EXPORT LICENSE

NRC FORM 250



United States of America

Nuclear Regulatory Commission Washington, D.C. 20555 NRC LICENSE NO.: PXB169.05

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NRC DOCKET NO.: 11006064

LICENSE EXPIRES: July 31, 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 Baker Hughes Oilfield Operations, LLC 2001 Rankin Road Houston, TX 77073 Attn: Rabah Benyahia	OTHER U.S. PARTY(IES) TO EXPORT					
INTERMEDIATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES) None	OTHER U.S. PARTY(IES) TO EXPORT None					
APPLICANT'S REFERENCE: BHI Renewal PXB169.04	ULTIMATE DESTINATION: Iraq					

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

Export to Iraq of specified quantities of

and

sources for oil, gas and well logging operations is authorized. See Page 3 for total number of sources and maximum activity levels for each source.

The sealed sources must remain in the custody of the authorized ultimate consignee 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 submit pertinent documentation required by 10 CFR 110.32(g) at least 24 hours prior to shipment. See Page 4 for Mandatory Advanced Notifications required by 10 CFR 110.50(c). 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 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.

License expiration date is based upon established limits. This license replaces PXB169.04 and amends its authority by: 1) extending the expiration date from May 31, 2024, to July 31, 2027; 2) removing one ultimate consignee; 3) revising the table of source activity; and 4) changing the point of contact.

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 U.S. 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: 2025.07.31 07:30:12 -04'00'

Andrea Ferkile, Acting Deputy Director Office of International Programs

DATE OF ISSUANCE: July 31, 2025

<u>ULTIMATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES) Continued:</u>

1. Iraq

(oil and gas well logging operations)

2.



(oil and gas well logging operations)

Total Sources Authorized For Export

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Intended Use	Well Logging	Well Logging	Test and Calibration	Test verification	Test verification	Well Logging	Test and Calibration	Test verification	Test verification	Test verification							
Total Activity in TBq				Jan 199													
Quantity																	
Source Activity in TBq				2													
Source Activity in G																	
Isotope																	
Source Name																	

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	Categor	y 1	Category 2			
Material	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		
lridium-192 (lr-192)	80	2,200	0.8	22		
Plutonium-2382 (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-2263 (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

AR2 = activity limit for radionuclides or source number 2

R1 = activity for radionuclides or source number 1
R2 = activity for radionuclides or source number 2
RN = activity for radionuclides or source number n
$$\sum_{1}^{n} \left[\frac{R_{1}}{AR_{1}} + \frac{R_{2}}{AR_{2}} + \frac{R_{n}}{AR_{n}} \right] \geq 1$$
 AR1 = activity limit for radionuclides or source number 1
AR2 = activity limit for radionuclides or source number 1
ARN = activity limit for radionuclides or source number 1
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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.