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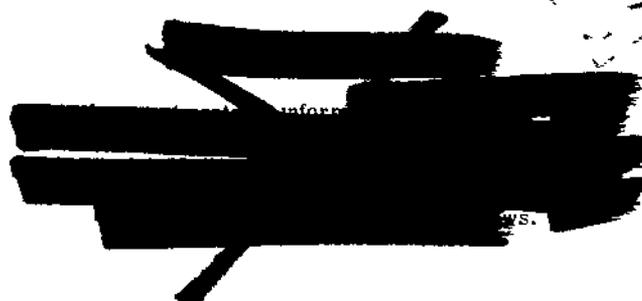
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UNITED STATES ATOMIC ENERGY COMMISSION

RESEARCH AND DEVELOPMENT REPORTS

Vol. V No. 6
September 30, 1948

ICA-110
 8-13-96
 2nd Review-Date 8-13-96
 Authority BICG-1R-1
 Name *Jerry E. Keyes*
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HDC-372

BASIS FOR LIQUID PROCESS WASTE DISPOSAL DESIGN; REDOX
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J. M. Frame (Hanford)

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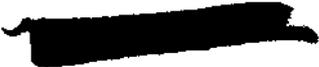
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G. White, Jr. (Kellex)

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THE PREPARATION AND PROPERTIES OF PLUTONIUM OXIDES.
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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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NP-148	GERMAN BETATRONS. A. T. Starr K. J. R. Wilkinson J. D. Craggs L. W. Mussell (BIOS)	10/16/45 Unclassified
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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 Unclassified
NP-159	THE SHIELDING OF NUCLEAR REACTORS. SEMINARS XL AND XLI. NUCLEAR SCIENCE AND ENGINEERING. M. L. Goldberger (MIT)	3/47 Unclassified
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NP-195	METALLIC TITANIUM AND ITS ALLOYS; INFORMATION CIRCULAR. R. S. Dean B. Silkes (Bureau of Mines)	11/46 Unclassified
NP-197	REFRACTORY OXIDES AS MATERIALS OF CONSTRUCTION FOR ROCKET MOTORS; OCTOBER 15, 1947 - NOVEMBER 15, 1947. J. A. Slyh H. Z. Schofield C. R. Austin (Battelle - USAF)	11/15/47 Unclassified
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NP-200	CERAMIC MATERIALS FOR APPLICATION IN THE DESIGN OF JET PROPELLED DEVICES; PROGRESS REPORT ON HIGH TEMPERATURE ENAMELS. R. M. King L. L. Moss (Ohio State - USAF)	1/20/48 Unclassified
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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
Unclassified
W. L. Hawekotte
C. T. Greenidge
C. H. Lorig (Battelle - ONR)

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

NP-222 THE COUNTING OF HIGH ENERGY PARTICLES AND QUANTA BY
PHOTOELECTRIC DETECTION OF INDIVIDUAL LIGHT PHENOMENA
IN FLUORESCENT MATERIALS. SUPPLEMENT TO TECHNICAL
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
W. H. Leahy (ONR) Confidential

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NP-243	THE PRINCIPLES OF CRYSTAL RECTIFIERS. F. Seitz S. Pasternack (University of Pennsylvania - OSRD)	6/10/42 Unclassified
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NP-245	PREPARATION OF HIGH BACK VOLTAGE GERMANIUM RECTIFIERS; FINAL REPORT. J. H. Scaff H. C. Theuerer (Bell Telephone Laboratories - OSRD)	10/24/45
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NP-269	INVESTIGATION ON THE VALIDITY OF AN IDEAL THEORY OF ELASTO-PLASTICITY FOR WROUGHT ALUMINUM ALLOYS. E. G. Thomsen I. Cornet I. Lotze J. E. Dorn (NACA)	7/48 Unclassified
NP-270	A STUDY OF CERAMIC COATINGS FOR HIGH-TEMPERATURE PROTECTION OF MOLYBDENUM. D. G. Moore L. H. Bolz W. N. Harrison (NACA)	7/48 Unclassified
NP-271	TITANIUM AND TITANIUM-BASE ALLOYS. (Battelle)	4/2/48 Restricted
NP-272	AN AUTOMATIC RECORDING SPECTROPHOTOMETER. T. Coor D. C. Smith (Naval Research Laboratory)	5/28/46 Unclassified
NP-273	INVESTIGATIONS OF RARE EARTH PROBLEMS; QUARTERLY PROGRESS REPORT NO. 8; MARCH 1 - JUNE 1, 1948. (University of Illinois - ONR)	Unclassified
NP-276	OBSERVATIONS ON THE RARE EARTHS: ION EXCHANGE STUDIES ON THORIUM-RARE EARTH MIXTURES. T. Moeller A. R. Matheson (University of Illinois - ONR)	5/20/48 Unclassified
NP-277	CERAMIC MATERIALS FOR APPLICATION IN THE DESIGN OF JET PROPELLED DEVICES; PROGRESS REPORT. A. R. Blackburn (Ohio State - USAF)	8/1/48 Unclassified
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. A. R. Blackburn (Ohio State - USAF)	12/20/47 Unclassified
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. H. R. Lowers A. R. Blackburn (Ohio State - USAF)	3/22/48 Unclassified

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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. Unclassified
F. Modigliani (Canadian Radium and Uranium Corporation)

- 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 PALATINATE (BAVARIA). Unclassified
E. Koenigsfeld
K. C. Dunham
G. A. Jones
W. Braithwaite (BIQS)

- 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 Unclassified
S. C. Brown (MIT - Signal Corps)

- 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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PART III. THE CHEMISTRY OF THE (N, γ) PROCESS YIELDING
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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 -
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NP-352 CERAMIC MATERIALS FOR APPLICATION IN THE DESIGN OF JET 6/15/48
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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- 6/24/48
SODIUM ALLOYS. PRELIMINARY REPORT NO. 4, SUPPLEMENT Confidential
NO. 2.
R. C. Werner
E. C. King (Mine Safety Appliances Company - ONR)

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

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

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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
R. A. Tidball (Mine Safety Appliances Company - ONR)

NP-361 ANALYSIS OF NaK ALLOYS. PRELIMINARY REPORT NO. 11. 6/24/48 Confidential
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NP-362 EXPERIMENTAL WORK CONDUCTED TO DETERMINE THE SPECIFIC HEAT OF KNa ALLOY. PRELIMINARY REPORT NO. 12. 6/24/48 Confidential
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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 TEMPERATURE OF LIQUID HELIUM. SIXTH QUARTERLY PROGRESS REPORT. 1/1/48
Unclassified
J. G. Daunt
H. L. Johnston (Ohio State - USAF)

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

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

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

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

NP-379 RECENT GERMAN RESEARCH WORK ON FLUORINE AND FLUORINE COMPOUNDS. 6/5/47
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W. Kwasnik
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NP-387 CERAMIC COATINGS FOR AIRCRAFT POWER SYSTEMS; QUARTERLY REPORT FOR JANUARY - MARCH 1948. 4/1/48
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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)	8/1/46 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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