


**EXPORT LICENSE**

<p>NRC FORM 250</p> <div style="text-align: center;">  <p><b>United States of America</b>                  Nuclear Regulatory Commission                  Washington, D.C. 20555</p> </div>	<p><b>NRC LICENSE NO.:</b> PXB225.01</p> <p align="right">Page 1 of 3</p> <p><b>NRC DOCKET NO.:</b> 11006325</p> <p><b>LICENSE EXPIRES:</b> September 30, 2023</p>
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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 align="center"><b>LICENSEE</b></p> <p>ISOFLEX Radioactive LLC                  108 Teal Street                  St. Rose, LA 70087</p> <p>Attn: Kevin J. Schehr</p>	<p align="center"><b>ULTIMATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES)</b></p> <p align="center">See following page(s)</p>
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<p align="center"><b>INTERMEDIATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES)</b></p> <p align="center">None</p>	<p align="center"><b>OTHER U.S. PARTY(IES) TO EXPORT</b></p> <p align="center">None</p>
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<b>APPLICANT'S REFERENCE:</b> Application dated 07/28/21	<b>ULTIMATE DESTINATION:</b> Israel
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**DESCRIPTION OF 10 CFR PART 110, APPENDIX P, BYPRODUCT MATERIAL TO BE EXPORTED, INCLUDING CONDITIONS AND NOTES**  
 (NOTE: SEE PAGE 3 FOR DEFINITIONS OF CATEGORY 1 AND CATEGORY 2)

Export to Israel of Category 1 and 2 quantities of Ir-192 not to exceed 740 terabecquerels (TBq); Se-75 not to exceed 277 TBq, and Yb-169 not to exceed 7.4 TBq, for industrial radiography to the end-users listed is authorized. For Category 1 exports, see conditions on Page 2.

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 must submit pertinent documentation required by 10 CFR § 110.32(g) at least 24 hours prior to shipment. See Page 3 for Mandatory Advanced Notifications.

The license replaces PXB225.00 and amends it authority by extending the date of expiration July 31, 2021 to September 30, 2023.

<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 align="center"><b>THIS LICENSE IS INVALID UNLESS SIGNED BELOW BY AUTHORIZED NRC REPRESENTATIVE</b></p> <p><b>David Skeen</b> <small>Digitally signed by David Skeen Date: 2021.09.09 11:39:49 -04'00'</small></p> <p><b>NAME AND TITLE:</b> <u>David L. Skeen, Deputy Director Office of International Programs</u></p> <p><b>DATE OF ISSUANCE:</b> <u>September 9, 2021</u></p>
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**CONDITIONS FOR CATEGORY 1 EXPORTS**

Licensee is prohibited from shipping 10 CFR Part 110 Appendix P Category 1 quantities of Ir-192 and Se-75 to Israel for which government-to-government consent has not yet been requested, received and processed until the following actions are taken:

1. 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;
2. The NRC receives and considers the consent from the importing country's regulatory authority pursuant to 10 CFR §110.42(e)(3); and
3. The NRC has informed the licensee in writing, that the consent request has been granted and it is authorized to ship the materials to the ultimate consignee(s) specified on the NRC Form 7 consent request.

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

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|---|---|
| 1. Bella NDT Co.<br>97 Halutzei St.<br>Haifa 31025<br>Israel<br><br>(industrial radiography)  | 2. Gabi Shoef Ltd. (Center)<br>34 Nahal Hayarkon St.<br>Yavne<br>Israel<br><br>(industrial radiography)         |
| 3. Gabi Shoef Ltd. (North)<br>5 Bone Eliezer St.<br>Haifa<br>Israel<br><br>(industrial radiography)   | 4. Gabi Shoef Ltd. (South)<br>118/2 Tozeret Haaretz St.<br>Beer Sheva<br>Israel<br><br>(industrial radiography) |
| 5. Integrity Diagnostics Ltd.<br>7 Goborei Israel, Entrance C, First Floor<br>New Industrial Zone 4250407<br>Israel<br><br>(industrial radiography) | 6. Morex 71 Ltd. (Main)<br>25 Haela St.<br>Even Yehuda 40500<br>Israel<br><br>(industrial radiography)          |
| 7. Morex 71 Ltd. (North)<br>22 Hecharoshet St.<br>Kiryat Bialik 27104<br>Israel<br><br>(industrial radiography)                                     | 8. Morex 71 Ltd. (South)<br>25 Hacharat St.<br>Beer Sheva 84130<br>Israel<br><br>(industrial radiography)       |

**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.