

**APPLICATION FOR LICENSE TO EXPORT
NUCLEAR MATERIAL AND EQUIPMENT**

(See Instructions on Reverse)

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 Records Management Branch (T-6 EB), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by Internet e-mail to infocollect@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.

1. APPLICANT'S USE	a. DATE OF APPLICATION 3-23-06	b. APPLICANT'S REFERENCE	2. NRC USE	a. DOCKET NUMBER	b. LICENSE NUMBER CBP0041
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3. APPLICANT'S NAME AND ADDRESS			4. SUPPLIER'S NAME AND ADDRESS (Complete if applicant is not supplier)		
a. NAME Halliburton Energy Services			a. NAME See Attachment 1		
b. STREET ADDRESS (Facility Site) 2101 City West Blvd., Bldg. 2			b. STREET ADDRESS		
c. CITY Houston,	d. STATE TX	e. ZIP CODE 77242	b. STREET ADDRESS		
f. TELEPHONE NUMBER (713) 839-4549	g. FAX (713) 839-4564	h. E-MAIL cynthia.dorris@h	c. CITY	d. STATE	e. ZIP CODE

5. FIRST SHIPMENT SCHEDULED	6. FINAL SHIPMENT SCHEDULED	7. APPLICANT'S CONTRACTUAL DELIVERY DATE	8. PROPOSED LICENSE EXPIRATION DATE 12/31/2011	9. CONTRACT NO.
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10. ULTIMATE FOREIGN CONSIGNEE		11. ULTIMATE END USE (Include plant or facility name)	
a. NAME Halliburton Energy Services		Halliburton Energy Services and Subsidiaries in the following country: United Arab Emirates	
b. STREET ADDRESS (Facility Site) See Attached		11a. DATE REQUIRED	
c. CITY	d. COUNTRY		

12. INTERMEDIATE FOREIGN CONSIGNEE		13. INTERMEDIATE END USE	
a. NAME		13a. DATE REQUIRED	
b. STREET ADDRESS (Facility Site)			
c. CITY	d. COUNTRY		

14. INTERMEDIATE FOREIGN CONSIGNEE		15. INTERMEDIATE END USE	
a. NAME		15a. DATE REQUIRED	
b. STREET ADDRESS (Facility Site)			
c. CITY	d. COUNTRY		

16. COM CODE	17. DESCRIPTION (Include chemical and physical form of nuclear material; give dollar value of nuclear equipment and components)	18. MAX. ELEMENT WEIGHT	19. MAX. WT. %	20. MAX. ISOTOPE WEIGHT	21. UNIT
	See Attachment 1 Americium-241 and Americium-241/Be for shipments that are in excess of the threshold.			3	

22. FOREIGN OBLIGATIONS BY COUNTRY AND PERCENTAGE (Use separate sheet if necessary)

23. ADDITIONAL INFORMATION ON CONSIGNEES, END USES, AND PRODUCT DESCRIPTION (Use separate sheet if necessary)
See Attachment 2 - Support Document

24. The applicant certifies that this application is prepared in conformity with Title 10, Code of Federal Regulations; and that all information in this application is correct to the best of his/her knowledge.

25. AUTHORIZED OFFICIAL	a. SIGNATURE Cindy Dorris	b. TITLE Administrator, International Trade Compliance
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2006 MAR 31 AM 8:00

HALLIBURTON

International Trade Compliance • 2101 CityWest Blvd., Bldg. 2 • Houston, TX 77042-3201
P.O. Box 42806 Houston, TX 77242
Phone 713.839.2000 • Fax 713.839.4564

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

March 23, 2006

RE: Application for Specific License for the Export of Americium in amounts exceeding SI Limits - NRC 10 CFR, Part 110

Deputy Director,

Halliburton Energy Services, Inc. is applying for a license to export, re-export, and import [REDACTED] Americium-241 and Americium-241/Be for shipments that are in excess of the [REDACTED] threshold. These materials are used to calibrate down hole well logging equipment, for the completion of an oil or gas well prior to production, or to enhance production of existing wells. These items are subject to the export licensing jurisdiction of the U.S. Nuclear Regulatory Commission. Enclosed please find Halliburton check in the amount of \$1600.00 (Sixteen hundred dollars) as the application fee for this license.

The NRC – Controlled Items are currently in the possession of either Halliburton Energy Services in the United States or subsidiaries in application countries. The NRC Controlled items that are currently abroad were authorized for export from the United States by an NRC General License under the conditions of Title 10, Parts 110.23 of the Code of Federal Regulations. Following the export of these materials, the material will remain in the custody of Halliburton employees and when not mobilized in support of field activities will be stored in a secure Halliburton facility.

Halliburton Energy Services uses by-product material as tool and equipment calibration sources for the purpose of calibrating and testing well logging tools. The NRC Controlled items are described in attachment 2 to the application.

Halliburton Energy Services 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.

Halliburton

Included in the application package please find a completed and signed copy of NRC Form 7, "Application for License to Export Nuclear Material and Equipment," with Attachments and 4 copies of the application package to facilitate your review.

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

Sincerely,

A handwritten signature in black ink that reads "Cindy Dorris". The signature is written in a cursive style with a large, stylized "C" and "D".

Cindy Dorris

Halliburton Energy Services

International Trade Compliance

Enc: NRC Form 7

Halliburton Energy Services Attachment 1

Halliburton Energy Services Attachment 2

Halliburton Check for Application

Attachment 1
USNRC Form 7, Items 16 – 23

Halliburton's license application criteria is based on specific shipments that exceed NRC threshold limits as per 10 CFR Part 110. Our current inventory includes [REDACTED] Ambe sources that will require this license for all exports, re-exports, or imports returning to the U.S.

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

Description	Unit Value (rounded)
[REDACTED] Am241Be Logging Source used with dual spaced Neutron Tool.	\$4,000.00
[REDACTED] Am241Be Logging Source used with dual spaced Neutron Tool	\$500.00
[REDACTED] Am241 source for use with the Fluid Density Tool	\$1500.00
[REDACTED] Am241 calibration source for tool calibration	\$2200.00
[REDACTED] Am241Be sealed source with transport shield used in Compensated Thermal Neutron (CTN) Tool	\$8000.00
[REDACTED] Am241Be sealed source with transport shield used in Compensated Neutron Porosity Tool (CNPh)	\$5500.00
[REDACTED] Am241Be sealed source installed in Compensated Thermal Neutron (CTN) verifier for calibration of CTN Tool.	\$600.00

Application country for Halliburton Energy Services or Subsidiaries: United Arab Emirates

Halliburton Energy Services (HES)

Application Reference Number HES4008

Introduction

Halliburton is one of the world's largest providers of products and services to the oil and gas industries. Halliburton Energy Services Group (HES) offers a broad array of products and services to upstream oil and gas customers worldwide, ranging from the manufacturing of drill bits and other downhole and completion tools to pressure pumping services.

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 evaluation.

The products and services in this segment incorporate integrated technologies, which offer synergies related to drilling activities and data gathering. The segment consists of drilling services, including directional drilling and measurement-while-drilling/logging-while-drilling; logging services; and drill bits. Included in this business segment are Sperry Drilling Services, Logging Services, and Security DBS Drill Bits.

License Application and Request

The purpose of this license application is to request specific authorization for the import, export and re-export of the byproduct materials *Americium-241* and *Americium-241/Be* as per the amendments to Nuclear Regulatory Commission (NRC)10CFR Part 110, published in the Federal Register July 1, 2005. These recent amendments provide for enhanced tracking of certain exports and imports of radioactive materials and sources including requirements for specific export and import licenses when amounts exceed threshold limits noted in Appendix P to Part 110. The following information is provided in support of this application and to ensure the NRC that Halliburton is in compliance with the rules and regulations set forth in the export-import provisions of the Code of Conduct on the Safety and Security of Radioactive Sources.

Halliburton transfers these tools between our facilities as required by the workload and as required for repair or redeployment of the tools. The primary location for redeployment is the HES United States facility located in Houston, Texas. For this reason we are requesting permission for imports as well as exports and re-exports.

Usage of RA Americium-241 and Americium-241Be

Halliburton uses several strengths of Ambe 241 encapsulated sources (sources). The material is placed into a special capsule that is threaded on one end. These capsules are designed to be screwed inside of an electronic wireline logging sonde. The sources are lowered into the well formations inside the sonde which is tethered on the end of a steel cable. The sonde is equipped with a transmitter and detector section. The Ambe source emits neutron into the rock formations and the detector section measures the decay rate in the rock. This decay rate tells the geologist on the surface what kind of rock has been encountered. Knowledge of rock properties is essential in the exploration of oil.

Am241Be [REDACTED] sources are used with dual spaced neutron tools and in Compensated Thermal Neutron (CTN) Tools. The export of these tools will require license authorization beginning in Dec. 2005. Other Americium tools used for logging and calibration are [REDACTED] sources, [REDACTED], [REDACTED]. If a shipment is consolidated, these smaller sources might also exceed the [REDACTED] limit and will therefore require a license authorization after Dec. 2005

Halliburton's Corporate Radiation Safety Program

Halliburton Energy Services (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 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.

End User Authorization to Receive and Possess the Material

Halliburton Energy Services and subsidiaries will be the end users of these materials in the following countries where HES currently has operations:

United Arab Emirates

Recipient's Technical and Administrative Capability, Resources, and Regulatory Structure

Licensed materials will be stored at approved Halliburton Energy Services facilities only. These facilities are licensed for use and storage as required by local and international law.

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 application letters dated March 21, April 1, and July 18, 1997. The licensee shall maintain records of individuals designated as users.

Halliburton Energy Services NRC materials license no. 42-01068-07 has been in place since 1997. This license authorizes HES to receive, acquire, possess, and transfer byproduct materials as noted in the conditions of the license.

Random compliance audits check the effectiveness of each facilities 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), an Associate Radiation Safety Officer (ARSO), a Region Radiation Safety Manager, or a qualified individual designated by a GRSO).

Audit records are created based upon location and product service line. A copy of the audit report are distributed via e-mail to the Country/NWA Vice President, Global PSL Operations Manager, Global PSL Service Quality Coordinator, Global PSL HRD Manager, Country/NWA HSE Lead, Country/NWA PSL Operations Manager, Local/Facility Radiation Safety Officer, and Assistant/Facility Radiation Safety Officer/Representative for the facility audited.

Concern for Diversion

The items authorized for export under this license will only be used by employees of Halliburton Energy Services and it's subsidiaries.

Halliburton's Corporate Radiation Safety Program provides auditable processes for storage, usage, transportation, monitoring and recordkeeping of all radioactive sources as well as training and internal management reviews 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 items 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 has consistently maintained, monitored, and reported to the Nuclear Regulatory Commission on all licenses related to the control of radioactive materials.

ULTIMATE FOREIGN CONSIGNEE(S):

Dubai HWL AE
Halliburton Worldwide LTD
Al Moosa TR 1 SH Zayed Rd
Dubai, AE
United Arab Emirates

Oilfield Supply Center, LTD
Jebel Ali Free Zone
[REDACTED]
Dubai, AE
United Arab Emirates