

<b>NRC FORM 7</b> (8-2007) 10 CFR 110	<b>U.S. NUCLEAR REGULATORY COMMISSION</b>	APPROVED BY OMB: NO. 3150-0027 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 and FOIA/Privacy Services Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@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.	EXPIRES: 06/30/2009
<h2 style="margin: 0;">APPLICATION FOR NRC EXPORT/IMPORT LICENSE, AMENDMENT, OR RENEWAL</h2> <p style="margin: 0;">(See Instructions on Page 5)</p>			

<b>PART A. FOR NRC USE ONLY</b>	<input type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC	DATE RECEIVED <b>4/23/08</b>
LICENSE NUMBER <b>DBP 107</b>	DOCKET NUMBER _____	ADAMS ACCESSION NUMBER _____

**PART B. TO BE COMPLETED FOR ALL LICENSES, AMENDMENTS, RENEWALS OR NOTIFICATIONS**  
 (If more space is needed to complete any of the items, use Pages 3-4 first, and then attach additional sheets, if necessary.)

<b>1. NAME AND ADDRESS OF APPLICANT/LICENSEE</b>  <b>Halliburton Energy Services</b> <b>2107 City West Blvd., Bldg 2</b> <b>Houston, TX 77042</b>	<b>1a. NAME OF APPLICANT'S CONTACT</b> <b>Cindy Dorris</b>	<b>1b. APPLICANT'S REFERENCE NUMBER</b> <b>HES2529</b>	<b>1c. PHONE NUMBER</b> <b>(713) 839-4566</b>	<b>1d. FAX NUMBER</b> <b>(713) 839-4564</b>
<b>1e. E-MAIL ADDRESS</b> <b>cynthia.dorris@halliburton.com</b>				

**2. TYPE OF ACTION REQUESTED (Check One)**

EXPORT (Parts B, C, E)    
  NOTIFICATION OF EXPORT OF INCIDENTAL RADIOACTIVE MATERIAL (PART C, E)    
  IMPORT (Parts B, D, E)    
  COMBINED EXPORT/IMPORT (Parts B, C, D, E)    
  AMENDMENT/RENEWAL Existing License Number: \_\_\_\_\_

<b>3. CONTRACT NUMBER(S)</b>	<b>4. FIRST SHIPMENT DATE</b> <b>01/18/2008</b>	<b>5. LAST SHIPMENT DATE</b> <b>12/31/2015</b>	<b>6. PROPOSED EXPIRATION DATE</b> <b>12/31/2015</b>
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**PART C. TO BE COMPLETED FOR EXPORT ONLY OR COMBINED 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.)

<b>7. NAME(S) / ADDRESS(ES) OF SUPPLIERS AND/OR OTHER PARTIES TO THE EXPORT</b>	<b>8. NAME(S) / ADDRESS(ES) OF INTERMEDIATE FOREIGN CONSIGNEE(S)</b>	<b>9. NAME(S) / ADDRESS(ES) OF ULTIMATE FOREIGN CONSIGNEE(S)</b>  <b>Eckert &amp; Ziegler Cesio, s.r.o.</b> <b>(EZAG) in the Czech Republic</b>  <b>See page 3</b>
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<b>7a. FUNCTION(S) PERFORMED/SERVICE(S) PROVIDED</b>	<b>8a. INTERMEDIATE USE(S)</b>	<b>9a. ULTIMATE END USE(S)</b>
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<b>10. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES, EQUIPMENT, OR COMPONENTS; FOR NUCLEAR EQUIPMENT INCLUDE TOTAL DOLLAR VALUE OF EQUIPMENT FOR EXPORT</b>	<b>10a. MAX TOTAL VOLUME / ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq)</b>	<b>10b. MAX ENRICHMENT OR WGT %</b>	<b>10c. MAX ISOTOPE WGT (KG)</b>
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**11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME)**

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LICENSE, AMENDMENT, OR RENEWAL (Continued)

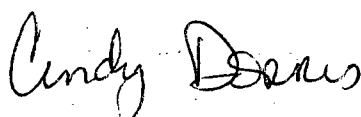
LICENSE NUMBER	DOCKET NUMBER	ADAMS/AGGESSION NUMBER	<input type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC
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**PART D. TO BE COMPLETED FOR IMPORT ONLY, OR COMBINED LICENSES, AMENDMENTS, OR RENEWALS**

(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	13. NAME(S) / ADDRESS(ES) OF INTERMEDIATE CONSIGNEE(S)	14. NAME(S) / ADDRESS(ES) OF ULTIMATE 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  <b>See Attachment 1 Category 2 quantities of Am-241 and Am-241/Be for Neutron source with Americium-241/Be for 15 Curie (555 Gbq)</b>	15a. MAX TOTAL VOLUME / ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq)	15b. MAX ENRICHMENT OR WGT %	15c. MAX ISOTOPE WGT (KG)
16. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME)			

**PART E. TO BE COMPLETED FOR ALL LICENSES, AMENDMENTS, OR RENEWALS**

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  <b>Cindy Dorris International Trade Compliance</b>	18b. SIGNATURE - AUTHORIZED OFFICIAL  	18c. DATE  <b>03/17/2008</b>

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

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ADDITIONAL INFORMATION (Reference applicable block numbers from page 1 and/or page 2 for each entry)

**For license to export and import quantity of fifty (50) sources with the nominal activity of 15 Curie (555 Gbq) from our vendor**

**Eckert & Ziegler Cesio, s.r.o. (EZAG)  
Radiova 1,  
102 27 Prague 10  
Czech Republic**

4/4/08  
per phone  
conversations w/  
Cindy Dorris  
(50) sources x  
15 curie =  
750 curies  
total

# HALLIBURTON

International Trade Compliance Group  
2101 CityWest Blvd., Bldg. 2, 4th Flr • Houston, Tx 77042  
Direct: 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 17, 2007

3/19/08

cat. 2  
CAP254-1  
CAP254-1  
CAP254-1  
CAP254-2

**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 and import Category 2 Americium-241 and Americium-241/Be for Neutron source with Americium-241/Be for quantity of (50) with the nominal activity of 15 Curie (555 Gbq) from our vendor **Eckert & Ziegler Cesio s.r.o.(EZAG)** in the Czech Republic. These materials will be used to calibrate downhole well logging equipment for the completion of an oil or gas well prior to the 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's check in the amount of \$4600.00 (four thousand and six hundred dollars) as the application fee this license.

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.

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 attachment and a copy of current License

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

Sincerely,



Cindy Dorris  
Halliburton Energy Services  
International Trade Compliance  
Ph: 713-839-4566  
Email: [cynthia.dorris@halliburton.com](mailto:cynthia.dorris@halliburton.com)

Enc: NRC Form 7  
Halliburton Energy Services Attachment 1  
Halliburton Check for Application  
Support Documents  
Copy of Current License

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**Halliburton Energy Services (HES)  
Application Reference Number HES2529**

**Application Information:**

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.

**License Application and Request:**

The purpose of this license application is to request specific authorization to import and export fifty (50) sources with the nominal activity of 15 Curie (555 Gbq) from Halliburton's vendor Eckert & Ziegler Cesio s.r.o. (EZAG) in the Czech Republic to our Halliburton home base in the United States. 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 in the Safety and Security of Radioactive Sources.

**Description of Equipment:**

Neutron Tools use Ambe241 encapsulated source (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 accurately measures the porosity, fluid type and lithology information for real-time decision making and wireline replacement applications. Knowledge of rock properties is essential in the exploration of oil.

Description
15 Curie Am241Be Logging Source with transport shield used in Compensated Thermal Neutron (CTN) Tool.

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

~~Licensed materials will be stored at approved *Halliburton Energy Services* facilities. This facility is certificated.~~

**Concern for Diversion:**

Halliburton Energy Services has acknowledged the importance of and supports safe operations, transportation, and secure storage of RA Sources

All sources are labeled with the name, strength, and source number. Radiation leak tests are performed monthly. Source warehouse is furnished with radioactive checking devices..