NRC FORM 250P HINITED 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 and in reliance on statements and representations heretofore made by the applicant/licer import and/or export the byproduct materials listed below, subject to the terms and conditi maintains the requisite NRC or Agreement State domestic licenses. LICENSEE	NRC LICENSE NO.: PXB119.00 LICENSE EXPIRES: April 30, 2010 Page 1 of 2					
Pursuant to the Atomic Energy Act of 1954, as amended, and the regulations issued by the and in rehance on statements and representations heretofore made by the applicant/licer import and/or export the byproduct materials listed below, subject to the terms and condition maintains the requisite NRC or Agreement State domestic licenses.	NRC LICENSE NO.: PXB119.00 LICENSE EXPIRES: April 30, 2010 Page 1 of 2					
LICENSEE	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.					
Probe Technology Services Inc. 1132 Everman Parkway, Suite 100 Fort Worth, Texas 76140	ULTIMATE FOREIGN CONSIGNEE(S) Arab Well Logging Company District 309 Street 15 Baghdad Iraq					
APPLICANT'S REFERENCE: ITAQ UT INTERMEDIATE FOREIGN AND/OR DOMESTIC CONSIGNEE(S) NONE	OTHER PARTY(IES) TO EXPORT/IMPORT Arab Well Logging Company Palestine Street P.O. Box 18528 Baghdad Iraq					
COUNTRY(IES) OF ULTIMATE DESTINATION: Iraq 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) Export of Category 3 quantities of Cs-137 (0.074 TBq), Am-241/Be (0.555 TBq), and a Category 4 quantity of Am-241/Be (0.0129 TBq), contained in a total of three sealed sources, to Iraq, for oil and gas well logging, is authorized. When combined for shipping, these sources aggregate to a Category 2 quantity. Licensee is responsible for compliance with all applicable import, export, and other domestic regulatory requirements, including all terms and conditions of domestic material possession licenses. Licensee, if not alroady submitted with your application, must submit information required by 10 CER §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. Licensee shall submit by February 1st of each year one copy of a report of all americium shipments during the previous calendar year. 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 on established limits. 						
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 INVAUD UNLESS SIGNED BELOW BY AUTHORIZED FROM REFRESENTATIVE NAME AND TITLE: Scott W Moare, Deputy Director Office of International Programs DATE OF ISSUANCE: <u>April 9, 2009</u>					

. .

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.

For international notifications see http://www-ns.iaea.org/downloads/rw/imp-export/import-export-contact-points.pdf.

	Category 1		Category 2	
Radioactive Materiai	Terabequereis (TBq)	Curies (Ci) ¹	Teraboquereis (TBq)	Curies(CI) ¹
Amencium-241	60	1,600	06	16
Americium-241/Beryllium	60	1,600		16
Californium-252	20	540	02	5.4
Curium-244	50	1,400	05	14
Cobalt-80	30	810	03	6 1
Cesium-137	100	2.700	10	27
Gadolinium-153	1,000	27,000	10 0	270
indium-192	60	2,200	08	22
Phytonium-238 ²	60	1,600	0.6	16
Plutonium-239/Berytlium ²	60	1,600	06	16
Promethium-147	40,000	1,100.000	400	11,000
Radium-228 ³	40	1,100	04	11
Selenium-75	200	5,400	20	54
Strontium-80 (Y-90)	1,000	27,000	10.0	270
Thutium-170	20,000	540,000	200	5,400
Ytterbium-189	300	8,100	3.0	81

Table 1: Appendix P to Part 110-Category 1 and Category 2 Radioactive Material Threshold Limits

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 Calegory 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.

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

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.

⁷ 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.

³Discrete sources of Radium-226.