

MATERIALS LICENSE

Amendment No. 02

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.

302689

Licensee

1. Northwoods Land Surveying, Inc.

2. P.O. Box 758
816 Ashmun Street
Sault Ste. Marie, MI 49783In accordance with the letter dated
June 2, 19973. License Number 21-26165-01 is amended in
its entirety to read as follows:

4. Expiration Date April 30, 2001

5. Docket or
Reference No. 030-316346. Byproduct, Source, and/or
Special Nuclear Material7. Chemical and/or Physical
Form8. Maximum Amount that Licensee
May Possess at Any One Time
Under This License

A. Cesium-137

A. Sealed Source
(Troxler Dwg.
No. A-102112)A. No single source
to exceed 10
millicuries

B. Americium-241

B. Sealed source
(Troxler Dwg.
No. A-102451)B. No single source
to exceed 50
millicuries

9. Authorized Use:

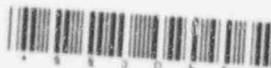
A. and B. To be used in Troxler Model 3400 series portable moisture/density gauges.

CONDITIONS

10. Licensed material may be stored at the licensee's facilities located at 816 Ashmun Street, Sault Ste. Marie, Michigan and may be used 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 Radiation Safety Officer for this license is Al E. Tester.

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**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

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12. Licensed material shall only be used by, or under the supervision and in the physical presence of, Al E. Tester 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 by the Radiation Safety Officer.
13. A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as specified by the certificate of registration referred to in 10 CFR 32.210.
- 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 3 months.
- C. In the absence of a certificate from a transferor indicating that a leak test has been made within 6 months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.
- D. Sealed sources 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 transferred 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.

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- E. The leak 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 in accordance with 10 CFR 30.50(b)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region III, ATTN: Chief, Nuclear Materials Safety Branch, 801 Warrenville Road, Lisle, Illinois 60532-4351. The report shall specify the source involved, the test results, and corrective action taken.
- F. The licensee is authorized to collect leak test samples for analysis by Troxler. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.
14. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
15. When performing tests at temporary job sites, the authorized user shall not leave the moisture/density gauge unattended. Upon completion of tests the device shall be locked in the licensee's vehicle or a secure building to prevent unauthorized use, loss, or theft.
16. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license.
17. The licensee is authorized to transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
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.

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20. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d) for establishing decommissioning financial assurance.
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 U.S. 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 January 10, 1996; and
- B. Letters dated February 26, 1996 and June 2, 1997.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date JUN 04 1997

By Michael F. Weber
Nuclear Materials Licensing Branch, Region III

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(FOR LFMS USE)
INFORMATION FROM LTS

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

Program Code: 03121
Status Code: 0
Fee Category: 3P
Exp. Date: 20010430
Fee Comments:
Decom Fin Assur Req'd: N

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: NORTHWOODS LAND SURVEYING, INC.
Received Date: 970602
Docket No: 3031634
Control No: 302689
License No: 21-26165-01
Action Type: Amendment

2. FEE ATTACHED

Amount: 300
Check No: 8957

3. COMMENTS

Signed
Date

S. Hersey

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered / ☒)

1. Fee Category and Amount: 3P \$300

2. Correct Fee Paid. / Application may be processed for:

Amendment ☒
Renewal ☐
License ☐

3. OTHER

Signed
Date

SL 6/5/97

JUN 10 1997

Log	<i>Chen 3 III</i>
Remitter	
Check No.	<i>8957</i>
Amount	<i>\$300</i>
Fee Category	<i>3P</i>
Type of Fee	<i>AMD</i>
Date Check Rec'd	<i>6/7</i>
Date Completed	<i>6/5/97</i>
By	<i>SL</i>

1997 JUN - 5 AM 11:41

NORTHWOODS, INC.

SURVEYORS - ENGINEERS

816 ASHMUN STREET, SUITE 1
P.O. BOX 758
SAULT STE. MARIE, MICHIGAN 49783
PHONE 906-632-1500
FAX 906-632-3220

June 2, 1997

United States Nuclear Regulatory Commission
Region III
801 Warrenville Road
Lisle, IL 60532-4351

RE: Amendment to License #21-26165-01

To Whom it May Concern:

We are requesting to make the following amendments to our current license:

I. Change in contact person. (Item 4)

Name of person to contact about this application/license shall be
Al E. Tester.

II. Change in individual responsible for radiation safety program and their
training and experience. (Item 7)

1. The name of the person who is designated to replace Thomas A. Deans as
Radiation Safety Officer (RSO) for this license is **Al E. Tester**.

All duties previously preformed by Thomas A. Deans shall now be
performed by Al E. Tester.

2. A copy of his Troxler Nuclear Gauge Training Certificate is attached
for your review. This certificate outlines the necessary subjects and
criteria included in this course that are required to meet the
criteria stated in Part 1 of Appendix D of the Draft Regulatory Guide
DG-0008. Al E. Tester has earned a high school diploma and a B.S.
degree from Lake Superior State College.
3. The RSO's duties and responsibilities will be those listed in Appendix
C of the draft Regulatory Guide DG-0008.

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JUN 03 1997

REGION III

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JUN 03 1997

III. Radiation Safety Program - Personnel monitoring equipment. (Item 10)

In reviewing our documents, there appears to be a mistake in the license renewal application regarding the type of personnel radiation monitoring equipment that the company has been using. The Company has been using a thermoluminescent dosimeter (TLD) to monitor employees not film badges as stated in the renewal application.

Our office authorized personnel will continue to utilize thermoluminescent dosimeter (TLD) when using gauges. Our thermoluminescent dosimeters (TLD) are supplied and monitored by:

Troxler Radiation Monitoring Services
Division of Troxler Electronic Laboratories, Inc.
P.O. Box 12057
Research Triangle Park, NC 27709

Our exchange frequencies for the thermoluminiscent dosimeter (TLD) is/will be every three months.

IV. Standard Operating and Emergency Procedures

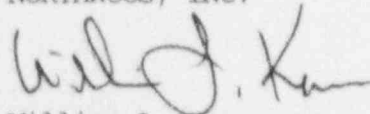
We wish to make the following change to the first paragraph in item 6 of Emergency Procedures:

6. As soon as possible, after the situation has been stabilized and is under control, notify Al E. Tester at 906/632-1500 (office) or 906/222-9105 (pager). Describe the present existing conditions and follow the instructions of the Radiation Safety Officer.

Enclosed, please find a check made out to the NRC for \$300.00, to cover the cost of amending the current license.

Thank you for your time and energy in reviewing our letter, please feel free to contact our office if you have any questions or need additional information.

Sincerely,
NORTHWOODS, INC.



William L. Karr
President

TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

AL E. TESTER

of

GOSLING CZUBAK 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 | |


INSTRUCTOR

FEBRUARY 28, 1989

DATE

Nº 26001

W.F. TROXLER

PRESIDENT

JUN 04 1997

William L. Karr, President
NorthWoods Land Surveying, Inc.
P.O. Box 758
816 Ashmun Street
Sault Ste. Marie, MI 49783

Dear Mr. Karr:

Enclosed is Amendment No. 02 to your NRC Material License No. 21-26165-01 in accordance with your request.

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 III office at (630) 829-9887 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. Unless your license has been 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. 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 listed on the license changes. (No fee is required if the location of byproduct material remains the same.)
3. In accordance with 10 CFR 30.36(b) and/or license condition, notify NRC, promptly, in writing, and request termination of the license when a decision is made to terminate all activities involving materials authorized under the license.
4. Request and obtain a license amendment before you:
 - a. Change Radiation Safety Officers;

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- 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.
5. 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 certifying official rather than a consultant.

You will be periodically inspected by 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. 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 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.

Sincerely,

Original Signed By
Michael F. Weber
Nuclear Materials Licensing Branch

License No.: 21-26165-01
Docket No.: 030-31634

Enclosure: Amendment No. 02

DOCUMENT NAME: M:\03031634.CL7

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NAME	MWEBER:jaw								
DATE	06/3/97								

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