



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

December 31, 2007

Docket No. 03035647  
Control No. 141295

License No. 12-16941-04

John T. Thornton  
Safety Director/Corporate RSO  
Professional Service Industries, Inc.  
1901 South Meyers Road, Suite 400  
Oakbrook, IL 60181

SUBJECT: PROFESSIONAL SERVICE INDUSTRIES, INC., LICENSE AMENDMENT,  
CONTROL NO. 141295

Dear Mr. Thornton:

This refers to your license amendment request dated August 17, 2007. Enclosed with this letter is the amended license.

**The amended license is written in accordance with current NRC policy and includes revised conditions. 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) 337-5239, so that we can provide appropriate corrections and answers.

An environmental assessment for this action is not required, since this action is categorically excluded under 10 CFR 51.22(c)(14).

Current NRC regulations and guidance are included on the NRC's website at [www.nrc.gov](http://www.nrc.gov); select **Site Map**; then scroll down to **Regulations, Guidance, and Communications**. You may also obtain these documents by contacting the Government Printing Office (GPO) toll-free at 1-866-512-1800. The GPO is open from 7:00 a.m. to 8:00 p.m. EST, Monday through Friday (except Federal holidays).

Thank you for your cooperation.

Sincerely,

***Original signed by Sattar Lodhi, Ph.D.***

Sattar Lodhi, Ph.D.  
Senior Health Physicist  
Materials Security and Industrial Branch  
Division of Nuclear Materials Safety

Enclosure:  
Amendment No. 04

DOCUMENT NAME: C:\FileNet\ML073650387.wpd

**SUNSI Review Complete: SLodhi**

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NAME	SLodhi /SL/						
DATE	12/31/07						

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**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.

<p style="text-align: center;">Licensee</p> <p>1. Professional Service Industries, Inc.</p> <p>2. 1901 South Meyers Road, Suite 400 Oakbrook, Illinois 60181</p>	<p>In accordance with the letter dated August 17, 2007,</p> <p>3. License number 12-16941-04 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date March 31, 2011</p> <hr/> <p>5. Docket No. 030-35647 Reference No. 37-00276-29</p>
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<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Cesium 137</p> <p>B. Americium 241</p> <p>C. Cesium 137</p>	<p>7. Chemical and/or physical form</p> <p>A. Sealed sources specified in the respective certificates of registration of the devices listed in Item 9. below.</p> <p>B. Sealed neutron sources specified in the respective certificates of registration of the devices listed in Item 9. below.</p> <p>C. Sealed Sources (Amersham Model 77302)</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. 1 curie total and no single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State</p> <p>B. 4 curies total and no single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State</p> <p>C. 165 millicuries per source and 330 millicuries total</p>
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9. Authorized use:

A. and B. For possession incident to providing commercial service for other persons as defined in 10 CFR 20.1003 in Troxler Electronic Laboratories, Inc., Campbell Pacific Nuclear, Corp., Humboldt Scientific, Inc., InstroTek, Inc., or Seaman Nuclear Corporation devices, that have been registered either with U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or with an Agreement State.

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- C. In Amersham Model 773 calibration devices for the calibration of survey instruments as a service for other persons as defined in 10 CFR 20.1003.

**CONDITIONS**

10. Licensed material may be used or stored only at the licensee's facilities located at 850 Poplar Street, Pittsburgh, Pennsylvania.
11. Licensed material shall only be used by, or under the supervision and in the physical presence of, individuals who have received the training described in application dated October 31, 2000 and letter dated February 6, 2001, and have been designated in writing by the Radiation Safety Officer.
12. The Radiation Safety Officer for this license is John T. Thornton.
13. A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State.
- B. In the absence of a certificate from a transferor indicating that a leak test has been made within the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State, prior to the transfer, a sealed source received from another person shall not be put into use until tested and the test results received.
- C. Sealed sources need not be tested if they 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 shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- D. The leak test shall be capable of detecting the presence of 0.005 microcurie (185 becquerels) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie (185 becquerels) or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(c)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations.
- E. Tests for leakage and/or contamination, limited to leak test sample collection, shall be performed by the licensee or by other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services. The licensee is not authorized to perform the analysis; analysis of leak test samples must be performed by persons specifically licensed by U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.

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- F. Records of leak test results shall be kept in units of microcuries.
14. Sealed sources containing licensed material shall not be opened by the licensee.
15. The licensee shall conduct a physical inventory every six months, or at other intervals approved by the U.S. Nuclear Regulatory Commission, to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 5 years from the date of each inventory and shall include the radionuclides, quantities, manufacturer's name and model numbers, and the date of the inventory.
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 or storage, or when not under the direct surveillance of an authorized user.
17. The licensee may detach the source or source rod from gauges for the purpose of cleaning, maintenance, or repair of the gauges in accordance with procedures outlined in the letter dated February 6, 2001.
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 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 October 31, 2000 (ML003768818)
- B. Letter dated January 25, 2001 (ML010320349)
- C. Letter dated February 6, 2001 (ML010670255)
- D. Calibration procedures received February 27, 2001 (ML010590049)

For the U.S. Nuclear Regulatory Commission

Date December 31, 2007

By Original signed by Sattar Lodhi, Ph.D.  
Sattar Lodhi, Ph.D.  
Materials Security and Industrial Branch  
Division of Nuclear Materials Safety  
Region I  
King of Prussia, Pennsylvania 19406