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A list of Reports and Memoranda which may be of interest to the P-9 work.

November 18, 1945

A-32 The Action of UF_6 on Various Metals. P. Abelson

A-44 Slow Neutron Capture in Deuterium. E. O. Lawrence

A-58 UF_6 - Production and Properties. P. Abelson

A-70 Report on Corrosion of Various Metals in Hex (I). H. F. Priest

A-71 Report on Corrosion of Various Materials in Hex (II). H. F. Priest

A-83 Chemical Properties of Uranium Hexafluoride, UF_6. A. V. Grosse

A-84 On the Production of Heavy Water. A. Farkas

Appendix - Comments on the Suggestions of A. Farkas in Regard to the Production of Heavy Water. H. C. Urey

A-87 Specific Heat of UF_6. E. T. Booth, D. Callihan, E. Haggstrom, A. Nordsieck

A-88 Flow Meter for UF_6. E. T. Booth, E. Haggstrom, D. Callihan

A-90 Preliminary Report on Nature of Deposit from "Corrosion Tests" H. T. Beans

A-91 Preliminary Report Concerning the Thermal Instability of Hex. H. F. Priest

A-94 Production of D_2O for Use in the Fission of Uranium. H. C. Urey, A. V. Grosse, G. Walden

A-102 Report on the Hydrogen-Water Exchange Reaction on Metal Catalysts. H. S. Taylor, G. G. Joris

A-104 The Calculation of the Performance of Exchange Columns for the Separation of Hydrogen Isotopes. G. E. Kimball

A-106 Prelimnary Report on Operating Conditions of Proposed Deuterium Plant at Trail, B. C. G. E. Kimball

A-108 Report on Corrosion of Duraluminum 14 ST Sample Submitted by Professor Beams. H. F. Priest.

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A-109 Report on Corrosion of Pure Graphite in Hex. H. F. Priest

A-110 Report on Purification of Uranium Hexafluoride. H. F. Priest

A-113 Catalysts for the production of Heavy Water by Means of the Hydrogen-Water Exchange Reaction. A. V. Grosse

A-118 Deuterium Concentration by Parallel Flow: Calculations. K. Cohen

A-121 Report on Methods of Handling Hex. H. F. Priest

A-125 Report of H. C. Urey on Visit to the Consolidated Mining and Smelting Company of Canada Limited, at Trail, B. C., on February 21, 22, and 23, 1942.

A-139 Measurement of Density of Liquid Hex. H. F. Priest

A-140 Memorandum on Visit to the Trail, B. C. Plant of the Consolidated Mining and Smelting Company, Ltd. of Canada. H. S. Taylor

A-141 Memorandum on the Trail, B. C. Electrolytic Hydrogen Plant as a Production Source for Deuterium Oxide. H. S. Taylor

A-144 Theoretical Values of Equillibrium Constants for Deuterium Exchange Reactions Involving Hydrogen and Water. G. E. Kimball, W. H. Stockmayer

A-149 Progress Report on the Hydrogen-Water Vapor Exchange Reaction on Metal Catalysts by the Research Group O. S. R. D., Development Project S-1, Depratment of Chemistry, Princeton University

A-150 Second Progress Report on the Hydrogen-Water Vapor Exchange Reaction on Metal Catalysts by the Research Group O. S. R. D., Development Project S-1, Department of Chemistry, Princeton University.

A-154 The Weighing of Samples of UF_6. N. Davidson, E. A. Long

A- 155 Second Progress Report on the Hydrogen-Water Vapor Exchange Reaction on Metal Catalysts by the Research Group, O. S. R. D., Development Project S-1, Department of Chemistry, Princeton University

A-160 Third Progress Report on the Hydrogen-Water Vapor Exchange Reaction on Metal Catalysts by the Research Group, O. S. R. D., Development Project S-1, Department of Chemistry, Princeton University

CP-530 The Slowing Down of Neutrons in Heavy Water. March 19, 1943. By E. Fermi

CE-545 Investigation of Performance of Certain Types of D_2O Plants. March 1943. By M. D. Abbott

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CP-668 On k for Homogeneous Mixtures of Metal with Various Moderators. May 15, 1943. By E. P. Wigner and J. Stephenson

CE-681 Heat Transfer Calculations on Bi-TO_3 Slurries. F. R. Ward

CE-689 Monthly Report. May 1943

CC-695 Production of Deuterium and Uranium Deuteride from Heavy Water. Chemical Research-General, Ames Project

CP-715 The Contamination of Cooling Water by a P-9 Plant - June 1, 1943. F. L. Friedman

CP-718 Physics Research. Report for Month ending June 12, 1943

CT-748 Report to Council for Period May 5 to June 30, 1943. P-9 Pile Studies Section, Technological Research

CE-754 Report for Month Ending June 30, 1943. P-9 Pile Studies Section, Technological Research

CF-781 Physics Research. Report for Month ending July 10, 1943

CF-779 Removal of Power from the Homogeneous Plant - July 13, 1943 Gale Young

CT-789 Report to Council for Period July 1 to August 30, 1943. P-9 Pile Studies Section, Technological Research

CE-805 General Engineering Design Features of the Pile for a Light Water-Cooled P-9 Power Plant. L. A. Ohlinger

CP-807 Pile Heat Exchanger System - July 22, 1943. Gale Young

CP-807 (II) Pile Heat Exchanger System - August 1943. Gale Young

CT-814 Report for Month Ending July 26, 1943. P-9 Pile Studies Section, Technological Research

CC-832 The Present Status of P-9 Specifications, Purity and Danger Coefficients. S. K. Allison

CS-833 Memorandum on P-9 for Laboratory Council Meeting. August 4, 1943. Appendices, August 4, 1943. H. C. Vernon

CS-853.4 Documents for P-9 Reviewing Committee, August 11, 1943.

CE-865 Trip to Heat Exchanger Manufacturers. F. R. Ward and L. B. Thompson

CP-871 Physics Research. Report for Month ending August 14, 1943

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CT-883 Temperature Distribution. K. Cohen and I. Kaplan

CE-900 Report for Month Ending August 28, 1943. P-9 Pile Studies Section, Technological Research

CT-910 Steam Bubbles. J. T. Wells

CT-911 Technological Research -P-9 Pile Studies. Slurry Pumps. J. J. Goett

CP-923 Values of the Thermal Utilization, Resonance Absorption, and Critical Sizes in Metal - P-9 Systems. Castle, Lloyd, Stephenson, Williamson, Weinberg, 8/23/43

CP-935 Temperature Rise in Coating Under a Rib - Sept. 16, 1943. Young

CP-961 Physics Research. Report for Month ending September 25, 1943

CT-962 Report for Month Ending September 26, 1943. P-9 Pile Studies Section, Technological Research

CT-969 Technological Research P-9 Studies Section. P-9 Utilization in Slurry Pile Cooling System. Ward and Wells

CP-1016 Physics Research. Report for Month ending October 1943

<u>The following are Columbia reports.</u>

H_2-HDO liquid vapor exchange reaction - Oct. 1942. Hiskey and Joris

4 reports on glass pilot plant for H_2-HDO conversion (catalytic) February through April 1943. Hiskey, Eidinoff, and Sayre (Teller worked on the last report)

2 reports on poisoning of Pt and Ni catalysts f r H_2-HDO exchange - April 1943. Hiskey, Eidinoff, Steingiser, and Klebanow

S-Process glass pilot plant for D_2O enrichment - May 1943 Hiskey and Eidinoff

Properties of slurries - August 1943. Hiskey and Eidinoff

General Review (includes work of Hiskey(s group) - June 30, 1943 Urey et al.

M-123 Technical Progress Report, 8/1-15/43 - August 20, 1943
2R-660 (Chapter on uranium oxide slurries)

M-146 Technical Progress Report, 8/15-31/43 - Sept. 4, 1943
2R-702 (Chapter on uranium oxide slurries)

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M-162 Technical Progress Report, 9/1-15/43 - Sept. 20, 1943
2R-748 (Chapter on uranium oxide slurries)

M-178 Technical Progress Report, 9/15-30/43 - October 5, 1943
2R-789 (Chapter on uranium oxide slurries)

LX-160 Survey Report, Chemical Division - June 14, 1943
2R-420 (The heavy water slurry pile)

Memorandums sent out by individuals are listed below.

LM-HCV-136 Concrete for Shielding - Written by J. J. Coett

LM-HCV-262 " " " " - " " G. F. Quinn and L. B. Thompson

LX-HCV-401 Pump Life - Written by T. H. Chilton

MUC-EPW-8 The use of Th in the heavy Water Pile - April 3, 1943 (Memo to J. Franck) - Wigner and Young

MUC-AMW-5 Semi-Works P-9 Plant with Water Cooling May 19, 1943 - Young and Weinberg

MUC-EPW-15 Adequacy of Site "X" for P-9 Plant June 12, 1943 (Memo to M. D. Whitaker)

MUC-AMW-8 Summary of the Specifications on P-9 Purity July 1943 - A. M. Weinberg (Memo to S. K. Allison)

Blueprints of P-9 Containers August 17, 1943 (Memo to H. C. Vernon)

MUC-MB-128 Slurry Experiments - C. F. Miskey - September 7, 1943

MUC-EPW-24 Outline for Experimental Program for Homogeneous P-9 Pile September 14, 1943 (Memo to H. D. Smyth)

Outline - Theoretical Calculations of the Shielding of P-9 Plants - September 16, 1943 - F. L. Friedman

MUC-NS-93 Possibility of Getting High Concentration Fission Product from Homogeneous P-9 - November 1, 1943 - Turkovich

Memorandums Issued Through the Information Office

Memo 107 Interim Report on Some Manifold Details for a P-9 Pile

Memo 111 Metal Solution in Situ - J. R. Huffman

Memo 118 Shielding Program - Quinn and Thompson

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