

**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 E6), 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.

1. APPLICANT'S USE	a. DATE OF APPLICATION 3-07-06	b. APPLICANT'S REFERENCE	2. NRC USE	a. DOCKET NUMBER	b. LICENSE NUMBER XB00043
--------------------	-----------------------------------	--------------------------	------------	------------------	------------------------------

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		
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) 839-4566	g. FAX (713) 839-4564	h. E-MAIL cynthia.dorris@h	c. CITY	d. STATE	e. ZIP CODE:

5. FIRST SHIPMENT SCHEDULED 03/01/2006	6. FINAL SHIPMENT SCHEDULED 12/31/2008	7. APPLICANT'S CONTRACTUAL DELIVERY DATE	8. PROPOSED LICENSE EXPIRATION DATE 12/31/2008	9. CONTRACT NO.
---	---	--	---	-----------------

10. ULTIMATE FOREIGN CONSIGNEE		11. ULTIMATE END USE (Include plant or facility name)	
a. NAME China National Logging Company		China National Logging Company	
b. STREET ADDRESS (Facility Site) No.3 Jingyuan Rd, Shijingshan District,			
c. CITY Beijing 100043	d. COUNTRY China	11a. DATE REQUIRED 03/01/2006	

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

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

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
	Am241 Be Logging Source used with the dual spaced Neutron Tool				
	Cs-137 Source				
	Thorium 232 Calibration Blankets				

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 Attachments - 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 <i>Cindy Dorris</i>	b. TITLE Administration, International Trade Compliance
-------------------------	-------------------------------------	--

RECEIVED
 2006 APR -11 AM 9:50

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 7, 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 specific license to export and sell [REDACTED] Am241Be Logging Source, [REDACTED] Cs-137 Source and [REDACTED] Thorium 232 Calibration Blankets to *China National Logging Company*. These materials will be used to calibrate down hole well logging equipment, for the completion of an oil or gas well prior to the production, or to enhance production of existing wells in China. 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 \$1600.00 (Sixteen hundred dollars) as the application fee for 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 and re-export are not inimical to the common defense and security of the United States and the proposed exports and re-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.

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

Halliburton

Enc: NRC Form 7
Halliburton Energy Services Attachment 1
Halliburton Check for Application

**Halliburton Energy Services (HES)
Application Reference Number HES4007**

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 sell and export [REDACTED] Am241Be Logging Source with dual spaced Neutron Tool, [REDACTED] [REDACTED] Cs-137 Source and [REDACTED] Thorium 232 Calibration Blankets to be used by *China National Logging Company (CNLC)* in China. 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:

These 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 measures the decay rate in the rock. The 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.

Description	Sold Value (rounded)
[REDACTED] Am241Be Logging Source used with dual spaced Neutron Tool.	[REDACTED]
[REDACTED] Am241Be Logging Source used with dual spaced Neutron Tool	[REDACTED]
Thorium 232 Calibration Blankets	[REDACTED]

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

Licensed materials will be stored at approved *China National Logging Company (CNCL)* facilities. These facilities are Certificated by the Work Permit according to Government Ordinances of Radioactive Isotopes and Radioactive Safety Regulations. *China National Logging Company's* RA Storage Control process (see attached).

Concern for Diversion:

As noted in *China National Logging Company's* attached letter to Halliburton, *China National* has acknowledged the importance of and supports safe operations, transportation, and secure storage of RA Sources. *China National* states they have no intention of using the RA Sources outside China nor will they release or transfer to other parties.

All sources are labeled with the name, strength, and source number. Radiation leak tests are performed yearly. Badges are worn by all RA operators, Radiological Supervisors and keyholders.

Radiological Supervisors are responsible for checking all sources on a regular maintenance schedule and for maintaining records. Radiological Supervisors and Keyholders are also responsible for frequent storage facility inspections.

Halliburton has been doing business with *China National Logging Company* since 2005.

Intermediate and Ultimate Consignees:

NRC Required Info for CNLC	
Contract No.:	CNLC-P2005-310
Purchasers Name:	China National Logging Co.
Purchasers Physical Address:	No.3 Jingyuan Rd, Shijingshan District, Beijing 100043 China
Ultimate Consignee Name:	China National Logging Co.
Consignee Physical Address:	No.3 Jingyuan Rd, Shijingshan District, Beijing 100043 China
End Users Name:	China National Logging Co.
End Users Physical Address:	No.3 Jingyuan Rd, Shijingshan District, Beijing 100043 China
Storage Facility Physical Address:	Production Plant #4, Huabei Oilfield, Wanzhuang Town, Langfang City, Hebei Province, China
A schematic of the storage facility:	Attached
Storage and security processes in place for the control of the RA material:	Attached