

October 28, 2021



U.S. NRC Region I  
2100 Renaissance Blvd., Suite 100  
King of Prussia, PA 19406-2713

Re: Amendment Request | Radiation Safety Officer  
License No. 38-35284-01

To Whom It May Concern

Thielsch Engineering, Inc. (TEI) wishes to make the following revision to our Radioactive Materials License No. 38-35284-01.

***Item No. 7: Individual(s) Responsible For Radiation Safety Program and Their Training and Experience***

**Radiation Safety Officer:**

Donald Hayden has been replaced by Patrick Harnedy.

Enclosed you will find NRC Form 313, the Delegation of Authority, as well as Patrick Harnedy's RSO Training Certificate, Nuclear Density Safety Training Certificate, and US DOT HAZMAT Certificate. If you have any questions or require further information, please contact us at (401) 467-6454.

Sincerely,

**THIELSCH ENGINEERING, INC.**

A handwritten signature in blue ink, appearing to read "Trent Theroux".

Trent Theroux  
Corporate Secretary

Enclosures: NRC Form 313  
Delegation of Authority  
Patrick Harnedy – RSO Training Certificate  
Patrick Harnedy – Nuclear Density Safety Training Certificate  
Patrick Harnedy – US DOT HAZMAT Certificate

(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](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 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 38-35284-01

C. RENEWAL OF LICENSE NUMBER

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

Thielsch Engineering, Inc.  
195 Frances Avenue  
Cranston, RI 02910

3. ADDRESS WHERE LICENSED MATERIALS WILL BE USED OR POSSESSED

Thielsch Engineering, Inc.  
195 Frances Avenue  
Cranston, RI 02910

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Patrick Harnedy, RSO

BUSINESS TELEPHONE NUMBER  
(401) 467-6454

BUSINESS CELLULAR TELEPHONE NUMBER  
(401) 450-5369

BUSINESS E-MAIL ADDRESS  
pharnedy@thielsch.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.

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

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

Trent Theroux - Corporate Secretary

SIGNATURE

DATE

10/28/21

**FOR NRC USE ONLY**

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

**THIELSCH ENGINEERING, INC.**

195 Frances Avenue  
Cranston, Rhode Island 02910  
Tel. (401) 467-6454  
Fax. (401) 467-2398



**DELEGATION OF AUTHORITY**

October 28, 2021

Memo to: Patrick Harnedy  
From: Trent Theroux  
Subject: Delegation of Authority

You, Patrick Harnedy, have been appointed Radiation Safety Officer and are responsible for ensuring the safe and secure use of radiation. You are responsible for managing the Radiation Safety Program, identifying radiation protection problems, initiating, recommending, or providing corrective actions, verifying implementation of corrective actions, stopping unsafe activities and ensuring compliance with regulations. You are hereby delegated the authority necessary to meet those responsibilities, including prohibiting the use of radioactive materials by employees who do not meet the necessary requirements and shutting down operations, when justified, to maintain radiation safety. You are required to notify management if staff does not cooperate and does not address radiation safety issues. In addition, you are free to raise issues with the RI Radiation Control Agency at any time. It is estimated that you will spend as much time as is necessary per week conducting radiation protection activities.

A handwritten signature in blue ink, appearing to read "Trent Theroux", written over a horizontal line.

Trent Theroux  
Secretary

10/28/21

Date

I accept the above responsibilities:

A handwritten signature in blue ink, appearing to read "Patrick Harnedy", written over a horizontal line.

Signature of Radiation Safety Officer  
Patrick Harnedy

10/28/21

Date

**APNGA**  
**Certificate of Achievement**

**This confirms that**  
**Patrick Harnedy**

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Has successfully completed the APNGA Portable Nuclear Gauge

**Radiation Safety Officer Class**

on this day

**January 11, 2017**

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American Portable Nuclear Gauge Association  
P.O. Box 423, Emmitsburg, MD 21727 • [www.apnga.com](http://www.apnga.com)

  
George E. Marshall - Director  
240-888-6426

PiwN05Y2Sq

# APNGA Portable Nuclear Gauge Safety & U.S. D.O.T. Hazmat Certification Class

Certificate of Completion to:

Patrick Harnedy

HAZMAT refresher training is required within 3 years after today's date:

January 23, 2020

This course covers training criteria of NUREG 1556. The Agreement States,  
and 49 CFR 172, Subpart H.

**The Company RSO completes the training requirements by familiarizing the employee with:**

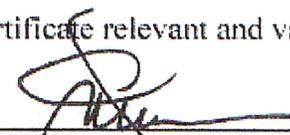
- State specific regulations including introduction to the state regulatory website
- The company radiation safety program, specifically gauge safety operating and emergency procedures
- A tour of storage area with emphasis on security, documents and postings
- Loading, security and transporting gauges in company vehicles
- Hands-on training with the gauge and methods in use by the company
- Introduction to gauge safety content on gauge manufacturer website
- Certificate covers both Gauge Safety and USDOT HAZMAT requirements

The acknowledgement and signature of the RSO/Official makes the training and certificate relevant and valid.

THIELSCH ENGINEERING, INC.

Company Name

  
Signature of RSO

  
Director of APNGA

American Portable Nuclear Gauge Association  
P.O. Box 423, Emmitsburg, MD 21727 • www.apnga.com

zZ2TrDvCxd

George E. Marshall - Director  
240-888-6426

**APNGA**  
**Annual Refresher Training for Portable Nuclear Gauges**

Certificate of Completion to:

**Patrick Harnedy**

Date:

**January 20, 2021**

**1112-161-116-0034**

Certificate Serial Number

This course covers aspects of NUREG 1556, The Agreement States, and 49 CFR 172,  
Subpart H, including:

- General Awareness/Familiarization
- Function Specific Training
- Safety Training
- Security Awareness
- Driver Training

The organization RSO/Official should also re-familiarize the employee with state specific regulations and the company radiation safety program, specifically gauge safety operating and emergency response procedures.

The acknowledgement and signature of the RSO/Official makes the training and certificate relevant and valid.

Thiensch Engineering, Inc.  
Company Name

Donald W. Hayden  
Company RSO/Official (print)

Donald W. Hayden  
Signature of RSO/Official

American Portable Nuclear Gauge Association  
P.O. Box 27542, Scottsdale, AZ 85255 • www.apnga.com

George E. Marshall  
George E. Marshall - Director  
240-888-6426