

NRC FORM 7
(8-2011)
10 CFR 110

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0027

EXPIRES: 08/31/2012

APPLICATION FOR NRC EXPORT OR IMPORT LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S)

(See Instructions on Pages 4 and 5)

Estimated burden per response to comply with this mandatory collection request: 2.4 hours. This submittal is reviewed to ensure that the applicable statutory, regulatory, and policy considerations are satisfied. Send comments regarding burden estimate to the Information Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to Infocollects.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0027), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

PART A. FOR NRC USE ONLY	<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC	DATE RECEIVED 4-23-14
LICENSE NUMBER PXB179.00	DOCKET NUMBER 11006159	ADAMS ACCESSION NUMBER

PART B. TO BE COMPLETED FOR ALL LICENSES, AMENDMENTS, RENEWALS, OR CONSENT REQUESTS

(If more space is needed to complete any of the items, use Pages 3-4 first, and then attach additional sheets, if necessary.)

1. NAME AND ADDRESS OF APPLICANT/LICENSEE Halliburton Energy Services 2107 City West Blvd., Bldg 4 Houston, TX 77042	1a. NAME OF APPLICANT'S CONTACT DJ Johnson	1b. APPLICANT'S REFERENCE NUMBER HES3143
	1c. PHONE NUMBER (713) 839-3118	1d. FAX NUMBER (713) 839-3290
	1e. E-MAIL ADDRESS dj.johnson@halliburton.com	

2. TYPE OF ACTION REQUESTED (Check One)

EXPORT
(Parts B, C, E)IMPORT
(Parts B, D, E)AMENDMENT/RENEWAL
Current License Number:CONSENT REQUEST
(Parts B, C)
Current License Number:

3. CONTRACT NUMBER(S)	4. FIRST SHIPMENT DATE 5/10/14	5. LAST SHIPMENT DATE	6. PROPOSED EXPIRATION DATE 12/31/15
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PART C. TO BE COMPLETED FOR EXPORT LICENSES, AMENDMENTS, RENEWALS OR CONSENTS

(If more space is needed to complete any of the items, use Pages 3-4 first, and then attach additional sheets, if necessary.)

7. NAME(S) / ADDRESS(ES) OF SUPPLIERS AND/OR OTHER PARTIES TO THE EXPORT Halliburton Energy Services, Inc. 3000 N. Sam Houston Prkwy East Building M Houston, TX 77032-3219	8. NAME(S) / ADDRESS(ES) OF INTERMEDIATE FOREIGN CONSIGNEE(S)	9. NAME(S) / ADDRESS(ES) OF ULTIMATE FOREIGN CONSIGNEE(S) Multiple Consignees see page 3.	
7a. FUNCTION(S) PERFORMED/SERVICE(S) PROVIDED	8a. INTERMEDIATE USE(S)	9a. ULTIMATE END USE(S)	
10. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES, EQUIPMENT, OR COMPONENTS; FOR NUCLEAR EQUIPMENT INCLUDE TOTAL DOLLAR VALUE OF EQUIPMENT FOR EXPORT Category 2: Americium-241, Americium-241/Beryllium, Cobalt 60, Californium-252, and Cesium-137	10a. MAX TOTAL VOLUME / ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq) N/A	10b. MAX ENRICHMENT OR WGT % N/A	10c. MAX ISOTOPE WGT (KG) N/A

11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME)

4-23-14
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NRC FORM 7
(8-2011)
10 CFR 110

U.S. NUCLEAR REGULATORY COMMISSION

APPLICATION FOR NRC EXPORT OR IMPORT LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S) (Continued)


LICENSE NUMBER PXB189.00	DOCKET NUMBER 11001059	ADAMS ACCESSION NUMBER	<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC
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PART D. TO BE COMPLETED FOR IMPORT LICENSES, AMENDMENTS, OR RENEWALS

(If more space is needed to complete any of the items, use Pages 3-4 first, and then attach additional sheets, if necessary.)

12. NAME(S) / ADDRESS(ES) OF FOREIGN SUPPLIERS AND/OR OTHER PARTIES TO IMPORT Multiple Halliburton Energy Services and subsidiary locations worldwide.	13. NAME(S) / ADDRESS(ES) OF INTERMEDIATE CONSIGNEE(S)	14. NAME(S) / ADDRESS(ES) OF ULTIMATE U. S. CONSIGNEE(S)	
12a. NRC EXPORT LICENSE NUMBER(S) (if applicable)	13a. LICENSE NUMBER(S) / EXPIRATION DATE(S)	14a. LICENSE NUMBER(S) / EXPIRATION DATE(S)	
	13b. INTERMEDIATE USE(S)	14b. ULTIMATE END USE(S)	
15. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES Category 2: Americium-241, Americium-241/Beryllium, Cobalt 60, Californium-252, and Cesium-137	15a. MAX TOTAL VOLUME / ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq) N/A	15b. MAX ENRICHMENT OR WGT % N/A	15c. MAX ISOTOPE WGT (KG) N/A
16. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME)			

PART E. TO BE COMPLETED FOR ALL LICENSES, AMENDMENTS, RENEWALS OR CONSENT REQUEST(S)

17. ADDITIONAL INFORMATION PROVIDED ON PAGES 3, 4, AND/OR ON SEPARATE SHEETS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	17a. COPIES OF RECIPIENTS' AUTHORIZATIONS PROVIDED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
18. CERTIFICATION: I, the applicant's authorized official, hereby certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, and that all information provided is correct to the best of my knowledge.	
18a. PRINT NAME AND TITLE OF AUTHORIZED OFFICIAL DJ Johnson (ITC Analyst) International Trade Compliance	18b. SIGNATURE -- AUTHORIZED OFFICIAL 
18c. DATE 4/16/14	

Rec'd 4-23-14
JMS

NRC FORM 7

(8-2011)
10 CFR 110

U.S. NUCLEAR REGULATORY COMMISSION

APPLICATION FOR NRC EXPORT OR IMPORT LICENSE, AMENDMENT, RENEWAL OR CONSENT REQUEST(S) (Continued)

LICENSE NUMBER PX 5159.00	DOCKET NUMBER 11026659	ADAMS ACCESSION NUMBER	<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC
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ADDITIONAL INFORMATION (Reference applicable block numbers from page 1 and/or page 2 for each entry)

Consignee Addresses:

Chevron Iraq (Sarta) Limited
Chevron Iraq (Rovi) Limited
Empire Business Complex- Building C3 2nd and 3rd Floor
Airport Road-Erbil-Iraq

Gulf Keystone Petroleum International Ltd.
3rd Floor UB Centre
Bakhtyari- Erbil
IRAQ

Oil Search (Iraq) Limited
For Boots & Coots Services LLC
VILLA # 655, ERBIL
IRAQ

TALISMAN BLOCK 44 B.V.
For Boots & Coots Services LLC
VILLA # 655, ERBIL
IRAQ

WesternZagros Limited
House Number 17
Neighborhood 3, Ashty 104
Sulaymaniya, Iraq

TAQ TAQ OPERATING COMPANY LTD – Erbil Branch
100m St., Italian Village Villa no. 128
Erbil / IRAQ

Gazprom Neft Middle East B.V.
Lot 232-233, Texas Str., American Village,
Erbil, Kurdistan, Iraq

DNO International ASA
Empire Business Complex
Building C2, Floor 3
Erbil
IRAQ

Genel Energy International Limited
c/o Ebu Ali Company
Ebu Ali Company
ERBIL
IRAQ

*Rel 4-23-19
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HALLIBURTON

International Trade Compliance Group
2107 City West Blvd., Bldg 4, 13th Floor – Houston, TX 77042
Direct 713-839-4566 - Fax: 713-839-4490


Deputy Director,
Office of International Programs
U.S. Nuclear Regulatory Commission
Mail Stop O-4E21
11555 Rockville Pike
Rockville, Maryland 20852

4/22/14

RE: Application for License for the Export and Import of Americium-241, Americium-241/Beryllium, Cobalt 60, Californium-252, and Cesium-137

HES3143

Deputy Director,

Halliburton Energy Services, Inc. is applying for a license to export and import Category 2: **Americium-241, Americium-241/Beryllium, Cobalt 60, Californium-252, and Cesium-137** sources for shipments to Kurdistan. These materials will be used to provide logging and perforating services to our multiple consignees (please see Form 7 for all consignee information) clients by Halliburton Energy Services, Inc. (HES). These items are subject to the export-licensing jurisdiction of the U. S. Nuclear Regulatory Commission. Enclosed please find Halliburton's check, , in the amount of \$8,700.00 (Eight Thousand, Seven Hundred Dollars, and No Cents) as the application fee for this license.

Sealed sources will remain in the custody of by Halliburton Energy Services, Inc. (HES) at all times, and when not in use, will be stored in a secure facility controlled by Halliburton Energy Services and its subsidiaries.

Halliburton Energy Services, Inc., in consideration of Title 10, Part 110.42 (c) of the Code of Federal Regulations, submits that the NRC-Controlled Items proposed for export are not inimical to the common defense and security of the United States and the proposed exports are consistent with the policies and objectives of the United States Government.

Included in the application package please find (1) a completed and signed copy of NRC Form 7, "Application for License to Export Nuclear Material and Equipment," and (1) Halliburton check for license application processing.

*per 4-23-14
JMS*

If you should have any questions please do not hesitate to call or write at the above number or address.

Sincerely,

DJ Johnson
Halliburton Law Department
International Trade Compliance
Phone: 713-839-3118
Fax: 713-839-4490
DJ.Johnson@halliburton.com

Enc: NRC Form 7
Halliburton check for application

*Ans 4-22-04
NRC*

License Application and Request:

The purpose of this license application is to request an RA Source license to export to Kurdistan Iraq.

This application criteria is based on business requirements to fulfill by Halliburton Energy Services, Inc. (HES) in the oil and gas field service work both onshore and offshore.

The regulation requires the use of the 'sum of calculations' methodology for multiple or consolidated shipments. Halliburton has several RA sources that are less than the threshold but could exceed the limits if consolidated.

Scope of Work:

Halliburton Energy Services, Inc. (HES) is one of the world's largest providers of products and services to the oil and gas industries. HES offers a broad array of products and services to upstream oil and gas customers worldwide. The Drilling and Formation Evaluation segment is primarily involved in drilling and evaluating the formations related to borehole construction and initial oil and gas formation evaluations and RA sources are a necessary element to the evaluation. RA sources will be used to provide logging and perforating services to our clients in Kurdistan Iraq.

Halliburton's Corporate Radiation Safety Program:

Halliburton Energy Services, Inc. (HES) ensures compliance with radioactive source regulations by Company Policy and through the training, execution, and monitoring of our Corporate Radiation Safety Program (CRSP). The purpose of the CRSP program is to define and implement processes that minimize radiation exposure of personnel, property, and the environment resulting from working with radioactive materials and sources used by the company. Key areas covered by the program include:

- Organization and Authority Descriptions
- Radiation Safety Procedures Development and Maintenance
- Radiation Safety Training
- Radiation Exposure Control
- Procedures for Receipt, Handling, Identification, and Disposal of Radioactive Materials
- Radiological Emergencies and Incidents
- Radiation Protection Equipment Calibration and Maintenance
- Recordkeeping

It is the policy of Halliburton Energy Services, Inc. (HES) that the CRSP be executed both nationally and internationally. HES facilities located in countries with less restrictive regulations shall comply with this program as the minimum acceptable standard of radiation safety. A copy of these guidelines can be provided as required.

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End User Authorization to Receive and Possess the Material:

Halliburton Energy Services, Inc. (HES) will be the end user of these materials in Kurdistan Iraq.

Licensed materials will be stored at approved by Halliburton Energy Services, Inc. (HES) only. All current facilities are licensed for use and storage as required by local and international law. All future facilities will also be licensed for use and storage as required by local and international law before import or exports or source are allowed.

The licensed materials shall be used by, or under the supervision and in the physical presence of the Halliburton Energy Service's Radiation Safety Officer, or individuals who have been trained as specified in Halliburton's materials license of individuals designated as users.

Random compliance audits check the effectiveness of each facility's radiation safety program maintenance while providing oversight by the Global Radiation Safety Group. The audit covers all major aspects of all the radioactive material usage. This audit is conducted by a Global Radiation Safety Officer (GRSO), and Associated Radiation Safety Officer (ARSO), a Region Radiation Safety Manager, or a qualified individual designated by a GRS).

Concern for Diversion:

The RA sources authorized for export under this license will only be used by trained employees of Halliburton Energy Services, Inc. and trained employees of its subsidiaries.

Halliburton's Corporate Radiation Safety Program provides auditable processes for storage, usage, transportation, monitoring, and recordkeeping for all radioactive sources as well as training and internal management review to ensure the safety of the people and the environment.

All movements of radioactive sources are pre-screened and approvals are required prior to shipment by the Radiation Safety Group and the International Trade Compliance Department.

The RA sources authorized for export or import will not be used for any nuclear activities or by any nuclear end users.

The commodities will not be resold without prior approval and notification as required by the NRC and local regulations.

Halliburton Energy Services, Inc. and its subsidiaries has consistently maintained, monitored, and reported to the Nuclear Regulatory Commission on all licenses related to the control of radioactive materials.

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RA SOURCES NEEDED FOR KURDISTAN

ISOTOPE	TOTAL MAXIMUM ACTIVITY OF ALL SOURCES FOR EACH ISOTOPE	TOTAL NUMBER OF SOURCES	END USE
Cs-137	4.2 E-4 TBq	20	Tool and Instrument calibration
Cs-137	6.6E-2 TBq	17	Well Logging
Th-232	1.9 E-4 TBq	17	Tool and Instrument calibration
Am-241	1.9 E-9 TBq	17	Tool and Instrument calibration
Am-241/Be	0.6 TBq	17	Well Logging
Cs-137	3 E-8 TBq	17	Density Verification
Cs-137	1.9 E-8- TBq	17	Density Verification
Am-241	5.5 E-3 TBq	17	Tool and Instrument calibration
Co-60	3.7 E-8 TBq	405	Density Verification; Marker Bead Assembly
Am-241	4.6 E-3 TBq	8	Tool and Instrument calibration
Co-57	1.1 E-4 TBq	17	Density Verification
Am-241/Be	0.7 TBq	17	Well Logging
Am-241/Be	0.7 TBq	17	Well Logging
Am-241/Be	0.3 TBq	17	Well Logging
Th-232	1.9 E-4 TBq	17	Tool and Instrument calibration
Th-232	1.1 E-4 TBq	17	Tool and Instrument calibration
Am-241/Be	0.55 TBq	17	Well Logging
Am-241/Be	0.15 TBq	17	Well Logging
Cf-252	6.7 E-4 TBq	17	Tool and Instrument calibration
Cs-137	0.07 TBq	41	Well Logging
Cs-137	1.4 E-8 TBq	14	Well Logging
Cs-137	8 E-9 TBq	20	Well Logging
Cs-137	8 E-9 TBq	20	Well Logging
Am-241/Be	0.3 TBq	20	Well Logging
Am-241/Be	7.4 E-3 TBq	20	Tool and Instrument calibration

Handwritten signature and date
 4-23-14
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