


EXPORT LICENSE

<p>NRC FORM 250</p> <div style="text-align: center;">  <p>United States of America Nuclear Regulatory Commission Washington, D.C. 20555</p> </div>	<p>NRC LICENSE NO.: PXB12.05</p> <p align="right">Page 1 of 3</p> <p>NRC DOCKET NO.: 11006073</p> <p>LICENSE EXPIRES: June 30, 2031</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">LICENSEE</p> <p>QSA Global, Inc. 40 North Avenue Burlington, MA 01803</p> <p>Attn: Mary Flanigan</p>	<p align="center">ULTIMATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES)</p> <p align="center">See following page(s)</p>
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<p align="center">INTERMEDIATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES)</p> <p align="center">None</p>	<p align="center">OTHER U.S. PARTY(IES) TO EXPORT</p> <p align="center">None</p>
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<p>APPLICANT'S REFERENCE: France 22</p>	<p>ULTIMATE DESTINATIONS: See following page.</p>
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DESCRIPTIONS OF 10 CFR, APPENDIX P, BYPRODUCT MATERIALS TO BE EXPORTED, INCLUDING CONDITIONS AND NOTES
(NOTE: SEE PAGE 3 FOR DEFINITIONS OF CATEGORY 1 AND CATEGORY 2)

Export to countries listed as 'Country(ies) of Ultimate Destination.' of Category 1 quantities of Co-60, Ir-192, and Se-75 contained in sealed sources for return to suppliers and distributors, is authorized. 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 license(s).

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.

License expiration date is based on established limits. This license replaces PXB12.04 and amends its authority by 1) updating the name of an Ultimate Foreign Consignee in France and; 2) extending the expiration date from December 31, 2030 to June 30, 2031.

<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">THIS LICENSE IS INVALID UNLESS SIGNED BELOW BY AUTHORIZED NRC REPRESENTATIVE</p> <p align="center"> <small>Digitally signed by David Skeen Date: 2021.06.02 14:10:05 -04'00'</small> </p> <p>David Skeen</p> <hr/> <p>David L. Skeen, Deputy Director Office of International Programs</p> <p>NAME AND TITLE: _____</p> <p>DATE OF ISSUANCE: June 2, 2021</p>
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CONDITIONS

Licensee is prohibited from shipping 10 CFR Part 110 Appendix P Category 1 quantities of Co-60, Iridium-192, and Selenium-75 to Country(ies) of Ultimate Destination 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 importing country's regulatory authority;
2. The NRC receives and considers the consent from the importing country's regulatory authority pursuant to 10CFR 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:

- | | |
|--|---|
| 1. Actemium
ZAE de la Tremblaie - Rue de la Mare aux Joncs
Le Plessis Pate
CS41007 - 91220 Le Plessis Pate
France
(industrial radiography) | 2. Chiyoda Technol Corporation
1-7-12, Yushima
Bunkyo-Ku
Tokyo 113-8681
Japan
(industrial radiography) |
| 3. Epsilon NDT Endustriel Kontrol Sistemleri San.
Ve Tic A.S.
19 Mayıs Mh. Dr.Sevket Bey Sok. Polatçıftçiler
Apt. No:3/A
3460 Sisli Istanbul
Turkey
(industrial radiography) | 4. LOMA Systems S.R.O
QSA Division
334 41 Dobrany
Ulomy 1069
Czech Republic
(industrial radiography) |
| 5. Nuclear GmbH
Florastr. 16
40217 Dusseldorf
Germany
(industrial radiography) | 6. Nuclear Ingenieria
Plan de Ayala Manzana 57
Lote 19, Col. Santa Maria Aztahuacan
C.P. 09500, Iztapalapa CDMX
Mexico
(industrial radiography) |
| 7. Sentinel Asia
693-36 3F Chunghae Building
Yoksamdong
Seoul
Republic of Korea
(industrial radiography) | 8. Suplitech De Mexico, S.A. De C.V.
Primer Retorno Universitario #1, Int. 73-B, Col.
La Pradera
C.P. 76269, El Marques, Queretaro
Mexico
(industrial radiography) |

ULTIMATE DESTINATION(S):

Australia, Belgium, Canada, Czech Republic, France, Germany, Japan, Mexico, The Netherlands, Norway, Poland, Republic of Korea, Russia, Turkey and The United Kingdom.

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

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

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.