

EXPORT AND IMPORT LICENSE

NRC FORM 250P



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

NRC LICENSE NO.: PCB12.02

LICENSE EXPIRES: November 30, 2010

Page 1 of 4

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.

<p align="center">LICENSEE</p> <p align="center">QSA Global, Inc. ATTN: Cathleen Roughan 40 North Avenue Burlington, Massachusetts 01803</p> <p>APPLICANT'S REFERENCE: Application Dated 7/11/08</p>	<p align="center">ULTIMATE FOREIGN CONSIGNEE(S)</p> <p align="center">Listed on Pages 3 and 4.</p>
<p align="center">INTERMEDIATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES) AND/OR IN THE U.S.</p> <p align="center">NONE</p>	<p align="center">OTHER PARTY(IES) TO EXPORT/IMPORT</p> <p align="center">Listed on Page 4.</p>

COUNTRY(IES) OF ULTIMATE DESTINATION: : Australia, Belgium, Canada, France, Germany, Indonesia, Japan, Mexico, Netherlands, Norway, Poland, Russia, South Korea, United Kingdom, United States, and Venezuela

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

Import and export, from and to countries listed as 'Country(ies) of Ultimate Destination,' Category 1 quantities of Cobalt-60, Iridium-192, and Selenium-75 contained in sealed sources for use in industrial radiography and oil well logging. For exports, see conditions on Page 4.

Licensee is responsible for compliance with all applicable import, export, and other domestic regulatory requirements, including all terms and conditions of domestic material license(s). Licensee 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. Please see Page 2 Mandatory Notifications.

License expiration date is based on November 30, 2010 expiration date of the Commonwealth of Massachusetts, Department of Public Health, Radiation Control Program, Materials License 12-8361, Amendment 40.

This license replaces CBP12-1 and amends its authority to add an additional supplier/recipient as 'Other Party(ies) to Export/Import', revises the list of supplier/recipients, adds an additional ultimate foreign consignee, revises conditions, updates the NRC email address for notifications and incorporates the new license number format.

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:

December 18, 2008

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	60	1,600	0.6	16
Americium-241/Beryllium	60	1,600	0.6	16
Californium-252	20	540	0.2	5.4
Curium-244	50	1,400	0.5	14
Cobalt-60	30	810	0.3	8.1
Cesium-137	100	2,700	1.0	27
Gadolinium-153	1,000	27,000	10.0	270
Iridium-192	80	2,200	0.8	22
Plutonium-238 ²	60	1,600	0.6	16
Plutonium-239/Beryllium ²	60	1,600	0.6	16
Promethium-147	40,000	1,100,000	400	11,000
Radium-226 ³	40	1,100	0.4	11
Selenium-75	200	5,400	2.0	54
Strontium-90 (Y-90)	1,000	27,000	10.0	270
Thulium-170	20,000	540,000	200	5,400
Ytterbium-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

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

MANDATORY NOTIFICATIONS: Notifications required by 10 CFR 110.50(b)(4) are to be emailed to hoo.hoc@nrc.gov (preferred method) or faxed to 301-816-5151. In the subject line of the email or on the fax cover page include: "10 CFR 110.50(b)(4) Notification." To contact someone in the Operations Center, use the same e-mail address or call 301-816-5100. Difficulties notifying the U.S. Nuclear Regulatory Commission must be promptly reported to the Office of International Programs' import/export licensing staff at 301-415-2342 or 415-3329.

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 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.

³ Discrete sources of Radium-226.

**LIST OF ULTIMATE FOREIGN CONSIGNEE(S) FOR WHICH
GOVERNMENT-TO-GOVERNMENT CONSENT HAS BEEN GRANTED TO ALLOW THE
IMPORT OF CATEGORY 1 QUANTITIES OF COBALT-60, IRIIDIUM-192 AND SELENIUM-75**

NDT Equipment Sales Party Limited
Unit 25, 80 Box Road
P.O. Box 2383
Taren Point Bus
Australia
(consent to import expires on 30 Nov 2010)

Industrial Radiography Supplies and Services, Inc.
14705-116 Avenue
Edmonton, Alberta TSX 1J4
Canada
(consent to import expires on 30 Nov 2010)

Quality NDE
164 St. Jean Baptiste
Mercier, Quebec J6R 2C2
Canada
(consent to import expires on 30 Nov 2010)

Chiyoda Technol Corporation
7-12, Yushima 1- Chome
Bunkyo-Ku
Tokyo 113-868
Japan
(consent has no expiration)

NRG Irradiation Services
Westerduinweg 3
1755 ZG Petten
Netherlands
(consent for returns only expires on 20 Sep 2010)

G. Hartmann Vest AS
Postbroke 144 Kokstad
5863 Bergen
Norway
(consent to import expires on 31 Dec 2008)

High Technology Sources Limited
Unit 6 Moorbrook
Southmead Industrial Estate
Didcot OX11 7HP
United Kingdom
(consent to import expires on 30 Nov 2010)

Revis Services
6 Chiltern Court
Asheridge Road
Chesam Buckinghamshire
United Kingdom
(consent for returns only has no expiration)

Altec S.A.
Avenue 17 Los Haticos
Edf. San Miguel #125-54
Maracalbo
Venezuela
(consent has no expiration)

