

NRC FORM 313

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0120

EXPIRES: 01/31/2023

(01-2020)
10 CFR 30, 32,
33, 34, 35, 36,
37, 39, and 40

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-6 A10M), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by 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 CURRENT VOLUMES OF THE NUREG-1556 TECHNICAL REPORT SERIES ("CONSOLIDATED GUIDANCE ABOUT MATERIALS LICENSES") FOR DETAILED INSTRUCTIONS FOR COMPLETING THIS FORM: <http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1556/>. SEND TWO COPIES OF THE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

MATERIALS SAFETY LICENSING BRANCH
DIVISION OF MATERIAL SAFETY, STATE, TRIBAL AND RULEMAKING PROGRAMS
OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS
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

IF YOU ARE LOCATED IN:

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

21-32296-01

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

L.S. Engineering, Inc.
200 South Clay Street
Greenville, MI 48838

3. ADDRESS WHERE LICENSED MATERIALS WILL BE USED OR POSSESSED

- 1345 Monroe Avenue, Suite 136
Grand Rapids, MI 49505
- Temporary job sites in Michigan where the NRC
maintains jurisdiction.

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Bryan MacKinnon, RSO

BUSINESS TELEPHONE NUMBER
616-292-7160

BUSINESS CELLULAR TELEPHONE NUMBER
616-292-7160

BUSINESS E-MAIL ADDRESS

mackinnonb@lsengineering.com

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.

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.

10. RADIATION SAFETY PROGRAM.

12. LICENSE FEES (Fees required only for new applications, with few exceptions*)
(See 10 CFR 170 and Section 170.31)

*Amendments/Renewals that increase the scope of the existing license to a new or higher fee category will require a fee.

FEE
CATEGORYAMOUNT
ENCLOSED \$

PER THE DEBT COLLECTION IMPROVEMENT ACT OF 1996 (PUBLIC LAW 104-134), YOU ARE REQUIRED TO PROVIDE YOUR TAXPAYER IDENTIFICATION NUMBER. PROVIDE THIS INFORMATION BY COMPLETING NRC FORM 531: <https://www.nrc.gov/reading-rm/doc-collections/forms/nrc531info.html>.

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, 37, 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

Bryan MacKinnon, RSO

SIGNATURE

DATE

5/18/2021

FOR NRC USE ONLY

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



L. S. Engineering, Inc. 200 South Clay Street, Greenville, MI 48838 Phone: (616) 225-1944 Fax: (616) 225-1945
1345 Monroe Ave., Suite 136, Grand Rapids, MI 49505 Ph: (616)643-0810 Fax: (616)643-0811

May 18, 2021

Materials Licensing Branch
U.S. Nuclear Regulatory Commission, Region III
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

RE: Materials License Renewal; License # 21-32296-01

To whom it may concern,

This letter, along with 2 copies of the attached NRC Form 313, is intended to serve as a request for a material license renewal for license # 21-32296-01. The license was originally issued on March 19, 2001, and last amended on April 20, 2018. The information on the attached Form 313 remains unchanged since the recent October 23, 2020 amendment request (RSO change).

L.S. Engineering, Inc. intends to fully comply with all applicable NRC regulations and licensing guidance as described in the attached application. If I can provide any further information to expedite the review process, please contact me at (616) 292-7160.

Sincerely,

Bryan MacKinnon
Radiation Safety Officer



L.S. Engineering, Inc.
1345 Monroe Ave. NW, Suite 136
Grand Rapids, MI 49505
Phone: 616.643.0810
Cell: 616.292.7160
Fax: 616.643.0811

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**Attachment to NRC Form 313 - NRC License Renewal Application
Items 5 through 11**

Item 5: Radioactive Material – Sealed Sources and Devices

Troxler Gauge Model	Radionuclide Element & Mass Number	Chemical and/or Physical Form	Maximum amount that will be possessed at one time	Registry No.
3411B	Cesium – 137 Americium 241:Be	<u>Sealed Source</u> Dwg. 102112 Dwg. 102451	No single source to exceed 9 mCi No single source to exceed 44 mCi	NC-646-D-830-S
3440	Cesium – 137 Americium 241:Be	<u>Sealed Source</u> Dwg. 102112 Dwg. 102451	No single source to exceed 9 mCi No single source to exceed 44 mCi	NC-646-D-130-S

Item 6: Purpose(s) for which the licensed material will be used

Gauges will be used for the purposes described in their respective SSD Registration Certificates
– To measure the physical properties of materials.

Item 7: Individual responsible for the Radiation Safety Program and their training experience – Radiation Safety Officer (RSO)

Name of the RSO: Bryan MacKinnon, RSO (primary); Barb Richter, P.E., RSO

Bryan MacKinnon and Barb Richter have successfully completed one or more 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, dated September 2001.

The NRC will be notified of any planned changes regarding the designation of the RSO.

Item 8: Training for individuals working in or frequenting restricted areas

Before using licensed materials, authorized users will have successfully completed one of the training courses described in Criteria in the section entitled ‘Training for Individuals Working In or Frequenting Restricted Areas’ in NUREG-1556, Vol. 1, Rev. 1, dated September 2001.

Attachment to NRC Form 313 - NRC License Renewal Application

Items 5 through 11

Item 9: Facilities and Equipment

See "Radiation Safety Program"

Item 10: Radiation Safety Program

Audit Program

An audit of the radiation safety program content and implementation will be performed and documented annually. Records of audits will be maintained for at least 3 years. Corrective actions will be taken promptly to prevent recurrence of deficiencies.

Instruments

L.S. Engineering, Inc. (LSE) 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, dated November 2001, in the event of an incident.

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.

Occupational Dosimetry

LSE will either maintain, for inspection by the NRC, documentation demonstrating that unmonitored individuals are not likely to receive, in one year, a radiation dose in excess of 10 percent of the allowable limits in 10 CFR Part 20, or we will provide dosimetry processed and evaluated by an NVLAP-approved processor that is exchanged at a frequency recommended by the processor.

Operating and Emergency Procedures

Operating and emergency procedures will be developed, implemented, and maintained and will meet the criteria in the section entitled "Radiation Safety Program – Operating and Emergency Procedures" in NUREG-1556, Vol. 1, Rev. 1, dated September 2001.

Attachment to NRC Form 313 - NRC License Renewal Application Items 5 through 11

Leak Tests

Leak tests will be performed at intervals not to exceed 12 months or other interval specified in the Sealed Source and Device Registration Sheet. Leak tests will be performed by an organization authorized by the NRC to provide leak testing services to other licensees or using a leak test kit supplied by an organization authorized by the NRC to provide leak test kits to other licensees and according to the kit supplier's instructions.

Maintenance

Routine cleaning and lubrication – LSE will implement and maintain procedures for routine maintenance of our gauges according to each manufacturer's recommendations and instructions.

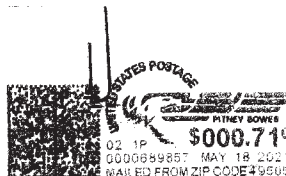
Non routine maintenance or repair operations that require detaching the source or source rod from the gauge – LSE will send the gauge to the manufacturer or other person authorized by the NRC to perform non-routine maintenance or repair operations that require detaching the source or source rod from the gauge.

Transportation

LSE will implement and maintain safety programs for public transport of radioactive material to ensure compliance with NRC and DOT regulations.

LSE

L. S. Engineering, Inc.
1345 Monroe Avenue NW, Suite 136
Grand Rapids, MI 49505



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Lisle, IL 60532-4352

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