NRC FORM 313 U.S. NUCLEAR REGULATORY COMMISSION (05-2022) 10 CFR 30, 32, 33, 34, 35, 36, 37, 39, and 40 INSTRUCTIONS: SEE THE CURRENT VOLUMES OF THE NUREG-1656 TECHNICAL REPO INSTRUCTIONS FOR COMPLETING THIS FORM: http://www.nrc.gov/reading-rm/doc-colle OFFICE SPECIFIED BELOW.	necessary to determine that the applicant is qualified and that. Send comments regarding burden estimate to the FOIA, Libra Regulatory Commission, Washington, DC 2055-0001, or by at: OMB Office of Information and Regulatory Affairs, (3150-0 725 17th Street NW, Washington, DC 20503; e-mail: <u>oira su</u> and a person is not required to respond to, a collection of infon displays a currently valid OMB control number. RT SERIES (*CONSOLIDATED GUIDANCE ABOUT	
APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH: IF YOU ARE LOCATED IN:		
	ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND	
MATERIALS SAFETY AND TRIBAL LIAISON BRANCH DIVISION OF MATERIALS SAFETY, SECURITY, STATE AND TRIBAL PROGRAMS OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC 20555-0001	APPLICATIONS TO: MATERIALS LICENSING BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION III 2443 WARRENVILLE ROAD, SUITE 210 LISLE, IL 60532-4352	
ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:		
IF YOU ARE LOCATED IN:	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,	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:	SEND APPLICATIONS TO:	
LICENSING ASSISTANCE TEAM DIVISION OF RADIOLOGICAL SAFETY AND SECURITY U.S. NUCLEAR REGULATORY COMMISSION, REGION I 475 ALLENDALE ROAD, SUITE 102 KING OF PRUSSIA, PA 19406-1415	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)	2. NAME AND MAILING ADDRESS OF APPLICANT (Include zip code)	
A. NEW LICENSE	TSI Energy Solutions / Thermo-Scan Energy Management	
B. AMENDMENT TO LICENSE NUMBER	Corp. PO Box 705	
C. RENEWAL OF LICENSE NUMBER 13-25387-01	Carmel, IN 46082	
3. ADDRESS WHERE LICENSED MATERIALS WILL BE USED OR POSSESSED	4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION	
	Andrew McMullan	
4650 Killarney Drive	BUSINESS TELEPHONE NUMBER BUSINESS CELLULAR TELEPHONE NUMBER 317-846-4655	
Carmel, IN 46033	BUSINESS E-MAIL ADDRESS	
	amcmullan@tsienergysolutions.com	
SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORM		
5. RADIOACTIVE MATERIAL	6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED. 7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND	
<ul> <li>a. Element and mass number, b. chemical and/or physical form; and c. maximum amount which will be possessed at any one time.</li> <li>b. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.</li> </ul>	EXPERIENCE  9. FACILITIES AND EQUIPMENT.	
10. RADIATION SAFETY PROGRAM.     11. WASTE MANAGEMENT.		
<ol> <li>LICENSE FEES (Fees required only for new applications, with few exceptions*) (See 10 CFR 170 and Section 170.31)</li> <li>*Amendments/Renewals that increase the scope of the existing license to a new or high</li> </ol>	FEE CATEGORY	AMOUNT 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-m/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	SIGNATURE	DATE
Andrew McMullan, President	1222	6/2/22
FOR NRC USE ONLY		
TYPE OF FEE     FEE LOG     FEE CATEGORY     AMOUNT RECEIVED     CHECK NUMBER     COMMENTS		
APPROVED BY DATE		

RECEIVED JUN 07 2022



# Renewal of License No. 13-25387-01

Thermo-Scan Energy Management Corporation DBA - TSI Energy Solutions

# 5. Radioactive Material

Radioisotope: Americium-241

**Manufacturer or Distributor Model No.:** Seaman R-50

# **Quantity:**

Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate

# 6. Purpose(s) for Which Licensed Material Will be Used:

Gauges are used for the purposes described in their SSD Registration Sheets (to measure physical properties of materials).

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

# Radiation Safety Officer: Keith Fettig

The RSO has successfully completed a factory training course for the use of Seaman Nuclear Roof Moisture meters. Seminar content and the written examination covered radiological safety, regulatory requirements, theory and operation of nuclear meters, and initial HAZMAT training, encompassing regulations and correct procedures involved in the transport of nuclear density/moisture meters.

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

Authorized users have successfully completed a factory training course for the use of Seaman Nuclear Roof Moisture meters. Seminar content and the written examination covered radiological safety, regulatory requirements, theory and operation of nuclear meters, and initial HAZMAT training, encompassing regulations and correct procedures involved in the transport of nuclear density/moisture meters.



# 9. Facilities and Equipment:

Key issues are addressed under Item 10 below.

# **10.** Radiation Safety Program:

#### **Survey Instruments:**

We 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.

# **Material Receipt and Accountability:**

Physical inventories are conducted at intervals not to exceed 6 months, to account for all sealed sources and devices received and possessed under the license.

# **Occupational Dosimetry:**

We either maintain, for inspection by NRC, documentation demonstrating that unmonitored individuals are not likely to receive a radiation dose in excess of 10 percent of allowable limits in 10 CFR Part 20, or we 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 have been developed, implemented, and maintained and meet the criteria in the section entitled "Radiation Safety Program – Operating and Emergency Procedures" in NUREG-1556, Vol. 1, Rev. 1, dated November 2001.

# Leak Test:

Leak tests are performed at intervals approved by NRC or an Agreement State and specified in the Sealed Source and Device Registration Sheet. Leak tests are performed by an organization authorized by NRC or an Agreement State to provide leak testing services for 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.



# Maintenance:

Routine Cleaning and Lubrication:

We maintain procedures for routine maintenance of our gauges according to the manufacturer's recommendations and instructions.

Non-Routine Maintenance:

We 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 the removal of the source or source rod from the gauge.

# **11. Waste Management:**

No data is required at this time.