

EXPORT LICENSE

NRC FORM 250

NRC LICENSE NO.: PXB6.45

Page 1 of 9

NRC DOCKET NO.: 11006027

LICENSE EXPIRES: March 31, 2032



United States of America
Nuclear Regulatory Commission
Washington, D.C. 20555

Pursuant to the Atomic Energy Act of 1954, as amended, and the regulations issued by the Nuclear Regulatory Commission (NRC) pursuant thereto, and in reliance on statements and representations heretofore made by the applicant/licensee, this license is hereby issued authorizing the licensee to export of the byproduct materials listed below, subject to the terms and conditions herein. This license is only valid if the licensee or 'Other Party (ies) to Export' maintain the requisite NRC or Agreement State domestic license(s).

Table with 2 columns: LICENSEE (Alpha-Omega Services, Inc.), ULTIMATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES) (See following page(s)), INTERMEDIATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES) (None), OTHER U.S. PARTY(IES) TO EXPORT (See following page(s)), APPLICANT'S REFERENCE: Amendment 45, ULTIMATE DESTINATIONS: See following pages 2, 3, 4, 5, and 6

DESCRIPTIONS OF 110, APPENDIX P, BYPRODUCT MATERIALS TO BE EXPORTED, INCLUDING CONDITIONS, AND NOTES (NOTE: SEE PAGE 9 FOR DEFINITIONS OF CATEGORY 1 AND CATEGORY 2)

Export to Canada and Sweden, of Category 1 quantities of Co-60 (not to exceed 244.2 TBq per shipment) contained in sealed sources to authorized recipients for recycling and/or end of life-cycle management.

Export to Japan, of Category 2 quantities of Ir-192, contained in sealed sources for use in medical brachytherapy devices, is authorized.

Licensee is responsible for compliance with all applicable export, and other domestic regulatory requirements, including all terms and conditions of domestic material possession licenses.

Licensee, if not already submitted with its application, must submit pertinent documentation required by 10 CFR 110.32(g) at least 24 hours prior to shipment. See Page 9 for Mandatory Advanced Notifications.

The license amendment PXB6.44 is superseded upon the issuance of NRC license PXB6.45, amending its authority. This application revises the list of "Other U.S. Party(ies) to Export," #19, #44, #61, #67, #73 and adds two additional "Other U.S. Party(ies) to Export," #4, #5.

Neither this license nor any right under this license shall be assigned or otherwise transferred in violation of the provisions of the Atomic Energy Act of 1954, as amended.

This license is subject to the right of recapture or control by Section 108 of the Atomic Energy Act of 1954, as amended, and to all the other provisions of said Acts, now or hereafter in effect and to all valid rules and regulations of the Nuclear Regulatory Commission.

THIS LICENSE IS INVALID UNLESS SIGNED BELOW BY AUTHORIZED NRC REPRESENTATIVE

NAME AND TITLE: Sabrina D. Atack, Deputy Director Office of International Programs

DATE OF ISSUANCE: May 1, 2024

EXPORT LICENSE

**CONDITIONS, NOTES, AND DESCRIPTIONS OF 10CFR PART 110, APPENDIX P,  
BYPRODUCT AND SOURCE MATERIALS TO BE EXPORTED(cont'd)**

- [1] Licensee is prohibited from shipping Category 1 quantities until government-to-government consent has been requested, received and processed.
- [2] The licensee submits a consent request to the NRC with pertinent details for a specific shipment or series of shipments on the NRC Form 7, which notifies the NRC to request and obtain consent for the specified transaction(s) from the importing country's regulatory authority.
- [3] Shipment may only proceed after the NRC has informed the licensee in writing that the consent request has been granted, authorizing the transfer of materials to the ultimate consignee(s) specified on the NRC Form 7 consent request.

**ULTIMATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES) Continued:**

- |   |   |
|---|---|
| <p>1. <b>(For export of 10 CFR Part 110 Appendix P Category 1 quantities of Co-60)</b></p> <p>Nordion (Canada) Inc.<br/>447 March Road<br/>Ottawa, Ontario K2K 1X8<br/>Canada</p> | <p>2. <b>(For export of 10 CFR Part 110 Appendix P Category 1 quantities of Co-60)</b></p> <p>Japan Radioisotope Association (JRIA) 28-45<br/>Honkomagome 2-Chome<br/>Bunkyo-Ku, Tokyo 113-8941<br/>Japan</p> |
| <p>3. <b>(For export of 10 CFR Part 110 Appendix P Category 1 quantities of Co-60)</b></p> <p>Studsvik Nuclear AB<br/>Atomvagen 1<br/>611 82 Nykoping<br/>Sweden</p>              |   |

**OTHER U.S. PARTY(IES) TO EXPORT Continued:**

- |  |  |
|--|--|
| <p>1. Adventist Health Systems/Sunbelt Inc.<br/>AdventHealth Cancer Institute Orlando<br/>2501 North Orange Avenue<br/>Orlando, FL 32804</p>               | <p>2. Akron General Medical Center<br/>762 South Cleveland Massillon Road<br/>Montrose, OH 44333</p>                               |
| <p>3. Alexian Brothers Medical Center<br/>800 West Biesterfield Road<br/>Elk Grove Village, IL 60007</p>   | <p>4. Allegheny Health Network<br/>AHN Cancer Institute - Allegheny General<br/>314 East North Avenue<br/>Pittsburgh, PA 15212</p> |
| <p>5. Allegheny Health Network<br/>AGH Receiving<br/>1300 Sandusky Street<br/>Pittsburgh, PA 15212</p>   | <p>6. Alpha-Omega Services, Inc.<br/>1282 Big Woods-Starks Road<br/>Vinton, LA 70668</p>   |
| <p>7. Anchorage Radiation Oncology Management, Inc.<br/>dba Anchorage Radiation Therapy Center<br/>2841 Debarr Road, Suite 100<br/>Anchorage, AK 99508</p> | <p>8. Augusta University Medical Center<br/>1120 15th Street<br/>Augusta, GA 30912</p>   |

**OTHER U.S. PARTY(IES) TO EXPORT Continued:**

9. Aurora Health Care Metro, Inc.  
dba Aurora St. Luke's Medical Center Room 115  
Gamma Knife Department  
2900 West Oklahoma Avenue  
Milwaukee, WI 53215
10. Avera McKennan - Avera Radiation Oncology  
Avera Cancer Institute Prairie Center  
1000 East 23rd St.  
Suite 100, Room #2  
Sussex Falls, SD 57105
11. Baptist Hospital of Miami, Inc.  
Department of Radiation Oncology  
8900 North Kendall Drive  
Miami, FL 33176
12. Billings Clinic  
2800 Tenth Avenue North  
Billings, MT 59101
13. Bryan Medical Center  
2300 South 16th Street  
Lincoln, NE 68502
14. Center for Advanced Medicine  
Long Island Jewish Medical Center  
450 Lakeville Road  
Lake Success, NY 11042
15. Central DuPage Hospital Association Northwestern  
Medicine Cancer Center Central DuPage Hospital  
4405 Weaver Parkway  
Warrenville, IL 60555
16. Chesapeake Regional Riverside &  
University of Virginia Radiosurgery Center  
500 J Clyde Morris Boulevard  
Newport News, VA 23601
17. Chippenham and Johnston-Willis Hospitals, Inc.  
dba CJW Medical Center  
Johnston-Willis Campus  
1401 Johnston-Willis Drive  
Richmond, VA 23235
18. Cooper Health System  
Robert Wood Johnson Medical School at Camden  
3 Cooper Plaza  
Camden, NJ 08103
19. Corewell Health William Beaumont University Hospital  
William Beaumont Hospital - Imaging Center  
3601 W. Thirteen Mile Road  
Royal Oak, MI 48073
20. Covenant Health System  
Covenant Gamma Southwest  
3603 21st Street  
Lubbock, TX 79410
21. Dignity Health  
dba St. Joseph's Hospital and Medical Center  
350 West Thomas Road  
Phoenix, AZ 85013
22. Doctors Hospital, Inc.  
dba Doctors Hospital  
5000 University Drive  
Coral Gables, FL 33146
23. Emory Saint Joseph's Hospital  
5665 Peachtree Dunwoody Road, NE  
Atlanta, GA 30342
24. Fort Sanders Regional Gamma Knife Center  
1915 White Avenue  
Knoxville, TN 37916
25. Gamma Knife Center of the Pacific  
2226 Liliha Street, Level B2  
Honolulu (Island of Oahu), HI 96817
26. GE-Hitachi Nuclear Energy Americas, LLC  
Vallecitos Nuclear Center  
6705 Vallecitos Road  
Pleasanton, CA 94586
27. GKMD, Inc.  
Deaconess Medical Center, Gamma Knife Suite  
Basement Floor, Room 117  
910 West 5th Ave.  
Spokane, WA 99204
28. Hackensack University Medical Center  
John Theurer Cancer Center  
92 2nd St.  
Hackensack, NJ 07601

**OTHER U.S. PARTY(IES) TO EXPORT Continued:**

29. Harborview Medical Center  
325 9th Avenue  
Gamma Knife Suite  
Seattle, WA 98133
30. Hoag Memorial Hospital Presbyterian  
One Hoag Drive  
Newport Beach, CA 92658
31. IHC Health Services, Inc.  
dba Intermountain Medical Center  
Jon and Karen Huntsman Cancer Center  
(Building #3), Gamma Knife Room  
5121 South Cottonwood Street  
Murray, UT 84107
32. Indiana University Health Methodist Hospital  
1701 N. Senate Blvd  
Indianapolis, IN 46202
33. Jewish Hospital, LLC.  
4777 East Galbraith Road  
Cincinnati, OH 45236
34. John F. Kennedy Medical Center  
65 James Street  
Edison TWP, NJ 08817
35. Karmanos Cancer Center  
Gershenson Radiation Oncology Center  
4100 John R. Street, Room 379  
Detroit, MI 48201
36. Kettering Medical Center  
3535 Southern Boulevard  
Kettering, OH 45429
37. Larkin Community Hospital, Inc.  
6129 Southwest 70th Street  
South Miami, FL 33143
38. Legacy Health System  
1130 North West 22nd Avenue, Suite LL50  
Portland, OR 97210
39. Lehigh Valley Health Network  
1240 South Cedar Crest Boulevard  
Allentown, PA 18103
40. Lewis Hall Singletary Oncology Center  
at John D. Archbold Memorial Center  
919 South Broad Street  
Thomasville, GA 31792
41. Los Robles Regional Medical Center  
2200 Lynn Road  
Thousand Oaks, CA 91360
42. Lovelace Medical Center  
601 Dr. Martin Luther King, Jr. NE  
Albuquerque, NM 87102
43. Marshfield Medical Center  
611 St. Joseph Avenue  
Marshfield, WI 54449
44. Mayo Clinic  
SMC Mary Brigh Building  
Mayo Clinic Rochester Campus  
1216 2nd St. SW  
Rochester, MN 55902
45. Mayo Clinic Jacksonville  
4500 San Pablo Road  
Jacksonville, FL 32224
46. Medical College of Wisconsin  
Froedtert Memorial Lutheran Hospital  
9200 West Wisconsin Avenue  
Milwaukee, WI 53226
47. Medical University Hospital Authority  
dba Medical University of South Carolina  
171 Ashley Avenue (MUSC)  
Charleston, SC 29425
48. Memorial Hermann Health System  
dba Memorial Hermann Texas Medical Center  
6411 Fannin Street  
Houston, TX 77030

**OTHER U.S. PARTY(IES) TO EXPORT Continued:**

49. Mercy Health - St. Vincent Medical Center, LLC  
Perrysburg Cancer Center  
12623 Eckel Junction Road  
Perrysburg, OH 43552
50. Mercy Health Center  
4300 West Memorial Road  
Oklahoma City, OK 73120
51. Merit Health Central  
Central Mississippi Medical Center  
Radiation Oncology Department  
1850 Chadwick Drive  
Jackson, MS 39204
52. Methodist Childrens Hospital  
dba Joe Arrington Cancer Center  
4101 22nd Place  
Lubbock, TX 79410
53. Methodist Healthcare System  
of San Antonio LTD Methodist Hospital  
7700 Floyd Curl Drive  
San Antonio, TX 78229
54. Methodist Hospital of Gary, Inc.  
Methodist Hospital - Southlake Campus  
8701 Broadway  
Merrillville, IN 46410
55. Mid-Michigan Gamma Knife Facility  
4000 Wellness Drive  
Room H-1405  
Midland, MI 48670
56. Neurologic & Orthopedic Institute of Chicago  
4501 N. Winchester  
Chicago, IL 60640
57. New York Presbyterian Hospital  
Columbia University Medical Center  
Gamma Knife Suite  
Columbia-Presbyterian Medical Center  
630 West 168th Street  
New York, NY 10032
58. North Carolina Baptist Hospital  
Outpatient Comprehensive Cancer Center  
Medical Center Boulevard  
Winston-Salem, NC 27157
59. Northern Westchester Hospital Center  
400 East Main Street  
Mount Kisco, NY 10549
60. Northside Hospital Forsyth  
1200 Northside Forsyth Drive  
Cumming, GA 30041
61. Northwestern Memorial HealthCare  
Galter Pavilion  
201 E. Huron Street  
Chicago, IL 60611
62. NYU Langone Hospitals  
Tisch Hospital  
550 First Ave.  
New York, NY 10016
63. Ochsner Clinic Foundation  
Ochsner Medical Center  
Department of Radiation Oncology  
1514 Jefferson Highway  
New Orleans, LA 70121
64. OSF Healthcare System  
St. Francis Medical Center  
530 NE Glen Oak Avenue  
Peoria, IL 61637
65. OU Medical Center  
Presbyterian Tower  
700 N.E. 13th Street  
Oklahoma City, OK 73104
66. Our Lady of the Lake Hospital Inc.  
dba Thomas J. Moran Imaging Center  
4950 Essen Lane  
Baton Rouge, LA 70809
67. PeaceHealth Sacred Heart Medical Center  
Gamma Knife Department  
3333 RiverBend Drive  
Springfield, OR 97477
68. Penn State Health Holy Spirit Medical Center  
GSR Suite at the Oakwood Center  
880 Century Drive  
Mechanicsburg, PA 17055

**OTHER U.S. PARTY(IES) TO EXPORT Continued:**

69. Penn State Milton S. Hershey Medical Center  
500 University Drive  
Hershey, PA 17033
70. Piedmont Hospital Atlanta  
1968 Peachtree Road N.W.  
Atlanta, GA 30309
71. Pitt County Memorial Hospital  
2100 Statonsburg Road  
Greenville, NC 27835
72. Prisma Health Richland Hospital  
7 Medical Park  
Columbia, SC 29203
73. Providence Health & Services - Oregon  
Gamma Knife Center of Oregon  
Providence Portland Medical Center  
North Pavillion  
4805 NE Glisan Street  
Portland, OR 97213
74. Puerto Rico Medical Services Administration  
Puerto Rico Medical Center, Centro Medico  
de Rio Piedras  
First Floor, Central Building, Carr 22 Barrio  
Monacillos  
San Juan, PR 00935
75. Puget Sound Radiosurgery, LLC.  
Gamma Knife Suite, Room 103  
St. Joseph's Medical Pavillion  
1802 South Yakima Ave.  
Tacoma, WA 98405
76. Research Medical Center  
Midwest Gamma Knife Center  
2316 E. Meyer Blvd.  
Kansas City, MO 64132
77. Rhode Island Hospital  
593 Eddy Street  
Providence, RI 02903
78. Robert Wood Johnson University Hospital  
Gamma Knife Suite  
10 Plum Street  
New Brunswick City, NJ 08901
79. Roswell Park Cancer Institute Corp  
Elm & Carlton Street  
Buffalo, NY 14263
80. Sacred Heart Health System, Inc.  
dba Sacred Heart Hospital of Pensacola  
5151 North 9th Avenue  
Pensacola, FL 32504
81. San Antonio Community Hospital  
999 San Bernardino Road  
Upland, CA 91786
82. San Diego Gamma Knife Center  
9834 Genesee Avenue, Suite 110  
La Jolla, CA 92037
83. South Nassau Communities Hospital  
One Healthy Way  
Oceanside, NY 11572
84. St. Lukes The Woodlands Hospital  
17200 St. Luke's Way  
The Woodlands, TX 77384
85. St. Vincent Medical Center  
2 Shircliff Way  
Jacksonville, FL 32204
86. SUNY Upstate Medical University  
750 East Adams Street  
Syracuse, NY 13210
87. Sutter Gamma Knife Center  
2801 K St., Suite 110  
Sacramento, CA 95816
88. Swedish Medical Center  
799 East Hampden Ave. Suite 110  
Englewood, CO 80113
89. Temple University  
Temple Hospital  
3401 N. Broad Street  
Philadelphia, PA 19140
90. Tenet Good Samaritan, Inc.  
1309 North Flagler Drive  
West Palm Beach, FL 33401

**OTHER U.S. PARTY(IES) TO EXPORT Continued:**

91. Tenet Hospitals Limited  
dba The Hospitals of Providence Sierra Campus  
Gamma Knife Suite  
1625 Medical Center Drive  
El Paso, TX 79902
93. The Cleveland Clinic Foundation  
dba The Cleveland Clinic  
10201 Carnegie Avenue  
Cleveland, OH 44195
95. The Ohio State University  
Radiation Medicine Department  
Arthur G. James Cancer Hospital and  
Richard J. Solove Research Institute  
300 West 10th Avenue  
Columbus, OH 43210
97. The Regents of the University of California  
U.C. Davis Medical Center  
2315 Stockton Blvd.  
Sacramento, CA 95817
99. The University of Iowa  
University of Iowa Campus  
200 Hawkins Drive  
Iowa City, IA 52242
101. The Valley Hospital Luckow Pavilion  
1 Valley Health Plaza  
Paramus, NJ 07652
103. Tufts Medical Center  
800 Washington Street  
Boston, MA 02111
105. University Hospitals of Cleveland  
11100 Euclid Avenue  
Cleveland, OH 44106
107. University of Kentucky  
Markey Cancer Center, Roach Bldg  
Room CC049  
800 Rose Street  
Lexington, KY 40536
109. University of Miami  
Sylvester Cancer Center West  
1400 NW 12th Avenue  
Miami, FL 33136
111. University of Mississippi Medical Center  
350 West Woodrow Wilson Avenue  
Jackson, MS 39216
92. The Charlotte-Mecklenburg Hospital Authority  
dba Atrium Health Advanced Radiation Therapy  
1310 East Morehead Street  
Charlotte, NC 28203
94. The Methodist Hospital  
dba Houston Methodist  
6551 Bertner Avenue  
Houston, TX 77030
96. The Regents of the University of California  
San Francisco Medical Center  
UCSF Medical Center  
Parnassus Ave.  
San Francisco, CA 94143
98. The Swedish Radiosurgery Center  
Suite A10 James Tower  
550 17th Avenue  
Seattle, WA 98122
100. The University of Texas  
MD Anderson Cancer Center  
1515 Holcombe Boulevard  
Houston, TX 77030
102. Thomas Jefferson University and Hospitals  
900 Walnut Street  
Philadelphia, PA 19107
104. University Health Shreveport, LLC.  
dba Ochsner LSU Health Shreveport  
1541 Kings Highway  
Shreveport, LA 71103
106. University of Colorado Hospital Authority  
1635 Aurora Court  
Aurora, CO 80045
108. University of Maryland Medical System  
Gamma Knife Suite, South Hospital B Wing  
22 South Greene Street  
Baltimore, MD 21201
110. University of Minnesota Medical Center  
Room 1-285  
500 SE Harvard Street  
Minneapolis, MN 55455

**OTHER U.S. PARTY(IES) TO EXPORT Continued:**

112. University of Pennsylvania  
Pennsylvania Hospital Campus  
800 Spruce Street  
Philadelphia, PA 19107
114. University of Pittsburgh  
Presbyterian University Hospital  
230 Lothrop Street, Room G-102  
Pittsburgh, PA 15213
116. University of Texas Southwestern  
Medical Center at Dallas  
6201 Harry Hines Blvd.  
Dallas, TX 75390
118. USC University Hospital  
1540 Alcazar Street  
Los Angeles, CA 90033
120. Washington Hospital Healthcare System  
2500 Mowry Ave.  
Fremont, CA 94538
122. West Virginia University Hospital, Inc.  
Ruby Memorial Hospital, Mary Babb  
Randolph Cancer Center  
and Health Sciences Center South Building  
Medical Center Drive  
Morgantown, WV 26506
113. University of Pittsburgh  
Presbyterian University Hospital  
230 Lothrop Street, Room F-185  
Pittsburgh, PA 15213
115. University of Pittsburgh  
Presbyterian University Hospital  
230 Lothrop Street, Room F-179  
Pittsburgh, PA 15213
117. University of Virginia Physicians Group  
University of Virginia Lars Leksell Center  
of Gamma Surgery Primary Care Center  
Building 1143; Room G411  
1215 Lee Street  
Charlottesville, VA 22908
119. Washington Hospital Center  
110 Irving Street, NW  
Washington, DC 20010
121. Washington University in St. Louis  
Barnes-Jewish Hospital  
4921 Parkview Place  
St. Louis, MO 63108
123. Yale-New Haven Hospital  
20 York Street  
New Haven, CT 06510



**MANDATORY ADVANCED NOTIFICATIONS PER 10 CFR PART 110.50(c)**

The following Advanced Notifications must be made to both the NRC and, in case of exports, the government of the importing country in advance of each shipment:

Mandatory Advanced Notifications to the NRC are to be emailed to [hoo.hoc@nrc.gov](mailto:hoo.hoc@nrc.gov) (preferred method) or faxed to the NRC at 301-816-5151. In the subject line of the email or on the fax cover page include: "10 CFR 110.50(c) Notification." For technical assistance, use the same e-mail address or call 301-287-9056.

Mandatory Advanced Notifications to the government of the importing country must be emailed or faxed to the appropriate foreign government authorities. To locate the point-of-contact for international Advanced Notifications see: <http://www-ns.iaea.org/downloads/rw/imp-export/import-export-contact-points.pdf>. In the subject line of the email or on the fax cover page include: "NOTIFICATION TO THE IMPORTING STATE PRIOR TO SHIPMENT OF CATEGORY 1 OR 2 RADIOACTIVE SOURCES." For technical assistance or for countries not listed, contact the Office of International Programs' export/import staff at 301-287-9056.

**Table 1: Appendix P to Part 110 Category 1 and Category 2 Radioactive Material Threshold Limits**

Radioactive Material	Category 1		Category 2	
	Terabequerels (TBq)	Curies (Ci) <sup>1</sup>	Terabequerels (TBq)	Curies (Ci) <sup>1</sup>
Americium-241 (Am-241)	60	1,600	0.6	16
Americium-241/Beryllium (Am-241/Be)	60	1,600	0.6	16
Californium-252 (Cf-252)	20	540	0.2	5.4
Curium-244 (Cm-244)	50	1,400	0.5	14
Cobalt-60 (Co-60)	30	810	0.3	8.1
Cesium-137 (Cs-137)	100	2,700	1.0	27
Gadolinium-153 (Gd-153)	1,000	27,000	10.0	270
Iridium-192 (Ir-192)	80	2,200	0.8	22
Plutonium-238 <sup>2</sup> (Pu-238)	60	1,600	0.6	16
Plutonium-239/Beryllium <sup>2</sup> (Pu-239/Be)	60	1,600	0.6	16
Promethium-147 (Pm-147)	40,000	1,100,000	400	11,000
Radium-226 <sup>3</sup> (Ra-226)	40	1,100	0.4	11
Selenium-75 (Se-75)	200	5,400	2.0	54
Strontium-90 (Y-90)	1,000	27,000	10.0	270
Thulium-170 (Tm-170)	20,000	540,000	200	5,400
Ytterbium-169 (Yb-169)	300	8,100	3.0	81

**Calculation of Shipments Containing Multiple Sources or Radionuclides:**

The "sum of fractions" methodology for evaluating combinations of radionuclides being transported is to be used when import or export shipments contain multiple sources or multiple radionuclides. The threshold limit values used in a sum of the fractions calculation must be the metric values (i.e., TBq).

I. If multiple sources and/or multiple radionuclides are present in an import or export shipment, the sum of the fractions of the activity of each radionuclide must be determined to verify the shipment is less than the Category 1 or 2 limits of Table 1, as appropriate. If the calculated sum of the fractions ratio, using the following equation, is greater than or equal to 1.0, then the import or export shipment exceeds the threshold limits of Table 1 and the applicable security provisions of this part apply.

II. Use the equation below to calculate the sum of the fractions ratio by inserting the actual activity of the applicable radionuclides or of the individual sources (of the same radionuclides) in the numerator of the equation and the corresponding threshold activity limit from the Table 1 in the denominator of the equation. Ensure the numerator and denominator values are in the same units and all calculations must be performed using the TBq (i.e., metric) values of Table 1.

- R1 = activity for radionuclides or source number 1      AR1 = activity limit for radionuclides or source number 1
- R2 = activity for radionuclides or source number 2      AR2 = activity limit for radionuclides or source number 2
- RN = activity for radionuclides or source number n      ARN = activity limit for radionuclides or source number n

$$\sum_1^n \left[ \frac{R_1}{AR_1} + \frac{R_2}{AR_2} + \frac{R_n}{AR_n} \right] \geq 1$$

<sup>1</sup> The values to be used to determine whether a license is required are given in TBq. Curie (Ci) values are provided for practical usefulness only and are rounded after conversion.

<sup>2</sup> The limits for exports of Pu-238 and Pu-239/Be can be found in § 110.21.

<sup>3</sup> Discrete sources of Radium-226.