



December 21, 2012

SUBJECT: U.S. NRC License
Renewal Application
License No. 12-18781-02

Materials Licensing Branch
U.S. Nuclear Regulatory Commission, Region III
2443 Warrenville Road, Suite 210
Lisle, Illinois 60532-4351

Dear Sir:

Enclosed are two copies of a renewal application for our firm's U.S. Nuclear Regulatory Commission license (No.12-18781-02).

If you have any questions or require additional information, please contact our office.

Sincerely,

HURST-ROSCHE ENGINEERS, INC.

Michael E. Emken, P.E.

MEE:tmr

Enclosures

1400 East Tremont St.
P.O. Box 130
Hillsboro, IL 62049
Telephone 217-532-3959
Facsimile 217-532-3212
E-Mail Hillsboro@hurst-rosche.com
Web Page www.hurst-rosche.com

East St. Louis, Illinois
Marion, Illinois
Springfield, Illinois
Barnhart, Missouri
Neosho, Missouri

RECEIVED DEC 28 2012

NRC FORM 313
(05-2012)
10 CFR 30, 32, 33,
34, 35, 36, 39, and 40

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0120

EXPIRES: (05/31/2015)

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 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, (3150-0120), 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
2100 RENAISSANCE BOULEVARD, SUITE 100
KING OF PRUSSIA, PA 19406-2713

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
1600 E. LAMAR BOULEVARD
ARLINGTON, TX 76011-4511

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 12-18781-02

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

Hurst-Rosche Engineers, Inc.
P.O. Box 130
1400 E. Tremont Street
Hillsboro, Illinois 62049

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

1400 E. Tremont St. Temporary job sites
Hillsboro, IL 62049 anywhere in the U.S.
where NRC maintains
No. 5 Bank Square jurisdiction.
East St. Louis, IL 62203

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Michael E. Emken

BUSINESS TELEPHONE NUMBER

217-532-39

BUSINESS CELLULAR TELEPHONE NUMBER

217-532-3959

BUSINESS EMAIL ADDRESS

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 N/A

AMOUNT ENCLOSED \$ N/A

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

Michael E. Emken, RSO

SIGNATURE

Michael E. Emken

DATE

12/26/12

FOR NRC USE ONLY

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

**U.S. NRC Form 313
Item Nos. 5 - 11**

Item Nos. 5 and 6			
Radionuclide	Manufacturer/Model No.	Quantity	Common Use
Cesium-137	Sealed Source (Troxler/Model No. 3400 series)	Not to exceed 10 millicuries per source	Measure physical properties of materials
Americium-241	Sealed Source (Troxler/Model No. 3400 series)	Not to exceed 50 millicuries per source	Measure physical properties of materials
Item No. 7			
Radiation Safety Officer (RSO) and Training			
Radiation Safety Officer: Michael E. Emken	<p>The current RSO has successfully completed one of the training courses described in Criteria in the section entitled "Individual(s) Responsible for Radiation Safety Program and Their Training and Experience - Radiation Safety Officer" in NUREG-1556, Vol. 1, Rev. 1 "Consolidated Guidance about Materials Licensees: Program-Specific Guidance about Portable Gauge Licenses," dated Nov. 2001.</p> <p>Before being named as the RSO, future RSOs will have successfully completed one of the training courses described in Criteria in the section entitled 'Individual(s) Responsible for Radiation Safety Program and Their Training and Experience - Radiation Safety Officer' in NUREG-1556, Vol. 1, Rev. 1, "Consolidated Guidance about Materials Licensees: Program-Specific Guidance about Portable Gauge Licenses," dated Nov. 2001.</p>		
Item No. 8			
Training for Individuals Working in or Frequenting Restricted Areas			
<p>Before using licensed materials, authorized users will have successfully completed one of the training courses described in "Criteria" of the section entitled "Training for Individuals Working In or Frequenting Restricted Areas" in NUREG-1556, Vol. 1, Rev. 2, "Consolidated Guidance about Materials Licenses: Program-Specific Guidance about Portable Gauge Licenses," dated Nov. 2001.</p>			
Item No. 9			
Facilities and Equipment			
<p>Important issues and topics are addressed in "Radiation Safety Program - Public Dose" and "Radiation Safety Program - Operating, Emergency, and Security Procedures".</p>			

**U.S. NRC Form 313
Item Nos. 5 - 11**

Item No. 10	
Radiation Safety Program	
10.1 Audit Program	An audit program is not required to be submitted for review during the licensing phase therefore an audit program is not being submitted along with this renewal.
10.2 Termination of Activities	When the license expires or when the license ceases operation, NRC Form 314 will be submitted.
10.3 Survey Instruments	The licensee will either possess and use, or have access to and use, a radiation survey meter that meets the Criteria in the section entitled "Radiation Safety Program - Instruments" in NUREG-1556, Vol. 1, Rev. 1, "Consolidated Guidance about Materials Licenses: Program-Specific Guidance about Portable Gauge Licenses," dated Nov. 2001 in the event of an incident.
10.4 Material Receipt and Accountability	Physical inventories will be conducted at intervals not to exceed 6 months to account for all sealed sources and devices received and possessed under the license.
10.5 Occupational Dosimetry	Provide dosimetry processed and evaluated by a National Voluntary Laboratory Accreditation Program (NVLAP) approved processor that is exchanged at a frequency recommended by the processor.
10.6 Public Dose	Gauges are stored and used in a manner to limit the public dose of radiation below the maximum allowable amount. This matter will be examined during inspections.
10.7 Operating, Emergency, and Security Procedures	We will implement and maintain the operating and emergency procedures in Appendix H of NUREG-1556, Vol.1, Rev. 1 "Consolidated Guidance about Materials Licenses: Program-Specific Guidance about Portable Gauge Licenses," dated Nov. 2001. Copies of these procedures will be provided to all gauge users and at each job site.
10.8 Leak Test Program	Leak tests will be performed at intervals approved by the NRC or an Agreement State and specified in the Sealed Source and Device Registration Sheet. 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.
10.9 Maintenance	<u>Routine Cleaning and Lubrication</u> We will implement and maintain procedures for routine maintenance of our gauges according to each manufacturer's recommendations and instructions. <u>Non-Routine Maintenance</u> We will send the gauge to the manufacturer or other person authorized by NRC or an Agreement State to perform non-routine maintenance or repair operations that require detaching the source rod from the gauge.
10.10 Transportation	The applicant is not required to submit its response about transportation during the licensing period. This will be addressed during site inspections.
Item No. 11	
Waste Management -- Gauge Disposal and Transfer	
We will establish and include waste disposal procedures in our radiation safety program.	



HR
1800 East Truman Street
P.O. Box 430
Lisle, Illinois 60532

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U.W. Nuclear Regulatory Commission, Region III
2443 Warrenville Road, Suite 210
Lisle, Illinois 60532-4351

