

<b>NRC FORM 7</b> (8-2011) 10 CFR 110		<b>U.S. NUCLEAR REGULATORY COMMISSION</b>  <b>APPROVED BY OMB: NO. 3150-0027</b> 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.							
<b>APPLICATION FOR NRC EXPORT OR IMPORT LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S)</b> (See Instructions on Pages 4 and 5)									
<b>PART A. FOR NRC USE ONLY</b>		<input checked="" type="checkbox"/> <b>PUBLIC</b> <b>OR</b> <input type="checkbox"/> <b>NON-PUBLIC</b>							
LICENSE NUMBER 8XB16200		DOCKET NUMBER 11006039							
		DATE RECEIVED 8-9-12							
		ADAMS ACCESSION NUMBER							
<b>PART B. TO BE COMPLETED FOR ALL LICENSES, AMENDMENTS, RENEWALS, OR CONSENT REQUESTS</b> (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 Inc Attn: Bertha Rodriguez 2107 City West Blvd. Bldg- 4 610A		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">           1a. NAME OF APPLICANT'S CONTACT            Bertha Rodriguez         </td> <td style="width: 50%;">           1b. APPLICANT'S REFERENCE NUMBER            HES3063         </td> </tr> <tr> <td>           1c. PHONE NUMBER            (713) 839-4503         </td> <td>           1d. FAX NUMBER            (713) 849-4564         </td> </tr> <tr> <td colspan="2">           1e. E-MAIL ADDRESS            Bertha.Rodriguez@Halliburton.com         </td> </tr> </table>		1a. NAME OF APPLICANT'S CONTACT Bertha Rodriguez	1b. APPLICANT'S REFERENCE NUMBER HES3063	1c. PHONE NUMBER (713) 839-4503	1d. FAX NUMBER (713) 849-4564	1e. E-MAIL ADDRESS Bertha.Rodriguez@Halliburton.com	
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1e. E-MAIL ADDRESS Bertha.Rodriguez@Halliburton.com									
2. TYPE OF ACTION REQUESTED (Check One)  <input checked="" type="checkbox"/> <b>EXPORT</b> (Parts B, C, E) <input type="checkbox"/> <b>IMPORT</b> (Parts B, D, E) <input type="checkbox"/> <b>AMENDMENT/RENEWAL</b> Current License Number: _____ <input type="checkbox"/> <b>CONSENT REQUEST</b> (Parts B, C) Current License Number: _____									
3. CONTRACT NUMBER(S) CLS-11239 & 11240		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">           4. FIRST SHIPMENT DATE            August 13, 2012         </td> <td style="width: 50%;">           5. LAST SHIPMENT DATE            December 13, 2014         </td> </tr> <tr> <td colspan="2">           6. PROPOSED EXPIRATION DATE            December 31, 2014         </td> </tr> </table>		4. FIRST SHIPMENT DATE August 13, 2012	5. LAST SHIPMENT DATE December 13, 2014	6. PROPOSED EXPIRATION DATE December 31, 2014			
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<b>PART C. TO BE COMPLETED FOR EXPORT LICENSES, AMENDMENTS, RENEWALS OR CONSENTS</b> (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		8. NAME(S) / ADDRESS(ES) OF INTERMEDIATE FOREIGN CONSIGNEE(S)							
		9. NAME(S) / ADDRESS(ES) OF ULTIMATE FOREIGN CONSIGNEE(S)  China National Logging Corporation (CNLC) No. 101 Anli Road Chaoyang District 100101 Beijing, China							
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		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">           10a. MAX TOTAL VOLUME / ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq)         </td> <td style="width: 50%;">           10b. MAX ENRICHMENT OR WGT %         </td> </tr> <tr> <td colspan="2">           10c. MAX ISOTOPE WGT (KG)         </td> </tr> </table>		10a. MAX TOTAL VOLUME / ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq)	10b. MAX ENRICHMENT OR WGT %	10c. MAX ISOTOPE WGT (KG)			
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10c. MAX ISOTOPE WGT (KG)									
11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME)									

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(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 <b>8XB16200</b>	DOCKET NUMBER <b>11006039</b>	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	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 15 Curie AM241/BE Logging Services 1.78 Curie Cs137 Sources 50 Nci Am241 Logging Services Th232 (LT 5uCi) Logging Services 2.5 u Ci Th232 Logging Services 500nCi Cs-137 Sources 1600 Nci Cs-137 Sources 800 Nci Cs-137 Sources	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, 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
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**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 Bertha Rodriguez, Supervisor Int'l Trade Compliance	18b. SIGNATURE - AUTHORIZED OFFICIAL 	18c. DATE 8/8/2012
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JUL 09 2012

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 <b>PXB16200</b>	DOCKET NUMBER <b>11006039</b>	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)

## License Application and Request:

The purpose of this application is to request specific authorization to sell and export ten(10) each 15 Curie Am241/BE sources, nine (9) each 1.78 Curie Cs 137, nine (9) each 50 Nci Am241 sources, eleven (11) each Th232(LT 5uCi) sources, eleven (11) each 2.5 uCi Th232 sources, eleven (11) 500nCi Cs-137 sources, six (6) 1600 Nci Cs-137 sources, and six (6) 800 Nci Cs137 sources to be used by the End User: China National Logging Corporation (CNLC) in China, (Formerly CNPC Greatwall Drilling Company). The following information is provided in support of this application and to ensure the NRC, that Halliburton Energy Services Inc., 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.

The following is enclosed:

Ultimate Consignee's information (name, addresses and storage facility address)

End-User Statement

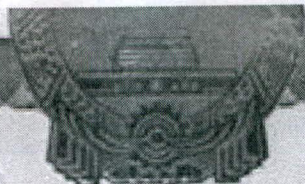
Signed Contract(s)

Schematic of the storage facility

Work Permit/Operations permit from convening authority

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# 辐射安全许可证

根据《中华人民共和国放射性污染防治法》和《放射性同位素与射线装置安全和防护条例》等法律法规的规定，经审查准予在许可种类和范围内从事活动。

单位名称：天津保利佐川国际贸易有限公司

地址：天津港保税区东方大道 48 号

法定代表人：乌海志郎

证书编号：津环辐证[00003]号

种类和范围：使用Ⅱ类、Ⅲ类、Ⅳ类、Ⅴ类放射源

有效期至：2012年 3月 8日

发证机关：天津市环境保护局

发证日期：2007年 3月 9日





# HALLIBURTON

International Trade Compliance Group  
2101 CityWest Blvd., Bldg. 2, 4th Flr • Houston, Tx 77042  
Direct: 713-839-2000 • Fax: 713-839-4564

August 8, 2012

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

**RE: Emergency Request for NRC license for Radioactive Logging Sources**

Deputy Director,

Halliburton Energy Services Inc. is requesting an emergency expedited NRC license application approval for the enclosed specific license application, to export and sell logging sources to China National Logging Corporation.

The reason for this emergency expedited request is that we had a contractual obligation to ship logging tools at the end of July that require the sources requested in this application. The employee that normally applies for RA licenses has been out of the office due to a family emergency; so we were unaware that this application had not been submitted. Our client urgently needs this logging equipment because they already have personnel ready to perform logging services, and stand to lose revenue daily. Therefore any consideration in expediting the approval of this application would be greatly appreciated.

We are requesting license approval to export and sell ten (10) each 15 Curie Am241/BE sources, nine (9) each 1.78 Curie Cs 137, nine (9) each 50 Nci Am241 sources, eleven (11) each Th232(LT 5uCi) sources, eleven (11) each 2.5 uCi Th232 sources, eleven (11) 500nCi Cs-137 sources, six (6) 1600 NCI Cs-137 sources, and six (6) 800 NCI Cs137 sources to be used by the End User: China National Logging Corporation (CNLC) in China.

These materials will be used to calibrate downhole well logging equipment for the completion of an oil or gas well prior to production, or to enhance production of existing wells in China. These sources are subject to the export licensing jurisdiction of the U.S. Nuclear Regulatory Commission. Enclosed please find Halliburton's check no. 6952762, in the amount of \$ 5,500.00 (Five thousand five hundred dollars) for the application fee of this license.

Halliburton Energy Services Inc. in consideration of Title 10, Part 110.42 (c.) of the Code of Federal Regulations acknowledges that the NRC Controlled items proposed for the 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.

Please do not hesitate to contact me if you have any questions, at 713-839-4503.

Sincerely,



Bertha Rodriguez  
Supervisor, Halliburton Energy Services Inc.  
[Rodriguez@Halliburton.com](mailto:Rodriguez@Halliburton.com)

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**Halliburton Energy Services Inc. (HES)**

**Application Reference Number HES3063**

**Application Information:**

Halliburton is one of the world's largest providers of products and services to the oil and gas industry. Halliburton Energy Services Inc. (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:**

This purpose of this license application is to request specific authorization to sell and export of We are requesting license approval to export and sell ten (10) each 15 Curie Am241/BE sources, nine (9) each 1.78 Curie Cs 137, nine (9) each 50 Nci Am241 sources, eleven (11) each Th232(LT 5uCi) sources, eleven (11) each 2.5 uCi Th232 sources, eleven (11) 500nCi Cs-137 sources, six (6) 1600 NCi Cs-137 sources, and six (6) 800 NCi Cs137 sources to be used by the End User: China National Logging Corporation (CNLC) in China.

**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 sources 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.

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## Sources and Tools Used in Logging

The following tools use the sources requested in this application.

Description	Sold Value
Compensated Spectral Natural Gamma Ray Th232 Sources LT_5_uCi & 2.5 Uci)	
Hostile Spectral Density Logging (HSDL-A) Cs-137 – Cesium Sources Th232 (LT_5_uCi & 2.5 Uci) Sources	
Spectral Density Logging Tool (SDLT-IA) Am241/BE – Sources Cs-137 – Sources	

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

Licensed materials will be stored at approved Tianjin Poly Sagawa Trading Co Facilities. These facilities are certified by the Operation Health Certificate in accordance with the Safety Ordinance for Radioactive Isotopes and Installation promulgate by the State Council. See attached permit.

### Concern for Diversion:

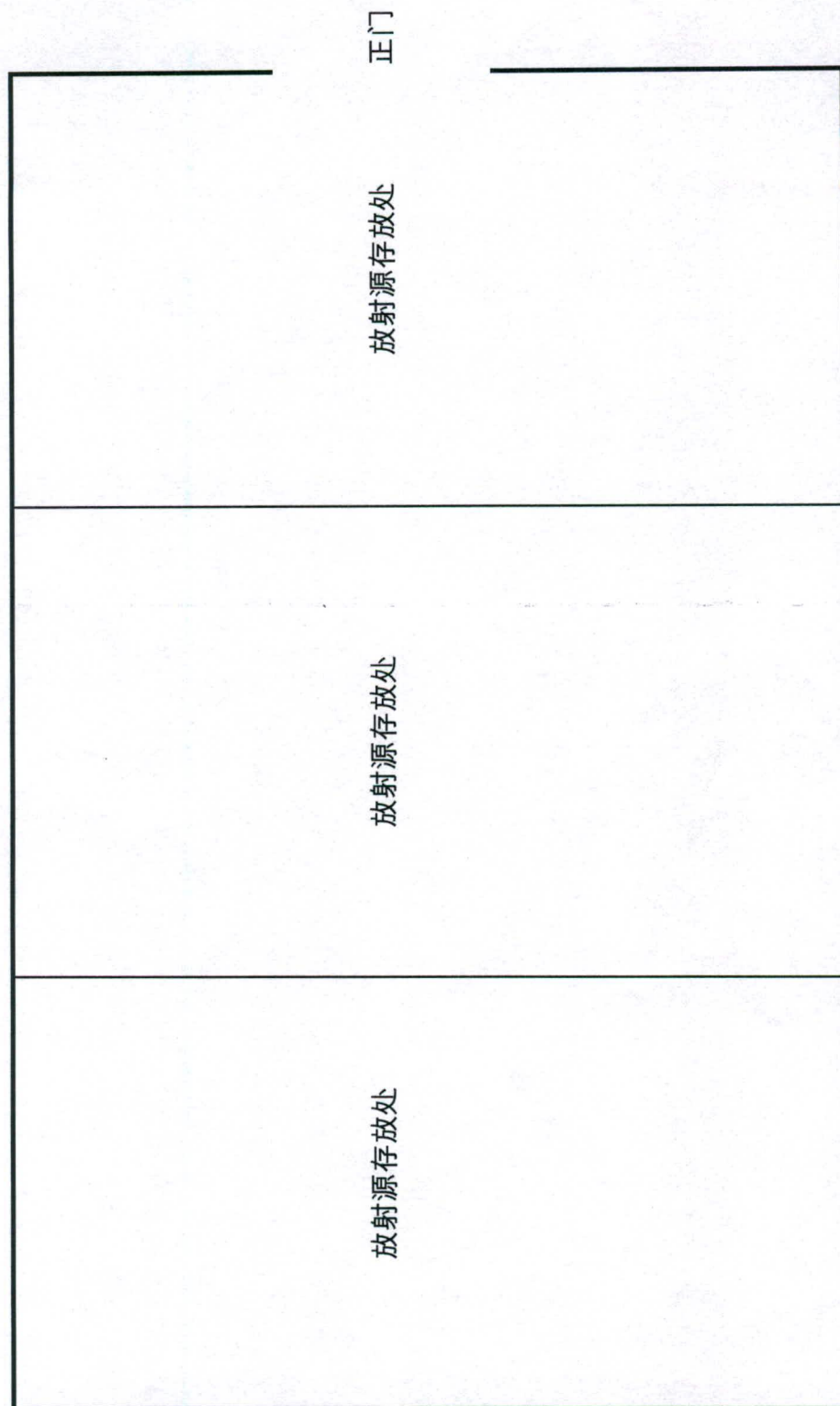
As noted in the end-use certificate, China National Logging Corporation (CNLC) has acknowledged the importance of and supports safe operations, transportation, and secure storage of RA Sources. China National Logging Corporation states they have no intention of using the RA sources outside of China nor will they release or transfer to other parties.

CNLC supervisors are responsible for checking all sources on a regular maintenance schedule and for maintaining records. Tianjin Poly Sagawa Trading guards and warehouse attendants are also responsible for frequent storage facility inspections.

Halliburton has been doing business with China National Logging Corporation for many years.

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天津保利佐川国际贸易有限公司放射源仓库平面图

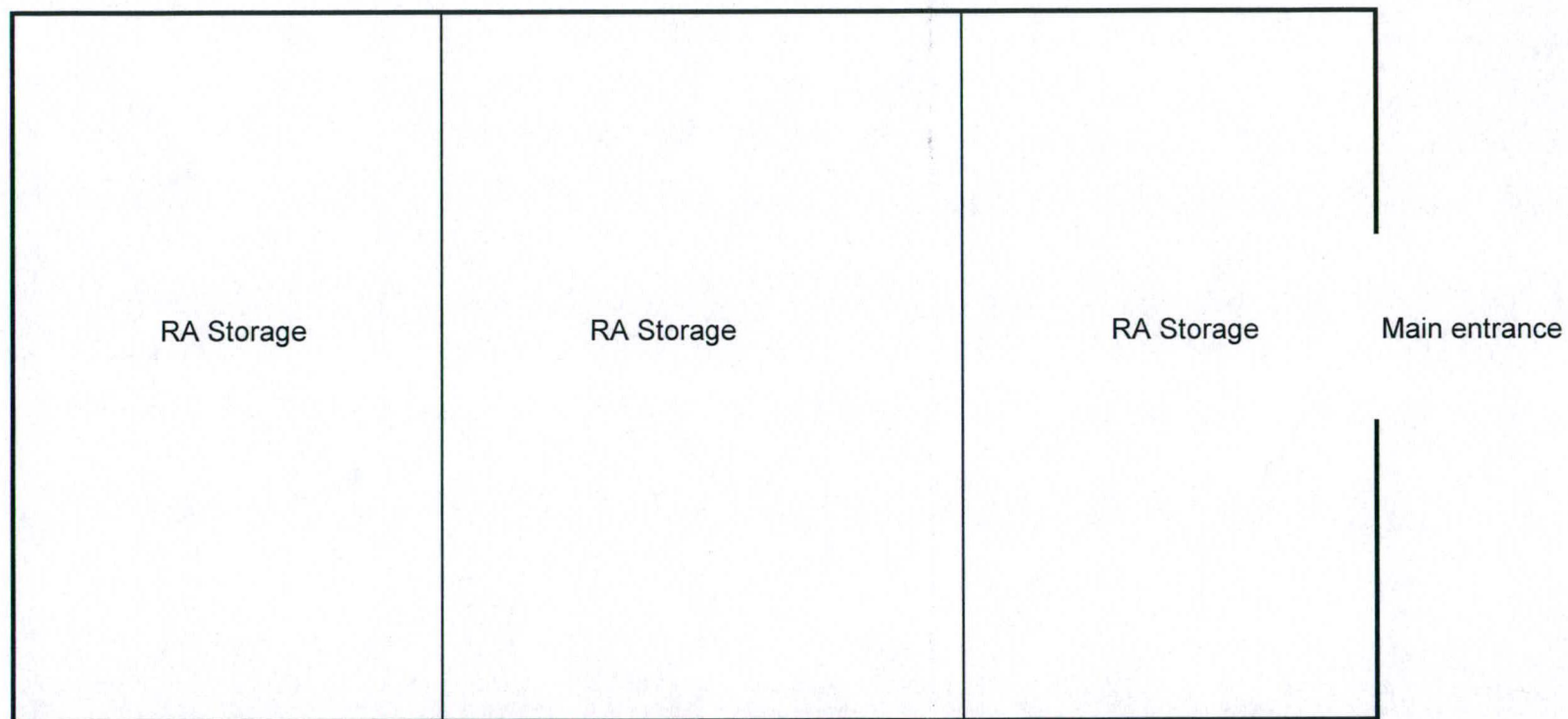


天津保利佐川国际贸易有限公司

6th AUG 09 2012



Schematic of RA source Storage  
TIANJIN POLY SAGAWA TRADING CO.,LTD



TIANJIN POLY SAGAWA TRADING CO.,LTD

*See page*  
AUG 09 2012



## Radiation Safety Permit

In compliance with Law of the People's Republic of China on Prevention and Control of Radioactive Pollution and Regulations on Safety and Protection concerning Radioisotope and Ray Installation, the below company is approved to be involved in the activity within permitted type and range:

Company name: TIANJIN POLY SAGAWA TRADING CO., LTD

Address: 48# THE EASTERN ROAD FTZ TIANJIN P.R. CHINA

Legal Representative: Wu Hai Zhi Lang

Type and Range: Usage of Category 2,3,4,5 radiation source

License No. 津环辐证[00003]

Valid till: March 8th 2017

Issued by: Tianjin Environmental Protection Bureau

Issued on: March 9th 2012

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# Radiation Safety Permit

In compliance with Law of the People's Republic of China on Prevention and Control of Radioactive Pollution and Regulations on Safety and Protection concerning Radioisotope and Ray Installation, the below company is approved to be involved in the activity within permitted type and range:

Company name: China National Logging Corporation

Address: No. 12, Chuangxin Road, Changping Town, Changping District, Beijing

Legal Representative: Zhang Fengshan

Type and Range: Usage of Category 3 radiation source, Category 2 Ray Installation; sales and usage of Category 2, 4, 5 radiation source; sales of unsealed radioactive material

License No. 京环辐证[00005]

Valid till: May 30th 2015

Issued by: Beijing Environmental Protection Bureau

Issued on: May 31st 2010

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