

NRC FORM 7  
(5-2003)  
10 CFR 110

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0027

EXPIRES: 05/31/2006

# 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](mailto:infocollects@nrc.gov), and to the Desk Officer, Office of Information and Regulatory Affairs, NE08-10202, (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 XRP0039	
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		c. CITY		d. STATE		e. ZIP CODE	
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 02/01/2006		6. FINAL SHIPMENT SCHEDULED 12/31/2006		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) SinoPec North Petroleum Bureau Logging Company					
a. NAME Beijing Ru & Rong Co.						11a. DATE REQUIRED					
b. STREET ADDRESS (Facility Site) Xingyuan International APT. D-1407, No. 222 Wangjing Xiyuan						13. INTERMEDIATE END USE					
c. CITY Chaoyang District, Beijing 100102						13a. DATE REQUIRED					
d. COUNTRY China						15. INTERMEDIATE END USE					
12. INTERMEDIATE FOREIGN CONSIGNEE						15a. DATE REQUIRED					
a. NAME						20. MAX. ISOTOPE WEIGHT					
b. STREET ADDRESS (Facility Site)						21. CNMT					
c. CITY						22. FOREIGN OBLIGATIONS BY COUNTRY AND PERCENTAGE (Use separate sheet if necessary)					
d. COUNTRY						23. ADDITIONAL INFORMATION ON CONSIGNEES, END USES, AND PRODUCT DESCRIPTION (Use separate sheet if necessary)					
14. INTERMEDIATE FOREIGN CONSIGNEE						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.					
a. NAME						25. AUTHORIZED OFFICIAL					
b. STREET ADDRESS (Facility Site)						a. SIGNATURE Cynthia Dorris					
c. CITY						b. TITLE Administration, International Trade Compliance					
d. COUNTRY						PRINTED ON RECYCLED PAPER					
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	
		Curie Am241Be Logging Source used with the dual spaced Neutron Tool Curie Cs-137 Source									

RECEIVED OIP

2006 MAR 16 PM 3:50

# 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 one [REDACTED] Curie Am241Be Logging Source and one [REDACTED] Curie Cs-137 Source to *SinoPec North Petroleum Bureau 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 HES4006**

**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 one  Curie Am241Be Logging Source with dual spaced Neutron Tool, one  Curie Cs-137 Source to be used by *SinoPec North Petroleum Logging Company* 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.

## Attachment 1 – Support Documents

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)
Curie Am241Be Logging Source used with dual spaced Neutron Tool.	
Curie Am241Be Logging Source used with dual spaced Neutron Tool	

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

Licensed materials will be stored at approved *SinoPec North Petroleum Bureau Logging Company* facilities. These facilities are Certificated by the XinXing Health Bureau. *SinoPec's* RA Storage Control process (see attached) is made in accordance with the Safety Ordinance for Radioactive Isotopes and Installations; promulgated by the State Council to ensure RA materials are safely stored.

### Concern for Diversion:

As noted in SinoPec's attached letter to Halliburton, SinoPec has acknowledged the importance of and supports safe operations, transportation, and secure storage of RA Sources. SinoPec states they have no interition 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 and storekeepers.

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

Halliburton has been doing business with *SinoPec North Petroleum Bureau Logging Company* since 2003.

**Intermediate and Ultimate Consignees:**

<b>NRC Required Info for Sinopec North</b>	
<b>Contract No.:</b>	QRN2005283
<b>Purchasers Name:</b>	ZPOWER COMPANY
<b>Purchasers Physical Address:</b>	62 Harbor View Dr., Sugar Land, Tx. 77479
<b>Ultimate Consignee Name:</b>	Beijing Ru & Rong Co.
<b>Consignee Physical Address:</b>	Xingyuan International APT. D-1407, No. 222 Wangjing Xiyuan, Chaoyang District, Beijing, 100102, China
<b>End Users Name:</b>	Sinopec North Petroleum Bureau Looing Company
<b>End Users Physical Address:</b>	Hongmen, Xinxiang City, 453700, Henan Province, P.R. China
<b>Storage Facility Physical Address:</b>	Xindi Village, Xin'an Town, Yanjin County, Xinxiang City, 453700, Henan Province, P.R. China
<b>A schematic of the storage facility:</b>	Attached
<b>Storage and security processes in place for the control of the RA material:</b>	Attached
<b>RA Operation Permit from Authority:</b>	Attached