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						Page 1 of 2			
IRC FORM 7 U.S.	C FORM 7 U.S. NUCLEAR REGULATORY COMMISSION				APPROVED BY OMB: NO. 3150-0027 EXPIRES: 6/30/2009				
8-2007) 0 CFR 11D					esponse to comply with this mandatory collection requestions requestions and polestions and polestications are that the applicable statutory, regulatory and polestications.				
					ments regarding burden estimate to the Records				
APPLICATION FO	OR NRC EX	(PORT/IMP	ORT		 U.S. Nuclear Regulatory Commission, Washingt afocollects@nrc.gov, and to the Desk Officer, Office 				
LICENSE, AME	NDMENT,	OR RENEW	/AL	Regulatory Affairs, NEO DC 20503. If a means us	B-10202, (3150-0027), Office of Management and Bursed to impose an information collection does not displ	dget, Washington, lay a currently valid			
(See	Instructions on Pag	e 5)		respond to, the information	e NRC may not conduct or sponsor, and a person on collection.	is not required to			
PART A. FOR NAC USE OF	NLY	PUBLIK	OR [NON PUBLIC	DATE RECEIVED 1/-5-	09			
ICENSE NUMBER $PCB//$	14.00	DOCKET NUMBI	N-	A	ADAMS ACCESSION NUMBER	THE THE			
					, AMENDMENTS, OR RENEWA t, and then attach additional sheets, if ne				
, NAME AND ADDRESS OF APPLICANTA				ANT'S CONTACT	1b. APPLICANT'S REFERENCE NUMBER	10 27 00			
Baker Hughes Oilfield Operation	ons, Inc.	ļ	Jan	nes Elrod	Apply Dtd.	/U-a/I-04			
Attn: James Elrod RSO		ic. PH	ONE NUMBER		1d. FAX NUMBER				
001 Rankin Road		<u>.</u>	713	-625-5930	713-625-	5858			
douston, Texas 77073		1e. E-N	MAIL ADDRESS	i	im.elrod@bakerhughes.com				
TYPE OF NRC LICENSE REQUESTED	(Check One)				·				
EXPORT (Parts B, C, E)	NOTIFICATION OF EXPORT OF INCIDENTAL RADIOACTIVE	L	IMPOR (Parts B, [COMBINED EXPORT/IMPORT (Parts B, C, D, E)	AMENDMENT/RENEWAL Existing License Number:			
	MATERIAL (PAR			07.01101151370137		T			
CONTRACT NUMBER(S) N/A	4. FIRST SHIPMEN	Attachment A	5. LA	ST SHIPMENT DATE	ee Attachment A	6. PROPOSED EXPIRATION DATE			
			ODT ONL		D LICENSES, AMENDMENTS,	See Attachment A			
					t, and then attach additional sheets, if ne				
NAME(S) / ADDRESS(ES) OF SUPPLIE		8. NAME(S) / ADDR			9. NAME(S) / ADDRESS(ES) OF ULTIMATE	cessary.)			
AND/OR OTHER PARTIES TO THE EXP		FOREIGN CONS		TERMEDIATE	FOREIGN CONSIGNEE(S)				
		South Oil C	ompany		Blue Horizon Company for Oil	Services Ltd			
None		Fields Com			Al Jazae'er Main Street				
		Burjesseya			Building No. 31/1, Flat No. 2				
		Zubair Field			Basra, Iraq				
		Basra, Iraq			,,				
		· '							
a. LIST FUNCTIONS PERFORMED/SERV	VICE PROVIDED	8a, INTERMEDIATE	USE(S)		9a. ULTIMATE END USE(S)				
i i i i i i i i i i i i i i i i i i i			ee Attachn	ent A See Attachment A		ient A			
D. DESCRIPTION OF RADIOACTIVE MA	TERIALS, SEALED	SOURCES,	10a. MAX T	OTAL VOLUME /	10b. MAX ENRIGHMENT	10c. MAX ISOTOPE			
NUCLEAR FACILITIES, EQUIPMENT, O	OR COMPONENTS		ELEME	ENT WGT (KG), OR	OR WGT%	WGT (KG)			
			TOTA	L ACTIVITY (TBq)					
			1	•					
See Atta	chment B		See	Attachment B	See Attachment B	See Attachment B			
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NRC FORM 7 (8-2007)

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U.S. NUCLEAR REGULATORY COMMISSION

NRC FORM 7 (8-2007) 10 CFR 110

APPLICATION FOR NRC EXPORT/IMPORT LICENSE, AMENDMENT, OR RENEWAL (Continued)

LICENSE NUMBER DOCKET NUMBER	ADA	MS ACCESSION NUM	IBEA	PUBLIC OR	NON-PUBLIC	
PART D. TO BE COMPLETED FO						
(If more space is needed to co 12. NAME(S) / ADDRESS(ES) OF FOREIGN SUPPLIERS AND/OR OTHER PARTIES TO IMPORT		ms, use Pages 3-4 first, and ther		n attach additional sheets, if nec 14. NAME(S) / ADDRESS(ES) OF ULTII CONSIGNEE(S)		
None		N/A		See Block 1		
	·					
12a. NRC EXPORT LICENSE NUMBER(S)	13a. LICENSE NUMBER	(S) / EXPIRATION DATE(S	5)	14a. LICENSE NUMBER(S) / EXPIRATION DATE(S)		
(f applicable)		N/A		Texas License		
N/A				L04452 Expiration 11/30/2009 (will be renewed)		
	13b. INTERMEDIATE US	E(S)		14b. INTERMEDIATE USE(S)		
	N/A			Evaluation and re-distribution for Oil and Gas Well Logging Operations		
15. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED S NUCLEAR FACILITIES	OURCES,	15a. MAX TOTAL VOLUM ELEMENT WGT (KO TOTAL ACTIVITY (3), OR	15b. MAX ENRICHMENT OR WGT %	15c. MAX ISOTOPE WGT (KG)	
See Attachment B		See Attachment B		See Attachment B	See Attachment B	
					Poch	
16. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCEN	TAGE OF MAXIMUM TO	TAL VOLUME) N/A	<u>.</u>			
PART E. TO BE CO	MPLETED FOI	R <u>ALL</u> LICENSE	ES, AMEN	DMENTS, OR RENEWA	LS	
17. ADDITIONAL INFORMATION PROVIDED ON PAGES 3, 4, AND?OR ON SEPARATE SHEETS?	√YES	, <u>[</u>	S OF RECIPIEN	————	√ NO	
HO. CENTIFICATION.		, hereby certify that t n provided is correc		on is prepared in conformity with of my knowledge.	Title 10, Code of Federal	
18a. PRINT NAME AND TITLE OF AUTHORIZED OFFICIAL Stephen K Ellison - President Drilling &	& Evaluation	18b. SIGNATURE - AUTH			18c. DATE 270et 2009	

Mint /14/27/2009

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Additional Supporting Information to NRC Form 7

(Boxes 4, 5, & 6) Explanation of quantities and dates — Approximately one or two sets of the quantities requested are required at the initial mobilization which is planned for the first quarter of 2010 or as soon as possible thereafter. A set would consist of 1 of each item listed. The remaining quantities are for potential growth and will be exported only as and when required. The proposed expiration of 5 years allows operational time in country for business review and renewal of license.

(Boxes 8a & 9a) Information on end use/user — The sealed sources are intended to be used in oil and gas well logging operations and the maintenance of oil well logging instruments.

The end user would be Baker Hughes Oilfield Operations, Inc. operating under an [] registered entity named [], which is a wholly owned subsidiary of Baker Hughes Inc. The intermediate consignee is South Oil Company and their physical location will be used for temporary storage, and possible deployment to jobsites. The sources will remain under the control of Baker Hughes employees or their intermediate consignee and will not be sold to other parties or exported to another country.

Box 17 Additional Information

Baker Hughes Oilfield Operations Inc (BHOO) intends to begin operations in Iraq providing "oil field services" to international oil companies. Oil well logging involves conveying specially designed "logging" instruments into the wells to measure properties of the rocks and fluids such as resistivity and porosity.

BHOO offers a full range of well logging services including density and neutron porosity devices which are fundamental measurements used in almost every oil or gas well globally. These devices utilize special form sealed sources containing Cs137 and Am241. The sources used during down-hole operations also meet Oil Well Logging (OWL) specifications and are at minimum a double encapsulation that will protect against the high pressures and corrosive fluids encountered in oil wells. Encapsulated radioactive sources can be acquired in many countries as they are widely used in other industries such as medical and food processing, however double encapsulated OWL sources are unique to the well logging industry. Vendors in the US supply all the OWL encapsulated sealed sources used by well logging service companies. For this reason BHOO wishes to export to Iraq a defined quantity of sealed sources produced to our specifications by our suppliers [] and [].

The only criteria in "10CFR 110.42 Export Licensing Criteria" that applies to the sealed sources in this application is paragraph (c) which requires that "the proposed export is not inimical to the common defense and security". We believe

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and hope that the Commission will agree that the Category 3 quantity of byproduct material contained in the individual sealed sources that we wish to export, would not constitute a threat to the defense and security of the US. The information supplied supports this position.

Most of the start up operations will be conducted in the areas of the [] sector in fields like [].

In the event of down-hole abandonment, BHOO requests that the export limits this license imposes be applicable only to operational sources in-country. BHOO shall be able to replace those abandoned sources without any amendments or changes to the license, upon appropriate notifications to the NRC.

Security and Safety Plan

BHOO radiological procedures provide a high standard of security and safety for our employees and the general public. These procedures will be implemented in lraq just as they are in all other countries where we operate.

Baker Hughes Inc. - Corporate Security:

Corporate Security has assessed the situation in Iraq over the past year and has determined that it is safe for BHI to operate in southern Iraq provided that robust security measures are implemented. The assessment included several visits to Iraq and discussions with British and American military officials, private security companies, logistics companies, national oil company officials, etc. A dedicated security manager for Iraq has been appointed and detailed plans are being formulated to assure the security of BHI personnel and assets. These plans include the design of the main operating base to be constructed near Basra and the hiring of a licensed security provider to protect the base and personnel while they are in Iraq.

Base Security:

The [] operating base is to be located in the [] oilfield to the southwest of the
city of [] where land has been allocated for several international oilfield service
companies. []. Radioactive sources will be stored in securely locked
underground bunkers within a dedicated building. Access to the bunker keys wil
be strictly limited and all movements in and out will be logged. []

Transportation:

[]	The logging sources are transported in DOT Type A shipping	g shields locked
witl	th padlocks for which the keys are carefully controlled. []	

All movements are []

Well-site Security:

When operating on a drilling rig or work-over rig, security will normally be provided by the rig contractor and will be []

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Some operations will be performed on wells where a rig is not present. In this case security [] take place during daylight hours.

Contact Information

Contact people in regards to receiving confidential information from the NRC, Homeland Security, or any other related government agency shall be the following:

Jim Elrod Radiation Safety Officer Houston Technology Center Office: 713-625-5930

Cell: 713-205-3031 Fax: 713-625-5858 Brian Caldwell Manager HSE Global Radiation Team

Office: 713-966-3057 Cell: 832-451-0754 Fax: 713-625-6439

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(Boxes 10, 10a, 10b, 10c and 15, 15a, 15b, 15c) List/description of sources

In addition to the aforementioned double-encapsulated sources that are placed in the logging instruments when they are in the well, we also use a variety of smaller sources for testing and calibration both in the laboratory and at the well- site.

BHOO requests to export the quantity of sources as listed in the following table for our wire-line, LWD and surface operations. This quantity will not be exported at one time. The quantities exported will be in smaller increments dependent upon the need for start up operations and then future shipments for support of expanding operations.

It is projected that approximately one or two sets of the quantities requested are required at the initial mobilization which is planned for the first quarter of 2010 or as soon as possible thereafter. A set would consist of 1 of each item listed.

This Chart indicates sources requested for Wire Line Operations

		Individual Source		Total		Type of	Physical
Type	Isotope	Strength	Qty	Curie	Use	material	Form
Density Logging	Cs137	2.5 Ci	r 1	f 1	Wire line Density logging	Byproduct material	Special form (OWL)
Neutron Logging	Am241Be	15 to 15.5 Ci			Wire line Neutron logging	Byproduct material	Special form (OWL)
Well-site Verifier	Cs137	540 μCi			Wire line Density verifier	Byproduct material	Special form
Well-site Verifier	Am241Be	400 mCi	L	<u> </u>	Wire line Neutron verifier	Byproduct material	Special form
Lab Source	Am241Be	75 to 100 mCi			Wire line Lab Calibration	Byproduct material	Special form
Well-site Verifier	Ra226	2.5 μCi			Wire line Gamma Ray calibrator	Natural material	Sealed source
Lab Source	Am241Be	1 mCi			Wire line Lab Calibration	Byproduct material	Special form
Lab Source	Cs137	10 μCi			Wire line Lab Calibration	Byproduct material	Special form
Lab Source	Cs137	100 μCi		[_]	Wire line Lab Calibration	Byproduct material	Special form
Production Logging	Am 241	150 mCi			Production Logging	Byproduct material	Special form
Production Logging	Cs 137	100 mCi			Production Logging	Byproduct material	Special form
Crystal Detectors	Cs 137	500 nCi			Density tool Verification	Byproduct material	Solid
Crystal Detectors	Cs 137	325 nCi			Density tool Verification	Byproduct material	Solid
Crystal Detectors	Cs 137	295 nCi			Density tool Verification	Byproduct material	Solid

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Pulsed Neutron	Tritium	1 Ci		Neutron Logging	Radioactive Material	Solid Matrix
Collar Markers				Marking Drill Collar	Byproduct	
	Co 60	5 μCi		Location	material	Solid

This Chart indicates sources requested for Logging While Drilling Operations and Surface Monitoring

Surface Monitoring									
		Individual Source					n e e e e		
Туре	Isotope	Strength	Qty	Total Curie	Use	Type of material	Physical Form		
			P30. T T 275.	1455-1455-1455-1455-1455-1455-1455-1455	LWD		Special		
Density					Density	Byproduct	form		
Logging	Cs137	2.5 Ci			logging	material	(OWL)		
N. I. a.					LWD	D	Special		
Neutron Logging	Am241Be	5 Ci	r 1	r 1	Density logging	Byproduct material	form (OWL)		
	Amzarbe								
Neutron Verifier	Am241Ba	2 x 30		£ 1	Jobsite	Byproduct	Special		
	Am241Be	mCi		<u> </u>	Verification	material	form		
Neutron Lab Test	Am241Be	2 x 100 mCi	, ,		Lab Tests	Byproduct material	Special		
	AIIIZ41DE	IIICI			Lab Tesis		form		
Density Lab Test	Am 241	2 v 1 mCi	ſì	, ,	Lab Tests	Byproduct material	Special form		
	AIII 241	2 x 1 mCi		<u> </u>	Lab resis	† · · · · · · · · · · · · · · · · · · ·	101111		
Gamma	Co 127	E nCi	, ,	r 1	Lab Toota	Byproduct	Colid .		
Calibration	Cs 137	5 nCi			Lab Tests	material	Solid		
Alpha	A 044	гO:			lab Tasta	Byproduct	Called		
Calibration	Am 241	5 nCi		<u> </u>	Lab Tests Density	material	Solid		
Gamma					tool	Byproduct			
Detectors	Cs 137	400 nCi	r 1	r ı	Verification	material	Solid		
					Density				
Gamma	Cs 137				tool	Byproduct	1		
Detectors		50 nCi			Verification	material	Solid		
					Density				
Gamma	Cs 137	198 nCi	, ,		tool Verification	Byproduct	Calle		
Detectors		198 1101		<u> </u>	Density	material	Solid		
Gamma	Cs 137				tool	Byproduct			
Detectors	CS 137	42 nCi	1	1	Verification	material	Solid		
					Density		000		
Gamma	Cs 137				tool	Byproduct			
Detectors		71 nCi			. Verification	material	Solid		
					Surface	Byproduct			
Densitometers	Cs 137	200 mCi	Ш		Monitor	material	Solid		
	0 40-				Surface	Byproduct			
Densitometers	Cs 137	150 mCi	ш		Monitor 1	material	Solid		

Pools 09