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# RESEARCH AND DEVELOPMENT REPORTS

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II CHEMISTRY - GENERAL

ANL-4181

PREPARATION OF UO<sub>3</sub>.

I. Sheft

S. Fried (Argonne)

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ORNL-100

COMPARISON OF POLAROGRAPHIC CURVES OBTAINED WITH A

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ROTATED MICRO-ELECTRODE AND A STATIONARY ELECTRODE. Unclassified

H. H. Miller

L. B. Rogers (Oak Ridge)

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BASIS FOR LIQUID PROCESS WASTE DISPOSAL DESIGN; REDOX  
PROCESS STUDY NO. PP-3; PRODUCTION PLANT DESIGN.  
J. M. Frame (Hanford)

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V CHEMISTRY - SEPARATIONS PROCESSES FOR URANIUM

KLX-16

PRELIMINARY DESIGN REPORT: SOLVENT EXTRACTION SYSTEM,  
METALS RECOVERY PLANT. JOB 11.  
G. White, Jr. (Kellex)

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THE PREPARATION AND PROPERTIES OF PLUTONIUM OXIDES.  
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W. B. Lewis (Chalk River)

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H. L. Friedell (Western Reserve)

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THE THEORY OF ISOTOPE SEPARATION AS APPLIED TO THE LARGE  
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NAA-SR-17	THERMAL STRESS IN POWER-PRODUCING ELEMENTS. A. S. Thompson (North American Aviation)	3/1/48 Unclassified
UCRL-122	HEAT TRANSFER IN STABLE FILM BOILING. L. A. Bromley (Berkeley)	6/2/48 Restricted
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	M. A. Greenfield (North American Aviation)	
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	K. Way (Oak Ridge)	

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XV REACTORS

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REPORT NO. 10.  
I. Roberts (Kellex)

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K-264 K-304-2 PSI TEST.  
S. S. Stief (C & CCC, K-25)

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MIT-1004 TECHNICAL PROGRESS REPORT FOR THE PERIOD FEBRUARY  
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A. R. Kaufmann (MIT)

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RL-28.5.72 SUMMARY RESEARCH PROGRESS MEETING; SEPTEMBER 8, 1945.  
A. Guthrie (Berkeley)

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M. J. Gross (FIAT) 11/28/45  
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NP-147 THE BERYLLIUM INDUSTRIES OF GERMANY AND ITALY (1939  
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H. A. Siomon  
C. B. Sawyer (FIAT) 2/25/46  
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NP-148 GERMAN BETATRONS.  
A. T. Starr  
K. J. R. Wilkinson  
J. D. Craggs  
L. W. Mussell (BIOS) 10/16/45  
Unclassified

NP-150 THE PROBLEM OF FUNGAL GROWTH ON SYNTHETIC RESINS,  
PLASTICS AND PLASTICUZERS.  
A. E. Brown (OSRD) 10/45  
Restricted

NP-154 FINAL REPORT ON THE M.I.T. PROJECT IN HIGH VOLTAGE  
RADIOGRAPHY. VOLUME 4. PRODUCTION, ABSORPTION, AND  
SCATTERING OF HIGH VOLTAGE X-RAYS.  
(MIT - OSRD) 6/1/45  
Declassified

NP-156 ROCKETS AND OTHER THERMAL JETS USING NUCLEAR ENERGY;  
WITH A GENERAL DISCUSSION OF THE USE OF POROUS PILE  
MATERIALS. SEMINARS LIV AND LV. NUCLEAR SCIENCE AND  
ENGINEERING.  
H. Rsien (MIT) 5/47  
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NP-159 THE SHIELDING OF NUCLEAR REACTORS. SEMINARS XL AND XLI.  
NUCLEAR SCIENCE AND ENGINEERING.  
M. L. Goldberger (MIT) 3/47  
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NP-160 THE CONCEPT OF ALBEDO IN ELEMENTARY DIFFUSION THEORY.  
SEMINAR XXXIX. NUCLEAR SCIENCE AND ENGINEERING.  
G. Placzek (MIT) 3/13/47  
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NP-161 VACUUM TECHNIQUES IN NUCLEAR ENGINEERING. SEMINAR  
XLVIII. NUCLEAR SCIENCE AND ENGINEERING.  
F. C. Armistead (MIT) 4/15/47  
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NP-162 ISOTOPE SEPARATION. SEMINARS XXXVI AND XXVII. NUCLEAR  
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K. Cohen (MIT) 3/47  
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NP-163 SOURCE MATERIALS FOR NUCLEAR POWER. SEMINAR XLIV. 4/1/47  
NUCLEAR SCIENCE AND ENGINEERING. Unclassified  
R. D. Parks (MIT)

NP-164 REVIEWS OF UNCLASSIFIED LITERATURE. APPENDIX D. NUCLEAR SCIENCE AND ENGINEERING. Unclassified  
A. J. Stevens  
G. Feick  
J. H. Pomeroy  
K. Boyer  
C. W. Tittle (MIT)

NP-186 INVESTIGATION OF RARE EARTH PROBLEMS; QUARTERLY PROGRESS REPORT NO. 7, DECEMBER 1, 1947 - MARCH 1, 1948. Unclassified  
(University of Illinois - ONR)

NP-193 A STUDY OF THE RECRYSTALLIZATION OF BERYLLIUM OXIDE AT 2000°C. 9/15/47  
P. Duwez  
F. Odell (California Institute of Technology - Ordnance Department.) Restricted

NP-194 SURVEY OF LITERATURE ON THE METALLURGY OF ZIRCONIUM; INFORMATION CIRCULAR. 2/46  
W. J. Kroll  
A. W. Schlechten (Bureau of Mines) Unclassified

NP-195 METALLIC TITANIUM AND ITS ALLOYS; INFORMATION CIRCULAR. 11/46  
R. S. Dean  
B. Silkes (Bureau of Mines) Unclassified

NP-197 REFRACTORY OXIDES AS MATERIALS OF CONSTRUCTION FOR ROCKET MOTORS; OCTOBER 15, 1947 - NOVEMBER 15, 1947. 11/15/47  
J. A. Slyh  
H. Z. Schofield  
C. R. Austin (Battelle - USAF) Unclassified

NP-198 CHEMISTRY OF GALLIUM; PROGRESS REPORT, DECEMBER 1, 1947 - FEBRUARY 1, 1948. Unclassified  
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4811C COMPARISON OF TENSILE TO CROSS-BENDING STRENGTH; PART 2. CROSS-BENDING STRENGTH OF HOT-PRESSED BERYLLIA. Unclassified  
A. P. Welch (Ohio State - USAF)

NP-200 CERAMIC MATERIALS FOR APPLICATION IN THE DESIGN OF JET PROPELLED DEVICES; PROGRESS REPORT ON HIGH TEMPERATURE ENAMELS. 1/20/48  
R. M. King  
L. L. Moss (Ohio State - USAF) Unclassified

NP-201 CERAMIC MATERIALS FOR APPLICATION IN THE DESIGN OF JET PROPELLED DEVICES; A TENSILE TEST MACHINE FOR BRITTLE MATERIAL. 12/26/47  
H. R. Lowers (Ohio State - USAF) Unclassified

NP-202 REFRACTORY INSULATING COATINGS FOR METALS. QUARTERLY REPORT NO. 5. OCTOBER 1, 1947 - JANUARY 1, 1948. 4/1/48  
L. D. Hower, Jr.  
H. F. G. Ueltz  
F. K. Davey (Rutgers University - USAF) Unclassified

NP-203 CERAMIC MATERIALS OF CONSTRUCTION FOR ROCKET MOTORS; QUARTERLY REPORT; AUGUST 15, 1947 - NOVEMBER 15, 1947. 11/15/47  
J. A. Slyh  
H. Z. Schofield  
C. R. Austin (Battelle - USAF) Unclassified

NP-205 MONTHLY RESEARCH REPORT. 4/1/48  
W. H. Leahy (ONR) Confidential

NP-208 ELEMENTAL FLUORINE; I.G. FARBNINDUSTRIE - LEVERKUSEN. 6/15/46  
E. H. Karr (FIAT) Unclassified

NP-210 SOME FUNDAMENTAL CONSIDERATIONS CONCERNING NOISE REDUCTION AND RANGE IN RADAR AND COMMUNICATIONS. 12/15/47  
S. Goldman (MIT - Signal Corps) Unclassified

NP-215 FUNDAMENTAL STUDIES OF CERAMIC MATERIALS; SUMMARY REPORT; OCTOBER 1947. 2/16/48  
J. F. Lynch  
H. Z. Schofield  
C. R. Austin (Battelle - ONR) Unclassified

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NP-216 INVESTIGATION OF THE FUNDAMENTAL FACTORS PROMOTING HIGH- 3/8/48  
TEMPERATURE STRENGTH OF ALLOYS; SUMMARY REPORT; Unclassified  
NOVEMBER 1947.  
E. R. Elsea  
A. B. Westerman  
C. K. Manning (Battelle - ONR)

NP-218 CHROMIUM-BASE ALLOYS; SUMMARY REPORT; DECEMBER 1947. 2/5/48  
W. L. Hawekotte  
C. T. Greenidge  
C. H. Lorig (Battelle - ONR) Unclassified

NP-219 ENGINEERING PROPERTIES OF HEAT-RESISTING ALLOYS; 1/23/48  
SUMMARY REPORT; NOVEMBER 1947. Unclassified  
W. F. Simmons  
C. W. Andrews  
H. C. Cross (Battelle - ONR)

NP-220 THE COUNTING OF HIGH ENERGY PARTICLES AND QUANTA BY  
PHOTOELECTRIC DETECTION OF INDIVIDUAL LIGHT SHES 2/15/48  
IN FLUORESCENT MATERIALS. SUPPLEMENT TO TECH. AL  
REPORT NO. 3. Unclassified  
H. Kallman (Kaiser Wilhelm Institute for Physical Chemistry)

NP-224 STUDY OF THE PHYSICAL CHANGES TAKING PLACE ON THE CYCLIC 2/27/48  
HEATING AND COOLING OF SEVERAL ZIRCON BODIES. Unclassified  
E. Miller  
M. Tuttle  
D. G. Bennett (University of Illinois - USAF)

NP-225 CERAMIC MATERIALS OF CONSTRUCTION FOR ROCKET MOTORS; 2/15/48  
QUARTERLY REPORT; NOVEMBER 15, 1947 - FEBRUARY 15, 1948. Unclassified  
J. A. Slyh  
H. Z. Schofield  
C. R. Austin (Battelle - USAF)

NP-226 CERAMIC COATINGS FOR AIRCRAFT POWER SYSTEMS; SUMMARY 4/1/48  
REPORT APRIL 1, 1947 - MARCH 31, 1948. Unclassified  
J. M. Neff (Armour Research Foundation - USAF)

NP-227 MONTHLY RESEARCH REPORT. 5/1/48  
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NP-230 MONTHLY RESEARCH REPORT. 6/1/48  
W. H. Leahy (ONR) Confidential

NP-231 BIBLIOGRAPHY ON TITANIUM; ITS PRODUCTION, PROPERTIES, 8/14/47  
AND USES; 1900-1946. Unclassified  
C. S. Dumont (Battelle)

NP-232 RADIOACTIVE MANGANESE, IRON, COBALT, COPPER, ZINC, AND 2/24/48  
STRONTIUM: A SELECTED BIBLIOGRAPHY OF RECENT LITERATURE WITH SPECIAL REFERENCE TO BIOLOGICAL AND MEDICAL Unclassified  
APPLICATIONS.  
M. C. Leikind  
M. H. Eller (Library of Congress - ONR)

NP-233 HANDBOOK OF RADIOACTIVITY AND TRACER METHODOLOGY. 2/13/48  
W. Siri et al (Berkeley - USAF) Unclassified

NP-235 LINEAR ELECTRON ACCELERATOR PROJECT. 5/22/48  
W. W. Hansen (Stanford University - ONR) Unclassified

NP-236 PRECISION WAVE-LENGTH AND ENERGY MEASUREMENT OF GAMMA RAYS 3/30/48  
FROM Au-198 WITH A FOCUSSING QUARTZ CRYSTAL SPECTROMETER. Unclassified  
J. W. M. DuMond (California Institute of Technology)

NP-237 PRESENCE OF 0,208 MEV GAMMA RAY LINES IN A SAMPLE OF THE 4/2/48  
RADIOISOTOPE Au-198. Unclassified  
J. W. M. DuMond (California Institute of Technology)

NP-239 CALCULATED CONDENSER PERFORMANCE FOR A STEAM-TURBINE 5/20/48  
POWER PLANT FOR AIRCRAFT. Confidential  
L. V. Humble  
R. B. Doyle (NACA)

NP-240 A METALLURGICAL INVESTIGATION OF FIVE FORGED GAS-TURBINE 6/48  
DISCS OF TIMKEN ALLOY. Unclassified  
J. W. Freeman  
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NP-241 DETERMINATION OF STRESSES IN GAS-TURBINE DISKS SUBJECTED 6/48  
TO PLASTIC FLOW AND CREEP. Unclassified  
M. B. Millenson  
S. S. Manson (NACA)

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NP-242 RESEARCH PROGRAM WITH THE CHICAGO CYCLOTRON; PROGRESS REPORT; JULY 1, 1946 - MARCH 15, 1947. G. K. Groetzinger J. Marshall N. Sugarman H. L. Anderson (University of Chicago, - ONR) Unclassified

NP-243 THE PRINCIPLES OF CRYSTAL RECTIFIERS. F. Seitz S. Pasternack (University of Pennsylvania - OSRD) 6/10/42 Unclassified

NP-244 IONIZATION OF DONATOR LEVELS IN CRYSTAL RECTIFIERS BY THERMAL AGITATION. A. W. Lawson P. H. Miller L. I. Schiff W. E. Stephens (University of Pennsylvania - OSRD) 7/7/43 Unclassified

NP-245 PREPARATION OF HIGH BACK VOLTAGE GERMANIUM RECTIFIERS; FINAL REPORT. J. H. Scaff H. C. Theuerer (Bell Telephone Laboratories - OSRD) 10/24/45

NP-247 HEAT TREATMENT OF GERMANIUM RECTIFIER MATERIALS. INTERIM REPORT NO. 4. H. C. Theuerer J. H. Scaff (Bell Telephone Laboratories - OSRD) 8/3/45 Declassified

NP-248 THE ELECTRICAL CONDUCTIVITY OF SILICON AND GERMANIUM. F. Seitz (University of Pennsylvania - OSRD) 11/3/42 Unclassified

NP-249 COMPOUNDS OF SILICON AND GERMANIUM. F. Seitz (University of Pennsylvania - OSRD) 6/42 Unclassified

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NP-252 RHENIUM. F. R. Hensel (FIAT) 2/5/46 Unclassified

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NP-253 THE PRODUCTION OF SOME RARE METALS AND THEIR COMPOUNDS AS PRACTICED BY E. MERCK CHEMISCHE FABRIC, DARMSTADT. J. S. Smatko (FIAT) 2/21/46 Unclassified

NP-254 RARE AND MINOR METALS. P. M. Tyler (FIAT) 3/1/46 Unclassified

NP-256 THE PRODUCTION OF ZIRCONIUM OXIDE. M. H. McAllister (FIAT) 1/31/47 Unclassified

NP-257 HIGH TEMPERATURE CERAMICS IN SOUTH GERMANY. N. H. G. Daniels R. L. Bickerdike (BIOS) Restricted

NP-258 THE CERIUM INDUSTRY IN GERMAN TERRITORY; INCLUDING REPORTS ON RADIUM AND MESOTHORIUM. R. Singer H. E. Airey L. C. Grimmett H. R. Leech B. Bennett (BIOS) Unclassified

NP-263 PREPARATION AND PROPERTIES OF GALLIUM LACTATE. H. C. Dudley R. F. Garzoli (Naval Medical Research Institute) 5/24/48 Unclassified

NP-264 THE FLOW OF A COMPRESSIBLE FLUID PAST A CIRCULAR ARC PROFILE. C. Kaplan (NACA) 1944 Unclassified

NP-265 SUPPLEMENT TO UNITED STATES NAVAL MEDICAL BULLETIN. L. H. Roddis (Navy Department, Bureau of Medicine and Surgery) 4/48 Unclassified

NP-266 THE PROPERTIES OF ZIRCONIUM. R. I. Jaffee I. E. Campbell (Battelle) 6/18/47 Unclassified

NP-268 LEAK DETECTOR; PRELIMINARY INSTRUCTIONS. (General Electric) 1/15/44

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NP-269 INVESTIGATION ON THE VALIDITY OF AN IDEAL THEORY OF ELASTO-PLASTICITY FOR WROUGHT ALUMINUM ALLOYS. 7/48  
E. G. Thomsen  
I. Cornet  
I. Lotze  
J. E. Dorn (NACA)  
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NP-270 A STUDY OF CERAMIC COATINGS FOR HIGH-TEMPERATURE PROTECTION OF MOLYBDENUM. 7/48  
D. G. Moore  
L. H. Bolz  
W. N. Harrison (NACA)  
Unclassified

NP-271 TITANIUM AND TITANIUM-BASE ALLOYS. 4/2/48  
(Battelle)  
Restricted

NP-272 AN AUTOMATIC RECORDING SPECTROPHOTOMETER. 5/28/46  
T. Coor  
D. C. Smith (Naval Research Laboratory)  
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NP-273 INVESTIGATIONS OF RARE EARTH PROBLEMS; QUARTERLY PROGRESS REPORT NO. 8; MARCH 1 - JUNE 1, 1948. 5/20/48  
(University of Illinois - ONR)  
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NP-276 OBSERVATIONS ON THE RARE EARTHS: ION EXCHANGE STUDIES ON THORIUM-RARE EARTH MIXTURES. 5/20/48  
T. Moeller  
A. R. Matheson (University of Illinois - ONR)  
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NP-277 CERAMIC MATERIALS FOR APPLICATION IN THE DESIGN OF JET PROPELLED DEVICES; PROGRESS REPORT. 8/1/48  
A. R. Blackburn (Ohio State - USAF)  
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NP-278 CERAMIC MATERIALS FOR APPLICATION IN THE DESIGN OF JET PROPELLED DEVICES; THE EFFECT OF SINTERING CONDITIONS ON THE PHYSICAL PROPERTIES OF "CERMET" BODIES CONTAINING CHROMIUM AND ALUMINA. 12/20/47  
A. R. Blackburn (Ohio State - USAF)  
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NP-279 CERAMIC MATERIALS FOR APPLICATION IN THE DESIGN OF JET PROPELLED DEVICES; PART 1. AN APPARATUS FOR THE HYDROSTATIC PRESSING OF CERMET COMPOSITIONS. PART 2. PRELIMINARY HYDROSTATIC PRESSING STUDY. 3/22/48  
H. R. Lowers  
A. R. Blackburn (Ohio State - USAF)  
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NP-280 CERAMIC COATINGS AND CERAMIC BODIES FOR AIRCRAFT POWER SYSTEMS. 2/10/48  
D. G. Bennett (University of Illinois - USAF) Unclassified

NP-332 STATISTICAL ANALYSIS OF THE EXPERIMENTS ON THE INFLUENCE OF RADIOACTIVE MATERIAL ON THE GROWTH OF CROPS CONDUCTED IN THE U.S.A. IN THE YEARS 1944 TO 1946. 2/10/48  
F. Modigliani (Canadian Radium and Uranium Corporation) Unclassified

NP-334 ANNUAL REPORT. 6/30/48  
W. E. Stephens (University of Pennsylvania - ONR) Unclassified

NP-335 X-RAY DIFFRACTION INVESTIGATION OF MINOR PHASES OF 20 HIGH TEMPERATURE ALLOYS. 7/48  
B. M. Rosenbaum (NACA) Unclassified

NP-336 THE FLUORSPAR INDUSTRY IN GERMANY; MINES AND TREATMENT PLANTS IN THE NABBURG AND REGENSBURG DISTRICTS, UPPER PALITINATE (BAVARIA). 7/48  
E. Koenigsfeld  
K. C. Dunham  
G. A. Jones  
W. Braithwaite (BIOS) Unclassified

NP-338 LOCKING PHENOMENA IN MICROWAVE OSCILLATORS. 4/8/48  
E. E. David, Jr. (MIT - Signal Corps) Unclassified

NP-339 BREAKDOWN OF GAS AT MICROWAVE FREQUENCIES. 5/3/48  
M. A. Herlin  
S. C. Brown (MIT - Signal Corps) Unclassified

NP-343 BIOPHYSICS WITH SPECIAL REFERENCE OF ELECTROBIOLOGY. 5/13/47  
R. T. Lustig (FIAT) Unclassified

NP-344 LITHIUM EXTRACTION AND USES. 10/3/45  
G. T. Motock (FIAT) Unclassified

NP-345 VERTICAL REPORT ZINC AND BY-PRODUCTS. 3/6/46  
W. C. Aitkenhead (FIAT) Unclassified

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NP-342 CHEMICAL CONSEQUENCES OF NUCLEAR REACTIONS. PART II. 7/1/48  
THE SEPARATION AND CONCENTRATION OF RADIOACTIVE BROMINE. Unclassified  
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Br'-82 IN SOLUTION. THE ATTEMPTED PREPARATION OF ATOMIC  
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W. H. Hamill  
A. Davis (University of Notre Dame - ONR)

NP-350 GALLIUM CHEMISTRY; BIMONTHLY REPORT NO. 7; JUNE 1, 1948 - AUGUST 1, 1948. Unclassified  
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NP-352 CERAMIC MATERIALS FOR APPLICATION IN THE DESIGN OF JET PROPELLED DEVICES; INSTANTANEOUS CROSS-BENDING STRENGTH 6/15/48  
OF COBALT-BONDED TITANIUM CARBIDE AT ELEVATED  
TEMPERATURES.  
A. R. Blackburn (Ohio State - USAF)

NP-353 QUARTERLY PROJECT SUMMARY. 4/1/48  
W. H. Leahy (ONR) Restricted

NP-354 FILM HEAT TRANSFER COEFFICIENTS FOR LIQUID POTASSIUM-SODIUM ALLOYS. PRELIMINARY REPORT NO. 4, SUPPLEMENT 6/24/48  
NO. 2.  
R. C. Werner  
E. C. King (Mine Safety Appliances Company - ONR) Confidential

NP-355 CORROSION OF CERTAIN METALS BY POTASSIUM-SODIUM. 6/24/48  
PRELIMINARY REPORT NO. 5, SUPPLEMENT NO. 1.  
L. F. Little (Mine Safety Appliances Company - ONR) Confidential

NP-356 PRESSURE DROP DUE TO FRICTION IN A NATURAL CIRCULATION SYSTEM OF SODIUM-POTASSIUM ALLOY. PRELIMINARY REPORT 6/24/48  
NO. 6, SUPPLEMENT NO. 1.  
R. A. Tidball (Mine Safety Appliances Company - ONR) Confidential

NP-357 FRICTIONAL PRESSURE DROP FOR SODIUM-POTASSIUM ALLOY IN PIPING SYSTEMS. PRELIMINARY REPORT NO. 7. 6/24/48  
R. E. Lee (Mine Safety Appliances Company - ONR) Confidential

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NP-358 ELECTROMAGNETIC FLOW METERS AND ELECTROMAGNETIC PUMPS FOR SODIUM-POTASSIUM LIQUID ALLOYS. PRELIMINARY REPORT NO. 8. 6/24/48 Confidential  
R. C. Werner  
E. C. King (Mine Safety Appliances Company - ONR)

NP-359 CORROSION OF CERTAIN MATERIALS BY SODIUM-POTASSIUM ALLOY. PRELIMINARY REPORT NO. 9. 6/24/48 Confidential  
R. A. Tidball (Mine Safety Appliances Company - ONR)

NP-360 NATURAL CONVECTION HEAT TRANSFER COEFFICIENTS FOR SODIUM-POTASSIUM ALLOY. PRELIMINARY REPORT NO. 10. 6/24/48 Confidential  
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NP-361 ANALYSIS OF NaK ALLOYS. PRELIMINARY REPORT NO. 11. 6/24/48 Confidential  
A. Van Andel (Mine Safety Appliances Company - ONR)

NP-362 EXPERIMENTAL WORK CONDUCTED TO DETERMINE THE SPECIFIC HEAT OF KNa ALLOY. PRELIMINARY REPORT NO. 12. 6/24/48 Confidential  
L. F. Little (Mine Safety Appliances Company - ONR)

NP-363 CERAMIC MATERIALS FOR APPLICATIONS IN THE DESIGN OF JET PROPELLED DEVICES; AN ACCELERATED TEST FOR DETERMINED THE RELATIVE CORROSIVE EFFECT OF ENAMEL COATINGS ON METALS. 5/4/48 Unclassified  
R. M. King  
L. L. Moss  
G. H. Lusher (Ohio State - USAF)

NP-364 LINEAR ELECTRON ACCELERATOR PROJECT. 8/1/48 Unclassified  
W. W. Hansen (Stanford University - ONR)

NP-365 CERAMIC MATERIALS FOR APPLICATION IN THE DESIGN OF JET PROPELLED DEVICES; COMPARISON OF TENSILE STRENGTH OF A BRITTLE MATERIAL AS DETERMINED BY CENTRIFUGAL STRESS IN VACUUM VS. PNEUMATIC CYLINDER STRESS IN A SPECIALLY DESIGNED TENSILE TEST MACHINE. 6/23/48 Unclassified  
H. R. Lowers  
A. R. Blackburn (Ohio State - USAF)

NP-366 QUARTERLY REPORT FOR APRIL - JUNE 1948. 7/15/48 Unclassified  
J. A. Stratton  
A. G. Hill  
J. B. Wiesner (MIT - Signal Corps)

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NP-369 SUPERCONDUCTIVITY AND LIQUID HELIUM II AT THE 1/1/48  
TEMPERATURE OF LIQUID HELIUM. SIXTH QUARTERLY Unclassified  
PROGRESS REPORT.  
J. G. Daunt  
H. L. Johnston (Ohio State - USAF)

NP-370 SUPERCONDUCTIVITY AND LIQUID HELIUM II AT THE TEMPERATURE 7/1/47  
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J. G. Daunt  
H. L. Johnston (Ohio State - USAF)

NP-371 SUPERCONDUCTIVITY AND LIQUID HELIUM II AT THE TEMPERATURE 10/1/47  
OF LIQUID HELIUM. FIFTH QUARTERLY REPORT. Unclassified  
J. G. Daunt  
H. L. Johnston (Ohio State - USAF)

NP-372 QUARTERLY PROJECT SUMMARY. 1/1/48  
W.H. Leahy (ONR) Restricted

NP-375 THE EFFECTS OF PROLONGED HEATING ON FIVE PURE OXIDE 5/27/48  
BODIES. Unclassified  
L. R. McCreight (University of Illinois - USAF)

NP-379 RECENT GERMAN RESEARCH WORK ON FLUORINE AND FLUORINE 6/5/47  
COMPOUNDS. Unclassified  
W. Kwasnik  
P. Scherer (FIAT)

NP-387 CERAMIC COATINGS FOR AIRCRAFT POWER SYSTEMS; QUARTERLY 4/1/48  
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J. M. Neff (Armour Research - USAF)

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NUCLEAR POWER APPLICATIONS

NEPA-506	PILE-HEATED TURBOJETS. L. A. Ohlinger (NEPA)	8/15/48 Secret
NEPA-508	ROCKET COMPUTATIONS. R. Cornog (NEPA)	8/3/46 Secret
NEPA-511	CONTROLS FOR NUCLEAR-POWERED AIRCRAFT. L. A. Ohlinger (NEPA)	8/22/46 Secret

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ANL-4271	SUMMARY REPORT FOR JANUARY, FEBRUARY AND MARCH 1948; CHEMICAL ENGINEERING DIVISION. S. Lawroski et al (Argonne)	Secret
BNL-S-2	SCIENTIFIC PROGRESS REPORT. (Brookhaven)	7/1/47 Unclassified
HRAC-67	MINUTES OF THE TWENTY-SEVENTH MEETING OF THE HEALTH RADIATION ADVISORY COMMITTEE, JUNE 2, 1948. G. H. Guest (Chalk River)	8/26/48 Secret
KLX-17	AUGUST PROGRESS REPORT; JOB 11. G. White, Jr. (Kellex)	8/31/48 Secret
M-4259	PROGRESS REPORT FOR MONTH OF NOVEMBER 1945 J. G. Hamilton (Berkeley)	11/21/45 Secret
NEPA-658	INFORMAL MONTHLY PROGRESS REPORT; MAY 21 TO JUNE 20, 1948. R. Wehrmann (NEPA)	6/27/48 Unclassified
NEPA-684	INFORMAL MONTHLY PROGRESS REPORT; JUNE 21 TO JULY 20, 1948. R. Wehrmann (NEPA)	7/23/48 Unclassified
NEPA-693	PROGRESS REPORT FOR THE PERIOD OF MAY 1 THROUGH 31, 1948. T. A. Sims (NEPA)	Secret
ORNL-59	LABORATORY WEEKLY PROGRESS REPORT FOR WEEK ENDING MAY 30, 1948; ADMINISTRATIVE, SERVICE AND OPERATING FUNCTIONS. C. N. Rucker (Oak Ridge)	6/4/48 Secret
P-875	PROGRESS REPORT FOR THE MONTH OF JUNE 1948. F. H. Spedding (Iowa State)	Secret

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