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ORNL-TM-2038

STABLE ISOTOPE CUSTOMER LIST AND SUMMARY OF SHIPMENTS FY 1967

Compiled by: Susan C. Keith

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ORNL-TM-2038

Contract No. W-7405-eng-26

ISOTOPES DEVELOPMENT CENTER

STABLE ISOTOPE CUSTOMER LIST AND SUMMARY OF SHIPMENTS

FY 1967

Compiled by

Susan C. Keith

Isotopes Division

NOVEMBER 1967

OAK RIDGE NATIONAL LABORATORY
Oak Ridge, Tennessee
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UNION CARBIDE CORPORATION
for the
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STABLE ISOTOPE CUSTOMER LIST AND SUMMARY OF SHIPMENTS

FY 1967

INTRODUCTION

This report is made to aid those concerned with the management of the separation and sales of stable isotopes. The information is divided into two sections. The first section is an alphabetical list of domestic and foreign customers with the stable isotopes purchased during the fiscal year. The second section is a tabulation of the shipments, quantities, and dollars for domestic, foreign, and project categories for each isotope; the total figures for each isotope are also included. The total number of stable-isotope loan shipments and quantities is listed at the end of the tabulation.

ALPHABETICAL LIST OF CUSTOMERS WITH ISOTOPES PURCHASED

Domestic*

Abbott Laboratories
1400 Sheridan Road
North Chicago, Illinois 60064

^{98}Mo

Advanced Research Corporation
715 Miami Circle
Atlanta, Georgia 30324

^{6}Li

Alaska, University of
Institute of Marine Science
College, Alaska 99735

^{30}Si

Allis-Chalmers Mfg. Company
6925 Arlington Road
Bethesda, Maryland 20014

^{7}Li

American Cyanamid Company
1937 West Main Street
Stanford, Connecticut 06904

^{18}O, ^{183}W

American Radio Company, Inc.
445 Park Avenue
New York, New York 10022

^{85}Rb, ^{87}Rb

Andrews University
Berrien Springs, Michigan 49104

^{109}Ag, ^{7}Li

Arizona, University of
Post Office Drawer 4100
Tucson, Arizona 85717

^{11}B, ^{57}Fe

Argonne National Laboratory
9700 South Cass Avenue
Argonne, Illinois 60439

^{107}Ag, ^{10}B, ^{130}Ba, ^{132}Ba, ^{134}Ba, ^{136}Ba, ^{137}Ba, ^{138}Ba, ^{40}Ca, ^{42}Ca, ^{43}Ca, ^{46}Ca, ^{48}Ca, ^{112}Cd, ^{114}Cd, ^{116}Cd, ^{136}Ce, ^{142}Ce, ^{35}Cl, ^{37}Cl, ^{54}Cr, ^{65}Cu, ^{158}Dy, ^{162}Er, ^{168}Er, ^{56}Fe, ^{57}Fe, ^{58}Fe, ^{158}Gd, ^{70}Ge, ^{72}Ge, ^{74}Ge, ^{76}Ge, ^{177}Hf, ^{179}Hf, ^{41}K, ^{6}Li, ^{7}Li, ^{92}Mo, ^{94}Mo, ^{95}Mo, ^{96}Mo, ^{97}Mo, ^{98}Mo, ^{100}Mo, ^{142}Nd, ^{150}Nd, ^{58}Ni, ^{60}Ni, ^{61}Ni, ^{62}Ni, ^{64}Ni, ^{17}O, ^{192}Os, ^{207}Pb, ^{192}Pt, ^{194}Pt, ^{195}Pt, ^{196}Pt, ^{32}S, ^{33}S, ^{34}S, ^{82}Se, ^{30}Si, ^{148}Sm, ^{150}Sm, ^{152}Sm, ^{154}Sm, ^{116}Sn, ^{118}Sn, ^{120}Sn, ^{122}Sn, ^{124}Sn, ^{46}Ti, ^{48}Ti, ^{50}Ti, ^{203}Tl, ^{205}Tl, ^{182}W, ^{186}W, ^{176}Yb, ^{64}Zn, ^{66}Zn, ^{68}Zn, ^{70}Zn, ^{96}Zr

Arkansas, University of
Fayetteville, Arkansas 72701

^{46}Ca, ^{48}Ca, ^{37}Cl, ^{53}Cr, ^{54}Cr, ^{76}Ge, ^{34}S

Atomics International
Post Office Box 309
Canoga Park, California 91305

^{54}Fe

Avco Manufacturing Corporation
Post Office Drawer N
Admiral Station
Tulsa, Oklahoma 74115

^{144}Sm

Babcock and Wilcox Company
Research Center
Post Office Box 835
Alliance, Ohio 44601

^{146}Nd, ^{150}Nd, ^{144}Sm

*Includes project customers.

Bartol Research Corporation
Whittier Place
Swarthmore, Pennsylvania 19081

^{40}Ca, ^{69}Ga, ^{71}Ga, ^{72}Ge, ^{74}Ge, ^{76}Ge, ^{58}Ni, ^{88}Sr, ^{90}Zr

Battelle Memorial Institute
505 King Avenue
Columbus, Ohio 43201

^{57}Fe

Baylor University
Box 6397
Waco, Texas 76706

^{6}Li, ^{7}Li

Bell Telephone Laboratory
Mountain Avenue
Murray Hill, New Jersey 07971

^{110}Cd, ^{114}Cd, ^{161}Dy, ^{151}Eu, ^{57}Fe, ^{69}Ga, ^{71}Ga, ^{160}Gd, ^{178}Hf, ^{180}Hf, ^{6}Li, ^{104}Pd, ^{106}Pd, ^{108}Pd, ^{110}Pd, ^{185}Re, ^{187}Re, ^{121}Sb, ^{123}Sb, ^{150}Sm, ^{118}Sn, ^{120}Sn, ^{122}Sn, ^{46}Ti, ^{48}Ti, ^{50}Ti, ^{182}W, ^{184}W, ^{186}W, ^{170}Yb, ^{174}Yb

Bell Telephone Laboratory
463 West Street
New York, New York 10014

^{107}Ag, ^{109}Ag

Bendix Corporation
Research Laboratories Division
20800 10-1/2 Mile Road
Southfield, Michigan 48075

^{63}Cu

Bendix Corporation
95th and Troost
Kansas City, Missouri 64114

^{10}B

Bio-Rad Laboratories
32nd and Griffin Avenues
Richland, California 94804

^{7}Li, ^{17}O, ^{18}O

Boston University
100 Cummington Street
Boston, Massachusetts 02215

^{168}Er

Brandeis University
Laboratory Supplies and Services
415 South Street
Waltham, Massachusetts 02154

^{33}S

Brookhaven National Laboratory
Upton, Long Island, New York 11973

^{10}B, ^{11}B, ^{43}Ca, ^{44}Ca, ^{48}Ca, ^{108}Cd, ^{142}Ce, ^{63}Cu, ^{65}Cu, ^{164}Dy, ^{168}Er, ^{155}Gd, ^{158}Gd, ^{199}Hg, ^{40}K, ^{6}Li, ^{7}Li, ^{26}Mg, ^{143}Nd, ^{146}Nd, ^{61}Ni, ^{64}Ni, ^{208}Pb, ^{108}Pd, ^{192}Pt, ^{96}Ru, ^{99}Ru, ^{100}Ru, ^{102}Ru, ^{104}Ru, ^{74}Se, ^{149}Sm, ^{152}Sm, ^{119}Sn, ^{124}Sn, ^{84}Sr, ^{87}Sr, ^{125}Te, ^{50}Ti, ^{50}V, ^{174}Yb, ^{68}Zn

Brown University
68 Waterman Street
Providence, Rhode Island 02912

^{53}Cr, ^{57}Fe, ^{6}Li, ^{47}Ti

California Institute of Technology
1201 E. California Boulevard
Pasadena, California 91109

^{40}Ca, ^{160}Dy, ^{161}Dy, ^{170}Er, ^{151}Eu, ^{153}Eu, ^{57}Fe, ^{154}Gd, ^{155}Gd, ^{156}Gd, ^{160}Gd, ^{174}Hf, ^{176}Hf, ^{177}Hf, ^{179}Hf, ^{180}Hf, ^{200}Hg, ^{204}Hg, ^{113}In, ^{175}Lu, ^{189}Os, ^{190}Os, ^{192}Os, ^{185}Re, ^{187}Re, ^{121}Sb, ^{123}Sb, ^{29}Si, ^{30}Si, ^{147}Sm, ^{148}Sm, ^{149}Sm, ^{150}Sm, ^{152}Sm, ^{154}Sm, ^{116}Sn, ^{119}Sn, ^{124}Sn, ^{125}Te, ^{130}Te, ^{182}W, ^{184}W, ^{186}W, ^{170}Yb, ^{171}Yb, ^{172}Yb, ^{173}Yb, ^{174}Yb

California Institute of Technology
Jet Propulsion Laboratory
4800 Oak Grove Drive
Pasadena, California 91109

^{18}O

California, University of
400 Sproul Hall
Berkeley, California 94720

^{154}Gd, ^{41}K, ^{142}Nd, ^{143}Nd, ^{174}Yb

California, University of
Lawrence Radiation Laboratory
Post Office Box 528
Berkeley, California 94701

^{107}Ag, ^{109}Ag, ^{10}B, ^{135}Ba, ^{138}Ba, ^{42}Ca, ^{44}Ca, ^{106}Cd, ^{108}Cd, ^{110}Cd, ^{111}Cd, ^{112}Cd, ^{113}Cd, ^{114}Cd, ^{116}Cd, ^{140}Ce, ^{142}Ce, ^{50}Cr, ^{52}Cr, ^{161}Dy, ^{162}Dy, ^{163}Dy, ^{164}Dy, ^{166}Er, ^{170}Er, ^{151}Eu, ^{153}Eu, ^{54}Fe, ^{56}Fe, ^{57}Fe, ^{58}Fe, ^{154}Gd, ^{155}Gd, ^{156}Gd, ^{157}Gd, ^{158}Gd, ^{160}Gd, ^{72}Ge, ^{74}Ge, ^{76}Ge, ^{178}Hf, ^{179}Hf, ^{180}Hf, ^{198}Hg, ^{199}Hg, ^{200}Hg, ^{201}Hg, ^{202}Hg, ^{204}Hg, ^{40}K, ^{41}K, ^{6}Li, ^{7}Li, ^{175}Lu, ^{176}Lu, ^{24}Mg, ^{25}Mg, ^{26}Mg, ^{92}Mo, ^{94}Mo, ^{96}Mo, ^{98}Mo, ^{100}Mo, ^{142}Nd, ^{144}Nd, ^{146}Nd, ^{148}Nd, ^{150}Nd, ^{58}Ni, ^{60}Ni, ^{62}Ni, ^{188}Os, ^{186}Os, ^{190}Os, ^{192}Os, ^{204}Pb, ^{206}Pb, ^{207}Pb, ^{208}Pb, ^{108}Pd, ^{192}Pt, ^{194}Pt, ^{195}Pt, ^{196}Pt, ^{198}Pt, ^{85}Rb, ^{185}Re, ^{187}Re, ^{104}Ru, ^{33}S, ^{34}S, ^{121}Sb, ^{123}Sb, ^{72}Se, ^{82}Se, ^{28}Si, ^{29}Si, ^{30}Si, ^{144}Sm, ^{147}Sm, ^{148}Sm, ^{149}Sm, ^{150}Sm, ^{152}Sm, ^{154}Sm, ^{116}Sn, ^{117}Sn, ^{118}Sn, ^{119}Sn, ^{120}Sn, ^{122}Sn, ^{124}Sn, ^{84}Sr, ^{86}Sr, ^{87}Sr, ^{88}Sr, ^{122}Te, ^{124}Te, ^{125}Te, ^{126}Te, ^{128}Te, ^{130}Te, ^{203}Tl, ^{205}Tl, ^{180}W, ^{182}W, ^{183}W, ^{184}W, ^{186}W, ^{171}Yb, ^{172}Yb, ^{174}Yb, ^{176}Yb, ^{64}Zn, ^{67}Zn, ^{68}Zn, ^{70}Zn, ^{90}Zr, ^{92}Zr, ^{94}Zr, ^{96}Zr

California, University of
Davis, California 95616

^{134}Ba, ^{135}Ba, ^{136}Ba, ^{137}Ba, ^{138}Ba, ^{110}Cd, ^{160}Dy, ^{161}Dy, ^{167}Er, ^{155}Gd, ^{6}Li, ^{7}Li, ^{208}Pb, ^{29}Si, ^{112}Sn, ^{114}Sn, ^{115}Sn, ^{116}Sn, ^{117}Sn, ^{118}Sn, ^{119}Sn, ^{120}Sn, ^{122}Sn, ^{124}Sn

California, University of
Post Office Box 109
La Jolla, California 92038

^{57}Fe, ^{138}La

California, University of
Los Alamos Scientific Laboratory
Post Office Box 1663
Los Alamos, New Mexico 87544

^{10}B, ^{11}B, ^{40}Ca, ^{46}Ca, ^{162}Dy, ^{164}Dy, ^{162}Er, ^{166}Er, ^{167}Er, ^{168}Er, ^{170}Er, ^{58}Fe, ^{155}Gd, ^{157}Gd, ^{158}Gd, ^{160}Gd, ^{72}Ge, ^{73}Ge, ^{178}Hf, ^{179}Hf, ^{180}Hf, ^{40}K, ^{6}Li, ^{7}Li, ^{175}Lu, ^{176}Lu, ^{142}Nd, ^{143}Nd, ^{145}Nd, ^{148}Nd, ^{150}Nd, ^{188}Os, ^{189}Os, ^{190}Os, ^{192}Os, ^{204}Pb, ^{110}Pd, ^{192}Pt, ^{85}Rb, ^{34}S, ^{121}Sb, ^{123}Sb, ^{30}Si, ^{149}Sm, ^{150}Sm, ^{152}Sm, ^{154}Sm, ^{112}Sn, ^{114}Sn, ^{115}Sn, ^{120}Sn, ^{124}Sn, ^{203}Tl, ^{180}W, ^{186}W, ^{168}Yb, ^{174}Yb, ^{91}Zr, ^{92}Zr, ^{94}Zr, ^{96}Zr

California, University of
405 Hilgard Avenue
Los Angeles, California 90024

^{107}Ag, ^{35}Cl, ^{63}Cu, ^{57}Fe

California, University of
Laboratory of Nuclear Medicine
900 Veteran Avenue
Los Angeles, California 90024

^{50}Cr, ^{58}Fe, ^{6}Li, ^{26}Mg, ^{121}Sb, ^{123}Te, ^{46}Ti

California, University of
San Francisco Medical Center
San Francisco, California 94122

^{64}Ni, ^{67}Zn

California, University of
Santa Barbara, California 93106

^{170}Er, ^{153}Eu, ^{156}Gd, ^{157}Gd, ^{158}Gd, ^{160}Gd, ^{154}Sm

Cambridge Nuclear Corporation
131 Portland Street
Cambridge, Massachusetts 02139

^{41}K, ^{86}Sr

Carnegie Institute of Technology
Schenley Park
Pittsburgh, Pennsylvania 15213

^{112}Cd, ^{116}Cd, ^{63}Cu, ^{56}Fe, ^{57}Fe, ^{202}Hg, ^{123}Te, ^{124}Te, ^{125}Te, ^{126}Te, ^{128}Te, ^{130}Te, ^{68}Zn

Carnegie Institution of Washington
Department of Terrestrial Magnetism
5241 Broad Branch Road, N. W.
Washington, D. C. 20015

^{208}Pb, ^{87}Rb, ^{86}Sr

Case Institute of Technology
10900 Euclid Avenue
Cleveland, Ohio 44106

^{162}Dy, ^{164}Dy, ^{166}Er, ^{170}Er, ^{39}K

Catholic University of America
Washington, D. C. 20017

^{10}B

Chicago, University of
1160 East 55th Street
Chicago, Illinois 60615

^{155}Gd, ^{157}Gd, ^{72}Ge, ^{73}Ge, ^{74}Ge, ^{139}La, ^{87}Rb, ^{50}Ti

Children's Hospital of Pittsburgh
125 DeSoto Street
Pittsburgh, Pennsylvania 15213

^{50}Cr, ^{58}Fe

Cincinnati, University of
Cincinnati, Ohio 45221

^{63}Cu, ^{65}Cu, ^{179}Hf, ^{46}Ti

Clark University
Department of Chemistry
Worcester, Massachusetts 01610

^{151}Eu, ^{153}Eu, ^{185}Re

Clark University
Jeppson Laboratory
Worcester, Massachusetts 01610

^{160}Gd

College of William and Mary
Williamsburg, Virginia 23185

^{140}Ce, ^{87}Sr, ^{88}Sr

Connecticut Yankee Atomic Power Company
Box 127E, RR No. 1
East Hampton, Connecticut 06424

^{6}Li

Colorado, University of
Regent Hall, Room 122
Boulder, Colorado 80302

^{106}Cd, ^{110}Cd, ^{35}Cl, ^{37}Cl, ^{102}Pd, ^{29}Si, ^{112}Sn, ^{124}Sn, ^{46}Ti

Columbia University
Box 6, Low Library
116th Street and Broadway
New York, New York 10027

^{134}Ba, ^{135}Ba, ^{138}Ce, ^{140}Ce, ^{142}Ce, ^{63}Cu, ^{54}Fe, ^{57}Fe, ^{160}Gd, ^{199}Hg, ^{40}K, ^{41}K, ^{138}La, ^{6}Li, ^{7}Li, ^{24}Mg, ^{62}Ni, ^{190}Os, ^{102}Pd, ^{85}Rb, ^{76}Se, ^{78}Se, ^{84}Sr, ^{122}Te

Cornell University
Room 160, Day Hall
Ithaca, New York 14850

^{107}Ag, ^{109}Ag, ^{10}B, ^{11}B, ^{134}Ba, ^{63}Cu, ^{113}In, ^{6}Li, ^{7}Li, ^{98}Mo

Dartmouth College
Physics Department
Wilder Laboratory
Hanover, New Hampshire 03755

^{40}K

Dayton, University of
Dayton, Ohio 45409

^{142}Ce, ^{164}Dy, ^{170}Er, ^{202}Hg, ^{139}La, ^{146}Nd, ^{192}Os, ^{87}Rb, ^{185}Re, ^{128}Te, ^{186}W, ^{174}Yb

Douglas Aircraft Company
3000 Ocean Park Blvd.
Santa Monica, California 90405

^{204}Hg, ^{124}Sn

Dow Chemical Company
Rocky Flats Division
Post Office Box 888
Golden, Colorado 80402

^{109}Ag, ^{35}Cl, ^{58}Fe, ^{30}Si, ^{68}Zn

Dow Chemical Company
Post Office Box 191
Midland, Michigan 48640

^{168}Er, ^{18}O

Duke University
Durham, North Carolina 27706

^{10}B, ^{11}B, ^{73}Ge, ^{6}Li, ^{7}Li, ^{24}Mg, ^{30}Si

Edgerton, Germeshausen and Grier, Inc.
Crosby Drive
Bedford, Massachusetts 01730

^{87}Rb

E. I. du Pont de Nemours and Company
Savannah River Plant
Aiken, South Carolina 29802

^{6}Li, ^{146}Nd, ^{18}O

Florida State University
Tallahassee, Florida 32306

^{10}B, ^{11}B, ^{40}Ca, ^{50}Cr, ^{156}Dy, ^{160}Dy, ^{161}Dy, ^{162}Dy, ^{164}Dy, ^{162}Er, ^{166}Er, ^{168}Er, ^{170}Er, ^{153}Eu, ^{54}Fe, ^{154}Gd, ^{156}Gd, ^{160}Gd, ^{177}Hf, ^{41}K, ^{138}La, ^{6}Li, ^{26}Mg, ^{18}O, ^{186}Os, ^{187}Os, ^{28}Si, ^{29}Si, ^{50}Ti, ^{91}Zr

Florida, University of
Gainesville, Florida 32601

^{11}B, ^{12}C, ^{6}Li

Ford Motor Company
Engineering and Research Staff
Post Office Box 204
Dearborn, Michigan 48124

^{57}Fe

Fundamental Methods Associates, Inc.
31 Union Square West
New York, New York 10003

^{113}Cd

General Atomic, A Division of General Dynamics Corporation
Post Office Box 608
San Diego, California 92112

^{10}B, ^{11}B, ^{54}Fe, ^{70}Ge, ^{72}Ge, ^{73}Ge, ^{74}Ge, ^{76}Ge, ^{24}Mg, ^{25}Mg, ^{26}Mg, ^{121}Sb, ^{123}Sb, ^{154}Sm, ^{84}Sr, ^{174}Yb

General Dynamics/Convair
Post Office Box 1708
San Diego, California 92112

^{6}Li, ^{7}Li

General Electric Company
Nuclear Materials and Propulsion Operation
Post Office Box 15132
Cincinnati, Ohio 45215

^{109}Ag, ^{126}Te, ^{128}Te

General Electric Company
Post Office Box 254
San Jose, California 95103

^{10}B, ^{44}Ca, ^{50}Cr, ^{58}Fe, ^{196}Hg, ^{200}Hg, ^{193}Ir, ^{98}Mo, ^{146}Nd, ^{74}Se, ^{112}Sn

General Electric Company
The Knolls
Post Office Box 8
Schenectady, New York 12301

^{63}Cu, ^{57}Fe, ^{69}Ga, ^{115}In, ^{17}O, ^{18}O, ^{205}Tl

General Precision, Inc.
Aerospace Group
1150 McBride Avenue
Little Falls, New Jersey 07424

^{198}Hg, ^{199}Hg, ^{201}Hg, ^{85}Rb, ^{87}Rb

General Radioisotope Processing
3120 Crow Canyon Road
San Ramon, California 94583

^{50}Cr, ^{69}Ga, ^{24}Mg, ^{121}Sb, ^{123}Te, ^{183}W

General Technology Corporation
9610 Bellanca
Los Angeles, California 90045

^{85}Rb, ^{87}Rb

Georgetown University
Department of Physics
Room 506-Reiss Science Center
Washington, D. C. 20007

^{69}Ga, ^{71}Ga, ^{64}Ni

Georgia Institute of Technology
225 North Avenue, N. W.
Atlanta, Georgia 30332

^{151}Eu, ^{6}Li

Georgia, University of
Athens, Georgia 30601

^{207}Pb

Graduate Research Center of
the Southwest
Post Office Box 30365
Dallas, Texas 75230

^{204}Pb, ^{206}Pb, ^{208}Pb, ^{87}Rb

Greg-Gary International Corporation
7 Park Avenue
New York, New York 10016

^{198}Hg, ^{199}Hg, ^{201}Hg, ^{204}Hg

Harshaw Chemical Company
1945 East 97th Street
Cleveland, Ohio 44106

^{10}B, ^{151}Eu, ^{6}Li, ^{7}Li

Harshaw Chemical Company
19200 Villaview Road, N. E.
Cleveland, Ohio 44119

^{153}Eu, ^{6}Li

Harvard University
75 Mount Auburn Street
Cambridge, Massachusetts 02138

^{180}Hf, ^{175}Lu, ^{86}Sr

Haverford College
Haverford, Pennsylvania 19041

^{6}Li, ^{7}Li, ^{92}Mo, ^{96}Mo, ^{100}Mo, ^{80}Se, ^{86}Sr, ^{88}Sr

Hewlett Packard Company
1501 Page Mill Road
Palo Alto, California 94304

^{87}Rb

Howard University
317 Administration Building
Washington, D. C. 20001

^{170}Er

Howard University
Department of Physics
2355 Sixth Street, N. W.
Washington, D. C. 20001

^{161}Dy, ^{160}Gd

Hughes Research Laboratory
3011 Malibu Canyon Road
Malibu, California 90265

^{202}Hg

Idaho Nuclear Corporation
Post Office Box 1845
Idaho Falls, Idaho 83401

^{107}Ag, ^{135}Ba, ^{113}Cd, ^{114}Cd, ^{63}Cu, ^{161}Dy, ^{162}Dy, ^{164}Dy, ^{167}Er, ^{170}Er, ^{58}Fe, ^{155}Gd, ^{156}Gd, ^{157}Gd, ^{73}Ge, ^{177}Hf, ^{178}Hf, ^{6}Li, ^{176}Lu, ^{148}Nd, ^{61}Ni, ^{185}Re, ^{96}Ru, ^{100}Ru, ^{101}Ru, ^{102}Ru, ^{123}Sb, ^{76}Se, ^{77}Se, ^{147}Sm, ^{149}Sm, ^{152}Sm, ^{86}Sr, ^{88}Sr, ^{49}Ti, ^{184}W, ^{186}W, ^{174}Yb, ^{68}Zn, ^{90}Zr, ^{91}Zr

IIT Research Institute
Accounting Department
10 West 35th Street
Chicago, Illinois 60616

^{109}Ag, ^{10}B, ^{6}Li, ^{7}Li

Illinois Institute of Technology
3300 South Federal Street
Chicago, Illinois 60616

^{6}Li, ^{7}Li

Illinois, University of
203 Administration Buildinding
Urbana, Illinois 61801

^{10}B, ^{11}B, ^{48}Ca, ^{52}Cr, ^{53}Cr, ^{65}Cu, ^{161}Dy, ^{162}Dy, ^{170}Er, ^{54}Fe, ^{57}Fe, ^{160}Gd, ^{6}Li, ^{24}Mg, ^{26}Mg, ^{95}Mo, ^{96}Mo, ^{97}Mo, ^{190}Os, ^{192}Os, ^{190}Pt, ^{33}S, ^{78}Se, ^{29}Si, ^{117}Sn, ^{119}Sn, ^{125}Te, ^{128}Te, ^{176}Yb, ^{66}Zn

Illinois Water Treatment Company
840 Cedar Street
Rockford, Illinois 61102

^{6}Li, ^{7}Li

Indiana University
Bloomington, Indiana 47401

^{10}B, ^{164}Dy, ^{158}Gd, ^{160}Gd, ^{176}Yb

Institute of Gas Technology
3424 South State Street
Chicago, Illinois 60616

^{18}O

International Business Machines Corp.
East Fishkill Facility, Route 52
Hopewell Junction, New York 12533

^{10}B

International Business Machines Corp.
Watson Laboratory
12 West 115th Street
New York, New York 10025

^{65}Cu

International Business Machines Corp.
Post Office Box 218
Yorktown Heights, New York 10598

^{57}Fe, ^{202}Hg, ^{204}Hg, ^{6}Li

Ionac Chemical Company
Division of Ritter Pfaudler Corp.
Birmingham, New Jersey

^{7}Li

Iowa State University
Ames Laboratory
Ames, Iowa 50010

^{107}Ag, ^{81}Br, ^{111}Cd, ^{140}Ce, ^{65}Cu, ^{156}Dy, ^{163}Dy, ^{164}Dy, ^{168}Er, ^{153}Eu, ^{158}Gd, ^{160}Gd, ^{179}Hf, ^{180}Hf, ^{199}Hg, ^{202}Hg, ^{175}Lu, ^{176}Lu, ^{92}Mo, ^{94}Mo, ^{95}Mo, ^{96}Mo, ^{97}Mo, ^{98}Mo, ^{100}Mo, ^{142}Nd, ^{150}Nd, ^{108}Pd, ^{185}Re, ^{96}Ru, ^{144}Sm, ^{154}Sm, ^{112}Sn, ^{114}Sn, ^{115}Sn, ^{116}Sn, ^{117}Sn, ^{118}Sn, ^{119}Sn, ^{120}Sn, ^{122}Sn, ^{124}Sn, ^{124}Te, ^{47}Ti, ^{182}W, ^{183}W, ^{184}W, ^{186}W

Iowa, University of
Iowa City, Iowa 52240

^{6}Li, ^{7}Li

Isomet Corporation
433 Commercial Avenue
Palisades Park, New Jersey 07650

^{10}B

Isotopes, Incorporated
50 Van Buren Place
Westwood, New Jersey 07675

^{158}Dy, ^{168}Er, ^{151}Eu, ^{153}Eu, ^{192}Os, ^{204}Pb, ^{207}Pb, ^{187}Re, ^{148}Sm, ^{130}Te, ^{168}Yb

ITT Export Corporation
250 Broadway
New York, New York 10007

^{10}B

ITT Federal Laboratories
500 Washington Avenue
Nutley, New Jersey 07110

^{199}Hg, ^{204}Hg

Johns Hopkins University
Whitehead Hall
Charles and 34th Streets
Baltimore, Maryland 21218

^{10}B, ^{11}B, ^{161}Dy, ^{164}Dy, ^{170}Er, ^{153}Eu, ^{155}Gd, ^{160}Gd, ^{110}Pd, ^{152}Sm, ^{154}Sm, ^{170}Yb, ^{172}Yb, ^{174}Yb, ^{176}Yb

Kansas State Teachers College
No. 53 Physical Science Department
Emporia, Kansas 66802

^{114}Cd

Kansas State University
Manhattan, Kansas 66504

^{138}Ba, ^{162}Er, ^{170}Er

Kansas, University of
Lawrence, Kansas 66044

^{11}B, ^{41}K, ^{6}Li, ^{7}Li, ^{30}Si

Kay-Ray, Inc.
740 East Northwest Highway
Palatine, Illinois 60067

^{10}B

Kentucky, University of
Lexington, Kentucky 40506

^{35}Cl, ^{37}Cl, ^{54}Fe, ^{76}Ge, ^{58}Ni, ^{60}Ni, ^{28}Si, ^{68}Zn

Knolls Atomic Power Laboratory
Post Office Box 1072
Schenectady, New York 12301

^{54}Fe, ^{57}Fe, ^{177}Hf, ^{178}Hf, ^{179}Hf, ^{180}Hf, ^{26}Mg, ^{148}Nd, ^{204}Pb, ^{85}Rb, ^{87}Rb

Laboratory for Science
5431 College Avenue
Oakland, California 94618

^{202}Hg

Lane Wells Company
Post Office Box 1407
Houston, Texas 77001

^{10}B

LND Incorporated
3230 Lawson Boulevard
Oceanside, New York 11672

^{11}B

Lockheed Georgia Company
Nuclear Laboratory
Dawsonville, Georgia 30534

^{17}O

Lockheed Missiles and Space Company
Post Office Box 504
Sunnyvale, California 94088

^{48}Ca, ^{26}Mg, ^{208}Pb

Louisiana State University
Baton Rouge, Louisiana 70803

^{79}Br, ^{140}Ce, ^{50}Cr, ^{151}Eu, ^{153}Eu, ^{158}Gd, ^{179}Hf, ^{146}Nd, ^{185}Re, ^{187}Re, ^{124}Te

Luciano, Mr. Dominick
130 Elmwood Avenue
Staten Island, New York 10308

^{18}O

Mallinckrodt Chemical Works
2703 Wagner Place
Maryland Heights, Missouri 63042

^{84}Sr

Mallinckrodt Chemical Works
Post Office Box 5439
St. Louis, Missouri 63160

^{44}Ca, ^{50}Cr, ^{58}Fe, ^{84}Sr, ^{64}Zn

Martin Company
Middle River, Maryland 21203

^{7}Li

Maryland, University of
College Park, Maryland 20742

^{11}B, ^{6}Li, ^{7}Li

Massachusetts Institute of Technology
Box 69
Cambridge, Massachusetts 02139

^{134}Ba, ^{135}Ba, ^{136}Ba, ^{137}Ba, ^{79}Br, ^{81}Br, ^{106}Cd, ^{108}Cd, ^{110}Cd, ^{111}Cd, ^{112}Cd, ^{113}Cd, ^{114}Cd, ^{116}Cd, ^{142}Ce, ^{65}Cu, ^{167}Er, ^{56}Fe, ^{156}Gd, ^{158}Gd, ^{160}Gd, ^{70}Ge, ^{72}Ge, ^{74}Ge, ^{76}Ge, ^{198}Hg, ^{199}Hg, ^{200}Hg, ^{202}Hg, ^{204}Hg, ^{41}K, ^{6}Li, ^{7}Li,

Massachusetts Institute of Technology continued

^{145}Nd, ^{148}Nd, ^{150}Nd, ^{58}Ni, ^{60}Ni, ^{62}Ni, ^{18}O, ^{188}Os, ^{190}Os, ^{192}Os, ^{104}Pd, ^{108}Pd, ^{110}Pd, ^{194}Pt, ^{195}Pt, ^{196}Pt, ^{198}Pt, ^{185}Re, ^{102}Ru, ^{121}Sb, ^{123}Sb, ^{76}Se, ^{78}Se, ^{80}Se, ^{82}Se, ^{147}Sm, ^{148}Sm, ^{149}Sm, ^{150}Sm, ^{152}Sm, ^{154}Sm, ^{114}Sn, ^{116}Sn, ^{120}Sn, ^{122}Sn, ^{124}Sn, ^{88}Sr, ^{122}Te, ^{126}Te, ^{128}Te, ^{130}Te, ^{47}Ti, ^{50}Ti, ^{182}W, ^{186}W, ^{176}Yb, ^{70}Zn

Massachusetts, University of
Amherst, Massachusetts 01002

^{162}Dy, ^{153}Eu, ^{98}Mo, ^{174}Yb

Michigan State University
East Lansing, Michigan 48823

^{10}B, ^{11}B, ^{81}Br, ^{40}Ca, ^{44}Ca, ^{52}Cr, ^{166}Er, ^{179}Hf, ^{180}Hf, ^{7}Li, ^{24}Mg, ^{17}O, ^{18}O, ^{206}Pb, ^{207}Pb, ^{208}Pb, ^{116}Sn, ^{117}Sn, ^{118}Sn, ^{122}Sn, ^{124}Sn, ^{48}Ti, ^{50}Ti

Michigan, University of
Purchasing Department
3025 Administrative Services Building
Ann Arbor, Michigan 48104

^{43}Ca, ^{35}Cl, ^{69}Ga, ^{6}Li, ^{150}Nd, ^{85}Rb, ^{87}Rb, ^{33}S

Michigan, University of
Purchasing Office
Research Administration Building
Ann Arbor, Michigan 48105

^{130}Ba, ^{138}Ba, ^{40}Ca, ^{46}Ca, ^{140}Ce, ^{37}Cl, ^{162}Dy, ^{170}Er, ^{158}Gd, ^{74}Ge, ^{76}Ge, ^{179}Hf, ^{202}Hg, ^{146}Nd, ^{58}Ni, ^{60}Ni, ^{184}Os, ^{190}Os, ^{192}Os, ^{207}Pb, ^{152}Sm, ^{116}Sn, ^{118}Sn, ^{120}Sn, ^{122}Sn, ^{88}Sr

Minnesota Mining and Mfg. Company
Post Office Box 3121
St. Paul, Minnesota 55101

^{57}Fe, ^{168}Yb

Minnesota, University of
402 Morrill Hall
Minneapolis, Minnesota 55455

^{10}B, ^{135}Ba, ^{140}Ce, ^{50}Cr, ^{52}Cr, ^{54}Cr, ^{166}Er, ^{167}Er, ^{168}Er, ^{170}Er, ^{158}Gd, ^{160}Gd, ^{115}In, ^{41}K, ^{6}Li, ^{208}Pb, ^{87}Rb, ^{76}Se, ^{77}Se, ^{78}Se, ^{80}Se, ^{82}Se, ^{29}Si, ^{30}Si, ^{144}Sm, ^{147}Sm, ^{148}Sm, ^{149}Sm, ^{150}Sm, ^{152}Sm, ^{116}Sn, ^{118}Sn, ^{120}Sn, ^{122}Sn, ^{124}Sn, ^{84}Sr, ^{46}Ti, ^{47}Ti, ^{48}Ti, ^{50}Ti, ^{172}Yb, ^{174}Yb, ^{176}Yb, ^{90}Zr

Missouri at Rolla, University of
General Services Building
Rolla, Missouri 65401

^{57}Fe, ^{6}Li, ^{7}Li

Mobil Oil Corporation
Field Research Laboratory
Post Office Box 900
Dallas, Texas 75221

^{44}Ca, ^{87}Rb

National Aeronautics and Space Administration
575 Technology Square
Cambridge, Massachusetts 02139

^{6}Li

National Aeronautics and Space Administration
Goddard Space Flight Center
Glendale Road
Greenbelt, Maryland 20771

^{11}B, ^{167}Er, ^{157}Gd, ^{73}Ge, ^{138}La, ^{176}Lu, ^{17}O, ^{171}Yb

National Aeronautics and Space Administration
Lewis Research Center
21000 Brookpark Road
Cleveland, Ohio 44135

^{134}Ba, ^{135}Ba, ^{136}Ba, ^{137}Ba, ^{138}Ba, ^{110}Cd, ^{114}Cd, ^{6}Li, ^{7}Li, ^{24}Mg, ^{92}Mo, ^{60}Ni, ^{121}Sb, ^{123}Sb, ^{84}Sr, ^{86}Sr, ^{87}Sr, ^{88}Sr, ^{90}Zr

National Bureau of Standards
Connecticut Avenue and Van Neuss Street, N. W.
Washington, D. C. 20234

^{109}Ag, ^{10}B, ^{11}B, ^{111}Cd, ^{35}Cl, ^{53}Cr, ^{65}Cu, ^{54}Fe, ^{57}Fe, ^{6}Li, ^{58}Ni, ^{61}Ni, ^{62}Ni, ^{206}Pb, ^{85}Rb, ^{87}Rb, ^{34}S, ^{123}Sb, ^{117}Sn, ^{86}Sr, ^{88}Sr, ^{128}Te, ^{203}Tl, ^{66}Zn

National Institute of Health
Building 1, Room 222
Bethesda, Maryland 20014

^{10}B, ^{11}B

Nebraska Wesleyan University
Lincoln, Nebraska 68504

^{116}Cd, ^{142}Ce, ^{190}Os, ^{192}Os, ^{120}Sn

New England Nuclear Corporation
575 Albany Street
Boston, Massachusetts 02118

^{132}Ba, ^{44}Ca, ^{108}Cd, ^{50}Cr, ^{158}Dy, ^{168}Er, ^{54}Fe, ^{56}Fe, ^{57}Fe, ^{58}Fe, ^{58}Ni, ^{62}Ni, ^{192}Pt, ^{118}Sn, ^{119}Sn, ^{120}Sn, ^{124}Sn, ^{84}Sr, ^{87}Sr, ^{124}Te, ^{126}Te, ^{128}Te, ^{130}Te, ^{47}Ti, ^{180}W, ^{184}W, ^{186}W

New York at Buffalo, State University of
3435 Main Street
Buffalo, New York 14214

^{162}Dy, ^{76}Ge, ^{98}Mo

New York at Buffalo, State University of
Carbon Research Laboratory
Buffalo, New York 14214

^{207}Pb, ^{121}Sb, ^{123}Sb

New York, State University of
Research Foundation
Stoney Brook, New York 11790

^{135}Ba, ^{199}Hg

New York Shipbuilding Corporation
Post Office Box 620
Camden, New Jersey

^{7}Li

New York University
22 Waverly Place
New York, New York 10003

^{198}Hg, ^{200}Hg, ^{202}Hg

North American Aviation Science Center
Post Office Box 1085
Thousand Oaks, California 91360

^{57}Fe

North Carolina State University
Post Office Box 5935
Raleigh, North Carolina 27607

^{193}Ir

North Carolina, University of
Chapel Hill, North Carolina 27514

^{44}Ca, ^{26}Mg, ^{30}Si

Northeastern University
360 Huntington Avenue
Boston, Massachusetts 02115

^{136}Ba, ^{138}Ba, ^{88}Sr

Northwestern University
619 Clark Street
Evanston, Illinois

^{10}B, ^{11}B, ^{57}Fe

Notre Dame, University of
Notre Dame, Indiana 46556

^{153}Eu, ^{6}Li, ^{7}Li, ^{144}Sm, ^{147}Sm, ^{150}Sm, ^{172}Yb

Nuclear-Chicago Corporation
333 East Howard Avenue
Des Plaines, Illinois 60018

^{10}B

Nuclear Science and Engineering Corp.
Post Office Box 10901
Pittsburgh, Pennsylvania 15236

^{132}Ba, ^{44}Ca, ^{108}Cd, ^{50}Cr, ^{158}Dy, ^{54}Fe, ^{57}Fe, ^{58}Fe, ^{112}Sn, ^{118}Sn, ^{119}Sn, ^{84}Sr

Oak Ridge National Laboratory
Post Office Box X
Oak Ridge, Tennessee 37830

^{10}B, ^{11}B, ^{130}Ba, ^{136}Ba, ^{79}Br, ^{40}Ca, ^{42}Ca, ^{44}Ca, ^{46}Ca, ^{106}Cd, ^{108}Cd, ^{110}Cd, ^{114}Cd, ^{136}Ce, ^{35}Cl, ^{52}Cr, ^{53}Cr, ^{63}Cu, ^{65}Cu, ^{156}Dy, ^{164}Dy, ^{166}Er, ^{167}Er, ^{168}Er, ^{170}Er, ^{151}Eu, ^{153}Eu, ^{54}Fe, ^{56}Fe, ^{57}Fe, ^{58}Fe, ^{69}Ga, ^{71}Ga, ^{152}Gd, ^{154}Gd, ^{155}Gd, ^{156}Gd, ^{157}Gd, ^{160}Gd, ^{70}Ge, ^{73}Ge, ^{74}Ge, ^{177}Hf, ^{178}Hf, ^{39}K, ^{6}Li, ^{7}Li, ^{176}Lu, ^{24}Mg, ^{25}Mg, ^{26}Mg, ^{92}Mo, ^{94}Mo, ^{96}Mo, ^{98}Mo, ^{100}Mo, ^{143}Nd, ^{144}Nd, ^{145}Nd, ^{146}Nd, ^{148}Nd, ^{58}Ni, ^{60}Ni, ^{61}Ni, ^{62}Ni, ^{64}Ni, ^{17}O, ^{18}O, ^{190}Os, ^{192}Os, ^{204}Pb, ^{206}Pb, ^{207}Pb, ^{208}Pb, ^{108}Pd, ^{192}Pt, ^{195}Pt, ^{185}Re, ^{187}Re, ^{104}Ru, ^{34}S, ^{121}Sb, ^{123}Sb, ^{74}Se, ^{78}Se, ^{30}Si, ^{144}Sm, ^{147}Sm, ^{148}Sm, ^{150}Sm, ^{152}Sm, ^{154}Sm, ^{116}Sn, ^{120}Sn, ^{124}Sn, ^{84}Sr, ^{86}Sr, ^{88}Sr, ^{123}Te, ^{124}Te, ^{126}Te, ^{128}Te, ^{130}Te, ^{46}Ti, ^{47}Ti, ^{48}Ti, ^{50}Ti, ^{182}W, ^{183}W, ^{184}W, ^{186}W, ^{168}Yb, ^{170}Yb, ^{171}Yb, ^{172}Yb, ^{173}Yb, ^{174}Yb, ^{176}Yb, ^{67}Zn, ^{68}Zn, ^{90}Zr, ^{91}Zr ^{92}Zr, ^{94}Zr, ^{96}Zr

Oak Ridge Technical Enterprises Corp.
Post Office Box 3
Oak Ridge, Tennessee 37830

^{10}B

Oberlin College
Physics Department
Oberlin, Ohio 44074

^{6}Li

Ohio State University
190 North Oval Drive
Columbus, Ohio 43210

^{85}Rb, ^{87}Rb, ^{121}Sb, ^{84}Sr, ^{86}Sr

Ohio State University
Research Foundation
1314 Kinnear Road
Columbus, Ohio 43212

^{10}B, ^{11}B

Ohio University
Athens, Ohio 45701

^{148}Sm, ^{150}Sm, ^{154}Sm, ^{119}Sn

Oregon State University
Corvallis, Oregon 97331

^{11}B, ^{6}Li, ^{7}Li

Oregon, University of
Eugene, Oregon 97403

^{24}Mg, ^{62}Ni

Pacific Northwest Laboratory
Post Office Box 999
Richland, Washington 99352

^{135}Ba, ^{44}Ca, ^{142}Ce, ^{164}Dy, ^{151}Eu, ^{153}Eu, ^{174}Hf, ^{6}Li, ^{92}Mo, ^{154}Sm, ^{84}Sr, ^{86}Sr

Pennsylvania State University
University Park, Pennsylvania 16802

^{85}Rb, ^{87}Rb, ^{120}Sn

Pennsylvania, University of
3025 Walnut Street
Philadelphia, Pennsylvania 19104

^{42}Ca, ^{48}Ca, ^{37}Cl, ^{54}Fe, ^{6}Li, ^{26}Mg, ^{92}Mo, ^{94}Mo, ^{58}Ni, ^{60}Ni, ^{62}Ni, ^{64}Ni, ^{18}O, ^{116}Sn, ^{118}Sn, ^{119}Sn, ^{120}Sn, ^{48}Ti, ^{49}Ti, ^{92}Zr

Phillips Petroleum Company
Bartlesville, Oklahoma 74003

^{57}Fe, ^{119}Sn

Pittsburgh Naval Reactors Office
Post Office Box 109
West Mifflin, Pennsylvania 15122

^{44}Ca, ^{113}Cd, ^{140}Ce, ^{164}Dy, ^{170}Er, ^{180}Hf, ^{41}K, ^{26}Mg, ^{142}Nd, ^{207}Pb, ^{122}Sn, ^{47}Ti, ^{176}Yb

Pittsubrgh, University of
Pittsburgh, Pennsylvania 15213

^{107}Ag, ^{109}Ag, ^{134}Ba, ^{135}Ba, ^{136}Ba, ^{137}Ba, ^{138}Ba, ^{44}Ca, ^{114}Cd, ^{140}Ce, ^{52}Cr, ^{63}Cu, ^{65}Cu, ^{56}Fe, ^{57}Fe, ^{178}Hf, ^{115}In, ^{6}Li, ^{7}Li, ^{24}Mg, ^{98}Mo, ^{142}Nd, ^{143}Nd, ^{144}Nd, ^{145}Nd, ^{146}Nd, ^{148}Nd, ^{150}Nd, ^{58}Ni, ^{60}Ni, ^{61}Ni, ^{206}Pb, ^{108}Pd, ^{110}Pd, ^{194}Pt, ^{195}Pt, ^{196}Pt, ^{198}Pt, ^{121}Sb, ^{123}Sb, ^{144}Sm, ^{150}Sm, ^{128}Te, ^{130}Te, ^{176}Yb, ^{64}Zn, ^{66}Zn, ^{68}Zn

Princeton University
Princeton, New Jersey 08540

^{10}B, ^{135}Ba, ^{137}Ba, ^{40}Ca, ^{42}Ca, ^{48}Ca, ^{111}Cd, ^{113}Cd, ^{35}Cl, ^{50}Cr, ^{54}Fe, ^{57}Fe, ^{152}Gd, ^{160}Gd, ^{180}Hf, ^{191}Ir, ^{95}Mo, ^{58}Ni, ^{29}Si, ^{30}Si, ^{116}Sn, ^{117}Sn, ^{118}Sn, ^{119}Sn, ^{180}W

Purdue University
Lafayette, Indiana 47907

^{114}Cd, ^{116}Cd, ^{151}Eu, ^{153}Eu, ^{57}Fe, ^{180}Hf, ^{18}O, ^{190}Os, ^{207}Pb, ^{208}Pb, ^{196}Pt, ^{185}Re, ^{187}Re, ^{121}Sb, ^{116}Sn, ^{168}Yb, ^{172}Yb, ^{174}Yb, ^{182}W, ^{186}W

Quartz Products Corporation
Post Office Box 628
Plainfield, New Jersey 07061

^{7}Li

Rauland Corporation, The
2407 North Avenue
Melrose Park, Illinois 60160

^{6}Li

Rensselaer Polytechnic Institute
110 Eighth Street
Troy, New York 12181

^{41}K, ^{60}Ni, ^{204}Pb, ^{87}Rb, ^{49}Ti

Reuter-Stokes Electronics Components, Inc.
18530 South Miles Parkway
Warrensville Heights
Cleveland, Ohio 44128

^{10}B

Rice University
Post Office Box 2666
Houston, Texas 77001

^{35}Cl, ^{65}Cu, ^{57}Fe, ^{6}Li, ^{24}Mg

Rochester, University of
Rochester, New York 14627

^{40}Ca, ^{42}Ca, ^{44}Ca, ^{114}Cd, ^{35}Cl, ^{37}Cl, ^{50}Cr, ^{57}Fe, ^{39}K, ^{24}Mg, ^{25}Mg, ^{26}Mg, ^{58}Ni, ^{60}Ni, ^{61}Ni, ^{62}Ni, ^{64}Ni, ^{207}Pb, ^{208}Pb, ^{34}S, ^{28}Si, ^{30}Si, ^{119}Sn, ^{46}Ti, ^{50}V, ^{182}W, ^{184}W, ^{186}W, ^{64}Zn

Rutgers — The State University
New Brunswick, New Jersey 08903

^{107}Ag, ^{109}Ag, ^{106}Cd, ^{110}Cd, ^{112}Cd, ^{114}Cd, ^{116}Cd, ^{35}Cl, ^{57}Fe, ^{177}Hf, ^{198}Hg, ^{200}Hg, ^{202}Hg, ^{24}Mg, ^{62}Ni, ^{18}O, ^{188}Os, ^{189}Os, ^{190}Os, ^{192}Os, ^{204}Pb, ^{207}Pb, ^{194}Pt, ^{195}Pt, ^{196}Pt, ^{198}Pt, ^{28}Si, ^{144}Sm, ^{117}Sn, ^{118}Sn, ^{119}Sn, ^{120}Sn, ^{122}Sn, ^{124}Sn, ^{128}Te, ^{130}Te, ^{173}Yb

Sandia Corporation
Post Office Box 5800
Albuquerque, New Mexico 87115

^{170}Er, ^{198}Hg, ^{142}Nd

Semi-Elements, Inc.
Saxonburg Boulevard
Saxonburg, Pennsylvania 16056

^{10}B, ^{11}B, ^{7}Li

Sharpline Spectro-Source
1203 Woodcrest Drive
Downers Grove, Illinois 60515

^{202}Hg

Shell Development Company
1410 45th Street
Emeryville, California 94608

^{57}Fe

South Carolina, University of
Columbia, South Carolina 29208

^{6}Li, ^{7}Li

South West Center for Advanced Studies
Post Office Box 30365
Dallas, Texas 75230

^{41}K, ^{206}Pb, ^{87}Rb, ^{84}Sr

Southern California, University of
University Park
Los Angeles, California 90007

^{10}B, ^{6}Li

Southern Illinois University
Box 524
Edwardsville, Illinois 62025

^{10}B

Stanford Research Institute
Post Office Box 2203
Menlo Park, California 94025

^{7}Li

Stanford University
Post Office Box 4409
Stanford, California 94305

^{109}Ag, ^{10}B, ^{11}B, ^{48}Ca, ^{161}Dy, ^{162}Dy, ^{163}Dy, ^{164}Dy, ^{170}Er, ^{57}Fe, ^{155}Gd, ^{157}Gd, ^{160}Gd, ^{178}Hf, ^{180}Hf, ^{30}Si, ^{125}Te

Sulfur Institute, The
1725 K Street, N. W.
Washington, D. C. 20006

^{34}S

Technical Operations, Inc.
Radiation Products Division
South Avenue
Burlington, Massachusetts 01804

^{168}Yb

Tennessee, University of
Department of Biochemistry
894 Union
Memphis, Tennessee 38103

^{57}Fe

Texaco Inc.
Purchasing Department
2100 Hunters Point Avenue
Long Island City, New York 11101

^{107}Ag, ^{109}Ag

Texas A&M University
Research Foundation
Post Office Box 44
College Station, Texas 77843

^{10}B

Texas Instruments, Inc.
13500 North Central Expressway
Dallas, Texas 75222

^{69}Ga

Texas, University of
Accelerator Laboratory
Engineering Science Building 143
Austin, Texas 78712

^{107}Ag, ^{109}Ag, ^{112}Cd, ^{113}Cd, ^{63}Cu, ^{65}Cu, ^{158}Gd, ^{178}Hf, ^{206}Pb, ^{108}Pd, ^{118}Sn, ^{120}Sn, ^{128}Te, ^{130}Te, ^{90}Zr, ^{91}Zr

Texas, University of
Center for Nuclear Sciences
Austin, Texas 78712

^{107}Ag, ^{109}Ag, ^{92}Mo, ^{154}Sm, ^{86}Sr, ^{92}Zr

Texas, University of
Southwestern Medical School
5323 Harry Hines Boulevard
Dallas, Texas 75235

^{40}K

Tracerlab
1601 Trapelo Road
Waltham, Massachusetts 02154

^{40}K

Tulane University
Tulane University Station
New Orleans, Louisiana 70118

^{54}Cr, ^{166}Er, ^{167}Er, ^{168}Er, ^{170}Er, ^{69}Ga, ^{155}Gd, ^{176}Hf, ^{177}Hf, ^{178}Hf, ^{179}Hf, ^{180}Hf, ^{64}Ni, ^{149}Sm, ^{152}Sm, ^{154}Sm, ^{182}W, ^{184}W, ^{70}Zn

Union Carbide Corporation
Sterling Forest Research Center
Long Meadow Road
Post Office Box 324
Tuxedo, New York 10987

^{44}Ca, ^{116}Cd, ^{50}Cr, ^{63}Cu, ^{158}Dy, ^{58}Fe, ^{158}Gd, ^{160}Gd, ^{196}Hg, ^{112}Sn, ^{84}Sr, ^{126}Te, ^{128}Te, ^{130}Te

United States Air Force
McClellan Air Force Base
California 95652

^{204}Pb

United States Air Force
ASCFC 13, Building 11, Area B
Wright Patterson Air Force Base
Ohio 45433

^{142}Ce, ^{192}Os, ^{29}Si, ^{30}Si, ^{46}Ti

United States Air Force Academy
Box 1000
USAF Academy, Colorado 80840

^{106}Cd, ^{108}Cd

U. S. Army Nuclear Defense Laboratory
Edgewood Arsenal, Maryland 21010

^{10}B, ^{11}B, ^{7}Li

U. S. Department of Interior
Branch of Budget and Finance
Washington, D. C. 20242

^{40}K, ^{41}K

U. S. Naval Base
Charleston Naval Shipyard
Charleston, South Carolina 29408

^{40}K

U. S. Naval Ordnance Laboratory
White Oak
Silver Springs, Maryland 20910

^{6}Li

U. S. Naval Radiological Defense Laboratory
San Francisco, California 94135

^{146}Nd

U. S. Naval Research Laboratory
Washington, D. C. 20390

^{44}Ca, ^{46}Ca, ^{48}Ca, ^{24}Mg, ^{25}Mg, ^{30}Si, ^{50}Ti

U. S. Navy
3100 Maple Drive, N. E.
Atlanta, Georgia 30305

^{7}Li

U. S. Navy
Philadelphia Naval Shipyard
Philadelphia, Pennsylvania 19112

^{7}Li

U. S. Nuclear Corporation
Post Office Box 208
Burbank, California 91503

^{57}Fe

U. S. Public Health Service
Robert A. Taft Sanitary Engineering Center
4676 Columbia Parkway
Cincinnati, Ohio 45226

^{121}Sb, ^{86}Sr

U. S. Steel Corporation
Research Center
Monroeville, Pennsylvania

^{56}Fe, ^{57}Fe, ^{119}Sn

Utah, University of
Purchasing Department
Salt Lake City, Utah 84112

^{112}Cd, ^{114}Cd, ^{116}Cd, ^{54}Fe, ^{6}Li, ^{7}Li, ^{33}S

Vanderbilt University
Nashville, Tennessee 37203

^{79}Br, ^{136}Ce, ^{142}Ce, ^{35}Cl, ^{37}Cl

Varian Associates
611 Hansen Way
Palo Alto, California 94303

^{85}Rb, ^{87}Rb

Veterans Administration
Wilshire and Sawtell Boulevard
Los Angeles, California 90073

^{6}Li

Veterans Administration Hospital
4101 Woolworth Avenue
Omaha, Nebraska 68105

^{65}Cu

Virginia, University of
Cobb Chemical Laboratory
Charlottesville, Virginia 22904

^{6}Li, ^{7}Li

Virginia, University of
Department of Physics
McCormick Road
Charlottesville, Virginia 22904

^{24}Mg, ^{26}Mg, ^{28}Si

Washington State University
Pullman, Washington, 99163

^{10}B, ^{7}Li

Washington University
Lindell and Skinker
St. Louis, Missouri 63130

^{114}Cd, ^{52}Cr, ^{6}Li, ^{7}Li, ^{60}Ni, ^{207}Pb, ^{208}Pb, ^{116}Sn, ^{120}Sn, ^{122}Sn, ^{124}Sn, ^{90}Zr

Washington, University of
3917 University Way, N. E.
Seattle, Washington 98105

^{109}Ag, ^{40}Ca, ^{42}Ca, ^{44}Ca, ^{48}Ca, ^{112}Cd, ^{113}Cd, ^{114}Cd, ^{116}Cd, ^{54}Cr, ^{166}Er, ^{170}Er, ^{54}Fe, ^{56}Fe, ^{58}Fe, ^{160}Gd, ^{72}Ge, ^{73}Ge, ^{7}Li, ^{92}Mo, ^{94}Mo, ^{95}Mo, ^{98}Mo, ^{87}Rb, ^{29}Si, ^{30}Si, ^{144}Sm, ^{114}Sn, ^{124}Sn, ^{205}Tl, ^{172}Yb, ^{176}Yb, ^{64}Zn, ^{67}Zn, ^{91}Zr, ^{92}Zr, ^{94}Zr

Wayne State University
Detroit, Michigan 48202

^{164}Dy, ^{6}Li, ^{152}Sm

Western Michigan University
Kalamazoo, Michigan 49001

^{119}Sn

Western New York Nuclear
Research Center
250 Winspear Avenue
Buffalo, New York 14214

^{6}Li

Western Reserve University
2220 Cummington Road
Cleveland, Ohio 44106

^{107}Ag, ^{108}Cd, ^{110}Cd, ^{157}Gd, ^{189}Os, ^{190}Os, ^{154}Sm, ^{124}Sn, ^{46}Ti

Western Washington State College
Bellingham, Washington 98225

^{7}Li, ^{196}Pt, ^{185}Re, ^{187}Re

Westinghouse Electric Corporation
Post Office Box 284
Elmira, New York 14209

^{10}B, ^{6}Li, ^{7}Li

Westinghouse Electric Corporation
Atomic Power Division
Post Office Box 355
Pittsburgh, Pennsylvania 15230

^{7}Li

Westinghouse Electric Corporation
Research and Development Center
Beulah Road
Churchill Bord
Pittsburgh, Pennsylvania 15235

^{57}Fe

Westinghouse Electric Corporation
Post Office Box 79
West Mifflen, Pennsylvania 15122

^{160}Gd

West Virginia University
Morgantown, West Virginia 26506

^{128}Te

Wisconsin, The University of
Administration Building
750 University Avenue
Madison, Wisconsin 53706

^{10}B, ^{79}Br, ^{81}Br, ^{12}C, ^{35}Cl, ^{37}Cl, ^{57}Fe, ^{6}Li, ^{32}S, ^{33}S, ^{121}Sb, ^{123}Sb, ^{116}Sn, ^{118}Sn, ^{120}Sn

Wood, N., Counter Laboratory
1525 East 53rd Street
Chicago, Illinois 60615

^{10}B, ^{11}B

Woods Hole Oceanographic Institute
Woods Hole, Massachusetts 02543

^{40}K

Wyoming, University of
Physics Department
Laramie, Wyoming 82070

^{63}Cu, ^{65}Cu, ^{60}Ni

Yale University
20 Ashmun Street
New Haven, Connecticut 06520

^{107}Ag, ^{109}Ag, ^{79}Br, ^{48}Ca, ^{110}Cd, ^{112}Cd, ^{114}Cd, ^{50}Cr, ^{52}Cr, ^{53}Cr, ^{54}Cr, ^{63}Cu, ^{65}Cu, ^{56}Fe, ^{41}K, ^{6}Li, ^{24}Mg, ^{25}Mg, ^{26}Mg, ^{92}Mo, ^{94}Mo, ^{95}Mo, ^{96}Mo, ^{97}Mo, ^{98}Mo, ^{100}Mo, ^{186}Os, ^{192}Os, ^{206}Pb, ^{207}Pb, ^{208}Pb, ^{28}Si, ^{116}Sn, ^{117}Sn, ^{118}Sn, ^{119}Sn, ^{120}Sn, ^{122}Sn, ^{124}Sn, ^{86}Sr, ^{87}Sr, ^{88}Sr, ^{126}Te, ^{128}Te, ^{130}Te, ^{47}Ti, ^{49}Ti, ^{64}Zn, ^{66}Zn, ^{68}Zn, ^{90}Zr, ^{91}Zr, ^{92}Zr, ^{94}Zr

Foreign

Algeria

Institut d'Etudes Nucleaires d'Alger
Service Applications Nucleaires
Avenue Franz Fanon
Algiers - (Algeria)

^{118}Sn, ^{120}Sn

Argentina

Buenos Aires, Universidad de
Departmento de Quimia Inorganica
Analitica y Quimica Fisica
Facultad de Ciencias Exastas
y Naturales
Peru 222, Buenos Aires, Argentina

^{57}Fe

Comision Nacional de Energia Atomica
(Gerencia de Energia)
Av. del Libertabor 8250
Buenos Aires, Argentina

^{180}Hf, ^{87}Rb, ^{84}Sr

Australia

Australian Consulate General
636 Fifth Avenue
New York, New York 10020

^{10}B, ^{44}Ca, ^{50}Cr, ^{54}Fe, ^{58}Fe, ^{196}Hg, ^{41}K, ^{7}Li

Australian National University
Post Office Box 4
Canberra, A.C.T., Australia

^{10}B, ^{11}B, ^{40}Ca, ^{42}Ca, ^{140}Ce, ^{37}Cl, ^{50}Cr, ^{52}Cr, ^{54}Cr, ^{63}Cu, ^{164}Dy, ^{170}Er, ^{56}Fe, ^{57}Fe, ^{41}K, ^{6}Li, ^{7}Li, ^{26}Mg, ^{142}Nd, ^{60}Ni, ^{62}Ni, ^{64}Ni, ^{206}Pb, ^{207}Pb, ^{208}Pb, ^{116}Sn, ^{117}Sn, ^{118}Sn, ^{119}Sn, ^{120}Sn, ^{122}Sn, ^{124}Sn, ^{84}Sr, ^{86}Sr, ^{48}Ti, ^{50}Ti, ^{64}Zn, ^{68}Zn

Broken Hill Pty. Co., Ltd.
American Representative
100 Park Avenue, Room 3200
New York, New York 10017

^{29}Si

Melbourne, University of
School of Physics
Parkville N.2, Melbourne
Victoria, Australia

^{10}B, ^{58}Ni, ^{118}Sn

Monash University
Wellington Road
Clayton, Victoria, Australia

^{57}Fe, ^{198}Hg

Austria

Atominstitut der Osterreichische Hochschulen
Schuttelstrasse 115
Wien 2, Austria

^{157}Gd

Osterreichische Akademie der Wissenschaften
Institut fur Radiumforschung und Kernphysik
Boltzmanngasse 3
Wien 9, Austria

^{183}W

Osterreichische Studiengesellschaft fuer Atomenergie Ges. MBH
Lenaugasse 10
1082 Wien, Austria

^{46}Ca, ^{6}Li, ^{96}Ru

Belgium

Bruxelles, Universite Libre de
Service des Achats
Avenue F. D. Roosevelt, 50
Bruxelles 5, Belgium

^{44}Ca, ^{57}Fe, ^{176}Lu, ^{61}Ni

Centre d'Etude d'Energie Nucleaire
144 Avenue Plasky
Brussels 4, Belgium

^{46}Ca, ^{62}Ni, ^{84}Sr

European Atomic Energy Commission
Central Bureau for Nuclear Measurements
Steenweg Naar Retie
Geel, Belgium

^{6}Li

Louvain, Universite de
Centre de Physique Nucleaire
Parc d'Aremberg
Avenue Cardinal Mercier
Heverle-Louvain, Belgium

^{6}Li, ^{33}S

Nils, Albert
266B, Avenue de Tervueren
Brussels, Belgium

^{146}Nd, ^{50}V

Rijksuniversiteit Gent
Natuurkundig Laboratorium
Proeftuinstraat
Gent, Belgium

^{6}Li

Brazil

Catolica, Universidade
Instituto de Fisica
Rua Marques de Sao Vicente 209
ZC 20, Rio de Janeiro, Brazil

^{10}B, ^{11}B, ^{12}C, ^{35}Cl, ^{37}Cl, ^{113}In, ^{115}In, ^{6}Li, ^{7}Li, ^{24}Mg, ^{25}Mg, ^{26}Mg, ^{34}S, ^{28}Si, ^{144}Sm, ^{117}Sn, ^{118}Sn, ^{119}Sn, ^{120}Sn, ^{122}Sn

Sao Paulo, University of
Laboratorio do Betatron
Sao Paulo, Brazil

^{80}Se, ^{112}Sn, ^{124}Sn

Canada

Alberta, University of
Edmonton, Alberta, Canada

^{42}Ca, ^{44}Ca, ^{48}Ca

Atomic Energy of Canada Limited
Chalk River, Ontario, Canada

^{10}B, ^{63}Cu, ^{65}Cu, ^{151}Eu, ^{153}Eu, ^{156}Gd, ^{158}Gd, ^{160}Gd, ^{178}Hf, ^{176}Lu, ^{24}Mg, ^{25}Mg, ^{26}Mg, ^{58}Ni, ^{60}Ni, ^{61}Ni, ^{196}Pt, ^{185}Re, ^{187}Re, ^{182}W, ^{183}W, ^{184}W, ^{186}W

Atomic Energy of Canada Limited
Post Office Box 93
Commercial Products Division
Tunney's Pasture
Ottawa, Ontario, Canada

^{132}Ba, ^{42}Ca, ^{44}Ca, ^{108}Cd, ^{114}Cd, ^{50}Cr, ^{52}Cr, ^{54}Cr, ^{151}Eu, ^{153}Eu, ^{196}Hg, ^{6}Li, ^{104}Ru, ^{112}Sn, ^{118}Sn, ^{84}Sr, ^{46}Ti, ^{48}Ti, ^{50}Ti, ^{168}Yb

Atomic Energy of Canada Limited
Whiteshell Nuclear Research Establishment
Pinawa, Manitoba, Canada

^{10}B

Carleton University
Ottawa 1, Ontario, Canada

^{70}Zn

Du Pont of Canada Limited
Post Office Box 660
Montreal, Quebec, Canada

^{47}Ti

Electronic Associates of Canada Limited
4616 Yonge Street
Willowdale, Ontario, Canada

^{10}B

Geological Survey of Canada
Department of Mines and Technical Surveys
555 Booth Street
Ottawa, Ontario, Canada

^{57}Fe, ^{41}K, ^{84}Sr

Laval, Universite de
Purchasing Department
Cite Universitaire
Quebec 10, P. Q., Canada

^{50}Cr, ^{54}Fe, ^{26}Mg

Layola College
Sherbrooke Street (W)
Montreal, Canada

^{147}Sm

Manitoba, University of
Administrative Building
Fort Garry 19
Winnipeg, Manitoba, Canada

^{63}Cu, ^{65}Cu, ^{58}Ni, ^{62}Ni, ^{206}Pb, ^{87}Rb, ^{86}Sr

McGill University
805 Sherbrooke Street, West
Montreal 2, Quebec, Canada

^{44}Ca, ^{40}K, ^{85}Rb, ^{102}Ru, ^{76}Se, ^{86}Sr, ^{68}Zn

McMaster University
Accounts Payable Department
Business Office
Hamilton, Ontario, Canada

^{110}Cd, ^{138}Ce, ^{140}Ce, ^{142}Ce, ^{167}Er, ^{151}Eu, ^{157}Gd, ^{196}Hg, ^{24}Mg, ^{26}Mg, ^{143}Nd, ^{145}Nd, ^{146}Nd, ^{184}Os, ^{192}Os, ^{208}Pb, ^{96}Ru, ^{98}Ru, ^{99}Ru, ^{100}Ru, ^{104}Ru, ^{77}Se, ^{78}Se, ^{80}Se, ^{144}Sm, ^{148}Sm, ^{149}Sm, ^{150}Sm, ^{154}Sm, ^{112}Sn, ^{122}Sn, ^{124}Sn, ^{171}Yb

Montreal, University of
Post Office Box 6128
Montreal, Canada

^{35}Cl, ^{37}Cl, ^{96}Mo, ^{97}Mo, ^{34}S, ^{96}Zr

National Research Council
Division of Applied Chemistry
Montreal Road Laboratories
Ottawa 7, Ontario, Canada

^{33}S, ^{77}Se

National Research Council
Division of Applied Physics
Ottawa, Ontario, Canada

^{6}Li, ^{7}Li

Nuclear Enterprises Limited
550 Ferry Street
Winnipeg 21, Manitoba, Canada

^{6}Li

Ottawa, University of
57 Laurier East
Ottawa, Ontario, Canada

^{60}Ni

Princess Margaret Hospital
500 Sherbourne Street
Toronto 5, Ontario, Canada

^{6}Li

Saskatchewan, University of
Regina Campus
Regina, Saskatchewan, Canada

^{63}Cu, ^{65}Cu, ^{164}Dy, ^{69}Ga, ^{71}Ga, ^{175}Lu, ^{176}Lu, ^{185}Re, ^{187}Re, ^{121}Sb, ^{123}Sb, ^{144}Sm, ^{147}Sm, ^{148}Sm, ^{149}Sm, ^{150}Sm, ^{152}Sm, ^{154}Sm, ^{168}Yb, ^{170}Yb, ^{171}Yb, ^{172}Yb, ^{173}Yb, ^{174}Yb, ^{176}Yb, ^{90}Zr, ^{91}Zr, ^{92}Zr, ^{94}Zr, ^{96}Zr

Saskatchewan, University of
Saskatoon, Saskatchewan, Canada

^{10}B, ^{6}Li, ^{7}Li

Simon Fraser University
Burnaby 2, B. C., Canada

^{18}O, ^{126}Te, ^{128}Te

Toronto, University of
215 Huron Street
Toronto 5, Ontario, Canada

^{6}Li, ^{25}Mg

China

China Institute in America
125 East 65th Street
New York, New York 10021

^{52}Cr, ^{24}Mg, ^{25}Mg, ^{26}Mg

Denmark

Aarhus, University of
Institute of Chemistry
Aarhus, Denmark

^{118}Sn

Aarhus, University of
Institute of Physics
Aarhus, Denmark

^{162}Er, ^{160}Gd, ^{191}Ir, ^{187}Os, ^{189}Os, ^{192}Os, ^{190}Pt, ^{192}Pt, ^{194}Pt, ^{195}Pt, ^{196}Pt, ^{198}Pt, ^{168}Yb, ^{174}Yb

Atomic Energy Commission
Isotopes Division
Research Establishment Riso
Roskilde, Denmark

^{46}Ca, ^{114}Cd, ^{6}Li, ^{84}Sr, ^{94}Zr

Niels Bohr Institute
Kobenhavns Universitet
Blegdamsvej 17
Kobenhavn O, Denmark

^{114}Cd, ^{153}Eu, ^{24}Mg, ^{26}Mg, ^{142}Nd, ^{207}Pb, ^{185}Re, ^{187}Re, ^{29}Si, ^{154}Sm, ^{46}Ti, ^{48}Ti, ^{50}V

Niels Bohr Institute
Tandem Accelerator Laboratoriet
Riso Pr.
Roskilde, Denmark

^{107}Ag, ^{109}Ag, ^{138}Ba, ^{112}Cd, ^{114}Cd, ^{140}Ce, ^{52}Cr, ^{63}Cu, ^{65}Cu, ^{160}Dy, ^{161}Dy, ^{164}Er, ^{166}Er, ^{167}Er, ^{153}Eu, ^{54}Fe, ^{156}Gd, ^{158}Gd, ^{174}Hf, ^{24}Mg, ^{92}Mo, ^{142}Nd, ^{144}Nd, ^{146}Nd, ^{148}Nd, ^{150}Nd, ^{58}Ni, ^{60}Ni, ^{204}Pb, ^{208}Pb, ^{194}Pt, ^{195}Pt, ^{196}Pt, ^{198}Pt, ^{144}Sm, ^{116}Sn, ^{118}Sn, ^{120}Sn, ^{203}Tl, ^{205}Tl, ^{182}W, ^{183}W, ^{184}W, ^{186}W, ^{170}Yb, ^{171}Yb, ^{172}Yb, ^{64}Zn, ^{66}Zn, ^{90}Zr, ^{91}Zr, ^{92}Zr, ^{94}Zr

Egypt

International Institute of Education
809 United Nations Plaza
New York, New York 10017

^{87}Rb, ^{86}Sr

England

Agricultural Research Council
Radiobiological Laboratory
Leycombe Regis
Wantage, Berkshire, England

^{39}K

Berkeley Nuclear Laboratory
Sudbury House
15 Newgate Street, E. C. 1
London, England

^{7}Li

Birmingham, University of
Department of Physics
Post Office Box 363
Birmingham 15, England

^{196}Pt, ^{119}Sn

Bradford, University of
School of Nuclear Physics
Bradford 7, Yorkshire, England

^{135}Ba, ^{137}Ba, ^{42}Ca, ^{44}Ca, ^{87}Sr, ^{67}Zn

Cambridge, University of
Department of Physics
Cavendish Laboratory
Free School Lane
Cambridge, England

^{7}Li

Cambridge, University of
Department of Geodesy and Geophysics
Madingley Rise, Madingley Road
Cambridge, England

^{41}K, ^{87}Rb, ^{84}Sr

College of Technology
Byrom Street
Liverpool 3, England

^{192}Os

Exeter, The University of
Northcote House
The Queen's Drive
Exeter, Devon, England

^{99}Ru

Leeds, The University of
Department of Earth Sciences
Leeds 2, England

^{87}Rb

Leicester, University of
Department of Chemistry
Leicester, England

^{57}Fe

Liverpool, University of
Chadwick Laboratory
Department of Physics
Mount Pleasant
Liverpool 3, England

^{114}Cd

Liverpool, University of
Nuclear Physics Department
Liverpool 3, England

^{50}Cr, ^{52}Cr, ^{50}Ti

London, University of
King's College
Strand, W. C. 2, London, England

^{144}Sm, ^{148}Sm, ^{150}Sm, ^{152}Sm, ^{154}Sm, ^{70}Zn

Manchester University
Oxford Road
Manchester 13, England

^{42}Ca, ^{44}Ca, ^{160}Gd, ^{179}Hf, ^{175}Lu, ^{45}Sc, ^{90}Zr, ^{91}Zr, ^{92}Zr, ^{94}Zr, ^{96}Zr

Oxford University
Clarendon Laboratory
Parks Road
Oxford, England

^{161}Dy, ^{163}Dy, ^{144}Nd

Plessey Company, Ltd., The
Sopers Lane
Poole, Dorset, England

^{10}B

Sussex, University of
Stanmer House
Brighton, Sussex, England

^{180}Hf, ^{194}Pt, ^{185}Re, ^{184}W

United Kingdom Treasury and
Supply Delegation
25 Broadway
New York, New York 10004

^{10}B, ^{130}Ba, ^{132}Ba, ^{136}Ba, ^{138}Ba, ^{40}Ca, ^{44}Ca, ^{46}Ca, ^{110}Cd, ^{112}Cd, ^{114}Cd, ^{116}Cd, ^{50}Cr, ^{53}Cr, ^{54}Cr, ^{54}Fe, ^{57}Fe, ^{58}Fe, ^{71}Ga, ^{152}Gd, ^{196}Hg, ^{7}Li, ^{176}Lu, ^{95}Mo, ^{97}Mo, ^{98}Mo, ^{144}Nd, ^{61}Ni, ^{192}Pt, ^{196}Pt, ^{198}Pt, ^{187}Re, ^{102}Ru, ^{104}Ru, ^{30}Si, ^{144}Sm, ^{115}Sn, ^{118}Sn, ^{84}Sr, ^{203}Tl, ^{205}Tl, ^{184}W, ^{172}Yb, ^{176}Yb, ^{67}Zn, ^{68}Zn, ^{94}Zr

University Chemical Laboratory
Lensfield Road
Cambridge, England

^{18}O

Finland

Helsinki, Technical University of
Department of Technical Physics
Otaniem
Helsinki, Finland

^{114}Cd, ^{116}Cd, ^{160}Gd, ^{96}Zr

Helsinki, University of
Department of Physics
Siltavuorenpenger 20C
Helsinki 17, Finland

^{161}Dy, ^{164}Dy, ^{158}Gd, ^{160}Gd, ^{191}Ir, ^{193}Ir, ^{104}Pd, ^{106}Pd, ^{108}Pd, ^{116}Sn, ^{118}Sn, ^{119}Sn, ^{120}Sn, ^{122}Sn, ^{124}Sn, ^{126}Te, ^{128}Te, ^{130}Te, ^{176}Yb

France

C. E. A. New York Office
972 Fifth Avenue
New York, New York 10021

^{109}Ag, ^{11}B, ^{135}Ba, ^{137}Ba, ^{40}Ca, ^{42}Ca, ^{44}Ca, ^{110}Cd, ^{112}Cd, ^{114}Cd, ^{116}Cd, ^{136}Ce, ^{142}Ce, ^{50}Cr, ^{52}Cr, ^{53}Cr, ^{54}Cr, ^{161}Dy, ^{166}Er, ^{168}Er, ^{170}Er, ^{54}Fe, ^{58}Fe, ^{160}Gd, ^{174}Hf, ^{177}Hf, ^{178}Hf, ^{196}Hg, ^{113}In, ^{41}K, ^{138}La, ^{6}Li, ^{7}Li, ^{175}Lu, ^{176}Lu, ^{26}Mg, ^{92}Mo, ^{95}Mo, ^{100}Mo, ^{148}Nd, ^{150}Nd, ^{58}Ni, ^{60}Ni, ^{61}Ni, ^{62}Ni, ^{206}Pb, ^{207}Pb, ^{208}Pb, ^{187}Re, ^{34}S, ^{121}Sb, ^{123}Sb, ^{74}Se, ^{82}Se, ^{30}Si, ^{154}Sm, ^{112}Sn, ^{118}Sn, ^{124}Sn, ^{86}Sr, ^{87}Sr, ^{122}Te, ^{124}Te, ^{126}Te, ^{128}Te, ^{130}Te, ^{46}Ti, ^{48}Ti, ^{50}Ti, ^{203}Tl, ^{205}Tl, ^{168}Yb, ^{171}Yb, ^{172}Yb, ^{173}Yb, ^{174}Yb, ^{176}Yb, ^{66}Zn, ^{90}Zr, ^{91}Zr, ^{92}Zr, ^{94}Zr, ^{96}Zr

C. N. R. S. New York Office
972 Fifth Avenue
New York, New York 10021

^{107}Ag, ^{10}B, ^{11}B, ^{12}C, ^{40}Ca, ^{44}Ca, ^{48}Ca, ^{106}Cd, ^{108}Cd, ^{110}Cd, ^{112}Cd, ^{136}Ce, ^{138}Ce, ^{140}Ce, ^{142}Ce, ^{37}Cl, ^{164}Dy, ^{166}Er, ^{170}Er, ^{151}Eu, ^{153}Eu, ^{57}Fe, ^{58}Fe, ^{180}Hf, ^{199}Hg, ^{39}K, ^{41}K, ^{6}Li, ^{7}Li, ^{24}Mg, ^{26}Mg, ^{110}Pd, ^{194}Pt, ^{87}Rb, ^{33}S, ^{30}Si, ^{152}Sm, ^{154}Sm, ^{112}Sn, ^{118}Sn, ^{119}Sn, ^{120}Sn, ^{122}Sn, ^{126}Te, ^{128}Te, ^{46}Ti, ^{48}Ti, ^{64}Zn, ^{66}Zn, ^{70}Zn

Cie pour l'Etude et la Realisation
der Combustibles Atomiques
41 Avenue Montaione
Paris 8E, France

^{11}B

Comptoirs Imex France
2 Rue Navoiseau
Montreuil Seine, France

^{10}B

Faculte des Sciences
9 Quei Saint Bernad
75 Paris 5EME, France

^{41}K, ^{207}Pb, ^{87}Rb, ^{84}Sr

Germany

American Hoechst Corporation
777 Third Avenue
New York, New York 10017

^{196}Hg, ^{84}Sr, ^{68}Zn

Bender and Hobein GMBH
Lindwurmstrasse 71
8 Munchen 15, Germany

^{6}Li

Berlin, Technische Universitat
II. Physikalisches Institut
Hardenbergstrasse 34
Berlin-Charlottenburg 2, Germany

^{185}Re, ^{187}Re

Braunschweig, Der Technischen
Hochschule
IM Institut fur Anorganische Chemie
Pockelsstrasse 4
33 Braunschweig, Germany

^{6}Li

Buchler and Company
Frankfurter Strasse 294
33 Braunschweig, Germany

^{10}B, ^{170}Er, ^{57}Fe, ^{7}Li, ^{192}Os,
^{206}Pb, ^{108}Pd, ^{87}Rb, ^{185}Re,
^{29}Si, ^{84}Sr, ^{172}Yb

Buchler and Company
Buro Frankfurt/Main
Untermainkai 34
6 Frankfurt/Main 1, Germany

^{50}Cr, ^{57}Fe, ^{180}Hf, ^{40}K, ^{6}Li, ^{7}Li,
^{146}Nd, ^{18}O, ^{206}Pb, ^{207}Pb, ^{208}Pb,
^{112}Sn, ^{124}Te, ^{126}Te, ^{68}Zn

Darmstadt, Der Technischen Hochschule
Institut fur Technische Kernphysik
Schlossgartenstrasse 9
61 Darmstadt, Germany

^{63}Cu, ^{170}Er, ^{157}Gd, ^{158}Gd, ^{160}Gd,
^{142}Nd, ^{61}Ni, ^{150}Sm, ^{154}Sm, ^{173}Yb

Darmstadt E. V., Vereinigung von
Freuden der Technischen Hochschule
Frankfurterstrasse 250
61 Darmstadt, Germany

^{166}Er, ^{167}Er, ^{170}Er, ^{151}Eu, ^{153}Eu,
^{142}Nd, ^{150}Nd

Deutsches Krebsforschungszentrum
Institut fur Nuklearmedizin
Berliner Strasse 21
6900 Heidelberg, Germany

^{134}Ba, ^{110}Cd, ^{114}Cd, ^{6}Li, ^{110}Pd,
^{84}Sr, ^{86}Sr

Erlangen-Nurnberg, Der Universitat
Physikalisches Institut
Erwin-Rommel-Strasse 1
8520 Erlangen, Germany

^{10}B, ^{6}Li, ^{7}Li, ^{61}Ni

Erlangen-Nurnberg, Der Universitat
Physikalisches Institut
Gluckstrasse 6
8520 Erlangen, Germany

^{35}Cl, ^{37}Cl

Erlangen-Nurnberg, Der Universitat
Physikalisches Institut
Gluckstrasse 10
8520 Erlangen, Germany

^{166}Er, ^{156}Gd, ^{73}Ge

Erlangen-Nurnberg, Tandemlabor des
Physik Instituts der Universitat
Erwin-Rommel-Str. 1
Fernruf 87071 Neb. St. 1515
8520 Erlangen, Germany

^{11}B, ^{138}Ba, ^{140}Ce, ^{88}Sr, ^{90}Zr
^{92}Zr, ^{94}Zr

European Atomic Energy Commission
Transuranium Institute
P. O. Box 452
75 Karlsruhe, West Germany

^{136}Ce, ^{138}Ce

Freiburg/Brsg., Der Universitat
Physikalisches Institut
Hermann Herder Strasse 3
7800 Freiburg/Brsg., Germany

^{162}Dy, ^{163}Dy, ^{166}Er, ^{167}Er,
^{170}Er, ^{151}Eu, ^{153}Eu, ^{155}Gd,
^{160}Gd, ^{178}Hf, ^{188}Os, ^{190}Os,
^{192}Os, ^{185}Re, ^{187}Re, ^{152}Sm,
^{182}W, ^{184}W, ^{186}W, ^{171}Yb, ^{174}Yb,
^{176}Yb

Gesellschaft fur Kernforschung MBH
Isotopenstelle
Weberstrasse 5
75 Karlsruhe, Germany

^{54}Fe, ^{58}Fe, ^{201}Hg, ^{6}Li, ^{95}Mo,
^{58}Ni, ^{204}Pb, ^{147}Sm, ^{70}Zn

Goettingen, Der Universitat
Zweites Physikalisches Institut
Bunsenstrasse 7-9
34 Goettingen, Germany

^{54}Fe, ^{92}Mo, ^{95}Mo, ^{122}Te

Hahn-Meitner Institut fur Kernforschung
Berlin Sekton Kernphysik
Glienicker Strasse 100
1 Berlin 39, West Germany

^{42}Ca, ^{37}Cl, ^{167}Er, ^{57}Fe, ^{6}Li, ^{26}Mg,
^{94}Mo, ^{95}Mo, ^{96}Mo, ^{98}Mo, ^{100}Mo,
^{58}Ni, ^{60}Ni, ^{62}Ni, ^{18}O, ^{78}Se, ^{80}Se,
^{82}Se, ^{30}Si, ^{116}Sn, ^{171}Yb, ^{90}Zr,
^{91}Zr, ^{92}Zr, ^{94}Zr

Heidelberg, Der Universitat
Physikalisches Institut
Philosophenweg 12
69 Heidelberg, Germany

^{10}B, ^{43}Ca, ^{113}In, ^{6}Li, ^{85}Rb, ^{87}Rb

Heidelberg, Der Universitat
Physiologisches Institut
Akademiestrasse 3
Heidelberg, Germany

^{41}K

Institut fur Elektrowerkstoffe
Eckerstrasse 4
78 Freiburg, West Germany

^{47}Ti

Isotopen-Laboratorium
Harfstrasse 148
P. O. Box 70
4 Dusseldorf-Eller, West Germany

^{10}B

Johannes Gutenberg Universitat Mainz
Institut fur Anorganische Chemie
und Kernchemie
Mainz am Rhein, Germany

^{116}Cd, ^{154}Sm, ^{126}Te

Johannes Gutenberg Universitat Mainz
Institut fur Kernphysik
Saarstrasse 21
6500 Mainz, Germany

^{6}Li

Kernforschunosanlage Julich
Des Landes Nordrhein-Westfalen E.V.
Finanzabteiling
Postfach 365
517 Julich, West Germany

^{46}Ca, ^{48}Ca, ^{58}Fe, ^{41}K, ^{6}Li, ^{184}Os, ^{29}Si, ^{86}Sr

Laboratorium
Calmbacher Strasse 22
Postfach 160
7547 Wildbad/Schwarzwald, Germany

^{10}B

Marburg, Der Universitat
Physikalisches Institut
Renthof 5
355 Marburg/Lahn, Germany

^{162}Dy, ^{164}Dy, ^{166}Er, ^{170}Er, ^{57}Fe, ^{155}Gd, ^{158}Gd, ^{160}Gd, ^{150}Nd, ^{184}Os, ^{74}Se, ^{154}Sm, ^{117}Sn

Max Planck Institut fur Chemie
(Otto-Hahn Institut)
Saahstrasse 23
65 Mainz, West Germany

^{6}Li

Max Planck Institut fur Kernphysik
Postfach 1248
Saupfercheckweg
69 Heidelberg, Germany

^{10}B, ^{137}Ba, ^{110}Cd, ^{112}Cd, ^{114}Cd, ^{140}Ce, ^{142}Ce, ^{50}Cr, ^{166}Er, ^{168}Er, ^{54}Fe, ^{56}Fe, ^{41}K, ^{24}Mg, ^{25}Mg, ^{26}Mg, ^{94}Mo, ^{142}Nd, ^{144}Nd, ^{62}Ni, ^{204}Pb, ^{207}Pb, ^{30}Si, ^{144}Sm, ^{148}Sm, ^{150}Sm, ^{154}Sm, ^{116}Sn, ^{118}Sn, ^{120}Sn, ^{122}Sn, ^{84}Sr, ^{130}Te, ^{47}Ti, ^{50}Ti, ^{172}Yb, ^{174}Yb, ^{66}Zn, ^{91}Zr, ^{94}Zr

Max Planck Institut fur Kohlenforschung
Kaiser-Wilhelmplatz 1
433 Mulheim Ruhr, West Germany

^{10}B, ^{11}B

Munchen, Der Technischen Hochschule
Forschungstelle fur Geochemie
Institut fur Mineralogie
Munchen, Germany

^{84}Sr

Munchen, Der Technischen Hochschule
Physik-Department
Arcisstrasse 21
8 Munchen 2, Germany

^{109}Ag, ^{10}B, ^{162}Dy, ^{164}Dy, ^{166}Er, ^{151}Eu, ^{157}Gd, ^{199}Hg, ^{113}In, ^{6}Li, ^{7}Li, ^{175}Lu, ^{144}Nd, ^{145}Nd, ^{188}Os, ^{189}Os, ^{192}Os, ^{110}Pd, ^{190}Pt, ^{99}Ru, ^{149}Sm, ^{154}Sm, ^{119}Sn, ^{124}Te, ^{125}Te, ^{126}Te, ^{50}V, ^{180}W, ^{183}W, ^{170}Yb

Physikalisches Staatsinstitut
I. Institut fur Experimentalphysik
Jungiusstrasse 9
2 Hamburg 36, Germany

^{46}Ti, ^{48}Ti

Physikalisches Staatsinstitut
II. Institut fur Experimentalphysik
Luruper Chaussee 149
2000 Hamburg 50
Bahrenfeld, Germany

^{106}Cd, ^{136}Ce, ^{37}Cl, ^{167}Er, ^{54}Fe, ^{179}Hf, ^{40}K, ^{6}Li, ^{95}Mo, ^{192}Os, ^{108}Pd, ^{194}Pt, ^{29}Si, ^{150}Sm, ^{152}Sm, ^{49}Ti, ^{168}Yb, ^{170}Yb, ^{174}Yb, ^{176}Yb

Rohde and Schwarz Sales Company
(USA), Inc.
111 Lexington Avenue
Passaic, New Jersey

^{87}Rb

Rothohg, Messrs. Carl
Scmoemperlenstrasse 3
7500 Karlsruhe, Germany

^{7}Li

Stuttgart, Der Technischen
Hochschule
II. Physikalisches Institut
Azenbergerstrasse 12
7 Stuttgart 1, Germany

^{6}Li

Greece

Greek Atomic Energy Commission
N.R.C. Democritus
Aghia Paraskevi Attikis
Athens, Greece

^{57}Fe

India

Atomic Energy Establishment Trombay
Purchase Division
Third Floor Mohatta Building
Palton Road
Bombay 1, India

^{57}Fe, ^{145}Nd, ^{118}Sn, ^{180}W, ^{168}Yb

Bhabha Atomic Research Centre
Mohatta Building
Palton Road
Bombay 1, India

^{58}Fe, ^{160}Gd, ^{178}Hf, ^{6}Li, ^{98}Mo, ^{18}O, ^{120}Sn, ^{176}Yb

Panjab University
Chandigarh, India

^{87}Rb, ^{86}Sr

Saha Institute of Nuclear Physics
The Registrar
92 Acharya Prafullo Chandra Road
Calcutta 9, India

^{180}Hf

Tata Institute of Fundamental Research
Holiday Camp, Colaba
Bombay 5, India

^{10}B, ^{176}Hf, ^{178}Hf, ^{180}Hf, ^{85}Rb, ^{123}Sb, ^{149}Sm, ^{150}Sm, ^{154}Sm

Ireland

University College
Cork, Ireland

^{119}Sn

Israel

Government of Israel
Ministry of Defense
850 Third Avenue, Suite 607
New York, New York

^{161}Dy, ^{162}Dy, ^{155}Gd, ^{157}Gd, ^{176}Hf, ^{177}Hf, ^{179}Hf, ^{6}Li, ^{46}Ti, ^{47}Ti, ^{49}Ti, ^{50}Ti

Hebrew University of Jerusalem, The
Jerusalem, Israel

^{42}Ca, ^{44}Ca, ^{48}Ca, ^{35}Cl, ^{50}Cr, ^{63}Cu, ^{161}Dy, ^{170}Er, ^{54}Fe, ^{56}Fe, ^{155}Gd, ^{157}Gd, ^{70}Ge, ^{72}Ge, ^{73}Ge, ^{76}Ge, ^{58}Ni, ^{189}Os, ^{192}Os, ^{190}Pt, ^{198}Pt, ^{76}Se, ^{77}Se, ^{78}Se, ^{82}Se, ^{152}Sm, ^{122}Te, ^{124}Te, ^{126}Te, ^{128}Te, ^{168}Yb, ^{172}Yb, ^{173}Yb, ^{64}Zn, ^{66}Zn, ^{68}Zn, ^{96}Zr

Technion — Israel Institute of Technology
P. O. Box 4910
Haifa, Israel

^{92}Mo

Italy

Centre Commun de Rechersches (CCR)
Euratom
Sezione Doganale d'Ispra
Ispra (Varese), Italy

^{57}Fe, ^{6}Li, ^{7}Li

Centro Studi Nucleari Enrico
Fermi (CESNEF)
Politecnico di Milano
Via Pascal
3-Milano, Italy

^{138}Ce, ^{126}Te, ^{128}Te, ^{130}Te

Contratto di Ricera
Euratom – CNEN
Gruppo di Firenze
Largo Enrico Fermi
2 Arcetri, Firenze, Italy

^{162}Dy, ^{164}Dy, ^{168}Er, ^{180}Hf, ^{150}Nd, ^{144}Sm, ^{49}Ti, ^{50}Ti, ^{67}Zn

Istituto di Fisica Gruppo RG
Piazza Torricelli, 2
Pisa, Italy

^{135}Ba, ^{137}Ba, ^{138}Ba, ^{43}Ca, ^{200}Hg, ^{201}Hg, ^{202}Hg, ^{204}Hg, ^{6}Li, ^{24}Mg, ^{25}Mg, ^{87}Sr, ^{88}Sr, ^{67}Zn

Istituto di Fisica Sperimentale
Del Politecnico di Torino
C. So Duea Deoli Abruzzi 24
Torino, Italy

^{63}Cu

Istituto Nazionale di Fisica
Nucleare
Sottosezione di Firenze
Largo Enrico Fermi
2 Arcetri, Firenze, Italy

^{25}Mg

Italian Economic Corporation, The
25 West 51st Street
New York, New York 10019

^{50}Cr, ^{52}Cr, ^{53}Cr, ^{54}Cr, ^{178}Hf, ^{92}Mo, ^{87}Rb, ^{149}Sm, ^{88}Sr, ^{48}Ti, ^{90}Zr

Japan

Japan Radioisotope Association
28 Hon-Komagome 2-Chome
Bunkyo-Ku
Tokyo, Japan

^{107}Ag, ^{109}Ag, ^{10}B, ^{11}B, ^{138}Ba, ^{79}Br, ^{81}Br, ^{42}Ca, ^{106}Cd, ^{110}Cd, ^{111}Cd, ^{112}Cd, ^{114}Cd, ^{140}Ce, ^{142}Ce, ^{50}Cr, ^{52}Cr, ^{53}Cr, ^{65}Cu, ^{164}Dy, ^{168}Er, ^{170}Er, ^{151}Eu, ^{153}Eu, ^{54}Fe, ^{56}Fe, ^{57}Fe, ^{58}Fe, ^{69}Ga, ^{154}Gd, ^{156}Gd, ^{157}Gd, ^{158}Gd, ^{160}Gd, ^{76}Ge, ^{178}Hf, ^{196}Hg, ^{191}Ir, ^{193}Ir, ^{6}Li, ^{7}Li, ^{175}Lu, ^{176}Lu, ^{24}Mg, ^{25}Mg, ^{26}Mg, ^{94}Mo, ^{96}Mo, ^{98}Mo, ^{100}Mo, ^{142}Nd, ^{144}Nd, ^{145}Nd, ^{150}Nd, ^{58}Ni, ^{60}Ni, ^{61}Ni, ^{62}Ni, ^{64}Ni, ^{206}Pb, ^{207}Pb, ^{106}Pd, ^{108}Pd, ^{110}Pd, ^{198}Pt, ^{85}Rb, ^{87}Rb, ^{185}Re, ^{33}S, ^{121}Sb, ^{123}Sb, ^{29}Si, ^{147}Sm, ^{148}Sm, ^{152}Sm, ^{116}Sn, ^{117}Sn, ^{118}Sn, ^{119}Sn, ^{120}Sn, ^{124}Sn, ^{86}Sr, ^{126}Te, ^{128}Te, ^{130}Te, ^{49}Ti, ^{203}Tl, ^{205}Tl, ^{186}W, ^{173}Yb, ^{174}Yb, ^{176}Yb, ^{68}Zn, ^{70}Zn, ^{90}Zr, ^{94}Zr, ^{96}Zr

Mitsubishi International Corporation
277 Park Avenue
New York, New York 10017

^{10}B, ^{111}Cd, ^{54}Cr, ^{56}Fe, ^{24}Mg, ^{58}Ni, ^{123}Sb, ^{128}Te, ^{130}Te, ^{176}Yb, ^{90}Zr

Sumitomo Shoji New York, Inc.
277 Park Avenue, 25th Floor
New York, New York 10017

^{10}B

Mexico

Comision Nacional de Energia Nuclear
Laboratorio de Dilucion
Miguel Angel de Quevedo 530
Mexico 21, D. F., Mexico

^{10}B

Netherlands

Academical Hospital of the
State University
Central Isotope Laboratory
Oostersingel 59
Groningen, Holland, Netherlands

^{67}Zn

Centrale voor Zieningsdienst
der Gemeente Amsterdam
Van Reigersbergenstraat 2
Amsterdam-W, Netherlands

^{156}Dy, ^{158}Dy, ^{160}Dy, ^{161}Dy, ^{162}Dy, ^{163}Dy, ^{142}Nd, ^{150}Nd

FOM-Institute for Atomic and
Molecular Physics
Kruislaan 407
Amsterdam, Netherlands

^{6}Li, ^{7}Li

Institute for Atomic Sciences
in Agriculture
Postbus 48
Keyenbergseweg 6, Wageningen
Netherlands

^{7}Li

Instituut voor Kernfysisch Onderzoek
Oosterringdijk 18
Amsterdam, Netherlands

^{106}Cd, ^{162}Er, ^{69}Ga, ^{70}Ge, ^{92}Mo, ^{198}Pt, ^{96}Ru, ^{112}Sn, ^{180}W, ^{182}W

Philips-Duphar, N. V.
Post Office Box 7006
Apollolaan 151
Amsterdam, Holland, Netherlands

^{50}Cr, ^{58}Fe, ^{196}Hg, ^{6}Li, ^{98}Mo, ^{112}Sn

Rijksinkoopbureau
Netherlands Government
Purchasing Office
55A Laan Van Meerdervoort
The Hague, Holland, Netherlands

^{142}Ce, ^{35}Cl, ^{37}Cl, ^{63}Cu, ^{76}Ge,

Rijksinkoopbureau
continued

^{113}In, ^{41}K, ^{6}Li, ^{24}Mg, ^{25}Mg, ^{26}Mg, ^{98}Mo, ^{142}Nd, ^{150}Nd, ^{190}Os, ^{110}Pd, ^{196}Pt, ^{87}Rb, ^{34}S, ^{144}Sm, ^{120}Sn, ^{84}Sr, ^{86}Sr, ^{168}Yb

Stichting F. O. M. Werkgroep VS-G
P/A Solid State Physics Laboratory
1 Melkweg
Groningen, Netherlands

^{57}Fe

New Zealand

Anglo African Shipping Company
of New York, Inc.
16 East 34th Street
New York, New York 10016

^{198}Hg

New Zealand Embassy
Office of the Minister (Commercial)
1145 – 19th Street
Washington, D. C. 20036

^{34}S

Norway

Institutt for Atomenergi
Post Office Box 40
Kjeller, Norway

^{10}B, ^{11}B, ^{142}Ce, ^{161}Dy, ^{170}Er, ^{151}Eu, ^{153}Eu, ^{157}Gd, ^{138}La, ^{145}Nd, ^{87}Rb, ^{185}Re, ^{149}Sm, ^{84}Sr, ^{86}Sr, ^{168}Yb, ^{173}Yb, ^{174}Yb, ^{176}Yb

Pakistan

Atomic Energy Centre
Ferozepur Road
Lahore, Pakistan

^{6}Li, ^{7}Li

Puerto Rico

Puero Rico, University of
Puerto Rico Nuclear Center
College Station
Mayaguez, Puerto Rico

^{180}Hf, ^{32}S, ^{120}Sn

Scotland

Glasgow, University of
Glasgow, W.2. Scotland

^{40}K

South Africa

Caldwell and Company, Inc.
17 Battery Place
New York, New York 10004

^{10}B, ^{11}B, ^{177}Hf, ^{179}Hf, ^{24}Mg, ^{92}Mo, ^{94}Mo, ^{96}Mo, ^{98}Mo, ^{100}Mo, ^{58}Ni, ^{60}Ni, ^{61}Ni, ^{62}Ni, ^{208}Pb, ^{144}Sm, ^{147}Sm, ^{148}Sm, ^{149}Sm, ^{150}Sm, ^{152}Sm, ^{154}Sm, ^{88}Sr, ^{64}Zn, ^{66}Zn

Embassy for the Republic of
South Africa
3101 Massachusetts Avenue
Washington, D. C.

^{6}Li, ^{7}Li, ^{118}Sn

Southern Universities Nuclear
Institute
Post Office Box 17
Faure. C. P., South Africa

^{40}Ca, ^{42}Ca, ^{43}Ca, ^{44}Ca, ^{48}Ca, ^{25}Mg, ^{26}Mg, ^{28}Si, ^{29}Si, ^{30}Si

Witwatersrand, University of
Jan Smuts Avenue
Johannesburg, South Africa

^{11}B, ^{7}Li, ^{148}Sm

Sweden

Aktiebolaget Atomenergi
Fack
Nykoping, Sweden

^{11}B

Aktiebolaget Atomenergi
Studsvik
Nykoping, Sweden

^{10}B, ^{46}Ca, ^{50}Cr, ^{54}Fe, ^{57}Fe, ^{58}Fe, ^{152}Gd, ^{160}Gd, ^{74}Ge, ^{196}Hg, ^{202}Hg, ^{139}La, ^{94}Mo, ^{98}Mo, ^{150}Nd, ^{85}Rb, ^{87}Rb, ^{152}Sm, ^{112}Sn, ^{84}Sr, ^{86}Sr, ^{88}Sr, ^{184}W, ^{174}Yb

Chalmers University of Technology
Department of Physics
Gibraltargatan 5B
Gothenburg, Sweden

^{42}Ca, ^{43}Ca, ^{44}Ca, ^{41}K, ^{6}Li, ^{25}Mg

Forskningsinstituet for Atomfysik
Stockholm 50, Sweden

^{64}Zn, ^{66}Zn, ^{68}Zn

Forskningsradens Laboratorium
Studsvik, Nykoping, Sweden

^{113}Cd, ^{166}Er, ^{167}Er, ^{170}Er, ^{192}Os, ^{168}Yb

Gothenburg, University of
Department of Biochemistry
Gibraltargatan 5A
Goteborg S, Sweden

^{63}Cu, ^{65}Cu

Gothenburg, University of
Department of Medical Biochemistry
Medicinaregaten 9
Goteborg, SV, Sweden

^{63}Cu

Institute of Physics
Thumbergsvagen 7
Uppsala, Sweden

^{184}W, ^{171}Yb, ^{172}Yb, ^{96}Zr

Lund Institute of Technology
Department of Physics
Box 725
Lund 7, Sweden

^{24}Mg, ^{25}Mg, ^{26}Mg

Royal Institute of Technology
Division of Nuclear Chemistry
Drottning Kristinas Vag 47
Stockholm 70, Sweden

^{57}Fe, ^{33}S

Stockholm, University of
Research Institute for Physics
Stockholm 50, Sweden

^{107}Ag, ^{109}Ag, ^{50}Cr, ^{52}Cr, ^{53}Cr, ^{54}Cr, ^{63}Cu, ^{65}Cu, ^{161}Dy, ^{163}Dy, ^{167}Er, ^{69}Ga, ^{71}Ga, ^{178}Hf, ^{176}Lu, ^{58}Ni, ^{60}Ni, ^{62}Ni, ^{204}Pb, ^{207}Pb, ^{208}Pb, ^{112}Sn, ^{114}Sn, ^{116}Sn, ^{117}Sn, ^{118}Sn, ^{119}Sn, ^{120}Sn, ^{122}Sn, ^{124}Sn, ^{122}Te, ^{124}Te, ^{125}Te, ^{126}Te, ^{128}Te, ^{130}Te, ^{203}Tl, ^{205}Tl, ^{171}Yb, ^{173}Yb, ^{174}Yb, ^{64}Zn, ^{66}Zn, ^{68}Zn, ^{70}Zn

Uppsala, University of
Gustaf Werner Institute
Uppsala, Sweden

^{10}B, ^{6}Li, ^{7}Li, ^{24}Mg, ^{90}Zr

Uppsala, University of
Institute of Physics
Uppsala, Sweden

^{151}Eu, ^{153}Eu, ^{157}Gd, ^{198}Pt, ^{90}Zr

Switzerland

Basel, Physikalisches Institut
der Universitat
Klingelbergstrasse 82
4000 Basel, Switzerland

^{11}B

Battelle Memorial Institute
7. Route de Drize
1227 Carouge
Geneva, Switzerland

^{11}B, ^{33}S

CERN
Organisation Europeene Pour
la Recherche Nucleaire
1211 Geneva 23, Switzerland

^{6}Li, ^{7}Li

Eidg. Institut fur Reaktorforschung
5303 Wurenlingen/AG, Switzerland

^{109}Ag, ^{63}Cu, ^{98}Mo, ^{86}Sr, ^{67}Zn

Eidg. Technische Hochschule Zurick
Physikalisches Institut
Gloriastrasse 35
8006 Zurick, Switzerland

^{109}Ag, ^{123}Sb

Fribourg, University of
Physics Department
1700 Fribourg, Switzerland

^{50}Cr, ^{74}Ge

Laboratorium fur Kernphysik
Honogerberg
8049 Zurich, Switzerland

^{48}Ti

Physikalisches Institut
Sidlerstrasse 5
3000 Bern, Switzerland

^{50}V

Varian AG
Baarestrasse 77
CH-6300 Zug, Switzerland

^{63}Cu

Yugoslavia

Institut "Ruder Boskovic"
Bijenicka Cesta 54
Zagres, Yugoslavia

^{35}Cl, ^{37}Cl

STABLE ISOTOPE SALES - 1967

Isotope	Domestic			Foreign			Project			Total		
	Shipments	Milligrams	Dollars	Shipments	Milligrams	Dollars	Shipments	Milligrams	Dollars	Shipments	Milligrams	Dollars
Antimony-121	17	1,085	2,333	5	345	742	6	3,103	4,579	28	4,533	7,654
Antimony-123	10	555	1,387	7	375	937	6	447	1,115	23	1,377	3,439
Barium-130	1	15	330	1	30	660	3	20	900	5	65	1,890
Barium-132	6	145	8,120	2	52	2,912	1	5	280	9	202	11,312
Barium-134	6	150	788	1	10	19	1	25	131	8	185	938
Barium-135	12	572	949	4	41	51	3	110	220	19	723	1,220
Barium-136	6	450	675	1	20	30	2	90	135	9	560	840
Barium-137	7	400	360	6	1,090	948	1	50	45	14	1,540	1,353
Barium-138	8	2,190	328	5	630	94	4	230	35	17	3,050	457
Boron-10	53	1,993,489	23,689	49	1,953,600	21,294	13	103,000	1,247	115	4,050,089	46,230
Boron-11	27	87,048	12,050	18	50,000	3,866	3	20,680	1,434	48	157,728	17,350
Bromine-79	5	1,028	2,159	3	60	126	2	1,100	1,613	10	2,188	3,898
Bromine-81	3	2,087	4,383	1	20	42	1	15	31	5	2,122	4,456
Cadmium-106	4	28	311	5	111	1,310	2	74	944	11	213	2,565
Cadmium-108	7	165	2,434	3	51	667	3	260	2,850	13	476	5,951
Cadmium-110	8	695	685	9	698	663	3	210	210	20	1,603	1,558
Cadmium-111	3	119	119	6	370	370	2	399	399	11	888	888
Cadmium-112	9	680	408	7	890	534	5	585	351	21	2,155	1,293
Cadmium-113	6	905	740	2	60	54	4	9,570	5,769	12	10,535	6,563
Cadmium-114	17	2,150	974	13	1,510	679	6	1,470	661	36	5,130	2,314
Cadmium-116	10	935	1,403	5	360	540	5	405	603	20	1,700	2,546
Calcium-40	8	1,200	300	10	3,400	850	2	600	150	20	5,200	1,300
Calcium-42	5	105	893	14	702	4,847	3	532	3,561	22	1,339	9,301
Calcium-43	1	2	70	6	131	1,535	2	61	1,722	9	194	3,327
Calcium-44	15	1,419	2,877	20	1,555	3,504	5	1,005	1,936	40	3,979	8,317
Calcium-46	3	50	250	9	249	15,685	5	153	1,442	17	452	17,377
Calcium-48	11	1,136	11,992	7	1,902	1,511	4	998	13,127	22	4,036	26,630
Carbon-12	2	30	129	3	250	1,075				5	280	1,204
Cerium-136	1	2	78	6	66	1,452	2	168	5,214	9	236	6,744
Cerium-138	1	5	41	4	59	1,545				5	64	1,586
Cerium-140	6	650	140	7	1,130	211	3	140	70	16	1,920	421
Cerium-142	7	239	459	8	800	1,410	4	50	75	19	1,089	1,944
Chlorine-35	12	1,993	1,560	8	1,110	857	3	1,395	1,163	23	4,498	3,580
Chlorine-37	10	580	1,653	11	585	1,664	2	300	1,140	23	1,465	4,457
Chromium-50	20	2,237	5,039	22	1,979	4,060	1	714	1,641	43	4,930	10,740
Chromium-52	7	3,743	2,059	9	1,500	825	1	20	11	17	5,263	2,895
Chromium-53	6	1,000	825	5	400	360	0	899	809	11	2,299	1,994
Chromium-54	7	532	2,075	8	459	1,802	2	35	136	17	1,026	4,013

Isotope	Domestic			Foreign			Project			Total		
	Shipments	Milligrams	Dollars	Shipments	Milligrams	Dollars	Shipments	Milligrams	Dollars	Shipments	Milligrams	Dollars
Copper-63	15	6,264	1,566	17	3,105	776	5	1,130	283	37	10,499	2,625
Copper-65	15	5,645	2,823	9	480	240	5	2,800	1,027	29	8,925	4,090
Dysprosium-156	1	10	200	1	6	120	2	20	820	4	36	1,140
Dysprosium-158	5	44	473	1	4	114	1	5	12	7	53	599
Dysprosium-160	3	160	384	2	30	72				5	190	456
Dysprosium-161	11	1,292	1,938	10	1,170	1,755	2	400	600	23	2,862	4,293
Dysprosium-162	8	1,694	499	9	1,680	302	3	850	180	20	4,224	981
Dysprosium-163	1	50	43	4	180	252	2	435	535	7	665	830
Dysprosium-164	7	2,505	626	8	750	188	11	1,936	484	26	5,191	1,298
Erbium-162	3	30	215	2	50	200	3	56	401	8	136	816
Erbium-164	0	13	45	2	270	945	0	32	112	2	315	1,102
Erbium-166	6	600	180	12	1,620	556	6	1,900	1,170	24	4,120	1,906
Erbium-167	5	524	165	10	630	273	4	465	232	19	1,619	670
Erbium-168	8	1,127	1,040	4	650	507	12	1,650	1,271	24	3,427	2,818
Erbium-170	19	2,670	1,335	14	1,420	710	7	625	312	40	4,715	2,357
Europium-151	9	672	302	11	935	421	7	5,182	1,809	27	6,789	2,532
Europium-153	11	702	351	10	955	477	7	2,290	1,151	28	3,947	1,979
Gadolinium-152	1	8	284	2	22	736	5	80	996	8	110	2,016
Gadolinium-154	3	101	911	2	40	214	3	27	169	8	168	1,294
Gadolinium-155	6	457	625	4	180	252	8	579	803	18	1,216	1,680
Gadolinium-156	6	710	887	6	540	675	4	1,154	1,445	16	2,404	3,007
Gadolinium-157	5	332	339	11	1,520	1,314	4	407	484	20	2,259	2,137
Gadolinium-158	8	595	297	7	2,470	926	8	1,140	570	23	4,205	1,793
Gadolinium-160	18	1,230	800	13	1,070	665	15	1,705	1,082	46	4,005	2,547
Gallium-69	8	2,230	1,896	4	85	72	7	377	320	19	2,692	2,288
Gallium-71	3	1,740	3,219	3	25	46	1	653	1,214	7	2,418	4,479
Germanium-70	2	310	387	2	40	50	2	550	573	6	900	1,010
Germanium-72	6	640	448	1	20	14	5	630	441	12	1,290	903
Germanium-73	5	155	287	2	210	357	8	2,269	3,415	15	2,634	4,059
Germanium-74	6	590	177	2	120	36	4	223	75	12	933	288
Germanium-76	9	450	725	3	280	476	2	90	153	14	820	1,354
Hafnium-174	1	10	180	4	63	2,565	1	22	1,782	6	95	4,527
Hafnium-176	2	150	577	4	190	732	0	51	196	6	391	1,505
Hafnium-177	4	190	200	4	226	239	6	2,367	2,190	14	2,783	2,629
Hafnium-178	5	705	352	8	726	363	8	3,673	1,837	21	5,104	2,552
Hafnium-179	6	215	306	5	245	380	7	830	992	18	1,290	1,678
Hafnium-180	9	1,335	667	10	1,220	610	6	1,837	919	25	4,392	2,196
Indium-113	1	(275)	(3,300)	5	135	1,620	0	9	108	6	(131)	(1,572)
Indium-115	3	250	113	1	400	180	0	(60)	(27)	4	590	266

Isotope	Domestic			Foreign			Project			Total		
	Shipments	Milligrams	Dollars	Shipments	Milligrams	Dollars	Shipments	Milligrams	Dollars	Shipments	Milligrams	Dollars
Iridium-191	1	10	450	3	17	765	0	166	4,940	4	193	6,155
Iridium-193	2	17	510	2	12	360	0	204	4,150	4	233	5,020
Iron-54	16	2,920	3,016	17	2,830	4,425	9	1,001	1,106	42	6,751	8,547
Iron-56	8	5,270	762	6	850	440	8	3,870	336	22	9,990	1,538
Iron-57	65	6,528	27,096	29	1,865	7,280	6	3,273	5,980	100	11,666	40,356
Iron-58	17	571	11,444	13	340	7,376	8	271	3,799	38	1,182	22,619
Lanthanum-138	4	70	544	2	75	127	0	20	4	6	165	675
Lanthanum-139	2	1,100	1,035	1	1	1				3	1,101	1,036
Lead-204	5	120	1,405	5	410	1,305	6	560	2,781	16	1,090	5,491
Lead-206	11	6,049	3,671	6	835	333	8	3,589	2,154	25	10,473	6,158
Lead-207	12	3,365	1,281	9	2,205	882	8	3,431	1,372	29	9,001	3,535
Lead-208	11	6,057	1,966	10	3,012	1,043	9	13,438	3,787	30	22,507	6,796
Lithium-6	81	5,232,545	35,405	72	1,395,900	12,422	22	484,800	2,621	175	7,113,245	50,448
Lithium-7	81	182,454,000	53,665	34	4,001,000	3,600	17	3,126,300	2,522	132	189,581,300	59,787
Lutetium-175	2	320	112	7	1,410	493	3	584	205	12	2,314	810
Lutetium-176	1	8	344	8	37	1,557	5	118	3,707	14	163	5,608
Magnesium-24	18	3,321	1,162	19	3,770	1,320	2	(153)	(58)	39	6,938	2,424
Magnesium-25	4	282	592	12	1,035	2,173	3	496	1,042	19	1,813	3,807
Magnesium-26	12	1,915	3,659	21	5,705	10,839	5	1,740	2,031	38	9,360	16,529
Mercury-196	10	290	96,989	16	275	50,611				26	565	147,600
Mercury-198	5	81	822	2	10	120	2	20	161	9	111	1,103
Mercury-199	8	286	1,659	2	156	1,014	3	610	2,877	13	1,052	5,550
Mercury-200	5	75	300	1	10	40	2	510	1,377	8	595	1,717
Mercury-201	2	120	720	2	55	330	1	500	1,997	5	675	3,047
Mercury-202	13	685	2,150	4	45	121	3	515	950	20	1,245	3,221
Mercury-204	8	168	1,423	1	5	50	1	500	3,317	10	673	4,790
Molybdenum-92	7	585	175	8	508	152	8	1,775	533	23	2,868	860
Molybdenum-94	3	230	115	8	930	465	5	1,330	665	16	2,490	1,245
Molybdenum-95	4	420	123	7	735	221	2	1,100	330	13	2,255	674
Molybdenum-96	3	350	87	5	1,290	323	4	1,220	305	12	2,860	715
Molybdenum-97	3	325	146	3	815	367	3	1,110	500	9	2,250	1,013
Molybdenum-98	10	52,500	10,500	12	133,570	26,714	4	1,270	264	26	187,340	37,478
Molybdenum-100	2	250	125	4	600	300	4	1,180	590	10	2,030	1,015
Neodymium-142	2	400	100	12	4,500	1,125	7	14,756	2,750	21	19,656	3,975
Neodymium-143	4	319	431	2	40	64	3	340	381	9	699	876
Neodymium-144	2	304	91	9	5,590	1,677	2	170	36	13	6,064	1,804
Neodymium-145	2	83	245	6	550	1,126	2	150	325	10	783	1,696
Neodymium-146	8	1,304	456	5	1,210	424	4	180	73	17	2,694	953
Neodymium-148	2	256	230	5	195	176	6	316	284	13	767	690

Isotope	Domestic			Foreign			Project			Total		
	Shipments	Milligrams	Dollars	Shipments	Milligrams	Dollars	Shipments	Milligrams	Dollars	Shipments	Milligrams	Dollars
Neodymium-150	4	215	205	13	1,155	1,097	4	275	261	21	1,645	1,563
Nickel-58	14	4,184	1,046	16	4,050	1,013	6	2,129	532	36	10,363	2,591
Nickel-60	13	1,930	386	10	720	144	4	3,171	634	27	5,821	1,164
Nickel-61	5	661	3,635	9	355	1,698	4	800	3,343	18	1,816	8,676
Nickel-62	13	8,103	11,344	13	995	1,393	4	5,121	6,473	30	14,219	19,210
Nickel-64	5	343	2,401	3	100	700	7	1,392	8,234	15	1,835	11,335
Nitrogen-15							2	27,000	10,295	2	27,000	10,295
Osmium-184	1	1	95	3	3	285				4	4	380
Osmium-186	2	40	800				1	5	100	3	45	900
Osmium-187	1	10	140	1	10	140	0	6	84	2	26	364
Osmium-188	3	180	495	2	120	330	2	110	303	7	410	1,128
Osmium-189	3	180	405	3	160	360	1	100	225	7	440	990
Osmium-190	11	580	928	2	40	64	5	630	997	18	1,250	1,989
Osmium-192	18	2,040	1,938	16	1,210	1,150	5	380	361	39	3,630	3,449
Oxygen-17	6	11,773	4,009				4	4,144	2,045	10	15,917	6,054
Oxygen-18	17	59,610	8,369	5	32,000	615	2	4,000	1,114	24	95,610	10,098
Palladium-102	2	10	189							2	10	189
Palladium-104	2	210	683	1	10	32				3	220	715
Palladium-106	1	200	450	2	60	135				3	260	585
Palladium-108	6	565	847	5	395	593	4	340	510	15	1,300	1,950
Palladium-110	5	305	1,067	5	190	665	1	38	133	11	533	1,865
Platinum-190	3	20	800	5	125	1,300				8	145	2,100
Platinum-192	1	50	600	2	30	360	6	75	850	9	155	1,810
Platinum-194	4	200	140	6	390	210	2	30	24	12	620	374
Platinum-195	3	265	451	2	40	110	1	30	53	6	335	614
Platinum-196	6	470	572	8	380	608	3	40	64	17	890	1,244
Platinum-198	3	126	945	13	235	1,640	4	122	915	20	483	3,500
Potassium-39	2	500	400	3	650	520				5	1,150	920
Potassium-40	6	180	704	4	72	337	3	133	2,970	13	385	4,011
Potassium-41	18	1,055	5,275	18	495	2,475	3	213	1,065	39	1,763	8,815
Rhenium-185	11	1,132	938	9	550	467	6	330	236	26	2,012	1,641
Rhenium-187	8	687	481	10	590	413	2	31	21	20	1,308	915
Rubidium-85	10	7,380	6,273	6	375	304	5	891	684	21	8,646	7,261
Rubidium-87	23	8,290	13,679	22	2,493	3,078	1	115	190	46	10,898	16,947
Ruthenium-96				3	35	350	3	40	400	6	75	750
Ruthenium-98				1	20	660	0	75	1,069	1	95	1,729
Ruthenium-99				4	260	988	1	205	779	5	465	1,767
Ruthenium-100				1	20	105	2	105	442	3	125	547
Ruthenium-101							1	15	45	1	15	45

Isotope	Domestic			Foreign			Project			Total		
	Shipments	Milligrams	Dollars	Shipments	Milligrams	Dollars	Shipments	Milligrams	Dollars	Shipments	Milligrams	Dollars
Ruthenium-102	2	60	93	2	30	47	3	35	54	7	125	194
Ruthenium-104				3	50	130	3	168	437	6	218	567
Samarium-144	7	200	779	12	946	3,558	9	405	1,505	28	1,551	5,842
Samarium-147	4	230	207	7	800	620	2	472	415	13	1,502	1,242
Samarium-148	6	331	830	10	620	915	3	772	1,082	19	1,723	2,827
Samarium-149	4	190	171	9	595	486	3	396	339	16	1,181	996
Samarium-150	10	520	806	9	660	943	4	579	1,280	23	1,759	3,029
Samarium-152	10	1,025	461	12	1,812	796	11	2,143	964	33	4,980	2,221
Samarium-154	19	2,931	1,465	15	6,750	3,375	8	3,136	1,171	42	12,817	6,011
Selenium-74	2	30	2,310	3	5	308	3	49	2,229	8	84	4,847
Selenium-76	4	53	331	2	40	210	2	25	131	8	128	672
Selenium-77	1	15	75	3	160	800	1	15	75	5	190	950
Selenium-78	4	230	299	3	220	236	1	(75)	(97)	8	375	438
Selenium-80	7	530	258	3	800	480				10	1,330	738
Selenium-82	2	54	192	4	354	578	2	132	554	8	540	1,324
Silicon-28	8	825	907	2	120	132	2	1,000	1,100	12	1,945	2,139
Silicon-29	9	543	1,470	7	1,014	3,019	2	735	1,472	18	2,292	5,961
Silicon-30	14	782	2,376	7	320	1,195	8	1,718	4,448	29	2,820	8,019
Silver-107	10	1,165	699	4	370	222	4	332	209	18	1,867	1,130
Silver-109	15	1,860	1,116	9	400	240	4	1,323	784	28	3,583	2,140
Strontium-84	18	1,429	9,072	21	1,051	6,555	13	468	3,437	52	2,948	19,064
Strontium-86	13	4,370	2,129	15	3,487	1,732	4	260	130	32	8,117	3,991
Strontium-87	6	3,286	1,549	5	170	84	1	886	531	12	4,342	2,164
Strontium-88	12	6,200	310	5	1,630	81	4	240	12	21	8,070	403
Sulfur-32	1	10	28				2	110	302	3	120	330
Sulfur-33	6	58	2,378	7	74	3,034	2	69	268	15	201	5,680
Sulfur-34	7	109	2,398	6	215	3,770	6	171	2,839	19	495	9,007
Tellurium-122	4	180	648	6	360	1,287	2	100	360	12	640	2,295
Tellurium-123	4	40	366				1	601	5,219	5	641	5,585
Tellurium-124	6	302	567	8	535	799	3	220	373	17	1,057	1,739
Tellurium-125	6	610	727	3	105	105	4	483	487	13	1,198	1,319
Tellurium-126	9	1,030	463	13	1,315	592	7	655	325	29	3,000	1,380
Tellurium-128	17	3,220	891	13	1,290	384	9	1,115	293	39	5,625	1,568
Tellurium-130	12	2,440	610	11	1,150	287	5	1,460	360	28	5,050	1,257
Thallium-203	1	10	17	6	290	508	5	20,945	24,281	12	21,245	24,806
Thallium-205	2	140	77	6	430	237	3	990	544	11	1,560	858
Tin-112	10	1,877	10,853	12	510	3,475	3	45	306	25	2,432	14,634
Tin-114	3	70	595	1	15	127	2	50	539	6	135	1,261
Tin-115	1	20	330	1	40	660	2	222	2,125	4	282	3,115

Isotope	Domestic			Foreign			Project			Total		
	Shipments	Milligrams	Dollars	Shipments	Milligrams	Dollars	Shipments	Milligrams	Dollars	Shipments	Milligrams	Dollars
Tin-116	17	4,947	1,340	9	710	204	5	972	281	31	6,629	1,825
Tin-117	9	1,172	697	6	860	457	2	331	186	17	2,363	1,340
Tin-118	21	13,178	1,977	22	14,750	2,212	4	1,257	189	47	29,185	4,378
Tin-119	19	6,573	2,629	12	2,210	884	3	3,273	955	34	12,056	4,468
Tin-120	17	8,429	843	14	9,330	933	8	2,930	293	39	20,689	2,069
Tin-122	13	3,369	2,055	8	1,800	1,105	5	456	286	26	5,625	3,446
Tin-124	17	4,465	2,233	10	1,850	925	5	3,538	1,275	32	9,853	4,433
Titanium-46	10	1,648	3,186	6	765	1,472	2	250	495	18	2,663	5,153
Titanium-47	5	220	312	5	880	1,148	3	7	(56)	13	1,107	1,404
Titanium-48	5	840	168	9	1,120	224	4	(1,084)	(217)	18	876	175
Titanium-49	3	55	135	5	520	1,216	2	3,670	8,173	10	4,245	9,524
Titanium-50	7	769	1,866	8	1,575	3,596	4	80	236	19	2,424	5,698
Tungsten-180	2	35	350	5	35	415	3	40	694	10	110	1,459
Tungsten-182	6	3,400	850	4	210	52	10	3,682	921	20	7,292	1,823
Tungsten-183	3	224	245	4	530	342	3	990	573	10	1,744	1,160
Tungsten-184	6	3,519	935	7	540	143	8	2,684	726	21	6,743	1,804
Tungsten-186	12	5,055	1,424	5	520	178	11	4,127	1,299	28	9,702	2,901
Vanadium-50	1	10	350	3	21	820	1	17	1,289	5	48	2,459
Ytterbium-168	6	1,503	12,024	11	124	992	5	52	403	22	1,679	13,419
Ytterbium-170	4	381	876	5	363	835	1	91	282	10	835	1,993
Ytterbium-171	2	370	187	10	830	473	2	236	142	14	1,436	802
Ytterbium-172	8	968	436	9	870	391	2	140	63	19	1,978	890
Ytterbium-173	2	203	91	7	920	400	3	374	163	12	1,497	654
Ytterbium-174	12	3,720	932	10	1,154	289	8	1,506	376	30	6,380	1,597
Ytterbium-176	8	2,640	1,066	14	1,750	840	7	1,278	511	29	5,668	2,417
Zinc-64	5	843	285	7	2,372	830	5	760	263	17	3,975	1,378
Zinc-66	5	1,470	808	8	552	304	4	1,401	771	17	3,423	1,883
Zinc-67	3	350	1,295	6	335	1,239	4	370	1,379	13	1,055	3,913
Zinc-68	6	884	707	9	702	562	9	1,517	1,214	24	3,103	2,483
Zinc-70	3	100	1,485	8	145	2,267	3	166	2,974	14	411	6,726
Zirconium-90	6	1,849	370	13	5,530	1,106	4	5,665	793	23	13,044	2,269
Zirconium-91	7	390	382	8	750	730	4	544	544	19	1,684	1,656
Zirconium-92	4	1,021	802	6	300	228	3	211	169	13	1,532	1,199
Zirconium-94	2	870	783	10	625	543	3	63	59	15	1,558	1,385
Zirconium-96				9	342	1,339	5	95	536	14	437	1,875
Loans*										209	11,789,000	
TOTALS	1809	190,153,393	546,300	1712	7,755,716	338,362	888	3,994,797	280,653	4618	213,692,906	1,165,315

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