

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

OFFICIAL RECORD COPY

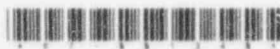
Licensee		3. License Number 37-30357-01
1. Eugene Obosnenko		
2. 80 Frances Avenue Sharon Hill, Pennsylvania 19079		4. Expiration Date January 31, 2002
		5. Docket or Reference No. 030-34306
6. Byproduct, Source, and/or Special Nuclear Material	7. Chemical and/or Physical Form	8. Maximum Amount that Licensee May Possess at Any One Time Under This License
A. Cesium 137	A. Sealed sources	A. 100 millicuries
B. Americium 241	B. Sealed neutron sources	B. 500 millicuries
9. Authorized use		
A. and B. For possession and use in Troxler Electronic Laboratories, Inc., Campbell Pacific Nuclear Corp., Humboldt Scientific, Inc., Seaman Nuclear Corporation, or Soiltest, Incorporated devices which have been evaluated and approved for licensing purposes under a license issued by the U.S. Nuclear Regulatory Commission or any Agreement State.		

CONDITIONS

10. Licensed material may be stored at the licensee's facilities located at 80 Frances Avenue, Sharon Hill, Pennsylvania and may be used only at temporary job sites of the licensee anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.
11. The licensee may not possess and use materials authorized in Items 6, 7, and 8, until: (1) the licensee has constructed the facilities and obtained the equipment described in the application and supporting documentation; and (2) the U.S. Nuclear Regulatory Commission, Region I, ATTN: Chief, Nuclear Materials Safety Branch, 475 Allendale Road, King of Prussia, Pennsylvania 19406 has been notified in writing that activities authorized by the license will be initiated.

In accordance with the requirements set forth in 10 CFR 30.36(b), 40.42(b), and 70.38(b), the licensee shall promptly notify the Nuclear Regulatory Commission, in writing, of a decision not to complete the facility, acquire equipment, or possess and use authorized material.

12. Licensed material shall only be used by, or under the supervision and in the physical presence of, Eugene Obosnenko or individuals who have successfully completed the manufacturer's training program for gauge users, have been instructed in the licensee's routine and emergency operating procedures and who have been designated in writing by the Radiation Safety Officer.



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License Number

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13. The Radiation Safety Officer for this license is Eugene Obosnenko.
14. A. Sealed sources and detector cells containing licensed material shall be tested for leakage and/or contamination at intervals not to exceed six months or at such other intervals as are specified by the certificate of registration referred to in 10 CFR 32.210, not to exceed three years.
- B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed three months.
- C. In the absence of a certificate from a transferor indicating that a leak test has been made within six months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.
- D. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source.
- E. Sealed sources and detector cells need not be leak tested if:
- (i) they contain only hydrogen-3; or
 - (ii) they contain only a radioactive gas; or
 - (iii) the half-life of the isotope is 30 days or less; or
 - (iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or
 - (v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transfer to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- F. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission and the source or detector cell shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within five days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region I, ATTN: Chief, Nuclear Materials Safety Branch, 475 Allendale Road, King of Prussia, Pennsylvania 19406. The report shall specify the source or detector cell involved, the test results, and corrective action taken.
- G. The licensee is authorized to collect leak test samples for analysis by Troxler Electronic Laboratories, Inc. Alternatively, tests for leakage and/or

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contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.

15. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
16. The licensee shall conduct a physical inventory every six months to account for all sealed sources and devices containing licensed material received and possessed under the license.
17. The licensee shall not acquire licensed material in a sealed source or device unless the source or device has been registered with the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or equivalent regulations of an Agreement State.
18. Each portable nuclear gauge shall have a lock or outer locked container designed to prevent unauthorized or accidental removal of the sealed source from its shielded position. The gauge or its container must be locked when in transport, storage or when not under the direct surveillance of an authorized user.
19. Any cleaning, maintenance, or repair of the gauge(s) that requires removal of the source rod shall be performed only by the manufacturer or by other persons specifically licensed by the Commission or an Agreement State to perform such services.
20. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
21. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

A. Application dated December 23, 1996

JAN - 7 1997

Date _____

For the U.S. Nuclear Regulatory Commission

Original Signed By:

John R. McGrath

By _____

Division of Nuclear Materials Safety
Region I
King of Prussia, Pennsylvania 19406

JAN - 7 1997

License No. 37-30357-01
Docket No. 030-34306
Control No. 123982

Mr. Eugene Obosnenko
80 Frances Avenue
Sharon Hill, Pennsylvania 19079

Dear Mr. Obosnenko:

Please review the enclosed document carefully and be sure that you understand all conditions. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I Office, Licensing Assistance Team, (610) 337-5093 or 5239, so that we can provide appropriate corrections and answers.

Please be advised that your license expires at the end of the day, in the month, and year stated in the license. Until your license is terminated, you must conduct your program involving byproduct materials in accordance with the conditions of your NRC license, representations made in your license application, and NRC regulations. In particular, note that you must:

1. Operate in accordance with NRC regulations 10 CFR Part 19, "Notices, Instructions and Reports to Workers; Inspections," 10 CFR Part 20, "Standards for Protection Against Radiation," and other applicable regulations.
2. Not possess and use materials authorized in Items 6, 7, and 8, on the license until:
 - a. you have constructed the facilities and obtained the equipment described in the license application and supporting documentation; and
 - b. you have notified the U.S. Nuclear Regulatory Commission, Region I, ATTN: Chief, Nuclear Materials Safety Branch, 475 Allendale Road, King of Prussia, Pennsylvania 19406 in writing, that activities authorized by the license will be initiated.
3. Notify NRC, in writing, within 30 days:
 - a. when the Radiation Safety Officer, permanently discontinues performance of duties under the license or has a name change; or

- b. when the mailing address on the license changes (no fee is required if the location of byproduct material remains the same).
4. In accordance with 10 CFR 30.36(b) and/or license condition, notify NRC, promptly, in writing, and request termination of the license:
 - a. when you decide to terminate all activities involving materials authorized under the license; or
 - b. if you decide not to complete the facility, acquire equipment, or possess and use authorized material.
5. Request and obtain a license amendment before you:
 - a. change Radiation Safety Officer;
 - b. order byproduct material in excess of the amount, or radionuclide, or form different than authorized on the license;
 - c. add or change the areas of use, or address or addresses of use identified in the license application or on the license; or
 - d. change ownership of your organization.
6. Submit a complete renewal application with proper fee or termination request at least 30 days before the expiration date of your license. You will receive a reminder notice approximately 90 days before the expiration date. Possession of byproduct material after your license expires is a violation of NRC regulations. A license will not normally be renewed, except on a case-by-case basis, in instances where licensed material has never been possessed or used.

In addition, please note that NRC Form 313 requires the applicant, by his/her signature, to verify that the applicant understands that all statements contained in the application are true and correct to the best of the applicant's knowledge. The signatory for the application should be the licensee or a certifying official of the licensee rather than the Radiation Safety Officer or a consultant.

You will be periodically inspected by the NRC. Failure to conduct your program in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in enforcement action against you. This could include issuance of a notice of violation, or imposition of a civil penalty, or an order suspending, modifying or revoking your license as specified in the "General Statement of Policy and Procedure for NRC Enforcement Actions," (Enforcement Policy), NUREG 1600.

Since serious consequences to employees and the public can result from failure to comply with NRC requirements, prompt and vigorous enforcement action will be taken

Mr. Eugene Obosnenko

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when dealing with licensees who do not achieve the necessary meticulous attention to detail and the high standard of compliance which NRC expects of its licensees.

Thank you for your cooperation.

Sincerely,

Original Signed By:
John R. McGrath

John R. McGrath
Senior Health Physicist
Division of Nuclear Materials Safety

License No. 37-30357-01
Docket No. 030-34306
Control No. 123982

Enclosures:

1. License No. 37-30357-01
2. 10 CFR Parts 2, 19, 20, 30 and 170
3. NRC Form 3 and 313

DOCUMENT NAME: R:\WPS\MLTR\L3730357.01

To receive a copy of this document, indicate in the box: "C" = Copy w/o attach/encl "E" = Copy w/ attach/encl "N" = No copy

OFFICE	DNMS/RI	N	DNMS/RI				
NAME	McGrath						
DATE	12/23/96		12/ /96		12/ /96		12/ /96

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APPLICATION FOR MATERIAL LICENSE

Estimated per response to comply with this information collection request 7. 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. Forward comments regarding burden estimate to the Information and Access Management Branch (T-8 F33), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, and to the Paperwork Reduction Project (2160-0180), Office of Management and Budget, Washington, DC 20503. NRC may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.

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:

DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY
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:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND,
MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA,
RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

LICENSING ASSISTANT SECTION
NUCLEAR MATERIALS SAFETY BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION I
476 ALLENDALE ROAD
KING OF PRUSSIA, PA 19406-1415

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO
RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA,
SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION II
101 MARSETTA STREET, NW, SUITE 2000
ATLANTA, GA 30333-0100

IF YOU ARE LOCATED IN:

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

MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION III
801 WARRENVILLE RD.
Lisle, IL 60532-4361

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS,
LOUISIANA, 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 SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
611 RYAN PLAZA DRIVE, SUITE 400
AHLINGTON, TX 78011-5004

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
☐ B
☐ C

A. NEW LICENSE

B. AMENDMENT TO LICENSE NUMBER

C. RENEWAL OF LICENSE NUMBER

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

Eugene Obosnenko
80 Frances Avenue
Sharon Hill, PA 19079

3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

80 Frances Avenue
Sharon Hill, PA 19079
and Temporary Job Sites

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Eugene Obosnenko

TELEPHONE NUMBER
(610) 461-4988

SUBMIT ITEMS 6 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.

6. RADIOACTIVE MATERIAL. See Attachment

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

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

8. FACILITIES AND EQUIPMENT. See Attachment

11. WASTE MANAGEMENT. Return to MFG

12. LICENSEE FEES (See 10 CFR 170 and Section 170.51)
FEE CATEGORY AMOUNT ENCLOSED \$

13. CERTIFICATION (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING
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, 38 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 82 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENTS OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

CERTIFYING OFFICER - TYPE/PRINTED NAME AND TITLE
Eugene Obosnenko

SIGNATURE

DATE

12/23/96

FOR NRC USE ONLY

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

NRC FORM 313 (7-00)

PRINTED ON RECYCLED PAPER

123982

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ATTACHMENT

APPLICATION FOR MATERIAL LICENSE

5. **RADIOACTIVE MATERIAL**

Troxler Model 3430 Zesium 1037 - not to exceed (9) units
Americium 241 - not to exceed (10) units

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

Compaction of soil and black top, moisture content and density of construction materials at job sites.

7. **INDIVIDUAL RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE?**

Eugene Obosnenko, Troxler Nuclear Training on September 24, 1996

8. **TRAINING FOR INDIVIDUALS WORKING IN RESTRICTED AREAS.**

Individual will successfully complete manufacturer's training and trained emergency personnel designated by RSO in writing. Above records shall be maintained for 3 years after the individuals termination. Refresher training will be given annually by RSO and records will be maintained for 3 years.

9. **FACILITIES AND EQUIPMENT.**

Transport in a van only

ATTACHMENT

APPLICATION FOR MATERIAL LICENSE (continued)

10. RADIATION SAFETY PROGRAM

- Supply TLD badges to all users (supply of badges is Troxler and exchanged every 3 months.
- For field, in case of accidents, a hospital (local) or police or fire company or civil defense
- Leak testing will be performed at 6-month intervals by Troxler
- Physical inventories shall be conducted at intervals not to exceed 6 months
- Records shall be maintained for 3 years from date of inventory
- No maintenance shall be performed which requires the source rod exposure will be done by mfg
- Transportation have and will maintain current copies of DOT and will develop and implement procedures for compliance with regulations
- Copies of our operating and emergency procedures shall be provided to gauge users before they begin using gauge
- Copies of operating and emergency procedures shall be made available at each job site (see attached)
- Sealed sources shall not be lowered more than 3 feet into ground
- Annual audit shall be performed as described in Appendix I of DG-0008
- Records regulations by 10 CFR 3.35 (G) will be maintained
- Duties and responsibilities of RSO shall be as described in HPPC of DG-0008 (attached)

TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

EUGENE OBOSNENKO

of

W. S. GARDNER AND ASSOC

HAS SUCCESSFULLY COMPLETED THE TROXLER ELECTRONIC LABORATORIES, INC.
TRAINING COURSE FOR THE USE OF NUCLEAR TESTING EQUIPMENT.

SUBJECTS INCLUDED IN THIS COURSE WERE AS FOLLOWS:

Radiological Safety

1. Principles and practices of radiation protection.
2. Leak testing procedures.
3. Mathematics and calculations basic to the use and measurement of radioactivity.
4. Biological effects of radiation.
5. Radioactivity measurement standardization and monitoring techniques and instruments.
6. Accident and incident procedures.
7. Procedures for nuclear gauge storage and transportation.
8. General safety precautions.

Gauge Operation

1. Instrument theory
2. Operating procedures
3. Maintenance
4. Field application
5. Gauge calibration

G. Kenneth Brown
G. KENNETH BROWN JR.
INSTRUCTOR

CERTIFICATE #: 074883

9/24/96
DATE

WILLIAM F. TROXLER
PRESIDENT

THIS DOCUMENT MAY BE USED TO VERIFY TRAINING REQUIRED BY 49CFR172, SUBPART H.

EUGENE QBOSNENKO

NAME

9/24/96

TRAINING DATE

Training materials used are part of the Troxler Electronic Laboratories, Inc. Nuclear Gauge Safety Training Program. Topics covered apply to recognition, labeling, preparation for transport, transportation, regulatory compliance, emergency response, personal protection, and accident avoidance only as they apply to radioactive White I and Yellow II portable gauging devices.

TROXLER ELECTRONIC LABORATORIES, INC.

3008 CORNWALLIS ROAD

P.O. BOX 12057

RESEARCH TRIANGLE PARK, NC 27709

G KENNETH BROWN JR.
INSTRUCTOR

I hereby certify that the above named employee has been properly trained and tested in accordance with the requirements of 49CFR172, subpart H.

COMPANY OFFICIAL

9/24/98
EXPIRATION DATE

COMPANY AND ADDRESS

 **TROXLER**

MODEL 3880 LEAK TEST KIT

For

Sealed Radioactive Sources

INSTRUCTION MANUAL



Troxler Electronic Laboratories, Inc.
Subsidiary; Troxler International, Ltd.
3008 Cornwallis Road P. O. Box 12057
Research Triangle Park, NC 27709 USA
Tel (919) 549-8661 Fax (919) 549-0761

STANDARD OPERATING AND EMERGENCY PROCEDURE'

Operating Procedures

1. Before removing the gauge from its place of storage, check to make sure that the gauge source rod is in the shielded, locked position, then lock the transport case if possible.
2. Sign the gauge out in a log book, stating the dates of use, names of the authorized users who will be responsible for the gauge, and the temporary job sites where the gauge will be used.
3. Never leave the gauge unattended while in your custody.
4. Follow all applicable Department of Transportation (DOT) requirements when transporting the gauge
5. Do not touch the source rod with your fingers, hands, or any part of your body, and always make sure the source rod is in the shielded position after each measurement is made.
6. Always wear your assigned thermoluminescent dosimeter (TLD) or film badge when using the gauge.
7. Never wear another person's TLD or film badge.

8. Never store your TLD or film badge near the gauge.
9. Always keep unauthorized persons away from the area where the gauge is to be used.
10. Always maintain constant surveillance and immediate control of the gauge when it is not in storage.
11. To make gauge visible to operators of heavy equipment at construction sites, always protect and flag each gauge, being sure that the flags are tall enough to be seen by heavy equipment operators.¹
12. Never look under the gauge when the source rod is being lowered into the ground.
13. After each measurement, always return the source to the shielded position and lock it there.
14. When the gauge is not in use at a temporary job site, place the gauge in a secured storage location (e.g., locked in the trunk of a car or locked in a storage shed).
15. Return the gauge to its proper storage location at the end of the work shift.
16. When the gauge is returned to storage, so indicate in the source log.

¹ A fiberglass whip with a flag at the top (available as a bicycle accessory) can be attached to the gauge to make its location more obvious to heavy equipment operators.

Emergency Procedures

If the source fails to return to the shielded position (e.g., as a result of being damaged) or if any other emergency or unusual situation arises (e.g., the gauge is struck by a moving vehicle, is dropped, or is in a vehicle involved in an accident):

1. Immediately secure the area around the gauge.
2. Prevent unauthorized personnel from entering the secured area.
3. If any heavy equipment is involved, detain the equipment until it is determined there is no contamination present.

NAME*	WORK PHONE NUMBER*	HOME PHONE NUMBER*
Eugene Obosnenko	610-461-4988	610-461-4988
_____	_____	_____
_____	_____	_____

* List (and update, as needed) the names and telephone numbers of the Radiation Safety Officer (RSO) or other knowledgeable licensee staff to be contacted in case of emergency.

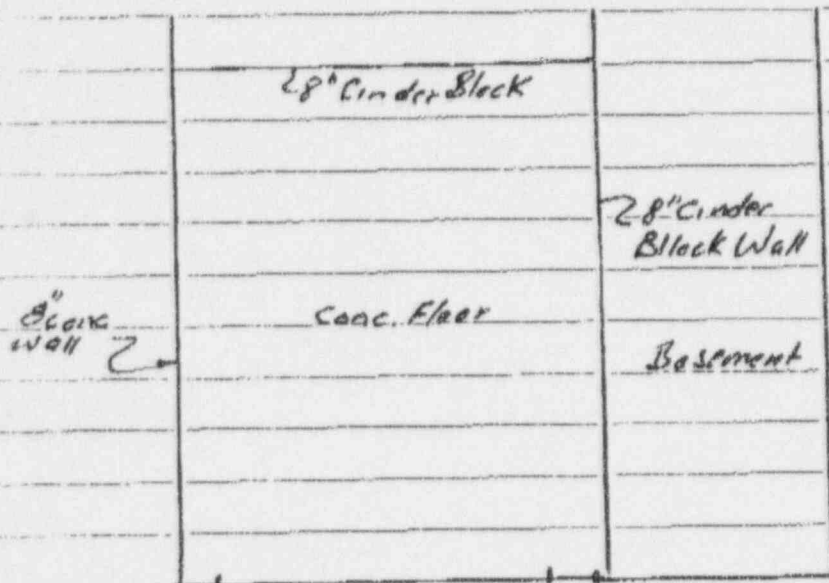
5. Follow the directions provided by the person contacted in Step 4.
6. LICENSEE MANAGEMENT MUST:
 - 6.1 Arrange for a survey to be conducted as soon as possible by a knowledgeable person using appropriate radiation detection instrumentation. (This person could be a licensee employee using a survey meter located at the job site or a consultant.)

- 6.2 Make necessary notifications to local authorities; notify the NRC as required. (Even if not required to do so, you may report ANY incident to NRC by calling NRC's Emergency Operations Center at (301) 816-5100, which is staffed 24 hours a day and accepts collect calls. NRC notification is required when gauges containing licensed material are lost or stolen, and when gauges are damaged or involved in incidents that result in doses in excess of the dose limits in 10 CFR 20.2203. The attached memorandum from R.E. Cunningham, dated July 1, 1993, provides additional guidance.)
- 6.3 Consider the timeliness of reports to the NRC.
- 6.4 Review the reporting requirements, which are found in 10 CFR 20.2201-2203 and 10 CFR 30.50.

*Radiation Survey Meter "Troxalet" was ordered from Troxler on 12/23/96 and will be Federal Expressed to me on 12/30/96.

STORAGE

Front of Bldg.



Rear of Bldg.

Garage Door, locked, Alarm System & Radiation label on outside.

DEC 20 1996

Docket No. 030-34306
Control No. 123982

Mr. Eugene Obosnenko
80 Frances Avenue
Sharon Hill, PA 19079

Dear Mr. Obosnenko:

This is in reference to your application requesting a Nuclear Regulatory Commission License. In order to continue our review, we need the following additional information:

1. Please submit a signed and dated application.
2. Under item 8 of your application, please confirm that additional users will successfully complete the manufacturer's training.
3. Please provide a more complete description of your storage facility including a drawing. If storage is at a personal residence, provide a justification and confirm that the general public will not be exposed to radiation levels in excess of those specified in 10 CFR 20.1301.
4. Provide a commitment to have at least one survey meter at each jobsite. Specify the type, range, calibration frequency and the NRC or Agreement State licensee authorized to calibrate instruments. Alternatively, provide an explanation of timely access to a survey meter in case of an incident.
5. With regard to waste management, please provide a commitment that you will dispose of material by transfer to manufacturer or by transfer to a licensee authorized to possess the material.

We will continue our review upon receipt of this information. Please reply in duplicate to my attention at the Region I Office and refer to Mail Control No. 123982. If you have any technical questions regarding this deficiency letter, please call me at (610) 337-5069.

OFFICIAL RECORD COPY

ML 10

Eugene Obosnenko

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If we do not receive a reply from you within 30 calendar days from the date of this letter, we shall assume that you do not wish to pursue your application.

Sincerely,

Original Signed By:
John R. McGrath

John R. McGrath
Senior Health Physicist
Division of Nuclear Materials Safety

Docket No. 030-34306
Control No. 123982

DOCUMENT NAME: R:\WPS\DLTR\L3730357.01

To receive a copy of this document, indicate in the box: "C" = Copy w/o attach/enci "E" = Copy w/ attach/enci "N" = No copy

OFFICE	DNMS/RI	<input checked="checked" type="checkbox"/> N	DNMS/RI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NAME	McGrath <i>JRM</i>						
DATE	12/20/96	12/ /96	12/ /96	12/ /96			

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APPLICATION FOR MATERIAL LICENSE

Estimated burden per response to comply with this information collection request is 7 minutes. 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. Forward comments regarding burden estimate to the Information and Records Management Branch (T-6 F33), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, and to the Paperwork Reduction Project (3150-0120), Office of Management and Budget, Washington, DC 20503. NRC may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.

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:

DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY
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:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND,
MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA,
RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

LICENSING ASSISTANT SECTION
NUCLEAR MATERIALS SAFETY BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION I
476 ALLENDALE ROAD
KING OF PRUSSIA, PA 19406-1415

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO
RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA,
SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION II
101 MARIETTA STREET, NW, SUITE 2900
ATLANTA, GA 30323-0199

IF YOU ARE LOCATED IN:

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

MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION III
801 WARRENVILLE RD.
LIBLE, IL 60532-4361

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS,
LOUISIANA, 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 SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TX 76011-8064

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. RESIGNAL OF LICENSE NUMBER _____

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

Eugene Obosnenko
80 Frances Avenue
Sharon Hill, PA 19079

3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

80 Frances Avenue
Sharon Hill, PA 19079
and Temporary Job Sites

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Eugene Obosnenko

TELEPHONE NUMBER

(610) 461-4988

SUPPLY 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. See Attachment

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.

See Attachment

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

See Attachment

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

See Attachment

9. FACILITIES AND EQUIPMENT. See Attachment

10. RADIATION SAFETY PROGRAM

See Attachment

11. WASTE MANAGEMENT. Return to MFG

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

FEE CATEGORY

AMOUNT

ENCLOSED \$

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, 1946 82 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

Eugene Obosnenko

SIGNATURE

DATE

FOR NRC USE ONLY

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

1 2 3 9 8 2

ATTACHMENT

APPLICATION FOR MATERIAL LICENSE

5. RADIOACTIVE MATERIAL

Troxler Model 3430 Zezium 1037 - not to exceed (9) units
Amerisium 241 - not to exceed (10) units

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

Compaction of soil and black top, moisture content and density of construction materials at job sites.

7. INDIVIDUAL RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE?

Eugene Obosnenko, Troxler Nuclear Training on September 24, 1996

8. TRAINING FOR INDIVIDUALS WORKING IN RESTRICTED AREAS.

Individual will successfully complete training and trained emergency personnel designated by RSO in writing. Above records shall be maintained for 3 years after the individuals termination. Refresher training will be given annually by RSO and records will be maintained for 3 years.

9. FACILITIES AND EQUIPMENT.

Transport in a van only.

ATTACHMENT

APPLICATION FOR MATERIAL LICENSE (continued)

10. RADIATION SAFETY PROGRAM

- Supply TLD badges to all users (supply of badges is Troxler and exchanged every 3 months.
- For field, in case of accidents, a hospital (local) or police or fire company or civil defense
- Leak testing will be performed at 6 months intervals by Troxler
- Physical inventories shall be conducted at intervals not to exceed 6 months
- Records shall be maintained for 3 years from date of inventory
- No maintenance shall be performed which requires the source rod exposure will be done by mfg
- Transportation have and will maintain current copies of DOT and will develop and implement procedures for compliance with regulations
- Copies of our operating and emergency procedures shall be provided to gauge users before they begin using gauge
- Copies of operating and emergency procedures shall be made available at each job site (see attached)
- Sealed sources shall not be lowered more than 3 feet into ground
- Annual audit shall be performed as described in Appendix I of DG-0008
- Records regulations by 10 CFR 3.35 (G) will be maintained
- Duties and responsibilities of RSO shall be as described in HPPC of DG-0008 (attached)

TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

EUGENE OBOSNENKO

of

W. S. GARDNER AND ASSOC.

HAS SUCCESSFULLY COMPLETED THE TROXLER ELECTRONIC LABORATORIES, INC.
TRAINING COURSE FOR THE USE OF NUCLEAR TESTING EQUIPMENT.

SUBJECTS INCLUDED IN THIS COURSE WERE AS FOLLOWS:

Radiological Safety

- | | |
|--|---|
| 1. Principles and practices of radiation protection. | 5. Radioactivity measurement standardization and monitoring techniques and instruments. |
| 2. Leak testing procedures. | 6. Accident and incident procedures. |
| 3. Mathematics and calculations basic to the use and measurement of radioactivity. | 7. Procedures for nuclear gauge storage and transportation. |
| 4. Biological effects of radiation. | 8. General safety precautions. |

Gauge Operation

- | | |
|-------------------------|----------------------|
| 1. Instrument theory | 4. Field application |
| 2. Operating procedures | 5. Gauge calibration |
| 3. Maintenance | |

CERTIFICATE #: 074883

G. Kenneth Brown
G. KENNETH BROWN JR.
INSTRUCTOR

9/24/96
DATE

WILLIAM F. TROXLER
PRESIDENT

THIS DOCUMENT MAY BE USED TO VERIFY TRAINING REQUIRED BY 49CFR172, SUBPART H.

EUGENE OBOSNENKO

NAME

9/24/96

TRAINING DATE

Training materials used are part of the Troxler Electronic Laboratories, Inc. Nuclear Gauge Safety Training Program. Topics covered apply to recognition, labeling, preparation for transport, transportation, regulatory compliance, emergency response, personal protection, and accident avoidance only as they apply to radioactive White I and Yellow II portable gauging devices.

TROXLER ELECTRONIC LABORATORIES, INC.

3008 CORNWALLIS ROAD

P.O. BOX 12057

RESEARCH TRIANGLE PARK, NC 27709

G. KENNETH BROWN JR.
INSTRUCTOR

I hereby certify that the above named employee has been properly trained and tested in accordance with the requirements of 49CFR172, subpart H.

COMPANY OFFICIAL

9/24/98
EXPIRATION DATE

COMPANY AND ADDRESS



OFFICIAL RECORD COPY ML 10

123982

MODEL 3880 LEAK TEST KIT

For

Sealed Radioactive Sources

INSTRUCTION MANUAL



Troxler Electronic Laboratories, Inc.
Subsidiary; Troxler International, Ltd.
3008 Cornwallis Road P. O. Box 12057
Research Triangle Park, NC 27709 USA
Tel (919) 549-8661 Fax (919) 549-0761

STANDARD OPERATING AND EMERGENCY PROCEDURES

Operating Procedures

1. Before removing the gauge from its place of storage, check to make sure that the gauge source rod is in the shielded, locked position, then lock the transport case if possible.
2. Sign the gauge out in a log book, stating the dates of use, names of the authorized users who will be responsible for the gauge, and the temporary job sites where the gauge will be used.
3. Never leave the gauge unattended while in your custody.
4. Follow all applicable Department of Transportation (DOT) requirements when transporting the gauge.
5. Do not touch the source rod with your fingers, hands, or any part of your body, and always make sure the source rod is in the shielded position after each measurement is made.
6. Always wear your assigned thermoluminescent dosimeter (TLD) or film badge when using the gauge.
7. Never wear another person's TLD or film badge.

Emergency Procedures

If the source fails to return to the shielded position (e.g., as a result of being damaged) or if any other emergency or unusual situation arises (e.g., the gauge is struck by a moving vehicle, is dropped, or is in a vehicle involved in an accident):

1. Immediately secure the area around the gauge.
2. Prevent unauthorized personnel from entering the secured area.
3. If any heavy equipment is involved, detain the equipment until it is determined there is no contamination present.

NAME*	WORK PHONE NUMBER*	HOME PHONE NUMBER*
_____	_____	_____
_____	_____	_____
_____	_____	_____

* List (and update, as needed) the names and telephone numbers of the Radiation Safety Officer (RSO) or other knowledgeable licensee staff to be contacted in case of emergency.

5. Follow the directions provided by the person contacted in Step 4.
6. LICENSEE MANAGEMENT MUST:
 - 6.1 Arrange for a survey to be conducted as soon as possible by a knowledgeable person using appropriate radiation detection instrumentation. (This person could be a licensee employee using a survey meter located at the job site or a consultant.)

- 6.2 Make necessary notifications to local authorities; notify the NRC as required. (Even if not required to do so, you may report ANY incident to NRC by calling NRC's Emergency Operations Center at (301) 816-5100, which is staffed 24 hours a day and accepts collect calls. NRC notification is required when gauges containing licensed material are lost or stolen, and when gauges are damaged or involved in incidents that result in doses in excess of the dose limits in 10 CFR 20.2203. The attached memorandum from R.E. Cunningham, dated July 1, 1993, provides additional guidance.)
- 6.3 Consider the timeliness of reports to the NRC.
- 6.4 Review the reporting requirements, which are found in 10 CFR 20.2201-2203 and 10 CFR 30.50.

LICENSE FEE MANAGEMENT BRANCH, ARM
AND
REGIONAL LICENSING SECTIONS

```
: PROGRAM CODE: 03121  
: STATUS CODE: 3  
: FEE CATEGORY: -----  
: EXP. DATE: 0  
: FEE COMMENTS:  
: DECOM FIN ASSUR REQD: -  
: .
```

A. REGION

APPLICANT/LICENSEE: EUGENE DBOSNENKO
RECEIVED DATE: 961203
DOCKET NO: 3034306
CONTROL NO.: 123982
LICENSE NO.:
ACTION TYPE: NEW LICENSEE

AMOUNT: ~~-----~~
CHECK NO.: ~~-----~~

Reference 123981

SIGNED R. J. Brown
DATE 12/8/96

1. FEE CATEGORY AND AMOUNT: 3P \$550

AMENDMENT
RENEWAL
LICENSE

Log Jan 5
Remitter TOBOSNENK ASSOC
Check No. 1278
Amount \$ 550
Fee Category 3P
Type of Fee APP
Date Check Rec'd 1/27/99
Date Completed 1/27/99
By: SA

SIGNED

DATE _____

07 for 1/7/49