


EXPORT LICENSE

<p>NRC FORM 250</p> <div data-bbox="94 237 284 422"></div> <p>United States of America Nuclear Regulatory Commission Washington, D.C. 20555</p>	<p>NRC LICENSE NO.: PXB14b.11</p> <p>Page 1 of 3</p> <p>NRC DOCKET NO.: 11006034</p> <p>LICENSE EXPIRES: July 31, 2027</p>
<p>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).</p>	
<p>LICENSEE</p> <p>SPEC 150 LLC, DBA Source Production & Equipment Co., Inc. 113 Teal St. St. Rose, LA 70087 Attn: Kristen Mason</p>	<p>ULTIMATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES)</p> <p>Consignees located in ultimate destinations specified on this license, who have the necessary authorization to receive and possess the exported radioactive material.</p>
<p>INTERMEDIATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES)</p> <p>None</p>	<p>OTHER U.S. PARTY(IES) TO EXPORT</p> <p>None</p>
<p>APPLICANT'S REFERENCE: PXB14b.10</p>	<p>ULTIMATE DESTINATIONS: See following page.</p>
<p>CONDITIONS, NOTES, AND DESCRIPTIONS OF 10CFR PART 110, APPENDIX P, BYPRODUCT AND SOURCE MATERIALS TO BE EXPORTED (NOTE: SEE PAGE 3 FOR DEFINITIONS OF CATEGORY 1 AND CATEGORY 2)</p> <p>Export of Category 2 quantities of Cobalt-60, Iridium-192, Selenium-75, and Ytterbium-169 contained in sealed sources is authorized for use in industrial gamma radiography and brachytherapy devices to "Ultimate Destinations."</p> <p>Licensee is responsible for compliance with all applicable export, and other domestic regulatory requirements, including all terms and conditions of domestic material possession license(s).</p> <p>Licensee must submit pertinent documentation required by 10 CFR 110.32(g)(2) and (3) at least 24 hours prior to shipment. See page 3 for Mandatory Advanced Notifications.</p> <p>This license replaces PXB14b.10 by: 1) extending the date of expiration by 2 years from August 31, 2025, to the date of this issued license; and 2) removing Aruba, Brunei, Croatia, Egypt, Ghana, Haiti, Holy See, India, Indonesia, Liechtenstein, Macau, Malta, Niger, Sri Lanka, and Zambia; and 3) adding Bolivia and North Macedonia to the list of "Ultimate Destinations."</p>	
<p>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.</p> <p>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.</p>	<p>THIS LICENSE IS INVALID UNLESS SIGNED BELOW BY AUTHORIZED NRC REPRESENTATIVE</p> <p>NAME AND TITLE: <u>ANDREA Ferkile</u> <small>Digitally signed by ANDREA Ferkile Date: 2025.07.31 08:23:23 -04'00'</small></p> <p>DATE OF ISSUANCE: <u>July 31, 2025</u></p> <p>Andrea Ferkile, Acting Deputy Director Office of International Programs</p>

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ULTIMATE DESTINATION(S):

Algeria, Armenia, Azerbaijan, Bahamas, Bahrain, Bolivia, Bosnia and Herzegovina, Colombia, Comoros, Costa Rica, Côte d'Ivoire, Dominican Republic, Ecuador, El Salvador, Equatorial Guinea, Gabon, Georgia, Guatemala, Guyana, Honduras, Jamaica, Jordan, Kenya, Kuwait, Kyrgyzstan, Malaysia, Mauritania, Mauritius, Moldova, Mongolia, Mozambique, Nigeria, North Macedonia, Oman, Panama, Paraguay, Peru, Saint Lucia, Saudi Arabia, Senegal, Suriname, Tajikistan, Trinidad and Tobago, Tunisia, Turkmenistan, Uganda, Uruguay, and Uzbekistan.

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 (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) ¹	Terabequerels (TBq)	Curies (Ci) ¹
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 ² (Pu-238)	60	1,600	0.6	16
Plutonium-239/Beryllium ² (Pu-239/Be)	60	1,600	0.6	16
Promethium-147 (Pm-147)	40,000	1,100,000	400	11,000
Radium-226 ³ (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

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

¹ 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.

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

³ Discrete sources of Radium-226.