIES OF THE METABOLISM OF GERMANIUM	G. Rosenfeld E. Wallace	U	4/16/52
NM 006 012.05.06	PLASMA ANTIHEMOPHILIC ACTIVITY FOLLOWING TOTAL BODY IRRADIATION	G.D. Penick et al.	U	2/9/52
NM 006 012.05.07	WHOLE BODY X-IRRADIATION OF OBESE MICE	W. Smith et al.	U	4/29/52
NM 007 081.07.07	A ONE-INCH LUCITE CRANIAL WINDOW AND VITALLIUM HOLDER FOR INSTALLATION IN MONKEYS	E.F. Osserman D. Minard	U	6/3/52

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<u>Reports Received from North American Aviation, Inc:</u>				
NAA-SR-132	A VAPOR PRESSURE CHART FOR METALS	R.F. Loftness	U	7/10/52
NAA-SR-179	LOW ENRICHMENT THERMAL URANIUM REACTORS FOR THE PRODUCTION OF PLUTONIUM AND USEFUL POWER	E.F. Weisner	S	7/7/52
NAA-SR-MTA-29	THE EFFECTS OF CYCLOTRON IR-RADIATION ON STRESS-STRAIN RELATIONSHIPS IN THORIUM, ZIRCONIUM AND STAINLESS STEEL	F.E. Bowman	S	7/14/52
NAA-SR-MTA-30	METALLOGRAPHIC AND ANNEALING STUDIES OF IRRADIATED THORIUM, ZIRCONIUM, AND STAINLESS STEEL	F.E. Bowman	S	7/16/52
<u>Reports Received from Oak Ridge National Laboratory:</u>				
ORNL-1142	MULTIPLE-CRYSTAL GAMMA-RAY SPECTROMETER	F.C. Maieschein	U	4/14/52
ORNL-1169	ENRICHMENT OF URANIUM 236	B. Harmatz et al.	S	12/51
ORNL-1265	PRELIMINARY INVESTIGATION OF MONOCHROMATIC X-RAY ABSORPTION AS A METHOD OF ANALYSIS FOR URANIUM	W.F. Peed H.W. Dunn	C	4/8/52
ORNL-1280	HOMOGENEOUS REACTOR PROJECT QUARTERLY PROGRESS REPORT FOR PERIOD ENDING MARCH 15, 1952	J. Swartout	S	7/14/52
ORNL-1288	THE SYNTHESSES OF 2-TRIFLUOROACETO (ACETYL-1-C ¹⁴) THIOHENE AND 2-(HEPADECYL-1-C ¹⁴) - IMADAZOLINE	V. Raaen et al.	U	7/14/52
ORNL-1290	MATHEMATICS PANEL QUARTERLY PROGRESS REPORT FOR PERIOD ENDING APRIL 30, 1952	A.S. Householder C.L. Perry	S	7/24/52
ORNL-1291	GENERAL INFORMATION CONCERNING HYDROXIDES	M. Lee	U	4/21/52
ORNL-1295	OPERATIONS DIVISION MONTHLY REPORT FOR MONTH ENDING APRIL 30, 1952	M.E. Ramsey	S	7/3/52

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ORNL-1298	QUARTERLY PROGRESS REPORT STABLE ISOTOPE RESEARCH AND PRODUCTION DIVISION. JANUARY 1, 1952 TO MARCH 31, 1952	J. Walton	S	4/1/52
ORNL-1309	THE CYCLORATOR: A DEVICE FOR THE SEPARATION OF ISOTOPEs BY TIME OF FLIGHT IN A MAGNETIC FIELD	R.S. Livingston, et al	S	9/51
ORNL-1314	A NEW ANIONIC SOLVENT EXTRACTION TECHNIQUE	M.T. Kelley	S	7/17/52
ORNL-1321	BIBLIOGRAPHY OF HAFNIUM OXIDE, HAFNIUM SILICATE, AND HAFNIUM CARBIDE	C.E. Curtis	U	7/17/52
ORNL-1324	THE INTERNAL CONVERSION CORRELATION FOR MIXED CONVERSION TRANSITIONS	M.E. Rose L.C. Biedenharn	U	7/25/52
ORNL-1326	OAK RIDGE NATIONAL LABORATORY STATUS AND PROGRESS REPORT FOR JUNE 1952	J.P. Lane	S	7/9/52

Reports Received from Technical Information Service, Oak Ridge:

C-74	THE ABSORPTION CROSS SECTION OF BORON FOR THERMAL NEUTRONS (MICROFILM)	* E. Fermi L. Anderson	S	
CF-52-2-212	A SURVEY OF HYDRIDES FOR USE IN THE A.N.P. PROGRAM	M.D. Banus	S	2/1/52
CP-121	MODERATION OF FISSION NEUTRONS IN PARAFFIN (MICROFILM)	A.C.G. Mitchell	S	6/12/42
CRC-494	THE DECOMPOSITION OF HEAVY WATER UNDER REACTOR IRRADIATION (THE "COLD LOOP" EXPERIMENT) (Chalk River)	H.G. Heal et al.	S	2/8/52
CRCE-501	THE SOLUBILITY ISOTHERM OF HYDROGEN IN WATER AT 217° C AND PARTIAL PRESSURES OF HYDROGEN FROM 0 to 1370 P.S.I.A.	T.W. Barry	S	2/29/52
D.R. 23	ATOMIC ENERGY OBJECTIVES FOR APPLIED NUCLEAR PHYSICS RESEARCH	W.B. Lewis	S	5/2/52

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M-4764	REFERENCE NUMBER 27, PAGE 217 OF ANALYTICAL CHEMISTRY OF THE MANHATTAN PROJECT, RODDEN, NNES VIII-I, (Linde Air Products)	W.N. Moore	S	3/24/43
Misc 1952-2 (No. 32)	FOREIGN DOCUMENTS DIVISION CONSOLIDATED TRANSLATION SURVEY NO. 32. MAY 1952. (Central Intelligence Agency)		S	6/27/52
Misc 1952-63 (Vol. 2, No. 3)	ISOTOPICS. ANNOUNCEMENTS OF THE ISOTOPES DIVISION FOR JULY 1952 (U.S. AEC, Oak Ridge)		U	
Misc 1952-93	BIBLIOGRAPHIES PREVIOUSLY LISTED WHICH ARE NOW COMPLETED. ALSO; BIBLIOGRAPHIES NOW IN PROGRESS		R	
MIT-1089	MINUTES OF ZIRCONIUM ANALYTICAL CONFERENCE HELD AT MASSACHUSETTS INSTITUTE OF TECHNOLOGY, MARCH 3, 1952. (Mass. Inst. of Technology)	E.B. Read	R	4/30/52
NNES III-3	CHEMICAL SEPARATION OF THE URANIUM ISOTOPES (TIS, Oak Ridge)	C.A. Hutchinson, Jr.	S	1952
NP-3502	PARTICLE DYNAMICS IN THE LINEAR ACCELERATOR. TECHNICAL REPORT 204. (Mass. Inst. of Technology)	J.R. Terrall J.C. Slater	U	5/31/51
NP-3671	ELASTIC SCATTERING OF NEUTRONS BY ATOMIC NUCLEI (TIS, Oak Ridge)	T.A. Goloborod'ko	U	6/52
NP-3738	ELECTRICAL POTENTIAL TEST; INVESTIGATION OF THERMO-ELECTRIC PROPERTIES OF KNa ALLOY VERSUS VARIOUS OTHER METALS (Babcock & Wilcox Co.)	W. Markert E.C. Piottter	C	6/9/47
NP-3875	LABORATORY DESIGN FOR HANDLING RADIOACTIVE MATERIALS (National Research Council and National Academy of Sciences)		U	5/52

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NP-3881	USAF RADIATION LABORATORY QUARTERLY PROGRESS REPORT NO. 3 (University of Chicago)		U	4/15/52
NP-3923	BASIC RESEARCH (BR) RESEARCH AND DEVELOPMENT ANNUAL TECH- NICAL PROGRESS REPORT. VOL. 14. (Office of Naval Research)		C	1952
NYO-674	STUDIES OF NUCLEAR GAMMA RAYS; ANNUAL REPORT (John Hopkins University)	L. Madansky F. Rasetti	U	9/1/51
NYO-920	THERMODYNAMICS OF METAL SOLUTIONS. TECHNICAL PROGRESS REPORT, SCOPE I (Mass. Inst. of Technology)	M.B. Bever et al.	U	5/31/52
NYO-935	THE STUDY OF DIFFUSIONLESS PHASE CHANGES IN SOLID METALS AND ALLOYS; PROGRESS REPORT FOR DECEMBER 1 TO FEBRUARY 29, 1952. (Columbia University)	T.A. Read et al.	U	
NYO-3011	FIRST PROGRESS REPORT ON THE MECHANISM OF METALLOGRAPHIC ETCHING	G.L. Kehl M. Metlay	U	6/15/51
ORO-70	EFFECT OF WETTING ON HEAT TRANSFER CHARACTERISTICS OF LIQUID METALS. FOURTH QUAR- TERLY REPORT (University of Tennessee)	R.M. Boarts W.K. Stromquist	U	4/30/52
PRBRHC-13	PROGRESS REPORT NOVEMBER 1951 TO FEBRUARY 1952 (Chalk River)	W.B. Lewis	S	
SEP-88	A STUDY OF PREFERRED ORIENTATION TECHNIQUES (Sylvania Electric Products)	W. Chernock L.W. Kates	S	4/21/52
TID-1013	ABSTRACTS OF CLASSIFIED REPORTS. VOL. 8, NO. 12A. Abstracts 1224- 1340 (TIS, Oak Ridge)		S	6/30/52
TID-1015	ABSTRACTS OF CLASSIFIED REPORTS. VOL. 8, NO. 13. Abstracts 1341- 1396.		S	7/15/52

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TID-3009	ZIRCONIUM; A BIBLIOGRAPHY OF CLASSIFIED LITERATURE	H. Voress F.E. Croxton	S	11/16/51
TID-3025	SURFACE DECONTAMINATION METHODS; A BIBLIOGRAPHY OF REPORT LITERATURE	H. Voress	S	3/25/52
TID-5067 (2nd Ed.)	INDEX OF SUBJECT HEADINGS AND CODE NUMBERS RELATING TO PROGRAMS OF THE ATOMIC ENERGY COMMISSION		S	
TID-5082	CONSOLIDATED TRANSLATION SURVEY. AUTHOR INDEX TO SCIENTIFIC SECTION OF SURVEYS 25 THRU 27		S	6/1/52
TID-5083	REPORT OF VISIT TO CERTAIN LABORATORIES IN SWEDEN, DENMARK AND ENGLAND, JUNE - JULY 1951. (Iowa State College)	L.J. Laslett	OUO	
TID-5084	PROCEEDINGS OF THE SPRING METALLURGY CONFERENCE MARCH 24-16, 1952. SPONSORED BY AMES LABORATORY, HELD AT AMES IOWA. VOL. II		S	
WT-6	OPERATION GREENHOUSE SCIENTIFIC DIRECTOR'S REPORT ANNEX 2.2 CONTROL STUDIES PERFORMED IN THE UNITED STATES AND AT ENIWETOK. PARTS VII, VIII AND IX. NUCLEAR EXPLOSIONS 1951 (Operation Greenhouse)		S	
WT-10	OPERATION GREENHOUSE SCIENTIFIC DIRECTOR'S REPORT ANNEX 3.4. PART II - INSTRUMENTATION OF STRUCTURES PROGRAM NUCLEAR EXPLOSIONS 1951		S	
WT-12	OPERATION GREENHOUSE SCIENTIFIC DIRECTOR'S REPORT ANNEX 6.9. PROTECTIVE CLOTHING AND CLOTHING AND PERSONNEL DECONTAMINATION. NUCLEAR EXPLOSIONS 1951		C	

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WT-13	OPERATION GREENHOUSE SCIENTIFIC DIRECTOR'S REPORT ANNEX 2.10. MISCELLANEOUS STUDIES OF DOSIMETERS NUCLEAR EXPLOSIONS 1951		S	
WT-15	OPERATION GREENHOUSE SCIENTIFIC DIRECTOR'S REPORT ANNEX 2.3 EXPOSURE CONTAINERS FOR THE BIO-MEDICAL PROGRAM. NUCLEAR EXPLOSIONS 1951		S	
<u>Reports Received from United Kingdom Scientific Mission, Washington, D.C.</u>				
AERE C/R 861	THIN FILMS - A SYMPOSIUM SPONSORED BY THE CHEMISTRY DIVISION AERE, HARWELL, HELD AT BUCKLAND HOUSE, 14th - 15th MARCH 1951	F. Hudswell C. Mandleberg	U	2/15/52
AERE C/R 876	THE MAGNETIC SUSCEPTIBILITY OF SODIUM PLUTONYL ACETATE	J.K. Dawson	U	2/22/52
AERE C/R 891	THE EQUILIBRIUM CONSTANT FOR THE DYSPROSIUM - T.T.A. - BENZENE SYSTEM	F.W. Cornish	U	3/31/52
AERE C/R 895	THE ANALYSIS OF URANIUM - TANTALUM AND URANIUM NIOBIUM ALLOYS	A.J. Wood G.W.C. Milner	U	4/1/52
AERE C/R 908	MAGNETOCHEMICAL EVIDENCE CONCERNING THE ELECTRONIC STRUCTURE OF THE HEAVIEST ELEMENTS	J.K. Dawson	U	3/18/52
AERE G/M 130	IDENTIFICATION OF (γ , $P\alpha$) REACTIONS IN NUCLEAR EMULSIONS	M.J. Brinkworth, et al.	U	4/4/52
AERE G/R 853	PERTURBATION OF A RESONATOR	L.B. Mullett	U	2/52
AERE I/R 880	A PNEUMATIC CONVEYOR FOR BEPO IRRADIATION CANS	R. West G. Shepherd	U	3/24/52
AERE Med/R-914	THE REDUCTION OF RADIATION DOSE IN CHEST RADIOGRAPHY	H.E. Crooks G.M. Ardran	U	4/25/52
AERE REV/P-24	ATOMIC ENERGY RESEARCH ESTABLISHMENT PROGRESS REVIEW PHYSICS AND ELECTRONICS		OUO	4/52

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AERE R/R 872	THE ATTENUATION OF GAMMA RADIATION AND NEUTRONS IN THE SHIELD OF BEPO	B.T. Price	U	2/28/52
AERE T/R 871	THE ENERGY DEPOSITION BY FAST NEUTRONS IN BONE MARROW	J.H. Tait	U	2/52
AERE T/R 875	STUDIES IN jj-COUPPLING. II FRACTIONAL PARENTAGE COEFFICIENTS AND THE CENTRAL FORCE ENERGY MATRIX FOR EQUIVALENT PARTICLES	B. Flowers A.R. Edmonds	U	2/52

Reports Received from University of California, Institute of Engineering Research:

COO-61	CREEP OF ALLOYS RESEARCH TECHNICAL PROGRESS REPORT TO JULY 1, 1952	E.R. Parker T.H. Hazlett	U	7/3/52
HE-150-91	HEAT TRANSFER FROM RIGHT CIRCULAR CONES TO A RAREFIED GAS IN SUPERSONIC FLOW	R.M. Drake, Jr. G.J. Maslach	U	4/8/52
HE-150-100	DRAG ON A ROTATING CYLINDER AT LOW PRESSURES	Shih-Fei Chiang	U	5/19/52

Reports Received from University of California, at Los Angeles:

UCLA-206	QUARTERLY PROGRESS REPORT FOR PERIOD ENDING JUNE 30, 1952	S.L. Warren	C	7/10/52
UCLA-207	INFLUENCE OF PERIPHERAL CHOLINERGIC BLOCKING DRUGS ON SURVIVAL TIME IN ROENTGEN RAY IRRADIATED MICE	T. Haley B. Rhodes	U	7/13/52
UCLA-209	A NEW EXTERNAL OBJECTIVE APERTURE CENTERING AND INTERCHANGING DEVICE FOR THE RCA EMU ELECTRON MICROSCOPE	F.W. Bishop S.B. Elliott	U	7/25/52
UCLA-210	A DEVICE FOR MONITORING THE STABILITY OF THE POWER SUPPLIES OF THE ELECTRON MICROSCOPE	F.W. Bishop S.B. Elliott	U	7/25/52
UCLA-211	BETA AND GAMMA INDUCED CERENKOV RADIATION IN WATER	M.A. Greenfield	U	7/25/52

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<u>Reports Received from University of Rochester:</u>				
NYO-3211	THE GROUND STATE PARITY OF N_{14}	D.A. Bromley	U	6/12/52
NYO-3215	THE TOTAL CROSS SECTIONS OF POSITIVE PIONS IN HYDROGEN	S.W. Barnes et al.	U	6/24/52
NYO-3216	ON THE f^0 MESON	M.F. Kaplon D.M. Ritson	U	6/24/52
UR-197	THE RELATION OF PARTICLE SIZE OF URANIUM DIOXIDE DUST TO TOXICITY FOLLOWING INHALATION BY ANIMALS II.	H.B. Wilson et al.	U	6/6/52
UR-203	L-HISTIDINE-2- Cl_4 , ITS SYNTHESIS AND SOME ASPECTS OF ITS METABOLISM IN RATS	M. Toporek	U	6/11/52
UR-211	THE OCCURRENCE OF LYMPHOCYTES WITH BILOBED NUCLEI IN CYCLOTRON PERSONNEL	M. Ingram et al.	U	6/16/52
<u>Reports Received from U. S. Naval Radiological Defense Laboratory:</u>				
USNRDL-344	MARK V MODEL I BETA-CONTAMINATION MONITOR	W.F. Joseph et al.	U	2/20/52
USNRDL-351	THE RELATIONSHIP BETWEEN BOLITIONAL ACTIVITY AND AGE IN THE MALE RAT	D.C. Jones et al.	U	4/7/52
USNRDL-352	STUDIES ON THE TREATMENT OF INTERNAL RADIOACTIVE CONTAMINATION	S.H. Cohn et al.	U	6/4/52
<u>Reports Received from Vitro Corporation:</u>				
KLX-1372	DECONTAMINATION OF DILUTE LOW ACTIVITY WASTES. PERIOD 2-30-50 TO 6-30-52.	W.A. Bain	S	7/5/52
<u>Reports Received from Westinghouse Electric Corporation:</u>				
Misc 1952-94	THE BEVATRON POWER PLANT	J.V. Kresser	U	4/52
WAPD-32	PRELIMINARY REPORT ON THE EFFECT OF IRRADIATION ON Zr-U AND Be-U ALLOYS	W.E. Johnson L.S. Castelman	S	5/14/51

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WAPD-44	A HIGH SENSITIVITY FISSION COUNTER	W. Baer R. Bayard	R	6/11/52
WAPD-51	THE TENSILE PROPERTIES OF ZIRCONIUM ALLOYS AT FABRICATION TEMPERATURES AND STRAIN RATES	G. Simcoe D.E. Thomas	C	3/18/52
WAPD-53	THE MECHANISM OF OXIDATION AND CORROSION OF ZIRCONIUM	D.E. Thomas J. Chirigos	C	4/11/52
WAPD-MR-30	MONTHLY TECHNICAL PROGRESS REPORT NAVAL REACTOR PROGRAM		S	6/52
WAPD-RM-92	CORROSION, PHYSICAL, AND MECHANICAL PROPERTIES OF ARC-MELTED CRYSTAL BAR HAFNIUM	L.S. Castleman et al.	R	10/9/51

Reports Received from Miscellaneous Sources:

BM-II 34	ZIRCONIUM PROGRESS REPORT FOR THE PERIOD MAY 15 - JUNE 15, 1952 (Northwest Electrodevelopment Laboratory)		C	
C-64	PAPER ON THE DISCHARGE OF ELECTRONS FROM COLD METALS	F. Rother	U	10/1/45
COO-62	CONTINUOUS SEPARATION OF IONS BY MEANS OF A MOVING ION EXCHANGE BED, REPORT NO. 17, SRI PROJECT NO. CU-337. PROGRESS REPORT FOR JUNE 1952 (Stanford University)	R.C. Phillips	U	7/11/52
IDO-10020	THE CLIMATOLOGY OF STACK GAS DIFFUSION AT THE NATIONAL REACTOR TESTING STATION (Idaho Operations Office, AEC)	P.A. Humphery E.W. Wilkins	R	3/52
ISC-237	MECHANICAL CHARACTERISTICS OF SLURRIES (Iowa State College)	G. Murphy et al.	U	6/25/52
MB-296	THE CHELATE PROCESS II	H.W. Crandall et al.	S	
Misc 1952-14 (Tech. Rep. No. 32)	THE ENGINEERING APPLICATION OF THE ABSOLUTE RATE THEORY TO PLASTICS II - FILLED PLASTICS TECHNICAL REPORT XXXII. (Univ. of Utah)	M. Hogan	U	3/1/52

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Misc 1952-14 (Tech. Rep. No. 33)	AN EXAMINATION INTO THE ORIGIN, POSSIBLE SYNTHESIS, AND PHYSICAL PROPERTIES OF DIAMONDS. Tech. Rep. 33	H. Eyring F.W. Cagle, Jr.	U	4/16/52
Misc 1952-14 (Tech. Rep. No. 35)	DESIGN OF A SENSITIVE AUTOGRAPHIC BALANCE. Technical Report 35	J.A. Lasater et al.	U	6/15/52
Misc 1952-14 (Tech. Rep. X)	THE CHEMICAL CHARACTERIZATION OF OXIDATION CATALYSTS: HOPCALITE. Technical Report X	V.D. Allred G.R. Hill	U	4/1/52
Misc 1952-30	TWENTY-FIFTH QUARTERLY REPORT TO SPONSORS OF THE INSTITUTE FOR THE STUDY OF METALS. MAY 1, 1952 TO JULY 31, 1952 (University of Chicago)		U	
Misc 1952-33	TECHNICAL REPORT IV. A. EXTRACTION OF ZIRCONIUM AND HAFNIUM WITH VARIOUS DIKETONES (University of Wisconsin)	E. Larsone G. Terry	U	5/1/52
Misc 1952-52	SEVENTH QUARTERLY REPORT. ELECTRONIC DEVICES FOR NUCLEAR PHYSICS. JANUARY - APRIL 1952. (RCA, Princeton New Jersey)	G.A. Morton L.E. Flory	U	5/27/52
Misc 1952-90	QUARTERLY PROGRESS REPORTS 1,2,3,4,6 and 8 FROM RESEARCH LABORATORY OF PHYSICAL ELECTRONICS, DEPARTMENT OF PHYSICS, TUFTS COLLEGE. CONSTRUCTION OF A TORROID-LIKE DISCHARGE TUBE WITH A CO-ANNULAR MAGNETIC FIELD TO REDUCE LOSS OF IONS TO THE WALLS BY DIFFUSION.		U	
Misc 1952-91	WATER RESOURCES OF THE DETROIT AREA MICHIGAN (Geological Survey)	C.O. Wisler et al.	U	
Misc 1952-92	RECONNAISSANCE FOR RADIOACTIVE DEPOSITS ALONG THE UPPER PORCUPINE AND LOWER COLEEN RIVERS, NORTH-EASTERN ALASKA. Geological Survey Circular 185. (Geological Survey)	M. White	U	

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Misc 1952-95	TECHNICAL REPORT NO. 14 THE ELECTROMAGNETIC PROPERTIES OF DIRAC PARTICLES.	L.L. Foldy	U	
	TECHNICAL REPORT NO. 15 SOME NOTES ON THE ELECTRON-NEUTRON INTERACTIONS. (Case Institute of Technology)	L.L. Foldy	U	
Misc 1952-96	A NOTE ON THE VIBRATIONAL FREQUENCIES AND THE ENTROPY OF DECARORANE (Ohio State University)	W.E. Keller H.L. Johnston	U	
Misc 1952-97	ON THE APPLICATION OF THE POLARIZATION THEORY TO CERAMIC PROBLEMS (Penn. State College)	J.W. Lindenthal	U	5/52
Misc 1952-98	SPECIAL TECHNICAL REPORT NO. 1 (Yale University, Sloane Physics Laboratory)		U	6/1/52
Misc 1952-99	SUMMARY PROGRESS REPORT. CEMENTED BORIDES. OCT. 1, 1951 - JUNE 1, 1952. (American Electro Metal Corporation)		R	
Misc 1952-100	UNIVERSITY OF ILLINOIS PROGRESS REPORT. (University of Illinois)	J.W. Marx et al.	U	7/1/52
Misc 1952-101	TECHNICAL REPORT NO. 5. IONIZATION MEASUREMENT OF B^{10} (n, α) Li^7 . (University of Penn., Randal Morgan Lab. of Physics)	J. Rhodes et al.	U	3/31/52
Misc 1952-103	THE ELECTROCHEMICAL POLARIZATION OF TITANIUM ON NaCl SOLUTIONS (University of Texas)	C.D. Hall, Jr N. Hackerman	U	6/1/52
Misc 1952-104	SPECTROSCOPY LABORATORY PHYSICS DEPARTMENT SCHOOL OF CHEMISTRY AND PHYSICS. TECHNICAL REPORT FOR THE PERIOD MAY 1, 1951 - MAY 1, 1952 (Pennsylvania State College)		U	

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Misc 1952-105	HARWELL. THE BRITISH ATOMIC ENERGY RESEARCH ESTABLISHMENT 1946 - 1951. (York House, Kingsway, London)		U	
Misc 1952-106	APPROXIMATE TREATMENT OF THE EFFECT OF CENTRIFUGAL DISTORTION ON THE ROTATIONAL ENERGY LEVELS OF ASYMMETRIC ROTOR MOLECULES (Mallinckrodt Chemical Laboratory)	D. Kivelson E.B. Wilson, Jr.	U	
Misc 1952-107	A NOTE ON ROTATIONAL LINE STRENGTHS IN SLIGHTLY ASYMMETRIC ROTORS	D. Lide, Jr.	U	
Misc 1952-108	THE PURE QUADRUPOLE SPECTRA OF SOLID CHLOROACETIC ACIDS AND SUBSTITUTED CHLOROACETIC ACIDS	H. Allen, Jr.	U	
Misc 1952-109	THE POTENTIAL FUNCTION OF ETHYLENE (University of Minnesota)	B. Crawford et al.	U	
Misc 1952-110	A HIGH TEMPERATURE VACUUM INDUCTION FURNACE. TECHNICAL REPORT NO. 1 (Rutgers University)	H.T. Smyth et al.	U	
	TEMPERATURE DISTRIBUTION DURING MINERAL INVERSION AND ITS SIGNIFICANCE IN DIFFERENTIAL THERMAL ANALYSIS. TECHNICAL REPORT NO. 2	H.T. Smyth	U	
	A TECHNIQUE FOR MAKING MOLYBDENUM CRUCIBLES FOR CERAMIC RESEARCH. TECHNICAL REPORT NO. 3	H.T. Smyth	U	
ML-154	NEUTRAL V PARTICLE DECAY AND THE NEGATIVE PROTON (Microwave Laboratory, Stanford University)	L.I. Schiff	U	12/51
NYO-1340	MANUFACTURE OF URANIUM AT THE BOUCHET PLANT OF THE FRENCH ATOMIC ENERGY COMMISSION (Mallinckrodt Chemical Laboratory)	C. Eichner et al.	U	6/4/52

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NYO-3118	THE PRODUCTION OF ZIRCONIUM BY FUSED SALT ELECTROLYSIS TECHNICAL PROGRESS REPORT THIRD AND FOURTH QUARTERS. 12/1/51 TO 5/31/52 (Horizons Inc.)	M. Sibert	U	6/18/52
NYO-3302	THE THREE-PHOTON ANNIHILATION OF POSITRONS AND ELECTRONS (Carnegie Institute of Technology)	R.T. Siegel	U	5/26/52
R-52GL18	ALTERNATE VALVE STUDIES (General Engineering Laboratory)	H.J. McLean R.W. Wirta	U	4/15/52
RMO-2605	PROGRESS REPORT FOR MARCH 1 - APRIL 30, 1952 (The Merrill Company)	L.A. McClaine	S	
TEI-142	DISTRIBUTION OF URANIUM IN RICH PHOSPHATE BEDS OF THE PHOSPHORIA FORMATION (Geological Survey)	M.E. Thompson	U	2/51
TEI-206	A PRELIMINARY OUTLINE OF DESIRABLE RESEARCH IN THE GEO-CHEMISTRY OF URANIUM	J.C. Rabbitt et al.	U	4/49
TEM-232	ELECTRICAL RESISTIVITY INVESTIGATIONS OF CARNOTITE DEPOSITS IN THE COLARADO PLATEAU	W.E. Davis	U	4/51
TEM-336	PRELIMINARY REPORT ON A URANIUM BEARING RHYOLITIC TUFF DEPOSIT NEAR COALDALE, ESMERALDA COUNTY, NEVADA	D.C. Duncan	U	2/52
USBM-43	SALT LAKE EXPERIMENT STATION BUREAU OF MINES URANIUM RECOVERY PROJECT PROGRESS REPORT, APRIL 15 TO JUNE 15, 1952. (U.S. Bureau of Mines)	A.E. Back G.M. Potter	R	7/18/52

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<u>UCRL Translations:</u>			
UCRL Translation 118	DEPENDENCE OF THE ABSORPTION OF RADIANT ENERGY BY LEAVES ON PHOTOSYNTHESIS	L. Bell	Translated from the Russian
UCRL Translation 144	DESOXYRIBONUCLEASE ACTIVITY OF THE SERUM OF BLOOD OF RABBITS AND OF MAN	O.P. Terenin	Translated from the Russian
UCRL Translation 145	NEW METHOD OF SEPARATION AND FRACTIONATION BY RE- MOVAL OF FROTH	M. Atribat	Translated from the French
UCRL Translation 146	ELECTRON SPECTRA BETWEEN 1 AND 10 KEV	H. Schenider et al.	Translated from the German

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<u>AECD Documents Received:</u>		
1945 Rev.	STUDIES WITH THE RANGER	D.L. Hill
<u>AECU Documents Received:</u>		
1010	THE SCATTERING OF GAMMA RAYS BY NUCLEONS	R.G. Sachs L.L. Foldy
1709	DIFFUSION OF HIGH ENERGY GAMMA RAYS THROUGH MATTER; III. REFINEMENT OF THE SOLUTION OF THE DIFFUSION EQUATION	L.L. Foldy

