

EXPORT LICENSE

NRC FORM 250



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

NRC LICENSE NO.: PXB139.07

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NRC DOCKET NO.: 11006082**LICENSE EXPIRES: July 30, 2027**

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).

LICENSEE

Schlumberger Technology Corporation
300 Schlumberger Drive MD-225
Sugar Land, TX 77478

Attn: Laura Wilcox

ULTIMATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES)

See following page(s)

INTERMEDIATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES)
See following page(s)**OTHER U.S. PARTY(IES) TO EXPORT**

Nuclear Sources and Services, Inc.
5711 Etheridge Street
Houston, TX 77087

(Package for export)

APPLICANT'S REFERENCE: SLB-NRC-EX-IRQ**ULTIMATE DESTINATION: Iraq**

**CONDITIONS, NOTES, AND DESCRIPTIONS OF 10CFR PART 110, APPENDIX P,
BYPRODUCT AND SOURCE MATERIALS TO BE EXPORTED**
(NOTE: SEE PAGE 4 FOR DEFINITIONS OF CATEGORY 1 AND CATEGORY 2)

Export to Iraq of specified quantities of [REDACTED] contained in sealed sources for use in oil and gas well logging operations is authorized. When combined for shipping, individual shipments may not exceed Category 2 quantities. See Page 3 for total number of sources and maximum activity levels for each source.

Sealed sources must remain in the custody of the authorized ultimate consignees at all times, and when not in use, must be stored in a secure facility of the authorized ultimate consignee listed. 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 provide pertinent documentation required by 10 CFR 110.32(g) at least 24 hours prior to shipment. See Page 4 for Mandatory Advanced Notifications. Licensee shall submit by February 1 of each year one copy of a report of all americium shipments (under this license or under a general license) during the previous calendar year as required by 10 CFR 110.54(b). The report must include: (1) a description of the material, including quantity; (2) approximate shipment dates; and (3) a list of recipient countries, end users, and intended use keyed to the items shipped.

This license replaces PXB139.06 by: 1) extending the date of expiration from June 30, 2025 to [2 years from date of issuance]; 2) adding five Intermediate Foreign Consignee(s); 3) removing four Intermediate Foreign Consignee(s); 4) adding five Ultimate Foreign Consignee(s); and 5) removing one Ultimate Foreign Consignee.

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 the other provisions of said Acts, now or hereafter in effect and to all valid rules and regulations of the Nuclear Regulatory Commission.

**THIS LICENSE IS INVALID UNLESS SIGNED BELOW
BY AUTHORIZED NRC REPRESENTATIVE**

NAME AND TITLE:

ANDREA FERKILE

Digitally signed by ANDREA FERKILE
Date: 2025.07.30 10:28:48 -0400

Andrea Ferkile, Acting Deputy Director
Office of International Programs

DATE OF ISSUANCE:

July 30, 2025

EXPORT LICENSE

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

1. [REDACTED]
Iraq

(Oilfield Servicing)

3. [REDACTED]
Iraq

(Oilfield Servicing)

5. [REDACTED]
Iraq

(Oilfield Servicing)

7. [REDACTED]
Iraq

(Oilfield Servicing)

2. [REDACTED]
Iraq

(Oilfield Servicing)

4. [REDACTED]
Iraq

(Oilfield Servicing)

6. [REDACTED]
Iraq

(Oilfield Servicing)

INTERMEDIATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES) Continued:

1. [REDACTED]
Iraq

(Customs Clearance Agent)

3. [REDACTED]
Iraq

(Customs Clearance Agent)

2. [REDACTED]
Iraq

(Customs Clearance Agent)

4. [REDACTED]
Iraq

(Facilitate Import)

INTERMEDIATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES) Continued:

5. [REDACTED]
(Facilitate Import)

6. [REDACTED] Iraq
(Facilitate Import)

7. [REDACTED] Iraq
(Facility Import)

8. [REDACTED] Iraq
(Customs and Logistics Support)

SOURCES AUTHORIZED FOR SHIPPING TO IRAQ - PXB139.07

ISOTOPE	PER SOURCE ACTIVITY	TOTAL NUMBER OF SOURCES	TOTAL MAXIMUM ACTIVITY OF ALL SOURCES FOR EACH ISOTOPE	END USE
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	Well Logging
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	Neutron Source for Well Logging
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	Neutron Source for Well Logging
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	Neutron Source for Well Logging
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	Neutron Source for Well Logging
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	Oil and Gas Well Hydraulic Fracturing
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	Detector Stabilization in Well Logging Instruments
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	Neutron Source for Well Logging

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-22