

EXPORT LICENSE

NRC FORM 250

NRC LICENSE NO.: PXB249.00

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NRC DOCKET NO.: 11006610

LICENSE EXPIRES: June 16, 2027



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

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-PAK

ULTIMATE DESTINATION: Pakistan

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 of specified quantities of Americium-241/Beryllium, Californium-252, Cesium-137, and Sodium-22 contained in sealed sources is authorized to end users in Pakistan for use in oil field servicing activities, including down hole well logging. When combined for shipping, individual shipments must be within Category 2 quantities. See page 3 for total number of sources and maximum activity levels for each source.

Licensee is responsible for compliance with all applicable export, and other domestic regulatory requirements, including all terms and conditions of domestic material possession license(s).

Licensee must submit pertinent documentation required by 10 CFR 110.32(g)(2) and (3) 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) shipped during the previous calendar year 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.

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:

Eric J. Stahl, Acting Deputy Director
Office of International Programs

DATE OF ISSUANCE:

06/16/2025

EXPORT LICENSE

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

- | | |
|---|---|
| <p>1. Dowell Schlumberger (Western) S.A.
Plot 267-268 Industrial Area
Sector I-9/3
Islamabad
Pakistan

(Oilfield Servicing)</p> | <p>2. Dowell Schlumberger (Western) S.A.
House 53 - St 2nd Street
Off Khayaban-E-Momin
Phase V - Dha
Karachi
Pakistan

(Oilfield Servicing)</p> |
| <p>3. Schlumberger Seaco, Inc.
House 53 - St 2nd Street
Off Khayaban-E-Momin
Phase V - Dha
Karachi
Pakistan

(Oilfield Servicing)</p> | <p>4. Schlumberger Seaco, Inc.
Plot 267-268 Industrial Area
Sector I-9/3
Islamabad
Pakistan

(Oilfield Servicing)</p> |
| <p>5. Schlumberger Seaco, Inc. (Branch) – Pakistan
Khaskheli Base, Kario
Khaskheli
Pakistan

(Oilfield Servicing)</p> | <p>6. Schlumberger Seaco, Inc. (Branch) – Pakistan
Schlumberger Wireline Near Al-Khadim
Petroleum Rohri Bypass Sukkur
Sukkur
Pakistan

(Oilfield Servicing)</p> |

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

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|---|--|
| <p>1. Agility Logistics (Pvt) Ltd.
Office # 15, 3rd Floor Executive Complex G8 Markaz
Islamabad
Pakistan

(Import, Customs, and Logistical Support)</p> | <p>2. Agility Logistics (Pvt) Ltd.
Plot # 12-A, Miran Mohammed Shah Road
Mohammed Ali Housing Society, Muhammad Ali Chs
Karachi, Karachi City, Sindh 75350
Pakistan

(Import, Customs, and Logistical Support)</p> |
| <p>3. Al-Fazal Associates (Pvt) Ltd.
B-277 Lala Rukh Wah Cantt
Rawalpindi
Pakistan

(Import, Customs, and Logistical Support)</p> | <p>4. Allied Rental Modaraba
2-Km Tarnol Railway Crossing, Allied Centre
Islamabad
Pakistan

(Import, Customs, and Logistical Support)</p> |
| <p>5. Allied Rental Modaraba
21/3, Sector No.22, Korangi Industrial Area
Karachi
Pakistan

(Import, Customs, and Logistical Support)</p> | <p>6. CEI Supply Chain (Pvt.) Limited
Office # 3, First Floor, Rajput Plaza, Service Road
Benazir Bhutto International Airport
Islamabad
Pakistan

(Import, Customs, and Logistical Support)</p> |

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

- | | |
|---|--|
| <p>7. DHL Global Forwarding
Plot # 65 & 66, Street # 13
Sector I-9/2, Industrial Area
Islamabad
Pakistan
(Import, Customs, and Logistical Support)</p> | <p>8. DHL Global Forwarding
187/1/E Block 2
Pechs, Shahrah-E-Qaideen
Karachi 75350
Pakistan
(Import, Customs, and Logistical Support)</p> |
| <p>9. Expeditors International (Pvt) Ltd.
1-E, 2nd Floor, Ali Plaza
Jinnah Avenue, Blue Area
Islamabad
Pakistan
(Import, Customs, and Logistical Support)</p> | <p>10. KKC (Pvt) Ltd.
127/A, Industrial Area
I-9/2, Islamabad
Pakistan
(Import, Customs, and Logistical Support)</p> |
| <p>11. M.A. Agencies
Suit No. 707, 7th Floor Trade Avenue
Hasrat Mohani Road
Karachi
Pakistan
(Import, Customs, and Logistical Support)</p> | <p>12. M/S. Rizvi Associates
Office #9, Mezzanine Floor, 25-East, Huma Plaza
Fazal UI Haq Road, Blue Area
Islamabad
Pakistan
(Import, Customs, and Logistical Support)</p> |
| <p>13. M/S. Rizvi Associates
33-35 National Chamber Aram Bagh Road Karachi
Sindh
Pakistan
(Import, Customs, and Logistical Support)</p> | |

DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES

Isotope	Per Source Activity	Total Number of Sources	Total Activity of All Sources for Each Isotope	End Use
Cs-137	No single source to exceed 0.074 TBq (2 Ci)	15	1.11 TBq	Sealed Source for Well Logging
Am-241/Be	No single source to exceed 0.592 TBq (16 Ci)	5	2.96 TBq	Sealed Neutron Source for Well Logging
Cf-252	No single source to exceed 7.4 E-4 TBq (0.019 Ci)	2	1.48 E-03 TBq	Sealed Neutron Source for Well Logging
Na-22	No single source to exceed 6 E-5 TBq (0.06 mCi)	3	1.80 E-04 TBq	Detector Stabilization in Well Logging Instrument
Cs-137	No single source to exceed 6 E-5 TBq (0.06 mCi)	92	5.52 E-03 TBq	Detector Stabilization in Well Logging Instrument

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.