

MATERIALS LICENSE

Amendment No. 04

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.

Licensee

1. Professional Service Industries, Inc.

2. 443 Commerce Lane, Suite 1
West Berlin, NJ 08091In accordance with the letter dated
July 11, 1996,3. License Number 29-28634-01 is amended in
its entirety to read as follows:

4. Expiration Date July 31, 2001

5. Docket or
Reference No. 030-321626. 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

B. Americium 241

A. Sealed sources

B. Sealed neutron sources

A. 1.0 curies

B. 5 curies

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 443 Commerce Lane, Suite 1, West Berlin, New Jersey 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. A. Licensed material shall be used by, or under the supervision and in the physical presence of, Anthony Kondysar 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.

B. Licensed material shall be used by, or under the supervision and in the physical presence of, individuals who have received the training described in application dated April 3, 1991 and letter dated May 29, 1991 and have been designated in writing by the Radiation Safety Officer.

C. The Radiation Safety Officer for this license is Eric L. Nelson.

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PDR ADOCK 03032162
C PDR

ML 10

OFFICIAL RECORD COPY

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number

29-28634-01

Docket or Reference Number

030-32162

Amendment No. 04

12. 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 manufacturer. 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.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number

29-28634-01

Docket or Reference Number

030-32162

Amendment No. 04

13. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
14. 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.
15. 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.
16. 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.
17. 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.
18. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
19. 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 February 15, 1990 (License No. 29-28488-01)
 - B. Letter dated June 28, 1990 with enclosures (License No. 29-28488-01)
 - C. Application dated April 3, 1991
 - D. Letter dated May 29, 1991
 - E. Letter dated June 1, 1993
 - F. Letter dated February 23, 1995
 - G. Letter dated July 11, 1996

For the U.S. Nuclear Regulatory Commission

Original Signed By:

By

John R. McGrath

Nuclear Materials Safety Branch
Region I

King of Prussia, Pennsylvania 19406

Date

JUL 30 1996

JUL 30 1996

John T. Thornton
Radiation Safety Director
Professional Service Industries, Inc.
510 East 22nd Street
Lombard, IL 60148

Dear Mr. Thornton:

This refers to your license amendment request. Enclosed with this letter is the amended license. Please note that as part of this amendment, in accordance with 10 CFR 30.36, effective February 15, 1996, the expiration date of your license has been extended by a period of five years. Your new expiration date is stated in Item 4 of the license.

Please review the enclosed document carefully and be sure that you understand and fully implement all the conditions incorporated into the amended license. 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.

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. 29-28634-01
Docket No. 030-32162
Control No. 123438

Enclosure:
Amendment No. 04

DOCUMENT NAME: R:\WPS\MLTR\L2928634.01

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

OFFICE	DNMS/RI	N	DNMS/RI				
NAME	McGrath						
DATE	07/29/96		07/ /96		07/ /96		07/ /96

OFFICIAL RECORD COPY

ML 10

July 11, 1996

U.S. Nuclear Regulatory Commission
Region I
475 Allendale Road
King of Prussia, Pennsylvania 19406

030-32162

Attention: Materials Licensing Section

Re: USNRC RAM License No. 29-28634-01
Amendment Request

Gentlemen:

Professional Service industries, Inc. (PSI) requests an amendment to U.S. Nuclear Regulatory Commission (NRC) Radioactive Materials (RAM) License No. 29-28634-01 to incorporate the following:

1. Please change the license address in Item 2. and authorized storage location in Condition 10. of the license to read:

443 Commerce Lane, Suite 1
West Berlin, New Jersey 08091

NOTE: The name of the municipality in which the facility is located has been changed from Berlin to West Berlin; PSI's Berlin facility (443 Commerce Lane, Suite 1, Berlin, New Jersey) has not relocated; however, the West Berlin facility is to be remodeled in the near future. (Attached is a copy of the [proposed] revised floorplan of the West Berlin facility.)

2. Mr. Eric L. Nelson, P.E. replaces Mr. Anthony J. Kondysar as Radiation Safety Officer (RSO) for the license. Mr. Nelson obtained a B.S. degree in Civil Engineering from the University of Illinois (1989), and is a registered Professional Engineer (P.E.) in the states of New Jersey (GE-39720), Pennsylvania (PE-050115-E), Illinois (062-049214), Indiana (PE19500266), and Wisconsin (31086). Mr. Nelson was certified as a moisture/density gauge operator in accordance with PSI's (USNRC approved) "in-house" moisture/density gauge operator radiation safety

123438

OFFICIAL RECORD COPY **ML 10**

JUL 15 1996

Information To Build On

USNRC RAM License No. 29-28634-01
July 11, 1996
Page Two

training program in October 1990, and has completed PSI's (USNRC approved) "in-house" Radiation Safety Officer (RSO)/Instructor training program in July 1991. Mr. Nelson previously served as Branch RSO of PSI's Joliet, Illinois facility, under the authorization of Illinois RAM License No. IL-01081-01. Mr. Nelson has been employed by PSI since February 1990, and currently serves as Branch Manager of PSI's West Berlin office. (Copies of Mr. Nelson's [current] résumé and radiation safety training certificates are attached.)

In accordance with PSI's 07/02/96 letter (copy attached) and 07/03/96 telephone conversation with Mr. John Sullivan (telcon 07/03/96, J. Sullivan), it is understood that the expiration date of USNRC RAM License No. 29-28634-01 will be extended to July 31, 2001 upon issuance of the requested amendment.

Enclosed is a check in the amount of \$300.00 to cover the amendment processing fee.

Your attention to this matter is appreciated. Should you have any questions, please contact me at 708/691-1490 (x 320).

Sincerely,

A handwritten signature in black ink, appearing to read "John T. Thornton". The signature is fluid and cursive, with the first name "John" being the most prominent part.

John T. Thornton
Radiation Safety Director

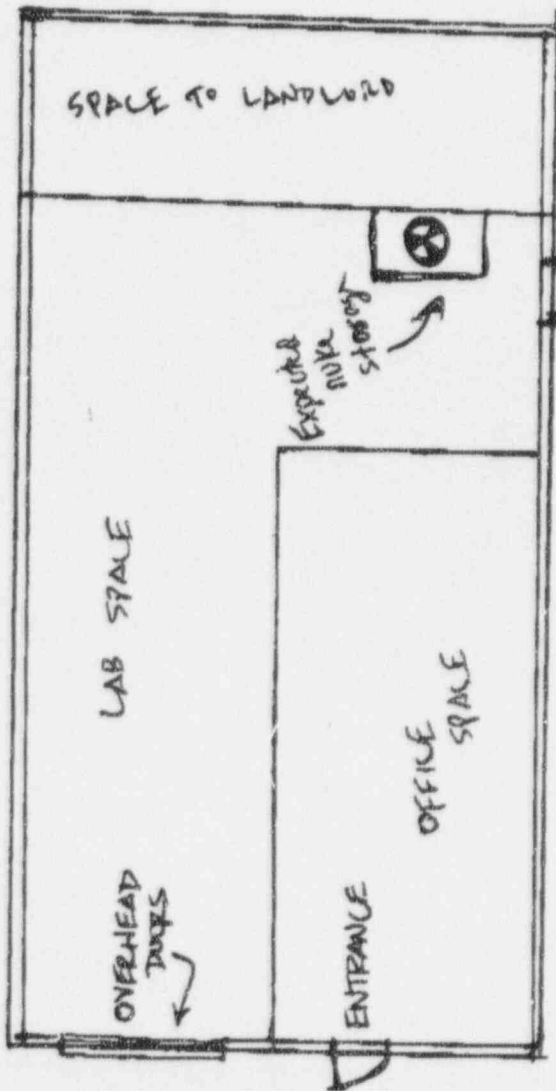
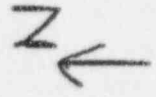
JTT/

Attachment(s) - five (as stated)

Enclosure(s) - one (as stated)

cc: L. Ludvigsen - PSI, Edison, NJ
E. Nelson - PSI, West Berlin, NJ
R. Burns - PSI, Canton, MA
File

Professional Service Industries



not to scale

PROJECT NAME

Berlin, NJ

PROJECT NO.

2

DATE

7/11/96

Nuclear Density Gauge
Proposed storage after

Remodel

Eric L. Nelson, P.E. Branch Manager

Education

Bachelor of Science, 1989, Civil Engineering
University of Illinois, Champaign-Urbana

Registration/Certification

Professional Engineer - New Jersey (GE-39720)
Professional Engineer - Pennsylvania (PE-050115-E)
Professional Engineer - New York (pending reciprocity)
Professional Engineer - Delaware (pending reciprocity)
Professional Engineer - Illinois (062-049214)
Professional Engineer - Indiana (PE19500266)
Professional Engineer - Wisconsin (31086)
IDOT Bituminous Proportioning Engineer #320-01-91
Certified Nuclear Density Gauge Operator
Radiation Safety Officer
EPA AHERA Building Inspector
OSHA 40 Hour Hazardous Waste Worker # 5PSI 43503
OSHA 8 Hour Supervisor # 5PSI 43544

Affiliation

American Society of Civil Engineers
American Public Works Association

Experience

Professional Service Industries, inc. - Berlin, NJ

Branch Manager Construction/Geotechnical Services (9/95 - present)

Responsible for all aspects of operation of the Berlin Branch, providing materials testing, construction inspection and geotechnical engineering services for the eastern Pennsylvania and Southern New Jersey Area. Including: management of personnel & equipment, marketing of professional services, training, engineering consultations, report preparation & report review. Including: management of personnel & equipment, marketing of professional services, training, engineering consultation, report preparation & report review.

Professional Service Industries, Inc. - Hillside, IL

Department Manager Geotechnical Services (12/93 - 9/95)

Responsible for the marketing, performance and profitability of Geotechnical Engineering Services and Environmental Drilling for the Chicago Metro and Downtown area. Including: management & training of personnel, management of equipment/drill rigs/laboratory, in depth proposal preparation and presentation, engineering consultations & troubleshooting, environmental drilling, report preparation & report review. In depth contact with owners, architects, design engineers and contractors.

Eric L. Nelson, P.E.
Branch Manager
Page 2

Professional Service Industries, Inc. - Joliet, IL

Branch Manager Construction/Geotechnical Services (8/90 - 12/93)

Responsible for all aspects of operation of the Joliet Branch, providing materials testing, construction inspection, geotechnical engineering and environmental assessment services for the South Chicago Suburbs. Including: management of personnel & equipment, marketing of professional services, training, engineering consultations, report preparation & report review.

Professional Service Industries, Inc. - Milwaukee, WI

Staff Engineer Construction Services (2/90 - 8/90)

Responsible for the coordination and management of field construction inspection services and the management of laboratory services. Including: training of field & laboratory technicians, marketing of professional services, report preparation, field "troubleshooting" and remediation recommendations.

RADIATION SAFETY TRAINING PROGRAM FOR DENSITY GAUGES

THIS IS TO CERTIFY THAT

ERIC NELSON

OF

Professional Service Industries, Inc.

Has Successfully Completed the Radiation Safety Training Program for Moisture/Density Gauges.

Subjects included in the course were as follows:


Gauge Operation

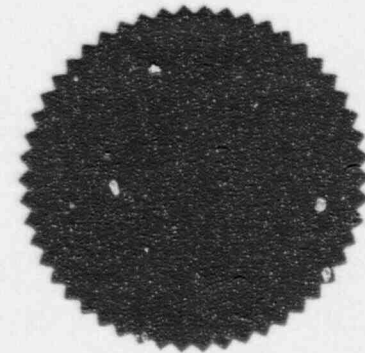
1. Instrument Theory
2. Operating Procedures
3. Maintenance
4. Field Use

Radiation Safety

1. Principles of Radiation Safety
2. Shipping and Storage
3. Radiation dosage calculations
4. Radiation detection and measurement
5. Biological effects
6. Emergency Procedures

10/16/90


Corporate Radiation Safety Director



Professional Service Industries, Inc.

RADIATION SAFETY TRAINING PROGRAM

FOR

RADIATION SAFETY OFFICERS

FOR

MOISTURE/DENSITY GAUGES

THIS IS TO CERTIFY THAT

ERIC NELSON

Has Successfully Completed the Approved Corporate Radiation Safety
Training Program for Radiation Safety Officers/Instructors.

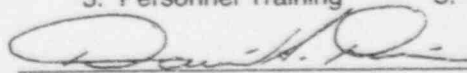
Subjects included in the course were as follows:

REGULATIONS:

1. Security and Control
2. License Conditions
3. Records
4. Transportation
5. Personnel Training

RADIATION SAFETY

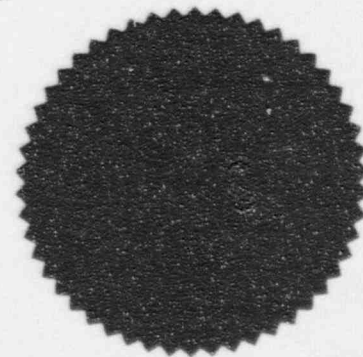
1. Principles of Radiation Safety
2. Radiation Dosage Calculations
3. Radiation Detection and Measurement
4. Biological Effects
5. Emergency Procedures



Corporate Radiation Safety Director

7/10/91

Date



July 2, 1996

U.S. Nuclear Regulatory Commission
Region I
475 Allendale Road
King of Prussia, Pennsylvania 19406

Attention: Materials Licensing Section

Re: USNRC RAM License No. 29-28634-01
Extension of License Expiration Date

Gentlemen:

In accordance with letters dated April 8, 1996 and May 6, 1996 (copies attached), it is understood that USNRC amended its regulations (10 CFR Parts 30, 40, and 70) on January 16, 1996 to extend the expiration date of certain byproduct, source, and special nuclear material licenses with expiration dates after July 1, 1995 by five (5) years (61 FR 1109). PSI requests that the expiration date of USNRC RAM License No. 29-28634-01, issued to PSI's Edison, New Jersey facility, be extended to July 31, 2001.

It is understood that the license is required to be amended to reflect any change(s) in the license or radiation safety program.

PSI requests that PSI's application for extension of the expiration date of USNRC RAM License No. 29-28634-01 be deemed "timely filed" to allow for the continuation of licensed activities.

Your attention to this matter is greatly appreciated. Should you have any questions, please do not hesitate to contact me at 708/691-1490 (x 320).

Sincerely,



John T. Thornton
Radiation Safety Director

Information To Build On

July 2, 1996

U.S. Nuclear Regulatory Commission
Region I
475 Allendale Road
King of Prussia, Pennsylvania 19406

Attention: Materials Licensing Section

Re: USNRC RAM License No. 29-28634-01
Extension of License Expiration Date

Gentlemen:

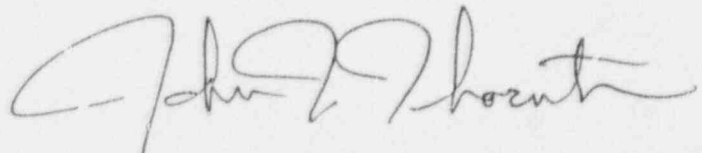
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John T. Thornton
Radiation Safety Director

Information To Build On

USNRC RAM License No. 29-28634-01

July 2, 1996

Page Two

JTT/

Attachment(s) - 2 (as stated)

cc: L. Ludvigsen - PSI, Edison, NJ
R. Burns - PSI, Canton, MA
File

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM
AND
REGIONAL LICENSING SECTIONS

(FOR LFMS USE)
INFORMATION FROM LTS

PROGRAM CODE: 03121
STATUS CODE: 0
FEE CATEGORY: 3P
EXP. DATE: 20010731
FEE COMMENTS: -----
DECOM FIN ASSUR REQD: N
.....

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED

APPLICANT/LICENSEE: PROFESSIONAL SERVICE INDUSTRIES, INC
RECEIVED DATE: 960715
DOCKET NO: 3032162
CONTROL NO.: 123438
LICENSE NO.: 29-28634-01
ACTION TYPE: AMENDMENT

2. FEE ATTACHED

AMOUNT: 300.00
CHECK NO.: 926724

3. COMMENTS

SIGNED
DATE

M. A. Carline
7/16/96

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED X)

1. FEE CATEGORY AND AMOUNT: 3P

2. CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR:

AMENDMENT -----
RENEWAL -----
LICENSE -----

3. OTHER -----

SIGNED
DATE

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Log	<u>July 9</u>
Remitter	
Check No.	<u>926724</u>
	<u>83.00</u>
	<u>3P</u>
	<u>Amc</u>
Check Rec'd	<u>8/1/96</u>
Date Completed	
By	<u>BA</u>

1996 JUL 22 PM 1:57