LIST OF AEC RADIOISOTOPE CUSTOMERS

WITH SUMMARY OF RADIOISOTOPE SHIPMENTS

FY 1966

Compiled by
P. S. Baker

ISOTOPES INFORMATION CENTER
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SEPTEMBER 1967

OAK RIDGE NATIONAL LABORATORY
Oak Ridge, Tennessee
operated by
UNION CARBIDE CORPORATION
for the
U.S. ATOMIC ENERGY COMMISSION
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LIST OF AEC RADIOISOTOPE CUSTOMERS
WITH SUMMARY OF RADIOISOTOPE SHIPMENTS
FY 1966

INTRODUCTION

This third edition of the AEC radioisotope customer list has again been prepared at the request of the Division of Isotopes Development of the Commission to present the radioisotope sales during FY 1966 by Commission facilities at Argonne National Laboratory, Brookhaven National Laboratory, Hanford Atomic Products Operation, Mound Laboratory, Oak Ridge National Laboratory, Phillips Petroleum Company, and the Savannah River Plant.

The information is divided into four sections. The first is an alphabetical list of customers that includes, as far as was practical, contacts (or purchasers), and isotopes purchased during the fiscal year. It is further subdivided into domestic and foreign customers. In order to differentiate among the suppliers, the isotopes furnished by Oak Ridge National Laboratory have no other designation. Those furnished by Argonne National Laboratory are followed by (A); those by Brookhaven National Laboratory are followed by (B); those by Hanford Atomic Products Operation, by (G); those by Mound, by (M); those by Phillips, by (P); and those by Savannah River Plant, by (S). The designations CSI, SI, and SS denote, respectively, cyclotron service irradiations, reactor service irradiations, and special services (including such items as target fabrication, source encapsulation, and preparation of special chemical forms). Fission products are designated by FP.

The second section is an alphabetical list of isotopes, cross-referenced to customer numbers and again divided into the domestic and foreign categories. The third section is an alphabetical list of states and countries, also cross-referenced to customer numbers. The purpose of this is to indicate geographical concentrations of isotope users. The final section is a comprehensive table which includes an alphabetical listing of the isotopes and a breakdown into shipments, quantities, and dollars for each isotope under the domestic, foreign, and project (AEC facilities) categories. There is also included a tabulation of the total figures for each isotope.

Acknowledgement is made of the help of C. E. Williams of the Business Systems Department, ORGDP Computer Sciences Center, for his help in working out the computer program.

Sales information for previous years has been covered in TID-21620 (FY 1964) and ORNL-IIC-6 (FY 1965). A similar report covering stable-isotope distribution is also being compiled, using the same computer program as developed for the radioisotope information.

'Now Douglas-United Nuclear, Inc.
2Now Idaho Nuclear Corp.
I. ALPHABETICAL LIST OF CUSTOMERS, WITH CONTACTS AND ISOTOPES PURCHASED

A. Domestic

1. Abbott Laboratories
   1400 Sheridan Road
   North Chicago, Illinois 60064
   L. H. Neeper, Purchasing Department
   \[ ^{47}Ca, ^{14}C, ^{137}Cs, ^{65}Cu, ^{197}Hg, ^{32}P, ^{88}Sr, RSI, ^{35}S, ^{31}P \]

2. Adelphi University
   Levermore Hall
   Garden City, Long Island, New York 11534
   R. Miller, Purchasing Department
   \[ ^{3H}, ^{42}K, ^{33}P, ^{85}Kr, ^{133}Xe \]

3. Aerojet General Corporation
   Post Office Box 1947
   Sacramento, California
   R. McLearie, Purchasing Department
   \[ ^{140}Ba, ^{137}Cs, FPSS, ^{32}P, ^{24}Na, ^{95}Nb, ^{103}Ru, ^{44}Sc, ^{60}Zr \]

4. Aerospace Corporation
   Post Office Box 95085
   Los Angeles, California
   E. F. Partina
   \[ ^{203}Hg, ^{191}Cs \]

5. Air Reduction Company
   Murray Hill, New Jersey
   W. A. Keats
   \[ ^{3H}, ^{85}Kr, ^{131}I, ^{129}I \]

6. Alabama, University Of
   Medical Center
   1519 Seventh Avenue, South
   Birmingham, Alabama 35246
   J. F. Wingo, Purchasing Agent
   \[ ^{36}Cl, ^{24}Na, ^{32}P, ^{66}Sr, ^{88}Kr \]

7. Alaska, University Of
   College, Alaska
   C. G. Teets, Purchasing Department
   \[ ^{133}Ba \]

8. Albert Einstein Medical Center
   York And Tater Roads
   Philadelphia, Pennsylvania 19141
   A. Shortell, Purchasing Agent
   \[ ^{87}Sr(B) \]

9. Alcoa Research Laboratories
   Radioactive Tracer Group
   New Kensington, Pennsylvania 15068
   RSI(E)

10. Allen-Bradley Company
    126 W. Greenfield Avenue
    Milwaukee, Wisconsin 53204
    A. D. Dorch, Purchasing Agent
    \[ ^{85}Kr \]

11. Allen-Bradley Manufacturing Company
    Post Office Box 512
    Milwaukee, Wisconsin 53201
    L. L. Phillips, Purchasing Department
    \[ ^{88}Sr \]

12. Alto Bates Hospital
    Isotope Laboratory
    Webster Al Regent
    Berkeley, California
    \[ ^{89}Sr \]

13. Aluminum Company Of America
    Alcoa research Laboratories
    New Kensington, Pennsylvania 15068
    G. F. Pecor, Purchasing Department
    \[ ^{55}Fe \]

14. American Atomic Corporation
    425 South Plumer
    Tucson, Arizona 85715
    L. L. Ledbetter, Purchasing Agent
    \[ ^{89}Sr \]

15. American Cyanamid Company
    Lederle Laboratories Division
    Pearl River, New York 10965
    R. Hoffer, Senior Buyer
    \[ ^{32}P, ^{131}I, ^{129}I \]

16. American Enka Corporation
    Enka, North Carolina 28726
    K. Whiteside, Purchasing Agent
    \[ ^{24}Na \]

17. American Museum Of Natural History
    Central Park East And 79th Street
    New York, New York 10024
    A. P. Pesina, Purchasing Department
    \[ ^{14}C, ^{32}P, ^{35}S \]

18. American Nuclear Corporation
    Lynchburg, Virginia
    E. H. Cann, Jr., Accountability Representative
    \[ ^{60}Co \]

19. American Nuclear Corporation
    Post Office Box 426
    Oak Ridge, Tennessee 37830
    K. L. Graybeal
    \[ ^{60}Co, FPSS \]

20. Ames Atomium, Inc.
    575 Middlesex Turnpike
    Billerica, Massachusetts
    J. Ferrull, Purchasing Agent
    \[ ^{133}Ba, ^{129}I \]

21. Ames Laboratory
    Inc. Research Bldg.
    Iowa State University
    Ames, Iowa
    \[ ^{166}Er(P), ^{171}Er(P), ^{88}Sr(A), ^{127}Te(P), ^{125}Te(P) \]
22 Amherst College
Department of Biology
Amherst, Massachusetts 01002
Dr. Harold H. Flough

23 Applied Science Laboratories, Inc.
Post Office Box 140
State College, Pennsylvania 16601
R. F. Kruppa, Service Manager

24 Ardel Corporation
El9 Justin Avenue
Glendale, California 91201
E. G. Harrington, Purchasing Department

25 Argonne Cancer Research Hospital
Chicago, Illinois

26 Argonne National Laboratory
9750 South Cass Avenue
Argonne, Illinois 60439
R. D. Devene

27 Arizona, University Of
Post Office Box 4100
Tucson, Arizona 85721
R. E. Deal, Purchasing

28 Arkansas, University
Fayettevill-e, Arkansas 72701
R. W. Efair, Purchasing Agent

29 Aro Inc., Arnold Air Force Station
Finance Division
Arnold Air Force Station, Tennessee 37389
C. P. Solomon, Asst. Manager, Purchasing

30 Atlantic Research
Shirley Highway And Edgewall Road
Alexandria, Virginia
E. C. Strachan

31 Atlas Chemical Industries, Inc.
Valle.v Forge Industrial Park
Valle.v Forge, Pennsylvania
C. B. Roden, Purchasing Agent

32 Pronics International Division
North American Aviation Inc.
Post Office Box 309
Canoga Park, California 91303
J. J. Pyles, Purchasing

33 Auburn University
Athens, Alabama 36830
C. F. Zallen, Radiological Safety Officer

34 Eatock And Wilcox Company
Atomic Energy Division
1201 Kemper Street
Idaho Falls, Idaho 83405
C. P. Gunn, Jr., Purchasing Agent

35 Earlil Research Corporation
Swarthmore, Pennsylvania 15081
F. A. Ernst, Purchasing Agent

36 Eatellite Memorial Institute
505 King Highway
Columbus, Ohio 43201
W. Eddy Eyer

37 Eatellite Northwest
Pacific Northwest Laboratories
P.O. Box 999
Richland, Washington 99352

38 Ebbler University
College Of Medicine
1200 N. C. Anderson Boulevard
Houston, Texas
P. E. Riehl

39 Eddix Aviation Corporation
Shirley high way And Edgewall Road
Alexandria, Virginia
E. C. Strachan

40 Eendix Aviation Corporation
Shirley highway And Edgewall Road
Alexandria, Virginia

41 Eeta Radiation Company Inc.
Fest Office Box 543
Penngahela, Pennsylvania 15063
Paul M. Yavorsky, President

42 Fricas International Division
North American Aviation Inc.
Post Office Box 309
Canoga Park, California 91303
J. J. Pyles, Purchasing

43 Fricas International Division
North American Aviation Inc.
Post Office Box 309
Canoga Park, California 91303
J. J. Pyles, Purchasing

44 Fricas International Division
North American Aviation Inc.
Post Office Box 309
Canoga Park, California 91303
J. J. Pyles, Purchasing

45 Fricas International Division
North American Aviation Inc.
Post Office Box 309
Canoga Park, California 91303
J. J. Pyles, Purchasing

46 Fricas International Division
North American Aviation Inc.
Post Office Box 309
Canoga Park, California 91303
J. J. Pyles, Purchasing

47 Fricas International Division
North American Aviation Inc.
Post Office Box 309
Canoga Park, California 91303
J. J. Pyles, Purchasing

48 Fricas International Division
North American Aviation Inc.
Post Office Box 309
Canoga Park, California 91303
J. J. Pyles, Purchasing

49 Fricas International Division
North American Aviation Inc.
Post Office Box 309
Canoga Park, California 91303
J. J. Pyles, Purchasing

50 Fricas International Division
North American Aviation Inc.
Post Office Box 309
Canoga Park, California 91303
J. J. Pyles, Purchasing
42 Beth Israel hospital
320 Erckline Avenue
Esten, Massachusetts
V. W. Godlesky, Purchasing Agent
32p

43 Beth Israel hospital
10 Nathan D. Perlmon Place
New York, New York 10003
G. E. White, Purchasing
32p

44 Bio-Rad Laboratories
32nd Pla Griffin Avenue
Richmond, California 94804
G. P. Abel, Sales Representative
14C, 5550Fe, 131I, 32P, 53Fe, 65Zn

45 Bio Science Laboratories
12330 Santa Monica Boulevard
Los Angeles, California 90025
Sam Eerkman Ph.D.
35Zt

46 Birdwell Surveys
Civision Of SSC
Post Office Box 1590
Tulsa, Oklahoma 74101
G. F. Core, Purchasing
140Ba

47 The Boeing Company
Aero-Space Division
Post Office Box 3707
Seattle, Washington 98124
D. W. Cairney, Purchasing
133Ba, 109Cd, 60Co, 51Cr, 131I,
65Zr, 65Nb, 191Ir, SS

48 The Ehrden Chemical Company
Godfrey Avenue And Langdon Street
Post Office Box 9524
Philadelphia, Pennsylvania 19124
D. Connell, Purchasing Department
110Ag

49 Eosten University
700 Commonwealth Avenue
Esten, Massachusetts 02215
G. Peters
CSI, FS, 99Sr

50 Recye Thompson Institute
For Plant Research, Inc.
1066 ho. Broadway
Yonkers, New York 10700
P. H. V. Kniepp
14C

51 Erandeis University
Laboratory Supplies And Services
415 South Street
Welshen, Massachusetts 02154
H. L. McCarthy, Manager
35S

52 Brigham Young University
Pocu, Utah 84601
C. R. Peterson, Purchasing
110Ag

53 Bristol Laboratories, Inc.
Post Office Box 657
Syracuse, New York 13201
E. L. Johnson
35S

54 Bristol Pyers Products Division
225 long Avenue
hill-ide, New Jersey 07205
Jeanne Guttadacra
35S

55 Brookhaven National Laboratory
Uster, Long Island, New York 11973
K. F. Keller, Buyer
CSI(14Fe), Cu(S), 131I(B), RS1(E),
SI(S), 95Sr(B), 99Te(E), VB(E)

56 Erwin University
Freerence, Rhode Island 02812
n. L. Crowley
35S, SS

57 Bryn Mawr College
Bryn Mawr, Pennsylvania 19010
J. R. Pruet
87Sr

58 The Fudd Company
Instruments Division
Post Office Box 424
Henchenville, Pennsylvania 19460
C. W. Eothwell, Jr., Purchasing Agent
192Ir

59 Butler University
College Of Pharmacy
Indianapolis, Indiana 46207
H. A. Swartz
124St, 89Sr

60 California Institute Of Technology
1201 E. California Boulevard
Passadena, California 91102
K. A. Jacobson
10120F(P), 114Ag(P), 12FeP(P), 110Ba,
131I(C), 131Cs, 165Dy(P), 169Er(P),
172Er, 188Cd(P), 181Hf(P), 192Hf(P),
203Hg, 166Ho(P), 3He, 128I(F),
131I(B), 177Lu(P), 199Pb(P),
189Re(P), 197Pt(P), 186Re(P),
$1(T)$, 155Em(P), 35S, SS,
187Re(P), 160Tm(P), 122Te(P),
176Lu(P), 237U(P), 184W(P),
191Ir(P), 198Os(P)

61 California University Of
4CC Sprout Hall
Berkeley, California 94704
F. S. Barter, Purchasing Agent
24Mg(S), 129Xe, 170Am(S), Ca(S),
252Cf(S), 241Cm(S), 262Cm(S), 13C,
256Es(S), 59Fe, 25Fe(S), 202Hg(S),
63Cu, 131I, 85Kr, 110Lr, 179Lu(S),
174Lu(E), 208Hg(B), Mo(S), 35S, Pt(S),
68Rb, 106Ru, 35S, SS, 169Tm(S),
61 California, University of
Berkeley, California 94720
F. S. Carter, Purchasing Agent

62 California, University of
Davis, California 95616
R. E. Schwartz

63 California, University of
P.O. Box 4109
Los Angeles, California 90038
E. C. Millijour

64 California, University of
P.O. Box 90024
Los Angeles, California 90024
K. A. Weydel

65 California, University of
P.O. Box 112
Riverside, California 92502
U. F. Murphy, Purchasing Agent

66 California, University of
San Francisco medical Center
San Francisco, California 94122
Edith Shoaf

67 California, University of
Santa Barbara, California
E. D. Horner, Purchasing Agent

68 Cambridge Nuclear Corporation
131 Portland Street
Cambridge, Massachusetts 02139
E. F. Penhallow, Business Manager

69 Carnegie Institute of Technology
Shenley Park
Pittsburgh, Pennsylvania 15213
J. D. Sands

70 Carnegie Institute of Washington
Genetics Research Unit
Cold Spring Harbor, Long Island, New York
E. Eccles

71 Carroll College
Helena, Montana
L. G. Walchuck, Purchasing Agent

72 Case Institute Of Technology
10500 Euclid Avenue
Cleveland, Ohio 44106
R. K. Kipling

73 Fred Chariton
2 West 46th Street
Room 614-A
New York, New York 10036

74 Chemagro Corporation
Evr 4913, Station F
Oakland Road
Kansas City, Missouri 64133
J. F. Delaney

75 Chemitrac Corporation
22 University Road
Cambridge, Massachusetts 02138
J. C. Leak

76 Chevron Research Company
578 East Standard Avenue
Aichnend, California
R. F. Hoyt

77 Chicago, University of
2841 S. Ellis Avenue
Chicago, Illinois 60637
K. R. Ikens

78 Chicago Western Memorial Hospital
25 E. Superior Street
Chicago, Illinois 60611
J. D. Dempsey, Purchasing Agent

79 Children's Hospital Of Pittsburgh
125 E. Soto Street
Pittsburgh, Pennsylvania 15213
William A. Anglow, Purchasing Agent

80 Cincinnati, University of
Cincinnati, Ohio 45221
P. J. Carson, Jr.
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<th>Institution</th>
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<td>City of Hope Medical Center</td>
<td>1500 E. Duarte Road</td>
<td>R. L. Braunstein, Purchasing Agent</td>
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<td>Golden, Colorado</td>
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<td>Colorado State University Purchasing Department</td>
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<td>Connecticut Agriculture Experiment Station</td>
<td>P.O. Box 1106</td>
<td>G. H. Ackerman, Business Manager</td>
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<td>New Haven, Connecticut</td>
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<tr>
<td>Connecticut Cil Company, Inc.</td>
<td>7252 S. Racine Avenue</td>
<td>E. H. Fennell, Radiological Safety Officer</td>
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<td>Chicago, Illinois</td>
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<td>Cornell University</td>
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<td>De Paul University</td>
<td>25 E. Jackson Boulevard</td>
<td>R. J. Neu</td>
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103 Duke University
Durham, North Carolina
J. E. Casey

131I, 133Ba, 23Na, 32P, 86Rb,
RSI(F), 89Sr, 35S, 133Xe

104 E. I. duPont de Nemours Pnd Company
Savannah River Plant
Aiken, South Carolina 29802
L. R. Bailey, Purchasing
Au(S), 238U(S), 233Am(S), 249Eh(S),
111Cd(S), 99Co(S), 144Er(S), Er(S),
146Nd(S), 147Pm, 32P, 32P, 85Kr(S), 56Eu(S),
Si(S), Ta(S), 233Th(S), 169Yd(S),
210Po(S)

105 Dynatics, Inc.
180 Piles Street, N. W.,
Atlanta, Georgia 30312
E. R. Ficen
137Cs, FPSS

106 East Carolina College
Greenville, North Carolina
F. W. Eller

a2p

107 East Central State College
Perry, Oklahoma
Frank Turner, Business Manager

32P

108 Eastern Pennsylvania Psychiatric Institute
Henry Avenue and Abbottsford Place
Philadelphia, Pennsylvania 19129
C. R. E. Schultz, Business Manager

42K

109 Eberline Instrument Corporation
Post Office Box 278
Santa Fe, New Mexico 87501
G. Salazar

107Ce, 3H2O

110 Edgerton, Gerneshausen Pnd Crier
55 Brookline Avenue
Boston, Massachusetts
J. G. Heuer

24Na

111 The Electric Storage Battery Company
Post Office Box 336
15 West College Avenue
Yardley, Pennsylvania 19067
L. Schisler, Purchasing Agent

109Ac

112 Elgin State Hospital
Elgin, Illinois 60120
Dr. E. S. Klein

32P

113 Energy Tumor Group
Eli Lilly, 9000 Westlake
Los Angeles, California 90067
L. W. Lynch

111I

114 Energy University
Pitts, Georgia 30342
C. W. Hayes, Director of Purchases

133Ba, 35S, 99Tc(F)

115 Eer Corporation
176 Pearl Street
Brooklyn, New York
M. Yco\n
131I, 35S, 99Tc

116 Evans Research Pnd Development Corporation
26 F., 43rd Street
New York, New York 10017
F. I. Hussey, Buyer

RSI(F)

117 Fairchild Semiconductor
Post Office Box 75C
Mountain View, California
L. R. Swasey, Jr., Purchasing

32P

118 First Atomic Ship Transport, Inc.
250 Broadway
New York, New York 10006
J. E. Cone, Executive Vice-President

131I, 35S

119 Florida State toard Of health
Clearwater, Florida

32P

120 Florida State University
Tallahassee, Florida
W. R. Eyer

131I, 32P, 35S, 90Y

121 Florida, University Of
Gainesville, Florida
E. C. Cunavant

131I, 44Ca, 32P, 86Rb, 35S

122 Food Chemical Research Laboratories, Inc.
1211 N. E. 38th Street
Seattle, Washington 98105
C. B. Clinch, President

110Ac

123 Fordham University
4080 Broadway
New York, New York 10458
C. Michael Cefola

RSI(F)
124 Ford Motor Company
2150 Oakwood Boulevard
Dearborn, Michigan
L. I. Webb, Senior Buyer
111Ag, CSi(A), 95Nb, 86Rb, 185W

125 Frigidaire Division, General Motors Corporation
Dayton, Ohio
J. T. Heath, Purchasing Agent
85Kr

126 Fundamentals Methods Associates, Inc.
31 Union Square West
New York, New York
R. S. Cohen
RSI

127 Camron Industries, Inc.
Fost Office Ecx 2543
Patton Rouge, Louisiana
R. F. Cicharry, General Manager
137Cs, FPSS

128 General Electric Company
Bedford, Massachusetts 01730
G. McGrath, Euyer
63Ni, SS

129 Georgia Chemical Corporation
Saw Mill River Road
Bedford, New York
E. F. Ryskievich
14C

130 Gem Irradiations Laboratories, Inc.
560 Fifth Avenue
New York, New York 10036
RSI(E)

131 General Applied Science Laboratories, Inc.
4824 Pad Stewart Avenue
Westbury, New York
Howard Grossman, Buyer
SS, 90Y

132 General Atomic
A Division Of General Dynamics Corp.
Fost Office Ecx 608
San Diego, California
Piss Plisce Thomas, Purchasing
133Ba, 140Ba, 134Ce, 36Cl, 114In, 137Cs,
114In, 137In, 85Kr, 191Os, 86Rb, RSI,
85Sr, SS, 90Y

133 General Electric Company
1495 Fillmore Avenue
Buffalo, New York 14211
F. J. Feller
85Kr

134 General Electric Company
21800 Tungsten Road
Cleveland, Ohio 44117
R. Coates
3F, 85Kr, SS

135 General Electric Company
Fost Office Ecx 100
Richland, Washington 99352
41Ar(T), 128I(E)

136 General Electric Company
Fost Office Ecx 254
San Jose, California
J. C. Jorgensen
36Cl, 69Co, 137Cs, FPSS, 3H, 3H,
147Nd, 90Sr

137 General Electric Company
The Knolls, Fost Office Box 1088
Schensstady, New York
R. C. Lawes, Penager
137Cs, 64Cu, RSI(B), 75Se, 122Te(B)

138 General Electric Company
Euilding No. 7
Electronics Park Laboratory
Syracuse, New York
E. M. Fagnanelli, Euyer
85Kr

139 Georgia Institute Of Technology
256 North Avenue, N.W.
Atlanta, Georgia
R. L. Zismerman, Radiation Safety Officer
114Cs, 110Ba, 131I, RSI(E), 103Ru,
192Ir, 170Tm

140 General Tire And Rubber Company
Fost Office Ecx 951
Akron, Ohio
L. R. Campbell
36Cl

141 General Radioisotope Processing Company
2565 Claremont Avenue
Berkeley, California
H. K. Patterson, President
114Cs, 36Cl, 137Cs, 152+154Eu, 203Hg,
192Ir, 131I, 99Mo, 208Ta, 95Nb, 147Nd,
63Ni, 182Ta, 99Tc, 204Tl, 91Y

142 General Tire And Rubber Company
Fost Office Ecx 951
Akron, Ohio
L. R. Campbell
36Cl

143 Georgia Institute Of Technology
256 North Avenue, N.W.
Atlanta, Georgia
R. L. Zismerman, Radiation Safety Officer
114Cs, 110Ba, 131I, RSI(B), 103Ru,
192Ir, 170Tm

144 Georgia, University Of
Athens, Georgia
F. J. Johnstone, Jr.
85Kr, 36Cl, 14C, 131I, 32P, 35S
145 Giannini Controls Corp.,
1600 S. Fountain Avenue
Cuarto, California
A. L. Afeld, Purchasing Agent
138Ce, 137Te, SS

146 Glen Ccue Community Hospital
Clen Ccr., Long Island, New York
99Tc(B)

147 Goodyear Tire And Rubber Company
1144 E. Market Street
Akron, Ohio
C. P. Larsen
124I, 35S

148 Gooucher College
Towson, Baltimore, Maryland
Aelen R. Habersann
32P, SS

149 Gross, Prthur L.
10607 Cedar Elm
San Antonio, Texas 78230
Arthur L. Gross
3H, SS

150 Harbor General Hospital
1000 West Carson Street
Building A-1
Torrance, California
J. G. Bennett
35S

151 Harper keospital
3225 Brush Street
Cerrit, Michigan 48201
V. W. Farneti, Purchasing Agent
CSI

152 Harvard University
75 Mount Auburn Street
Cambridge, Massachusetts
F. S. Rollen
198Au, 140Ba, 1JH, 85Kr, 99Tc,
94Tc

153 Hawaii University Of
Honolulu, Hawaii 96822
F. J. Rogers, Purchasing Agent
199Au, 131I, 32P, 89Sr, 35S

154 Hazleton Nuclear Science Corporation
4062 Fabian
Palo Alto, California
E. C. Lawrence
137Cs, 152+154Eu, 131I, 85Kr

155 Henry Ford Hospital
2796 West Grand Boulevard
Cerrit, Michigan
L. Preuss
131I, 99Tc

156 Highland View County Hospital
2541 Ireland Drive
Cleveland, Ohio 44122
Anthony L. Pastel, Procurement Officer
42K, 24Na

157 Honeywell, Inc.
5234 Washington Avenue, South
Hopkins, Minnesota 55343
C. C. Fren
69Cu, 63Ni, 109Pd, RSI

158 Hospital For Joint Diseases
Madison Avenue And 124th Street
New York, New York 10021
Cr. Phillip Hoffman
35S

159 Hospital For Special Surgery
52E East 70th Street
New York, New York 10021
Cr. E. Smith
87Sr(B)

160 Houston University Of
Calitc, Texas 77201
Jen A. Dardley, Purchasing Agent
35S

161 Howard Hughes Medical Institute
Pest Office Box 2628
Miami Beach, Florida 33140
Jen A. Beagle, Purchasing Agent
as5

162 Howard University
2401 6th Street
Washington, D. C. 20001
Thomas D. Lour, Purchasing Agent
33C

163 Hughes Aircraft Company
Research Laboratories
2011 Malibu Canyon Road
Palitbu, California
E. Jones, Buyer
1.11Ir

164 Idaho State College
Ficaleillc, Idaho
Cr. J. L. Thompson
CSI

165 Idaho, University Of
Moscow, Idaho 83843
L. C. Garner, Purchasing Agent
162G

166 Illinois Institute Of Technology
2500 S. Federal Street
Chicago, Illinois 60616
W. G. Porgon, Purchasing Agent
SI(A)
107 Illinois, University Of
203 Administration Building E
Urbana, Illinois 61803
C. L. Hartman, Buyer

\[^{132,133}\text{Ce}(S), \ 1^{44,45,46}\text{Ca}, \ 1^{38,39}\text{Cl}, \ 1^{40}\text{C}, \ 1^{39,40}\text{Fe}, \ 1^{23,24}\text{K}, \ 3^{5,52}\text{Mn}, \ 4^{2}F, \ 6^{8}\text{Rb}, \ 8^{5}\text{Sr}, \ 1^{19}\text{Fe}(S), \ 3^{5}S, \ 3^{5,52}S, \ 3^{5}Ar\]

168 Indiana University
Purcell Hall, Bloomington, Indiana
R. H. Cooper, Purchasing Department

\[^{45}\text{Ca}, \ 4^{5}\text{Ca}, \ 3^{5}\text{Cl}, \ 1^{4}C, \ 3^{3,35}\text{Cs}, \ 1^{3}^{1}, \ 1^{3}^{2}, \ 1^{3}^{3}, \ 6^{9}\text{K}, \ 3^{2,32}\text{P}, \ 3^{5,52}\text{Rb}, \ 6^{8}\text{Sr}, \ 3^{5}S, \ 3^{5,52}S, \ 3^{5}Ar\]

165 Indiana University Medical Center
1100 West Pimilco Street
Indianapolis, Indiana 46207

RSI(E):

170 Indiana University Medical Center
Central Department
Indianapolis, Indiana

2^{4}Mg(E):

171 Institute For Muscle Disease, Inc.
515 East 71st Street
New York, New York 10021

Irene Morgan, Purchasing Department

172 Institute Of Paper Chemistry
Exx 1048
Appleton, Wisconsin

C. W. Theisen, Assistant Controller

110Ag:

173 Instruments, Inc.
3102 Charles Page Boulevard
Tulsa, Oklahoma 74101

J. R. Marshall

137Cs, SS

174 Iso-Serve, Inc.
Cambridge, Massachusetts

2^{4}Mg(E):

175 International Business Machines Corp.
P.O. Box 218
Yorktown Heights, New York 10598

J. A. Bright, Euyer

110Ag, 12^{4}St

176 International Chemical And Nuclear Corporation
1332 Last Street
City Of Industry, California

Fiss Ann Schechter

1^{4}C, 3^{5}I, SS

177 International Resistance Co.
401 North Broad Street
Philadelphia, Pennsylvania 19108

R. N. Kempf, Buyer

1^{3}K:

178 International Telephone And Telegraph Labs.
Hutley, New Jersey

3^{5}:

175 Iowa State College
Ames, Iowa

P. F. Vogt, Radiation Safety Officer

1^{4}C, 3^{2}P, 8^{6}Rb:

176 Iowa State University Of
Iowa City, Iowa

P. G. Ewing, Purchasing Agent

1^{1}^{1}C, 3^{2}P, 8^{6}Rb, 9^{9}Tc(B):

177 Iosefes Incoporated
122 Woodland Avenue
Hoboken, New Jersey

P. E. Krey

3^{7}P, 1^{4}O, \ 1^{4}C, 1^{37}Cs, 9^{9}Tc(B), 3^{2}P, 1^{4}P, 9^{6}Sr, 1^{33}I:

178 Itek Corporation
Lexington, Massachusetts

H. Sheild, Purchasing Agent

110Ag, SS

179 Jackson Memorial Hospital
Division of Nuclear Medicine
Miami, Florida

9^{9}Tc(E):

180 Jefferson Medical College
207 South Street
Philadelphia, Pennsylvania 19107

E. F. X. Hauserger

1^{3}^{1}I, 8^{6}Rb, 3^{5}S, 9^{9}Tc(B):

181 Jewish Chronic Disease Hospital
86 East 49th Street
Brooklyn, New York

E. E. Wisenfield

1^{3}^{1}I, RSI(E):

182 Johns Hopkins University
Baltimore, Maryland 21218

C. W. Mack, Euyer

8^{7}Ca, 3^{5}Cl, 1^{35}I, 1^{3}^{2}P, 1^{3}^{3}I, 4^{2}K, 1^{4}Cl, 2^{4}Ba, 8^{6}Rb, RSI, 8^{9}Sr, 8^{7}Er(B); SS, 9^{9}Tc(E), 1^{33}Xe

183 Kansas State College
Manhattan, Kansas 66504

John P. Lambert, Radiation Safety Officer

1^{4}C, 1^{92}Ir, 1^{4}Nd, 3^{2}P, RSI, 1^{0}3Ru, 3^{5}S, SS

184 Kansas State University
Manhattan, Kansas 66503

R. N. Kempf, Euyer

9^{2}Ar, 5^{4}Cl, 3^{2}P

185 Kentucky Medical Center
Lexington, Kentucky 40506

R. J. Brown, Director

1^{3}^{2}I, 8^{6}Rb, 3^{5}S, SS

186 Kentucky State College
Frankfort, Kentucky 40601

R. J. Brown, Euyer

1^{3}^{2}I, 8^{6}Rb, 3^{5}S, SS

187 Kentucky University
Lexington, Kentucky 40506

R. N. Kempf, Euyer

9^{2}Ar, 5^{4}Cl, 3^{2}P
189 Kentucky, University of
Lexington, Kentucky
D. D. Covacs
$^{45}$Ca, $^{137}$Cs, $^{54}$Fe, $^{197}$Hg, $^{203}$Hg, $^{3}$H,
$^{9}$Nb, $^{38}$F, $^{68}$Ga, SI(A), $^{35}$S, $^{33}$S,
$^{133}$Xe, $^{95}$Zr

190 Charles F. M. Ketner Foundation
150 East South College Street
Yellow Springs, Ohio 45387
J. C. Crawford
$^{32}$P

191 King College
Office of The Bursar
Princeton, Tennessee 07420
P. K. Bingham, Bursar
$^{131}$I

152 King County Hospital
Seattle, Washington
$^{131}$I(E)

153 Knolls Atomic Power Laboratory
P.O. Box 1072
Schenectady, New York
P. E. Pitzer
$^{98}$Zr

154 Krege Eye Institute
950 Pulleit Street
Detroit, Michigan
Dr. E. V. Kinsey
$^{42}$K, $^{44}$Ca, $^{84}$Ab

195 Lanza, Anthony J., Research Laboratory
New York University Dept. Environment Medicine
Tuxedo, New York
$^{99}$Tc(II)

156 Lawrence Radiation Laboratory
University of California
Room 205A, Building No. 4
Berkeley, California
$^{111}$Cd(II), $^{149}$Fe(II), $^{101}$Gd(II),
$^{177}$Lu(II), $^{32}$F(II), $^{68}$Ga, $^{103}$Te(II)

157 Lawrence Radiation Laboratory
University of California
Livermore, California
$^{252}$Cf(S), $^{244}$Cm(S), $^{246}$Cm(S), $^{257}$Fm(S),
$^{160}$Ge(S), $^{131}$I(II), $^{210}$Po(II)

158 Lenox hill Hospital
11 East 76th Street
New York 10021
Dr. R. H. Paley
$^{131}$I

199 Lilly, Eli and Co.,
Indianapolis, Indiana
$^{99}$Tc(S)

200 Ling Temco-Vought
Post Office Box 5507
Dallas, Texas 75222
E. J. Earlsmith, Buyer
$^{130}$Xe

201 Lockheed Aircraft Corporation
Post Office Box 94
Missiles and Space
Surryvale, California
J. Danaher, Buyer
$^{132}$Xe, $^{99}$Co, $^{60}$Co, $^{60}$Co, $^{3}$H, $^{3}$H,
$^{85}$Kr, $^{60}$Co, RL, $^{90}$Sr, $^{99}$Tc,
$^{188}$W

202 Lockheed Georgia Company
Crawntville, Georgia
$^{60}$Co(II)

203 Lebo Island Jerish Hospital
New Hyde Park, L. I., New York
$^{99}$Tc(II)

204 Los Alamos Scientific Laboratory
University of California
Los Alamos, California
$^{132}$Te(II)

205 Louisiana State University
Nuclear Science Center
P. O. Box 6070
Baton Rouge, Louisiana
E. L. Richardson
$^{111}$Cd, $^{113}$Ag, $^{64}$Cu, $^{188}$Au, $^{115}$Cd,
$^{106}$Co, $^{64}$Cu, $^{152}$Eu, $^{76}$Se, $^{38}$Ar,
$^{203}$Hg, $^{112}$In, $^{142}$I, $^{140}$La, $^{99}$Mo,
$^{24}$Na, $^{97}$Nb, $^{98}$Os, $^{88}$Rb, $^{186}$Re,
$^{109}$Ag, $^{198}$Au, $^{176}$Sn, $^{64}$Cu, $^{153}$Sn,
$^{197}$Tc, $^{95}$Zr

206 Louisville, University of
Belknap Campus
Louisville, Kentucky
L. M. Gruber
$^{34}$Cl, $^{33}$S, $^{31}$P

207 Loyola University
656 N. Sheridan Road
Chicago, Illinois
Dr. T. Spencer
$^{133}$Ba, $^{87}$Cs, $^{84}$Cu, SI(A), $^{33}$S

208 Lynch Radiological Services
1370, Orlando Avenue
Los Angeles, California
T. W. Lynch
$^{198}$Au

209 Macalester College
St. Paul, Minnesota 55101
C. H. Shiflet
$^{45}$Ca
210 Palenrodes Hospital
Brooklyn, New York
Cr. Kruser
20Pb

211 Paltinkrodt Chemical Works
2nd And Palllneckrodt Streets
St. Louis, Missouri
L. W. Fawitzy, Purchasing Agent
233Hg, 86Rb, SS

212 Parquardt Aircraft Company
Van nuys, California
Gerden P. Sherr

147Pm

213 The Partin Company
Baltimore, Paryland
E. B. Sache, Euyer
106Co, 117Pm, 85Sr

214 Partin Parunetta Corporation
Partin Company, Nuclear Division
Pallnckrodt, Paryland 21202
90Sr(4)

215 Paryland, University Of
College Park, Paryland
192Ir, 95Kr, 191Os

216 Massachusetts General Hospital
Isotope Laboratory
Boston, Massachusetts
J. F. Balcus
111Ag, 133Xe

217 Massachusetts Institute Of Technology
E cs 63)
Cambridge, Massachusetts
140Ba, 115Cd, 11C, 152+154Eu, 159Eu,
131I, 125I, 122Sb, 124Sb

218 Massachusetts, University Of
Amherst, Massachusetts
W. R. Harvey
125Sb, 35Cl

219 Mayo Clinic
Rochester, Minnesota
E. C. Southrick, Purchasing Agent
57Co, 152+154Eu, 89Sr, 133Xe, 91I

220 Pedical College Of Georgia
Talmadge Memorial Hospital
Augusta, Georgia
Dr. J. E. Hudson
131I, 32F, 35S, SS

221 Pedical College Of The State Of South Carolina
Charleston, South Carolina
M. G. Keidner
85Kr

222 Pedical College Of Virginia
12th And Marshall Streets
Richmond, Virginia 23219
J. T. Eayham, Purchasing Agent
36Cl, 60Co, 131I, 24Na

222 Kellem Institute
4400 Fifth Avenue
Pittsburgh, Pennsylvania
Dr. R. H. Schuler
32P

224 Kelper, Incorporated
7100 Arlington Boulevard
Falls Church, Virginia
J. J. Rocney, Purchasing Agent
110Ag, SS

225 Perck And Company
Way, New Jersey 07065
A. R. Braumiller
47Ca, 60Co, 133Xe

226 Florida University Of
Post Office Ecs 8066
Coral Gables, Florida
E. J. Davis, Purchasing Agent
115Cs, 131I, 85Kr, 42K, RSI

227 Florida University
Cxford, Ohio
R. G. Young, Cirector Of Purchases
36Cl

228 Michae1-Reese Hospital
25th Street And Ellis Avenue
Chicago, Illinois 60616
Cr. E Levin
147Pm, SS

229 Vichigan State College
East Lansing, Pichigan
W. E. Richards
110Ac, 82Br, 144Ce, 60Co, 11C, 137Cs,
152+154Eu, 63I, 147Pm, 32P, RSI,
35Cl, SS

230 Vichigan Technological University
Houghton, Michigan 49931
R. L. Sibilsky, Purchasing Agent
32F, 90Sr

231 Vichigan, University Of
Erb, Michigan
W. L. Zubick, Director Of Purchasing
194Ac, CSI, 137Cs, 59Fe, FP, 131I,
24Na, 32P, 86Rb, 35S, SS,
99Tc, 133Xe, 91Y

232 Milliteon Incorporated
454 Lincoln Highway, East
Ital, Pennsylvania 15642
A. J. Kontakos
137Cs, FPSS
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<tr>
<th>Company</th>
<th>Address</th>
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<tr>
<td>Fine Safety Appliance Company</td>
<td>201 North Braddock Avenue</td>
<td>Pittsburgh, Pennsylvania</td>
<td>J. K. Leith</td>
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<td>Finncosta Pining And Manufacturing Company</td>
<td>Post Office Box 317</td>
<td>St. Paul, Minnesota</td>
<td>R. J. Kunz</td>
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<td>133Ha, 191Cs, 144Ce, SCc, Tl*</td>
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<td>Finncosta University Of</td>
<td>402 Morrill Hall</td>
<td>Minneapolis, Minnesota</td>
<td>E. F. Lamper,</td>
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<td>P Monsanto Company</td>
<td>Post Office Box 1311</td>
<td>Texas City, Texas</td>
<td>E. J. Fields,</td>
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<td>Director Of Purchasing</td>
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<td>210Bi, 60Co, 14C, 191Cs, SI(A)(139Ba)</td>
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<td>P Monsanto Research Corporation</td>
<td>1515 Nicholas Road</td>
<td>Cayten, Ohio</td>
<td>54518</td>
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<td>P Monsanto Research Corporation</td>
<td>Found Laboratory</td>
<td>Post Office Box 32</td>
<td>E. B. Henius</td>
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<td>311(B), 99Tc(Y)</td>
<td>E. C. Fits, Purchasing Agent</td>
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276 Nuclear Corporation of America
7500 Crescent Drive
E. K. Kurskowitz, Purchasing Agent

277 Nuclear Equipment Corp.
Arocol, Pennsylvania 15613
C. W. Flint
60Co, 210Po(p)

278 University of Texas
4410 South Sunset Street
Houston, Texas
G. Herbert C. Allen
40Sc

279 Nuclear Research Chemicals, Inc.
100 North Crystal Lake Drive
Orlando, Florida
Dr. C. A. Greathouse
19F, 39

280 Nuclear Research Corporation
Street Road and Second Street Pike
Southampton, Pennsylvania
Earl Pollock, President
137Cs, FFSS, SS

281 Nuclear Science and Engineering Corporation
First Office Box 10907
Pittsburgh, Pennsylvania
P. A. Ceston
36Cl, 60Co, CSi, 137Cs, FFSC, 147Pr, 90Sr, SS

282 Nuclear Company of America
1556 De Graw Street
Brooklyn, New York
Dr. E. Schleske
60Co, 11C, 182Ir, 39S

283 Oak Ridge Associated Universities
Post Office Box 117
Oak Ridge, Tennessee
H. E. Elliot, Purchasing Agent
99Tc(B)

284 Oak Ridge National Laboratory
K-20
Oak Ridge, Tennessee 37831
27Al(S), 242Am(P), 109Cd(S), 36Cl(D), 60Co(E), 90Co(S), 137Cs(I), 65Fe(S), Fe(E), 203Hg(S), 39K(S), 125I(S), Na(D), K(S), 192Ir(S), 242Pu(S, SIu), 134Se(S), 32P(L), 32S(S), 125Te(E), 125Te(S), 137Cs(S), 148Nd(S), 153Sm(S)

285 Oberlin College
Oberlin, Ohio
J. L. Fowell
89Sr

286 Occidental College
1600 Campus Road
Los Angeles, California
E. Granelli, Purchasing Agent
131I

287 Ohio Agricultural Research and Development Center
Columbia, Ohio 44601
L. B. Vaughn, Comptroller
110mAg, 140Ce, 42K, 35E, 91Y, 95Zr

288 Ohio State University
1524 North Oval Drive
Columbus, Ohio 43210
J. E. Medi, Director of Purchasing
89Sr, 109Cd, 242Cm, 203Hg, 39K, 111In, 131I, 85Kr, 147Cs, 63I, 60Co, 133Ba, 68Ga, 87Sr(B), 35S, SS, 39Y

289 Ohio University
Ohio, Ohio
A. H. Herbert, Purchasing Agent
95Zr

290 Oklahoma A and M College
Stillwater, Oklahoma
Fred Mcbride, Assistant Purchasing Agent
113mAg, 190Ar

291 Ciman Resite Chemical Corporation
274 Winchester Avenue
New Haven, Connecticut
C. E. Michelson
45Ca, 36Cl, 32F, 35S, 65Zn

292 Oregon State College
Corvallis, Oregon
Lila Shore, Authorizing Agent
109Pd, 111Ag, 36Cl, 42K, 32F, 66Rb, 68Rb, 35S

293 Oregon, University of
Eugene, Oregon
M. P. Mclaughlin, Business Manager
110mAg, 147Ca, 36Cl, 131I, 42K, 68Rb, 109Pd

294 Oregon, University Medical School
Portland, Oregon
131I(B)

295 Owens-Illinois Glass Company
1700 N. Westwood Avenue
Toledo, Ohio
L. F. Riley
110mAg, 39K, 197Fe, SS

296 Pananetics, Inc.
221 Crescent Street
Walpole, Massachusetts
A. Cucchiara
89Sr
257 Pennsylvania Hospital
Eighth Pud Spruce Street
Philadelphia, Pennsylvania
Dr. C. S. Ling

241Cl, 82K, 86Rb, 99Tc(P)

298 Pennsylvania State College
University Park, Pennsylvania
E. A. Eaker

191C, 111In, 32F, RSI. 89Sr, 35S, 207T

259 Pennsylvania, University Cf
3025 walnut Street
Philadelphia, Pennsylvania
E. J. Sweitz

9H, 85Kr, 32F, 35S, 133Xe

300 Peter Bent Brigham Hospital
721 buntington Avenue
Boston, Massachusetts
Dr. R. Gerlin

181Hf, 85Kr

301 Phillips Petroleum Company
Paitsville, Oklahoma

8Al(F), 98Ag(F), 196Au(P), 115Cd(P), 117Cd(V), 64Co(P), 66Cu(P),
135Br(F), 141Er(P), 152Eu(P), 154Eu(P), 154Gd(P), 194Ir(F), 198Ir(F), 177Lu(P),
89Po(F), 99Na(P), 99Tl(F), 151Nd(F),
59Ni(F), 177Tl(P), 86Rb(P), 315I(F),
119Sm(P), 115Sn(F), 182Ta(F), 197Tl(F),
180Ta(F), 325P(F)

302 Fiker X-Ray Corporation
17325 Euclid Avenue
Cleveland, Chic
J. Dunn

60Co, 137Cs, Fe39, 197Hg, RSI, SS

303 Piper hell Surveys
Box 261
Bradford, Pennsylvania
E. J. Piper

46Sc

304 Pittsburgh, University Cf
Pittsburgh, Pennsylvania 15213
C. J. Brewer, Director Of Purchases

115Cd, 34Cl, 64Co, 152Eu, 131I,
32P, 84Sr, 113Sn

305 Pemca College
747 bcrith Dartmouth Avenue
Clareacnt, California 91712
E. L. Ryerson

42K

306 Potter And Drumfield
Princeton, Indiana 47570
E. Ccx, Purchasing

65Kr

307 Presbyterian Pedical Center
Clay And Webster Streets
San Francisco, California
Dr. J. M. Lowenstein

68Rb, 35S

308 Princeton University
Princeto, New Jersey
6. A. Winters

CSI, 32P, 35m

309 Frceet And Garble Company
Post Office Bxt 175
Cressbear Station
Cincinnati, Chic
F. W. Lange

137Cs, 3H, 32P, RSI(B), 106Ru, 35S, EE

310 Public Health fiesearch Institute Of New York
Fect Of East 16th Street
New York, New York 10009
Florence M. Zulbert

131I, 32P

311 Fueric Rio, University Of
Puerto Rico Nuclear Center
College Station
Mayaguez, Puerto Rico
60706
J. P. Colon

59Fe

312 Purdue University
Lafayete, Indiana
F. L. Ziemer

77As, 140Ba, CSI(A)(235U),
CSI(F)(ZPB), CSI(A)(194F),
CSI(F)(181Ta), CSI(A)(159Ag),
CSI(F)(187Re), CSI(A)(170Te),
CSI(F)(207Pb), CSI(A)(238U), 42K,
289Br(B), 29Na, 32P, 106Ru, RSI,
106Ru, SIA(A), 187Ta

313 Resdration Research Corporation
1110 Shames Drive
Beverly, New York
Phylles Chuchlolo

3H

314 Radiocarbon Laboratories, Inc.
12C Chester Avenue
San Francisco, California 94132
Dr. J. W. Davis, Jr

315

315 Radiocotope Techniques, Inc.
11416 La Cienega Boulevard
Inglewood, California 90304
Grant W. Ryan, Purchasing Agent

65Kr

316 Rad Science Corporation
1515 Pent[us Avenue
Los Angeles, California
Mary Wollin, Purchasing Agent

65Kr
360 Stanford University
200 Pasteur Drive
Palo Alto, California
W. F. Koss
110Ag, 110mAg, 110mHf, 125I, 137Cs, 169Ho, 194Hg(E)

3E1 Stanley Aviation Corporation
P.O. Box 20306
Denver, Colorado 80220
R. J. Spencer, Buyer
SS

362 Stauffer Chemical Company
Eastern Research Center
Chehms Ferry, New York 10522
RSI(E)

3E3 Steiner American Corporation
P.O. Box 6299
Salt Lake City, Utah 84113
L. F. Luechauer
14C

364 Sylvania Electric Products, Inc.
Twanda, Pennsylvania 16644
144Ce, 152+154Eu, 156Ho, 156E, 159Eu, 161Tm

3E5 Syntex Institute for Molecular Biology
340 Hillview Avenue
Palo Alto, California
Conrad E. Fegles, Purchasing Agent
3H

3E6 Technical Operations
South PItene
Eurlington, Massachusetts
R. J. Frest
RSI

3E7 Temple University
Broad and Montgomery Streets
Philadelphia, Pennsylvania 15140
W. T. Hareley
37A, 55e, 99Te(E), 133Xe

368 Tennessee, University Of
P.D. 257
Memphis, Tennessee
110Ag, 3H, 114In, 125I, 135S, 55Se

3E9 Texaco Incorporated
1200 New York Avenue
Long Island City, New York 11101
W. E. Jones
3H

370 Texas & Southwestern College
P.O. Box 44
College Station, Texas
W. J. Ellis
45Sc, 115Cd, 115Hf, 85Sr, 89Sr, SS, 64Zn

371 Texas Instruments, Inc.
P.O. Box 5474
Dallas, Texas
R. C. Hoell, Purchasing Agent
375, 44Cu, 197Hg, 203Hg, 85Kr, 99Re, SS, 131I, 133Xe

372 Texas Nuclear Corporation
P.O. Box 9287
Pustin, Texas 78756
J. L. Morgan, Executive Vice President
3H

373 Texas State College, North
Denton, Texas
E. C. Caudwell, Business Manager
42K

374 Texas Technological College
Texas Agricultural Experiment Station
Lubbock, Texas 79409
J. P. House
349Re

375 Texas, University Of
Pustin, Texas 78712
E. F. Glourney
82Er, 99Mn, 131Xe

376 Texas, University Of Houston
P.O. Box 2069
Houston, Texas 77201
3H

377 Texas Infirmary
500 Pritchard Street
New Orleans, Louisiana
Dr. R. N. Nadler
42K

378 Traceolab Inc.
1661 Trapelo Road
Waltham, Massachusetts 02154
L. Karp
140Ba, 115Cd, 115Cd, 14C, 137Cs, 125I, 76Kr, FP, FPSS, 203Hg, 3H, 114In, 90Y, 44Sc, 99mTc, 131I, 133Xe, 137Cs, 85Kr

379 Texas Instruments Group
One Space Park
Kedcrrc, California
C. A. Fierce, Buyer
131I, 85Kr

386 Tufts College, Central School
176 Harrison Avenue
Boston, Massachusetts
E. J. Schnible, Purchasing Agent
32F
381 Tulane University  
New Orleans, Louisiana 70118  
J. U. Hidalgo  
\[ ^{132}P, \ 131I, \ 42K, \ 14O \text{La}, \ 208 \text{Pb}, \ 24Na, \ 32P, \ 36Cl, \ 36S, \ 75Se, \ 87Sr, \ 90Sb, \ 92Sr, \ 135I \]

382 Tulsa University Of  
EO South College  
Tulsa, Oklahoma  
E. D. Staies, Assistant Treasurer  
\[ 14C \]

383 Tumor Institute of the Swedish Hospital  
Seattle, Washington  
\[ ^{87}R(E) \]

384 Tuskegee Institute  
Post Office Box 1319  
Tuskegee Institute, Alabama 36088  
J. A. Fernandes  
\[ ^{60}Co, \ 131I, \ 32P, \ 33S \]

385 Union Carbide Nuclear Company  
Long Meadow Food  
Post Office Box 324  
Tuxedo, New York  
R. W. Harrison  
\[ 14C, \ 60Co, \ 137Cs, \ 99Mo(E), \ 99Tc(E) \]

386 Union University Albany Medical College  
47 North Clinton Avenue  
Albany, New York 12208  
L. J. Flansburg, Purchasing Agent  
\[ ^{85}Kr, \ 32P, \ 3S \]

387 United Aircraft Corp.  
Silver Lane  
Fairfield, Connecticut  
J. H. McInerlin  
\[ ^{85}Kr, \ 32P, \ 3S, \ 137Xe \]

388 United States Agriculture, Department Of  
Crop Research Division, ARS  
Plant Industry Station  
Beltsville, Maryland  
E. L. Parshall, Procurement Officer  
\[ ^{198}Au, \ 109Cd, \ 14C, \ 44Cu, \ 42K, \ 22Na, \ 32P, \ 36Cl, \ 36S, \ 87Sr, \ 90Sb, \ 85Se, \ 33S, \ 3S \]

389 United States Air Force  
McClellan Air Force Base, California  
Charles H. Anderson, Captain  
\[ ^{198}Au, \ 32P, \ 22Na, \ 185W \]

390 United States Air Force National Advisory Committee  
Mclean Air Force Base, Pennsylvania  
Curville G. Kelley, General Fcrenan  
\[ ^{88}Kr \]

391 United States Air Force  
AFSCC 13, Building 14, Pea E  
Wright Patterson Air Force Base, Ohio  
45433  
D. L. Stahl, Contracting Officer  
\[ ^{198}Au, \ 131I, \ 103Ru, \ 91Y \]

392 United States Army  
Edgewood Arsenal, Maryland 21010  
S. W. Siler, Contracting Officer  
\[ ^{131I}, \ 132I(0), \ 32P, \ 87Sr \]

393 United States Army  
Fort McClellan, Alabama 36025  
Mary W. Kirk  
\[ ^{198}Au, \ 203Hg, \ 140La, \ 95Nb, \ 86Rb \]

394 United States Army  
Fort Island, Illinois 61202  
F. L. Cannenfield, Contracting Officer  
5S1

395 United States Army, Army Medical Center  
Walter Reed Army Medical Center  
Washington, D. C. 20012  
J. J. Cegla  
\[ ^{45}Ca, \ 124Sb, \ 89Sr, \ 133Xe, \ 95Y, \ 65Zn \]

396 United States Army Biological Laboratories  
Ft. Detrick, Maryland  
H. P. Fleurenauer  
\[ ^{131I}, \ 33F \]

397 United States Army Medical Center  
Ft. Detrick, Maryland  
35401  
L. C. Brown  
\[ 133Xe \]

398 United States Army Picatinny Arsenal  
Ft. Dix, New Jersey  
R. Hachadoorian  
\[ ^{131}Ba, \ 133Ba, \ 134Ba, \ 137Ba, \ 95Zr \]

399 United States Army Redstone Arsenal  
Ft. R. D. Division  
Evaluating 7-3152  
Redstone Arsenal, Alabama 35809  
E. G. Rowland  
5SI

400 United States Army Support Center  
12th And Spruce Streets  
St. Louis, Missouri 63102  
F. E. Hiltz, Contracting Officer  
FF

401 United States Army, West Point  
United States Military Academy  
West Point, New York 10996  
Fred A. Chils, Activity Supply Officer  
\[ 144Ce, \ 55S \]

402 United States Food And Drug Administration  
South Agriculture Building  
12th And C Streets, SW  
Washington, D. C.  
E. P. Laug  
\[ ^{114}Ac, \ 129Ba, \ 130Ba, \ 78Cu, \ 144Ce, \ 51Cr, \ 137Cs, \ 86Cu, \ 54Fe, \ 203Hg, \ 44K, \ 140La, \ 95Nb, \ 147Nd, \ 124Sr, \ 32P, \ 103Ru, \ 104Ru, \ 90Sr, \ 55S, \ 92Zr \]
403 United States National Perenastsics and Space Administration
Lewis Research Center
21000 Erckert Park Road
Cleveland, Ohio 44125
E. Z. Torre
158Ba,
131Ba,
115Cd,
65Kr,
95Nb,
147Nd,
106Ru,
90Sr,
88Sc,
SS

404 United States Naval Submarine Base
Croton, Connecticut
6634C
E. H. Bang, Contracting Officer
24Na,
187W,
90Y

405 United States Navy Mare Island Naval Shipyard
Vallejo, California
C. E. Jennings
99Te,
124Sb

406 United States Navy National Naval Medical Center
Bethesda, Maryland
C. E. Rosals, Contracting Officer
99Te,
131I

407 United States Navy Naval Paran Development Station
Johnsville, Pennsylvania
C. F. Prigetsinger
32P

408 United States Navy, Naval Medical Research
Exx
14
AFB San Francisco, California 92625
R. S. Ricketson, Lt. MC
34Cl,
55S

409 United States Navy Naval Ordnance Laboratory
White Oak
Silver Spring, Maryland
60Co,
131I,
90Sr

410 United States Navy Naval Postgraduate School
Monterey, California
CLO 4 D. R. Siler, Assistant Supply And Fiscal
131I

411 United States Navy Naval Radiological Defense Laboratory
San Francisco, California 54135
A. C. Czobn
198Au,
131Ba,
140Ba,
45Ca,
144Ce,
137Cs,
181Ta,
203Hg,
111In,
122I(E),
42K,
74Cs,
2Na,
95Sb,
109Pd,
32P,
84Rb,
106Re,
GSI,
108Ru,
90Sr,
SS,
132Te(E),
204Tl,
99Te

412 United States Navy Naval Research Laboratory
Washington, D.C. 20350
C. Linehan, Contracting Officer
38,
2Na,
81,
SS

413 United States Nuclear Corporation
801 North Lake Street
Eurbank, California
K. Anlauer
109Cd,
60Co,
40Co,
GSI,
137Cs,
FESS,
31,
95Sr,
204Tl,
51Tm,
133Xe

414 United States Public Health Service Hospital
National Institutes Of Health
Bethesda, Maryland
E. H. high

415 United States Public Health Service Hospital
National Institutes Of Health Isotope Laboratory
Building 21
Bethesda, Maryland
J. B. Brown, Lt.
47Ca,
46Cl,
99Fe,
203Hg,
131I,
85Kr,
48K,
22P,
68Re,
35S

416 United States Public Health Service Hospital
Robert A. Taft Sanitary Engineering Center
4676 Columbia Parkway
Cincinnati, Ohio 45226
K. F. Schrader, Procurement Assistant
131I,
103Ru,
109Ru

417 United States Public Health Service Hospital
Rocky Mountain Laboratory
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E. E. Anderson
32P

418 United States Public Health Service Hospital
Post Office Box 684
455 Maryland Parkway
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R. B. Catlund, General Services Assistant
37P,
7As,
FP,
124Sb,
SS,
187W,
133Xe

419 United States Public Health Service Hospital
Post Office Box 61
Montgomery, Alabama 36101
F. H. Gorrie
146Ba,
44Ce,
60Co,
32P,
142La,
99Zr

420 United States Public Health Service Hospital
Rockville, Maryland
C. E. Kincaid
132Te(E)

421 United States Public Health Service Hospital
San Francisco, California
201P(B)

422 United States Public Health Service Hospital
Eay Street And Vanderbilt Avenue
State Island, New York 10024
J. E. Sturgeon, Chief, Supply Section
85Kr

423 United States Public Health Service Hospital
300 Independence Avenue, S.W.
Washington, D.C. 20201
Helen S. Shartzer, Purchasing Agent
131I,
99Mo,
32P,
103Ru,
85Sr,
35S
424 United States Public Health Service
Northeastern Radiological Health Laboratory
100 Folton Street
Worcester, Massachusetts
Paul L. Foulin, Ordering Officer
104Ru

425 United States Radium Corporation
4150 Old Berwick Road
Post Office Box 380
Elco, Co., Pennsylvania
J. G. Woolвших
60CO, 137Cs, 3H, 63Ni, 210Pc(M),
90Sr, SS

426 Unit Process Assemblies, Inc.
51-15 17th Avenue
Woodside, New York 11377
J. J. Ceinstock
147Pm, 90Sr

427 Universal Patch Corporation
Unidynamics/Phoenix Division
Research Department
1000 North Litchfield Road
Goodyear, Arizona
60CO(E)

428 Upjohn Company, Inc.
101 Kenmore Street
Kalamazoo, Michigan
E. S. Gause, Purchasing Agent
82Br, 137Cs, 3H, 23K, 24Na, SS

429 Utah State Agriculture College
Logan, Utah 84316
F. H. Baugh, Purchasing Agent
32P

430 Utah, University Of
Purchasing Department
Salt Lake City, Utah 84112
William Christensen, Purchasing Agent
32P, 133Xe

431 Vanderbilt University
Business Managers Office
Nashville, Tennessee
June Jenkins
60CO, 137Cs, 62K, 32P, 86Rb, 184Re,
48Sc, SS, 137Cs, 99Tc(E)

432 Varian Associates
611 Hansen Way
Palo Alto, California 94302
Hamiltcr Shutt, Manager Purchasing
60Co

433 Veterans Administration
3485 Bayley Avenue
Buffalo, New York 14215
Henry G. Gawel, Chief
47Ce

434 Veterans Administration
1250 Anastasia Avenue
Coral Gables, Florida
W. G. Rather, Chief Supply Division
133Xe

435 Veterans Administration Center
110 Angeles, California
289g(B), 99Tc(E)

436 Veterans Administration Center
Edc, Wisconsin
87Co, 65Cu

437 Veterans Administration Hospital
Boston, Massachusetts
289g(B)

438 Veterans Administration Hospital
Chief, Fiscal Division
125 Kingsbridge Road
Erangen, New York 10468
J. S. Santry, Purchasing Agent
138I

439 Veterans Administration Hospital
Kest Side Hospital
620 South Damen Avenue
Chicago, Illinois 60612
47Ca, 131I(B), 99Tc(E)

440 Veterans Administration Hospital
1461 West Tenth Street
Indianapolis, Indiana 46207
F. B. Cwenger
65Kr, 86Rb

441 Veterans Administration Hospital
Iowa City, Iowa 52241
W. Paterson
24Na

442 Veterans Administration Hospital
Kest Side Hospital
620 South Damen Avenue
Chicago, Illinois 60612
E. E. Smith
86Rb, 75Se, 35C

443 Veterans Administration Hospital
54th Street Ana 46th Avenue S.
Minneapolis, Minnesota 55417
P. L. Novitzki
32P

444 Veterans Administration Hospital
1110 24th Avenue S.
Nashville, Tennessee 37202
L. J. Smack, Chief Of Procurement
35C
466 Wisconsin University
420 North Murray Street
Madison, Wisconsin 53706
R. L. Farnsworth

32Cl, 36Ca, 39K, 82K, 23Na, 39F, 64Rb, Si(A), 87Sr(E), 35S

467 Woods Hole Oceanographic Institute
Woods Hole, Massachusetts
A. T. Henderson


468 Wyoming, University Of
Laramie, Wyoming
W. A. Harris, Purchasing Agent
Si(A)

469 Xerox Corporation
Post Office Box 1540
Rochester, New York 14603
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68Cu

470 Yale University
20 Ashburn Street
New Haven, Connecticut
R. H. Cee, Euyer

111Ag, 133Ba, 77Ca, 36Cl, 39F, RSI(B), 95Sr, SS, 93Tc

471 Yoshida University
Yoshida Einstein College Of Medicine
110 West 87 Street
New York, New York 10019
J. S. Ferlestein

39F, 85Kr, 89Rb(B), 32P, RSI(F), 35S, 35S, SS

B. Foreign

ARGENTINA
472 Comision Nacional De Energia Electrica
Avenida Colón 8250
Buenos Aires, Argentina

97Co, 99Tc, 99Tc(B)

AUSTRALIA
473 Australian Atomic Research Establishment
Lucas Heights
Sydney, Australia

37A, 244Cm, 69F, 241Pu

474 Commonwealth X-Ray and Radiology Laboratory
Parramatta, Australia

97Tc(E)

BELGIUM
475 ECN Bureau Centrale de Mesures Nuclaires
Steenweg op Rellie
Geel, Belgium

240Pu, 241Pu, 234U, 235U, 236U

476 Belgicaleum CEN
144 Avenue Plasky
Brussels, Belgium

240Pu, 241Pu, 242Pu, 233U, 233U

477 Centre d Etude de l Energie Nucléaire
Pel-Tonk, Belgium

337, 35Cl, 68Fe, 89Kr, 63Ni, 90Sr, 133Ba

478 Cerenvand Fervers
15, Fue Venus
Arvers, Belgium

237Ne

479 Universite Le Trinite de Bruxelles
Service des Arts
SS, Pavee U. K. Roosevelt
Brussels E, Belgium

124I

CANADA
480 Patera, University Of
Surgical Hospital, Inst. Edmond, Alberta, Canada

89Sr

481 Atomic Energy of Canada Limited
Commercial Products Division
Tunnels, Ontario, Canada

243Am, 37A, 140Ba, 252Cf, 60Co, 237Ct, 152Eu, 69F, 89Kr, 99Mo, 99Tc(B), 209Pb, 211Pb, 103Ru, 106Ru, 89Sr, 90Sr, 91Tc

482 British Columbia, University Of
Department Of Physics
Vanayver W. E. C., Canada
K. C. Pann

144Ce, 137Cs, SS

483 Canada Department Of Agriculture
Research Branch Experimental Farm
Lac La Biche, Alberta, Canada

113Cd

484 Charles E. Freest and Company
1 Hallowell Street
Montreal, Quebec, Canada

89Y

485 Hospital Notre Dame
1550 East Avenue Sherbrooke Street
Montreal, Quebec, Canada

89Y

486 Paninova, University Of
Physics Department
Winnipeg, Manitoba, Canada

131I, 140Ba, 147Nd, 124Sb
487 McMaster University
Department of Physics
Kneural Research Building
Hamilton, Ontario, Canada
Dr. J. A. Cameron

104Ru

488 National Research Council
Division of Pure Physics
100 Sussex Drive
Ottawa, Ontario, Canada

3H

489 Catarin Veterinary College
Guelph, Ontario, Canada
Dr. G. A. Robinson

99Mo(E), 99Tc(E)

490 Ottawa, University of
Physics Department
375 braham Street
Ottawa, Ontario, Canada
C. Carinish

192Ir

491 Queens University
Etherington Hall
Kingston, Ontario, Canada
Purchasing Department

205Pb(E)

492 Royal Victoria Hospital
Room 2615, New Medical Wing
Respiratory Division
Pentreal 2, Quebec, Canada
Dr. E. V. Bates

133Xe

493 Sherbrooke, University Of
Chemistry Department
Sherbrooke, Que., Canada
Dr. A. A. Kuzzarelli

54Mn

494 Toronto General Hospital
101 College Street
Toronto 2, Ontario, Canada

133Xe

CHILE

495 Dr. George Hedgson
Catedra de Eiologia
Escuela de Medicina
20 de Enero 1042
Santiago, Chile

54Fe, 32P

496 Seccion Radioquimica
Instituto Central de Quimica
Universidad de Concepcion
Concepcion, Chile

50Co

497 Universidad De Chile
Instituto De Ciencias
Enlace Encalada 2008
Casilla 6524
Santiago, Chile
Dr. L. Yudilevitch

36Cl, 59Fe, 32P, 86Rb

CHINA

498 Chinese Government Procurement
And Service Proposals
Division For Taiwan Sugar Corp.
91 Eastway
New York, New York 10007

32F, 86Rb

499 National Tsing Hua University
110 Chin Hua Street
Taipei, Taiwan, China

45Ca, 55

COLOMBIA

500 Instituto De Asuntos nucleares
Bogota, Colombia, South America

32F, 86Rb

COSTA RICA

501 American Ambassador
Panamanian Embassy
San Jose, Costa Rica, 6. A.

60Co(E)

502 Radionuclides Laboratory
Nuclear Energy Program
176 Calle
Turrialba, Costa Rica

45Ca, 32P, 35S

FRANCE

503 Pensoeur Bernard
Laboratoires Lumine
15, Rue Henri Martin
Clenbens (Seine), France

3H

504 C, E. T., New York Office
272 Fifth Ave.
New York, N. Y. 10021
F. de Bellaligue, Director

115CeFr, 137Cs, 129I, 147Pm, 242Pu

505 Commisariat à l'Energie Atomique
New York Office
972 Fifth Avenue
New York 21, New York
F. de Bellaligue, Director

129I

506 Pensioeur F. Dugian
Compagnie Pechiney, L. R. M.
8 Rue Ampere
2E Grenoble, France

95K

507 Institut Francais du Petrole des
Carburants et Lubrifiants
1-4, Avenue du Bois-Preau 92
Bueil Malmaison, Seine and O.
France

147Ps
<table>
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<th>Code</th>
<th>Name and Address</th>
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<td>Masslct Philips 40 Avenue Roche Paris 8eme, France</td>
<td>France</td>
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<td>509</td>
<td>Saphydo 55 Rue Benoit Melon Gentilly, Seine, France</td>
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<td>510</td>
<td>Service des Radioelements Artificiels Ecte Postale No. 2</td>
<td>France</td>
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<td>Cif Sur Yvette (S + C), Pr. Fisher P. Regenbass</td>
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<td><strong>GERMANY</strong></td>
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<tr>
<td>511</td>
<td>Bundesanstalt fur Bodenforschung 3000 hannover Bucholz Germany Alfred Bentz Haus</td>
<td>Germany</td>
<td>235U, 236U</td>
</tr>
<tr>
<td>512</td>
<td>Chemisches Laboratorium der Universitat 75 Freiburg I. Br. Albertstr. 21</td>
<td>Germany</td>
<td>Dr. Horst Puller</td>
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<td>513</td>
<td>Facharzt F. Chirurgie 506 Emsberg Fred. Stucker Str. 17</td>
<td>Germany</td>
<td>Dr. red. H. U. Baetzel</td>
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<td>514</td>
<td>EURATCP Transuranium Institute Karlsruhe, Germany Mr. Geerlings</td>
<td>Germany</td>
<td>241Am</td>
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<tr>
<td>515</td>
<td>Farbwerke Hoechst AG. Radiochemisches Labor. Frankfurt/Non Griesheim</td>
<td>Germany</td>
<td>85Kr</td>
</tr>
<tr>
<td>516</td>
<td>Gesellschaft fur Kernforschung g.b.h. 75 Karlsruhe Weberstr. E</td>
<td>Germany</td>
<td>237Np</td>
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<tr>
<td>517</td>
<td>Hahn Meitner Institut Glinkicker Strasse 100 Berlin, Germany Dr. Jens Sheer</td>
<td>Germany</td>
<td>232Cl</td>
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<tr>
<td>518</td>
<td>Institute fur PIIorganische Chemie und Kerchenie Jechenene Gutenberg Universitat</td>
<td>Germany</td>
<td>137Cs</td>
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<td>Professor F. Strassmann</td>
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<td>519</td>
<td>Institute fur Biologie der Gesellschaft fur Strahlenforschung Neuberger B. Puchen</td>
<td>Germany</td>
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<td>520</td>
<td>Institute fur Kernphysik und Reaktortechnik Karlsruhe, Germany</td>
<td>Germany</td>
<td>239Pu, 238Pu, 233U, 234U, 235U, 236U, 237U</td>
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<td>521</td>
<td>Institute fur Radiodenien Technische Hochschule Puchen EC4E Garching Munich, Germany</td>
<td>Germany</td>
<td>241Am, 237Np</td>
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<td>522</td>
<td>Isotopen Laboratorium harffstr. 148 Dusseldorf Eller west Germany Dr. Sauerwein</td>
<td>Germany</td>
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<tr>
<td>523</td>
<td>Kernforschungsanlage Julich des Landes Nordrhein Westf. E.V. Verwaltungsgebaude</td>
<td>Germany</td>
<td>60Co, 952Nb</td>
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<tr>
<td>524</td>
<td>KfK Arbeitsgruppe Physikalische Chemie 52 Ecm Wegelerstr. 12 Germany</td>
<td>Germany</td>
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<td>525</td>
<td>Kuhne und Nagel E Frankfurt/K Germany</td>
<td>Germany</td>
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<tr>
<td>526</td>
<td>Laboratorium fur Technische Physik Technischen Hochschule Puchen EC4E Garching</td>
<td>Germany</td>
<td>Dipl. Phys. F. Wagner Prof. Dr. P. Kienle</td>
</tr>
<tr>
<td></td>
<td>Reaktorstation Garching BE 1 Munich Germany</td>
<td></td>
<td>149Er</td>
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<td>527</td>
<td>L. Faier Komm., Ges. Schwenningen A. N Dauchingerstr. 9 Lest Germany</td>
<td>Germany</td>
<td>147Pm</td>
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</tbody>
</table>
528 CSRAT G.m.b.H.
1 Berlin 10
Ernst Heuter Platz E
Charlottenburg, Germany
85Kr

529 Physikalisches Institut
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Gmelinstraße 6, 7400 Tubingen
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252Cf, 181Hf, 35S

530 Siebrichs Heißer Werke AG
8520 Erlangen
Luitpoldstr. 45/47
Germany
137Cs

531 Technischen Hochschule Puchten
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Archistrasse 21
E Puchten 2
Germany
Dr. F. L. Leshar
149Eu, 151Sm

532 University Women's Hospital
Universitäts Frauenklinik, Munich
Germany
137Cs

ENGLAND

533 Admiralty Engineering Laboratory
Ministry of Defence
West Drayton, Middlesex, England
133I(E);

534 Atoms Weapons Research Establishment
Bldg. 8, 61.1
Aldermaston, Berkshire
England
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252Cf

535 Medical Research Council
Cyclotron Unit
Hammersmith Hospital
Duane Road
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Dr. C. Matthews
99Mo

536 Postgraduate Medical School of London
150 Cucane Road
London, W.12, England
Professor J. F. Fowler
Dr. C. J. Robinson
20Mg(B)

537 Radiochemical Centre
Amersham, Buckinghamshire
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241Am, 142Ba, 135Ba, 75E, 207El,
109Cd, 144CePr, 90Y, 37Cs, 137Cs,
99Fe, 185Re, 157Pm, 85Sr,
90Sr, 99Tc, 86Y, 91Y,
92RhC

538 kathcrowd High Energy Laboratory
Science Research Council
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252Cf

539 Sussex, University Of
Physics Laboratory
Falmer, Brighton
England
Dr. W. D. Hamilton
233Am, 181Hf

540 United Kingdom Atomic Energy Authority
Atomic Energy Research Establishment
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239Pu, 252Cf, 240Pu, 241Pu, 242Pu, Th,
235U, 99Y

541 United Kingdom Treasury and Supply Delegation
Hedley Chemical Center
Amersham, Bucks, England
211Pb(P)

542 Westland Aircraft Ltd.
Fairey Aviation Division
Heyet, Middlesex, England
3P, 147Pm

INDIA

543 Picnic Energy Establishment Trombay
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244Am, 144CePr, 95Nb, 237Np, 99Tc

544 Siemens Engineering and Manufacturing
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126 Worli
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137Cs

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545 The Hebrew University of Jerusalem
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Professor S. Cier
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546 Israel Atomic Energy Commission
hakirya, Tel Aviv
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244Pu, 241Am, 90Ce(8), 129I, 237Np,
235U, 65Zn

547 Landseas Corporation
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548 Central Informazioni Studi
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549 Centro Nazionale di Chimica delle Radiazioni e del Radicelenenti
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Padova, Italy
Prof. Ugo Croatto
3H, 113Cd

550 Euronat C.C.R.
Sedelegione dimaseri l'Ispra
Ispra (Varese), Italy
238U

JAMAICA, BRITISH WEST INDIES
551 University of the West Indies
Purchases Section
Penna, Kingston 7
Jamaica, West Indies
Cr. P. T. Goreau
14C

JAPAN
552 Japan Atomic Energy Research Institute
Chemistry Division
Tokai Pura
Japan
Dr. Keiji Haito
244Cm

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

111Ag, 244Am, 140BaLa, 133Ba, 119Cd, 36Cl, 14C, 137Cs, FP, 3H, 87Kr, 191I, 147Pm, 85Sr, 92mNb

554 Mitsubishi Shoji Kaisha, Ltd.
Chiyoda-Ku, Tokyo, Japan
K. Oka, Manager, Mitsubishi International Corporation, 277 Park Avenue
New York, New York 10017
99Tc(E2)

555 Sumitomo Shoji New York, Inc.
277 Park Avenue 25th Floor
New York, New York 10017
S. T. bishizaka
60Co, 85Kr

KOREA
556 Seoul Picmic Energy Co., Ltd.
252 Kwanchul Cong., Chongro Ku
P.O. Box 1104
Seoul, Korea
90SrY

MEXICO
557 Comision Nacional de Energia Nuclear
Lab. de Dilucion
Miguel Angel de Quevedo 530 - A
Mexico 21, D.F.

558 Hospital de Enfermedades de la Nutricion
Calle del Dr. Jimenez 25-31
Mexico 7, D.F., Mexico
99Y

559 Nuclear, S.A.
Pelchur Compe 465 605
Mexico 5, D.F., Mexico
99Y

MONACO
560 International Atomic Energy Agency
Laboratory of Marine Radioactivity
Cesareo-Poile
Principality of Monaco

NETHERLANDS
561 Instituut Voor Kernfysisch Onderzoek
IKC, Oosterringdijk 18 Cost.
Amsterdam, Netherlands
198Ac

562 Natuurkundig Lab. Rijksuniversiteit
Westfriesg, 34
Groningen
The Netherlands
124Te

563 A. V. Philips, D. P. V. Amstelhoofd 151
Amsterdam (Holland)
The Netherlands
36Cl, 60Co, 85Kr, 60Ni, 99Tc(E2)

564 Reactor Centraal Nederland
Purchasing Office
Petten No.
The Netherlands
237Np, 242Pu

565 USPEC Exhibit Manager at Utrecht
American Embassy
The Hague, The Netherlands
60Co(E2), 99Tc(E2)

NEW ZEALAND
566 Callaceville Animal Research Centre
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Wellington, New Zealand
Er. E.V. Wright

76Se

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Kjeller, Norway

137Cs

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568 Atomic Energy Centre
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Ferozepur Road
Lahore, Pakistan

114Ag, 140BaLa, 119Cd, 203Hg, 119In, 192Ir
PERU
565 Facultad de Medicina de la U.N.M. de San Marcos
Lima, Peru
99Te(E)

570 Hospital Obrero de Lima
Lima, Peru
Dr. Eedcya
131I, 125I

571 Instituto Nacional de Enfermedades Neoplásicas
Lima, Peru
Dr. Javier Cerrea M.
131I

PORTUGAL
572 Junta de Energia Nuclear
Laboratorio de Fisica e Engenharia Nuclear
E. N. FC, 10
Sacavem, Portugal
59Fe, 55Zn, 170Tm, 95ZrNb

SOUTH AFRICA
573 The Embassy for the Republic of South Africa
3101 Massachusetts Avenue
Washington, D. C. 20008
60Co, 55Fe, 59Fe, 125I, 65Zn

574 South African Atomic Energy Board
Johannesburg, South Africa
99Te(E)

SWEDEN
575 Aktiebolaget Atomenergi
Studsvik
Bykoping, Sweden
90SrY

576 Chalmers University of Technology
Department of Physics
Gothenburg, Sweden
Cref Lieckman
241Am

577 Fysiska Institutionen
Tuensbergsvagen 7
Göteborg, Sweden
133Ba, 114In

578 Nobel Institute
Stockholm, Sweden
Dr. E. Asinow
95Zr

579 University of Gothenburg
Department of Physical Chemistry
Gibraltargatan 5A
Göteborg, Sweden
210Po(E)

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580 European Organization for Nuclear Research (CERN)
Geneva 23, Switzerland 1211
Dr. G. Brandt
292Cf, 192Ir

581 Cynamed
European Research Institute
Büste de la Côte 91
1222 Cologny
Geneva, Switzerland
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582 Genex, Université de
Inst. de Physique Experimentale
32 Eculleaud C'Yvecy
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583 Institut de Radiophysique Appliquée
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584 Laboratoire Suisse de Recherches Horlogères
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585 Merz and Bentelli AG.
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3H

586 Physikalischcs Institut der
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Kliniexbergstrasse 82
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Switzerland
3H

587 Radium Chemie A. Zeller and Company
Teufen/ App. 5053
Switzerland
3H, 147Pm

588 Swiss Federal Institute for Reactor Research
Würenlingen / FG (Schweiz)
238U, 90Y(E)

VENEZUELA
589 Universidad Central de Venezuela
Catedra de Fisiopatología
Instituto de Medicina Experimental
Caracas, Venezuela, S. A.
Cr. Francisco de Vennanz
32P
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Aluminum 028
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Americium 247
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Antimony 152
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Antimony 124
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Argon 037
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Argon 41
135

Arsenic 076
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Arsenic 077
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Barium 130
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Barium 131
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Barium 133
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Beryllium 005
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2F4

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2C1

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Calcium 042
2F

Calcium 045
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Calcium 047

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2E

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Cerium 141
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Hafnium 161
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Note: The table above lists some of the isotopes of each element, but it is not exhaustive. The isotopes listed are those that are generally found in nature or have significant uses in various fields.
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<td>Tungsten-187</td>
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<td>Foreign</td>
<td>Project</td>
<td>Total</td>
</tr>
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<td></td>
<td>Shipments</td>
<td>Millicuries</td>
<td>Dollars</td>
<td>Shipments</td>
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<tr>
<td>Uranium-234</td>
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<td>755</td>
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<td>Uranium-238</td>
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<td>Zirconium-95</td>
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<td>Cyclotron service irr.</td>
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<td>Reactor service irr.</td>
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<td>Special services</td>
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<td>Total</td>
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<td>1,053,183,956.3</td>
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<td>1134</td>
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</tbody>
</table>

*Includes a duplication of ~2.65 mcg of 60Co transferred to AEC sites for resale.

b) Radioisotopes produced by cyclotron service irradiations:

- 73, 74As, 7Be, 102Cd, 139Ce, 162Er, 146, 148, 149Eu, 55, 59Fe, 154, 156, 160Gd, 68Ge, 193Au, 123I, 202, 208pb, 172, 174Lu, 103Pd, 208Po, 136Pr,
- 143, 147Pm, 187Re, 99Ru, 84Rb, 105Ag, 85Sr, 181, 182Ta, 95Zr, 121Te, 201, 202Tl, 170Tm, 44Ti, 181, 182W, 238U, 48Y, 127Xe, 174Yb, 84, 85, 86, 87, 88Y, 65, Zn, 89Zr

b) Radioisotopes produced by reactor service irradiations:

- 26Al, 122, 124, 125Sn, 41Ar, 76As, 131, 139Ba, 82Br, 115, 117Cd, 41Ca, 141, 143Ce, 121Cs, 51Cr, 60, 64Cu, 242, 244Cm, 159, 165Dy, 169, 171Er,
- 152, 154Eu, 188, 153, 159, 161Gd, 198Au, 175, 181, 182Hf, 166Ho, 114In, 128, 192, 194Ir, 59Fe, 79Kr, 140La, 177Lu, 203Hg, 90, 99Mo, 147, 149, 151Nd, 59, 65, 71Nb,
- 193Os, 195Pt, 32, 33P, 210Po, 49, 59, 148Pm, 109Pd, 197Pt, 86, 88, 186Re, 105Ru, 145, 151, 153, 155Sm, 31Sc, 108, 110Ag, 24Na, 85Sr, 33, 35S, 183Ta, 123, 127, 129, 131Te,
- 160Tb, 170Tm, 51Ti, 113, 121Sn, 185, 187W, 232, 235, 236, 237U, 52V, 169, 175Yb, 69, 71Zn