

**IMPORT AND EXPORT LICENSE**

NRC FORM 250P  
(12/05)



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

**NRC LICENSE NO.:** PCB16.06

**LICENSE EXPIRES:** April 30, 2012

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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 import and/or export the byproduct materials listed below, subject to the terms and conditions herein. This license is only valid if the licensee maintains the requisite NRC or Agreement State domestic licenses.

LICENSEE	ULTIMATE FOREIGN CONSIGNEE(S)
REVISS Services, Inc. Attn: John L. Schrader One Hawthorn Place 175 East Hawthorn Parkway, Suite 142 Vernon Hills, IL 60061  <b>APPLICANT'S REFERENCE:</b> Application Dated 3/3/2010 and email dated 4/28/2010	REVISS Services (UK) Ltd Building 466 Harwell Business Centre Harwell, Didcot, Oxon United Kingdom OX11 0RA  (Supplier and Disposal Facility)
INTERMEDIATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES) AND/OR IN THE U.S.	OTHER PARTY(IES) TO IMPORT AND/OR EXPORT
High Technology Sources Limited Unit 6 Moorbrook Didcot, Oxfordshire United Kingdom OX11 7HP  (Recycling/Packaging)	Listed on Page(s) 3 and 4  (Supplier and Domestic Customers)

**COUNTRY(IES) OF ULTIMATE DESTINATION:** United Kingdom and United States

**CONDITIONS, NOTES, AND DESCRIPTIONS OF 10 CFR PART 110, APPENDIX P,  
BYPRODUCT MATERIALS TO BE IMPORTED AND/OR EXPORTED**  
(NOTE: SEE PAGE 2 FOR DEFINITIONS OF CATEGORY 1 AND CATEGORY 2)

Import and export, from and to the United Kingdom, of Category 1 and Category 2 quantities of Co-60 and Cs-137, contained in sealed sources for testing, reuse, recycling, or disposal, by companies in the United States, licensed by the U.S. NRC or Agreement States, in accordance with their license, are authorized.

Import from Argentina, of Category 1 and Category 2 quantities of Co-60, contained in sealed sources for testing, reuse, recycling, or disposal by companies in the United States, licensed by the U.S. NRC or Agreement States, in accordance with their license, is authorized.

Licensee is responsible for compliance with all applicable import, export, and other domestic regulatory requirements, including all terms and conditions of domestic materials licenses. Licensee, if not already submitted with your application, must submit information required by 10 CFR §110.32(d) and pertinent documentation required by 10 CFR §110.32(h) at least 24 hours prior to shipment. See Page 2 for Mandatory Pre-shipment Notifications.

This license replaces PCB16.05 and amends its authority by: 1) adding other party(ies) to import and/or export as domestic customers; 2) extending the expiration date from November 30, 2011 to April 30, 2012; 3) removing the Ultimate Consignee; and 4) identifying REVISS Services (UK) Ltd. as an Ultimate Foreign Consignee (Supplier and Disposal Facility).

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 of the other provisions of said Act, now or hereafter in effect and to all valid rules and regulations of NRC.

THIS LICENSE IS INVALID UNLESS SIGNED BELOW  
BY AUTHORIZED NRC REPRESENTATIVE

NAME AND TITLE: Scott W. Moore  
Scott W. Moore, Deputy Director,  
Office of International Programs

DATE OF ISSUANCE: April 30, 2010

**MANDATORY PRE-SHIPMENT NOTIFICATIONS PER 10 CFR PART 110.50(b)(4)**

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

Prior Shipment 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(b)(4) Notification." For technical assistance, use the same e-mail address or call 301-816-5100.

Prior Shipment 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 Prior Shipment 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 301-415-2344.

**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
Indium-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 radionuclides 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 Pu-238 and Pu-239/Be in this table apply for imports to the U.S. 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.

## OTHER PARTY(IES) TO EXPORT/IMPORT

### SUPPLIER

Dioxitek S.A.  
Centro Atomico Ezeiza  
Presbitero Juan Gonzalez Y Aragon No. 15  
Partido De Ezeiza, Prov. De Buenos Aires  
Argentina

REVISS Services (UK) Ltd  
Building 466  
Harwell Business Centre  
Harwell, Didcot, Oxon  
United Kingdom OX11 0RA

### DOMESTIC CUSTOMERS

- |   |   |
|---|---|
| 1. Bausch and Lomb<br>8507 Pelham Road<br>Greenville, SC 29615  | 11. Sterigenics Corporation<br>5900 Obata Way<br>Gilroy, CA 95020                   |
| 2. Duke Energy Corporation<br>McGuire Island Buildings<br>7403, 7405, 7408<br>Huntersville, NC 28078-7929 | 12. Sterigenics Corporation<br>2311 Lincoln Avenue<br>Hayward, CA 94545             |
| 3. General Electric<br>Vallecitos Nuclear Center<br>6705 Vallecitos Road<br>Sunol, CA 94586               | 13. Sterigenics Corporation<br>1401 Morgan Circle<br>Tustin, CA 92680               |
| 4. J.L. Shepherd and Associates<br>1010 Arroyo Avenue<br>San Fernando, CA 91340                           | 14. Sterigenics Corporation<br>1003 Lakeside Drive<br>Gurnee, IL 60031              |
| 5. Omaha Public Power District<br>Fort Calhoun Station<br>9610 Power Lane<br>Blair, NE 68008              | 15. Sterigenics Corporation<br>711 East Cooper Court<br>Schaumburg, IL 60173        |
| 6. PGN Brunswick Nuclear Plant<br>N.C Highway 87<br>2-1/2 miles North<br>Southport, NC 28461              | 16. Sterigenics Corporation<br>10811 Withers Cove Park Drive<br>Charlotte, NC 28273 |
| 7. PPL Susquehanna LLC<br>Susquehanna Steam Electric Station<br>769 Salem Boulevard<br>Berwick, PA 18603  | 17. Sterigenics Corporation<br>1148 Porter Avenue<br>Haw River, NC 27258            |
| 8. QSA Global<br>40 North Avenue<br>Burlington, MA 01803  | 18. Sterigenics Corporation<br>108 Lake Denmark Road<br>Rockaway, NJ 07866          |
| 9. Sterigenics Corporation<br>1700 North Airport Road<br>West Memphis, AR 72301                           | 19. Sterigenics Corporation<br>75 Tilbury Road<br>Salem, NJ 08079                   |
| 10. Sterigenics Corporation<br>344 Bonnie Circle<br>Corona, CA 92880                                      | 20. Sterigenics Corporation<br>305 Enterprise Drive<br>Westerville, OH 43081        |
|   | 21. Sterigenics Corporation<br>3001 and 3125 Wichita Court<br>Fort Worth, TX 76140  |

