

**APPLICATION FOR MATERIALS LICENSE**

Estimated burden per response to comply with this mandatory collection request: 4.3 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Send comments regarding burden estimate to the Records and FOIA/Privacy Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to [infocollects.resource@nrc.gov](mailto:infocollects.resource@nrc.gov), and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0120), 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.

**INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.**

**APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:**

OFFICE OF FEDERAL & STATE MATERIALS AND ENVIRONMENTAL MANAGEMENT PROGRAMS  
DIVISION OF MATERIALS SAFETY AND STATE AGREEMENTS  
U.S. NUCLEAR REGULATORY COMMISSION  
WASHINGTON, DC 20555-0001

**ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:**

**IF YOU ARE LOCATED IN:**

ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLAND, SOUTH CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:

LICENSING ASSISTANCE TEAM  
DIVISION OF NUCLEAR MATERIALS SAFETY  
U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PA 19406-1415

**IF YOU ARE LOCATED IN:**

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:

MATERIALS LICENSING BRANCH  
U.S. NUCLEAR REGULATORY COMMISSION, REGION III  
2443 WARRENVILLE ROAD, SUITE 210  
LISLE, IL 60532-4352

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MISSISSIPPI, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR WYOMING, SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING BRANCH  
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
612 E. LAMAR BOULEVARD, SUITE 400  
ARLINGTON, TX 76011-4125

**PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTIONS.**

1. THIS IS AN APPLICATION FOR (Check appropriate item)

A. NEW LICENSE

B. AMENDMENT TO LICENSE NUMBER

C. RENEWAL OF LICENSE NUMBER **24-03060-01**

2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)

**Ashland Hercules Water Technologies**  
**11083 Highway D**  
**Louisiana, MO 63353**

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

**11083 Highway D**  
**Louisiana, MO 63353**

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

**Minh V Hoac**

TELEPHONE NUMBER

**(573) 754-6211**

SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

5. RADIOACTIVE MATERIAL  
a. Element and mass number; b. chemical and/or physical form; and c. maximum amount which will be possessed at any one time

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS

9. FACILITIES AND EQUIPMENT

10. RADIATION SAFETY PROGRAM

11. WASTE MANAGEMENT

12. LICENSE FEES (See 10 CFR 170 and Section 170.31)

FEE CATEGORY **3P** AMOUNT ENCLOSED **\$ 1,400.00**

13. CERTIFICATION (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 39, AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 62 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE

**Walter C. Crenshaw, Plant Manager**

SIGNATURE



DATE

**06/15/2010**

**FOR NRC USE ONLY**

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	

**RECEIVED JUN 18 2010**

**Item 5 - Radioactive Material**

Manufacturer	Sealed Source* Model No.	Source Holder* Model No.	Serial No.	Radioactive Material Type	Radioactive Material Quantity (mCi)	Comment
Ohmart	97294	SH-F1A	6075GK	Cs137	15	Will not exceed the max. activity
Ohmart	A-2102	SHLG-1	60574	Cs137	50	Will not exceed the max. activity
Ohmart	A-2102	SHLG-1	67039	Cs137	50	Will not exceed the max. activity
Ohmart	A-2102	SHLG-1	67040	Cs137	50	Will not exceed the max. activity
Ohmart	A-2102	SHRM-PA	61041	Cs137	100	Will not exceed the max. activity
Ohmart	A-2102	SHRM-PA	61076	Cs137	10	Will not exceed the max. activity
Ohmart	A-2102	SHRM-PA	61972	Cs137	100	Will not exceed the max. activity
Ohmart	A-2102	SHRM-PA	61410	Cs137	10	Will not exceed the max. activity
Ohmart	A-2102	SHRM-PA	61971	Cs137	100	Will not exceed the max. activity
Ohmart	A-2102	SHRM-PA	61409	Cs137	10	Will not exceed the max. activity
Ohmart	A-2102	SHLG-1	6114CN	Cs 137	20	Will not exceed the max. activity
Ohmart	A-2102	SHLG-1	6224CN	Cs 137	20	Will not exceed the max. activity
K-Ray	7700-50	7062B	S92K2703	Cs137	50	Will not exceed the max. activity

#### **Item 6: Purpose(s) for Which Licensed Material Will Be Used**

- For use in measuring systems fixed gauges.

#### **Item 7: Individual(s) Responsible for Radiation Safety Program and Their Training Experience**

- Minh Hoac, RSO; Tony McCallister, Alternate RSO
- Before obtaining licensed materials, the proposed RSO will have successfully completed the training described in Criteria in the section entitled 'Radiation Safety Officer' in NUREG-1556, Vol. 4, 'Consolidated Guidance about Materials Licenses: Program-Specific Guidance about Fixed Gauges Licenses,' dated October 1998"; and
- Before being named as the RSO, future RSOs will have successfully completed the training described in Criteria in the section entitled 'Radiation Safety Officer' in NUREG-1556, Vol. 4, 'Consolidated Guidance about Materials Licenses: Program-Specific Guidance about Fixed Gauges Licenses,' dated October 1998. Within 30 days of naming a new RSO, we will submit the new RSO's name to NRC to include in our license."
- **Authorized Users:** Before using licensed materials, authorized users will have successfully completed one of the training courses described in Criteria in the section entitled 'Authorized Users' in NUREG-1556, Vol. 4, 'Consolidated Guidance about Materials Licenses: Program-Specific Guidance about Fixed Gauge Licenses,' dated October 1998.

#### **Item 8: Training for Individuals Working in or Frequenting Restricted Areas**

- The applicant's training program, for individuals who in the course of employment are likely to receive occupational doses of radiation in excess of 1 mSv (100 mrem) in a year (occupationally exposed workers) and ancillary personnel, will be examined during inspections, but should not be submitted in the license application.

#### **Item 9: Facilities and Equipment**

- Confirm that the fixed gauge is secured to prevent unauthorized removal or access; and submit specific information demonstrating that the proposed conditions will not impact the safety or integrity of the source or device. Address any instances where the proposed conditions exceed any conditions listed in the SSD Registration Certificate.

#### **Item 10: Radiation Safety Program**

- **Audit Program:** The applicant's program for reviewing the content and implementation of its radiation protection program will be examined during inspections, and should not be submitted in the license application.

- **Instruments:** We will use survey instruments that meet the Criteria in the section entitled 'Radiation Safety Program - Instruments' in NUREG-1556, Vol. 4, 'Consolidated Guidance about Materials Licenses: Program-Specific Guidance about Fixed Gauge Licenses,' dated October 1998.
  - "Each survey meter will be calibrated by the manufacturer or other person authorized by the NRC or an Agreement State to perform survey meter calibrations
- **Material Receipt and Accountability:** Physical inventories will be conducted at least every 6 months or at other intervals approved by the NRC, to account for all sealed sources and devices received and possessed under the license.
- **Occupational Dose:** We will perform a prospective evaluation demonstrating that unmonitored individuals are not likely to receive, in one year, a radiation dose in excess of 10% of the allowable limits in 10 CFR Part 20 or we will provide dosimetry that meets the Criteria in the section entitled 'Radiation Safety Program - Occupational Dosimetry' in NUREG-1556, Vol. 4, 'Consolidated Guidance about Materials Licenses: Program-Specific Guidance about Fixed Gauge Licenses,' dated October 1998.
- **Public Dose:** No response is required from the applicant during the licensing phase.
- **Operating and Emergency Procedures:** Operating and emergency procedures will be developed, implemented, maintained, and distributed, and will meet the Criteria in the section entitled 'Radiation Safety Program - Operating and Emergency Procedures' in NUREG-1556, Vol. 4, 'Consolidated Guidance about Materials Licenses: Program-Specific Guidance about Fixed Gauge Licenses,' dated October 1998.
- **Leak Tests:** Leak tests will be performed at intervals approved by the NRC or an Agreement State and specified in the Sealed Source and Device Registration Certificate. Leak tests will be performed by an organization authorized by NRC or an Agreement State to provide leak testing services to other licensees or using a leak test kit supplied by an organization authorized by NRC or an Agreement State to provide leak test kits to other licensees and according to the kit supplier's instructions. Records of leak test results will be maintained.
- **Maintenance:**
  1. We will implement and maintain procedures for routine maintenance of our gauges according to each manufacturer's or distributors written recommendations and instructions.
  2. The gauge manufacturer, distributor or other person authorized by NRC or an Agreement State will perform non-routine operations such as installation, initial radiation survey, repair, and maintenance of components related to the radiological safety of the gauge, gauge relocation, replacement, and disposal of sealed sources, alignment, or removal of a gauge from service.
- **Fixed Gages Used at Temporary Job Site:** We will not use fixed gauges at temporary job sites.
- **Minimization of Contamination:** The applicant does not need to provide a response to this item under the following condition. NRC will consider that the

above criteria have been met if the applicant's responses meet the criteria for the following sections: Radioactive Material - Sealed Sources and Devices, Facilities and Equipment, Radiation Safety Program - Operating and Emergency Procedures, Radiation Safety Program - Leak Testing, and Waste Management - Gauge Transfer and Disposal.

**Item 11: Waste Management**


- The applicant does not need to provide a response to this item during the licensing process. However, the licensee should establish and include waste disposal procedures in its radiation safety program.



**AUTHORIZATION FOR PAYMENT  
BY CREDIT CARD**

Estimated burden per response to comply with this voluntary collection request: 5 minutes. Requested information will allow respondents to transfer funds electronically. Send comments regarding burden estimate to the Records and FOIA/Privacy Services Branch (T-5 F53), 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, (3150-0190), 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.

**The NRC is currently accepting credit card payment of fees and other debts. If you wish to pay by credit card, complete the authorization below. If you have any questions, contact NRC's collection service provider, Department of Interior/National Business Center at 303-969-5880.**

NAME OF CARDHOLDER <b>Minh V Hoac</b>		ACCOUNT NUMBER <b>5567090001609812</b>	CARD EXPIRATION DATE <b>06/2012</b>
ADDRESS <b>11083 Highway D Louisiana, MO 63353</b>		CARDS ACCEPTED (Check card you are using) <input type="checkbox"/> VISA <input checked="" type="checkbox"/> MASTERCARD <input type="checkbox"/> NOVUS (DISCOVER) <input type="checkbox"/> AMERICAN EXPRESS	
TELEPHONE <b>(573) 754-6211</b>	LICENSE NUMBER <b>24-03060-01</b>	SIGNATURE OF CARDHOLDER 	
INVOICE NUMBER OR DESCRIPTION <b>Renewal Appl. Fee</b>	TOTAL AMOUNT OF TRANSACTION <b>\$1,400.00</b>		

**If you are paying an application or registration fee (including new licenses, amendments, etc.), mail the completed form with your application to the appropriate regional office.**

**For all other payments, send completed form to:**

**U.S. Bank  
U.S. Nuclear Regulatory Commission  
Accounts Receivable Team  
P. O. Box 979051  
St. Louis, MO 63197-9000**

**PRIVACY ACT STATEMENT**

Pursuant to 5 U.S.C. 552a(e)(3), enacted into law by Section 3 of the Privacy Act of 1974 (Public Law 93-579), the following statement is furnished to individuals who supply information to the U.S. Nuclear Regulatory Commission (NRC) on NRC Form 629. This information is maintained as part of a system of records designated as NRC-32 and described at 71 Federal Register 59636 (October 10, 2006), or the most recent Federal Register publication of the NRC's "Republication of Systems of Records Notices" that is located in the NRC's Agencywide Documents Access and Management System.

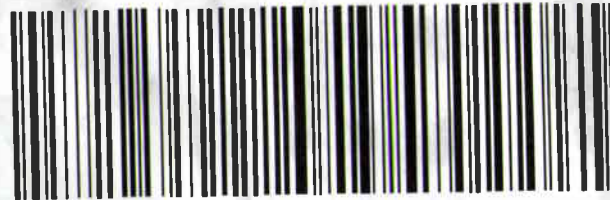
- 1. AUTHORITY:** 5 U.S.C. 552a; 5 U.S.C. 5514; 15 U.S.C. 1681; 26 U.S.C. 6103(m)(2); 31 U.S.C. 37, subchapters I and II; 31 U.S.C. 3701(a)(3); 31 U.S.C. 3711; 31 U.S.C. 3716; 31 U.S.C. 3717; 31 U.S.C. 3718; 31 U.S.C. 3720; 42 U.S.C. 2201; 42 U.S.C. 5841; Cash Management Improvement Act Amendments of 1992 (Pub. L. 102-589); Debt Collection Improvement Act of 1996 (Pub. L. 104-134); 31 CFR Chapter IX, Parts 900-904; 10 CFR Parts 15, 16, 170, 171; Executive Order (E.O.) 9397; E.O. 12101; and E.O. 12731.
- 2. PRINCIPAL PURPOSE(S):** To collect credit card account information and provide authorization for its use to collect a payment or debt.
- 3. ROUTINE USE(S):** In addition to the disclosures permitted under subsection (b) of the Privacy Act, NRC may disclosed information to debt collection contractors or to other Federal agencies for the purpose of collecting and reporting on delinquent debts and to banks enrolled in the Treasury Credit Card Network to collect a payment or debt when the individual has given his or her credit card number for this purpose. Information may be disclosed in accordance with any of the routine uses listed in the Prefatory Statement of General Routine Uses which includes to an appropriate agency in the event the information indicates a violation or potential violation of law; in the course of an administrative or judicial proceeding; to an appropriate agency to the extent relevant and necessary for an NRC decision about you or to the extent relevant and necessary for that agency's decision about you; in the course of discovery under a protective order issued by a court of competent jurisdiction, and in presenting evidence; to a Congressional office to respond to their inquiry made at your request; to NRC-paid experts, consultants, and others under contract with the NRC, on a need-to-know basis; and to appropriate persons and entities for purposes of response and remedial efforts in the event of a suspected or confirmed breach of data from this system of records.
- 4. WHETHER DISCLOSURE IS MANDATORY OR VOLUNTARY AND EFFECT ON INDIVIDUAL OF NOT PROVIDING INFORMATION:** Providing this information is voluntary. However, not providing the requested information will not provide the NRC the information and authorization required to use your credit card to collect a payment or debt.
- 5. SYSTEM MANAGER(S) AND ADDRESS:** Director, Division of Financial Management, Office of the Chief Financial Officer, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001.

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Form  
ID No 0215

Recipient's Copy

1 From This portion can be removed for Recipient's records.  
Date 6/16/10  
Sender's Name Minh Hoac  
Company ASHLAND  
Address 11083 HIGHWAY D  
City LOUISIANA State MO ZIP 63353-4166

FedEx  
Tracking Number  
871798804125

Phone 533 754-6211

RECIPIENT: PEEL HERE

2 Your Internal Billing Reference

3 To Recipient's Name Ms. Patricia Pelke  
Company NRC - Region III  
Address 2443 Warrenville Rowl  
City Lisle State IL ZIP 60532

Phone 630 829-9500

Address 2443 Warrenville Rowl

Address Suite 210

City Lisle State IL ZIP 60532

HOLD Weekday  
FedEx location address  
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FedEx First Overnight.

HOLD Saturday  
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REQUIRED. Available ONLY for  
FedEx Priority Overnight and  
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Use this time for the HOLD location address or for continuation of your shipping address.



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4a Express Package Service

- FedEx Priority Overnight
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- FedEx Express Saver

4b Express Freight Service

- FedEx 1Day Freight
- FedEx 2Day Freight
- FedEx 3Day Freight

5 Packaging

- FedEx Envelope\*
- FedEx Pak\*
- FedEx Box
- FedEx Tube
- Other

6 Special Handling and Delivery Signature Options

- SATURDAY Delivery
- No Signature Required
- Direct Signature
- Indirect Signature

Does this shipment contain dangerous goods?

- No
- Yes
- Yes
- Dry Ice
- Cargo Aircraft Only

7 Payment Bill to:

- Sender
- Credit Card
- Cash/Check

Total Packages

Our rate

Rev. Date 10/05



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