



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

May 23, 2005

Docket No. 030-05285  
Control No. 136313

License No. 29-02843-01

Michael J. Wallo  
Manager - Maplewood Testing Services  
PSEG Services Corporation  
200 Boyden Avenue  
Maplewood, NJ 07040

**SUBJECT: PSEG SERVICES CORPORATION, ISSUANCE OF LICENSE RENEWAL,  
CONTROL NO. 136313**

Dear Mr. Wallo:

This refers to your request for renewal of your NRC license. Enclosed with this letter is the renewed license. 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) 337-5239, so that we can provide appropriate corrections and answers.

The NRC expects licensees to conduct their programs with meticulous attention to detail and high standards of compliance. Because of the serious consequences to employees and the public that can result from failure to comply with NRC requirements, you must conduct your program according to NRC regulations, the conditions of your NRC license, and the representations made in your application. 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 the NRC in writing of any change in mailing address.
3. In accordance with 10 CFR 30.36(d), notify the 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 acquire or possess and use authorized material.
4. Request and obtain a license Amendment before you:
  - a) change Radiation Safety Officers;

- b) order byproduct material in excess of the amount, or radionuclide, or form different than authorized on the license; or
  - c) add or change the areas of use, or addresses of use identified in the license application or on the license; or
  - d) change the name or ownership of your organization.
5. Submit a complete renewal application 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.

In addition, please note that NRC Form 313 requires the applicant, by 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 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 NUREG 1600, "General Policy and Procedure for NRC Enforcement Actions" (Enforcement Policy).

*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 available at the NRC Web sites listed below or by contacting the Government Printing Office (GPO) toll-free at 1-888-293-6498. The GPO is open from 7:00 a.m. to 9:00 p.m. EST, Monday through Friday (except Federal holidays).

Thank you for your cooperation.

Sincerely,

***Original signed by David J. Collins***

David J. Collins  
Health Physicist  
Security and Industrial Branch  
Division of Nuclear Materials Safety

M. Wallo  
PSEG Services Corporation

3

Enclosure:  
Amendment No. 27

NRC Web site addresses

NRC regulations

<http://www.nrc.gov/reading-rm/doc-collections/cfr/>

Licensing guidance

<http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1556/>

General Policy and Procedure for NRC Enforcement Actions

<Http://www.nrc.gov/what-we-do/regulatory/enforcement/enforc-pol.pdf>

206 of the Energy Reorganization Act of 1974

<http://www.nrc.gov/who-we-are/governing-laws.html>

cc:

Bruce P. Hicks, Radiation Safety Officer

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DATE	5/23/2005							

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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. PSEG Services Corporation Maplewood Testing Services</p> <p>2. 200 Boyden Avenue Maplewood, New Jersey 07040</p>	<p>In accordance with the application dated January 27, 2005,</p> <p>3. License No. 29-02843-01 is renewed in its entirety to read as follows:</p> <hr/> <p>4. Expiration date May 31, 2015</p> <hr/> <p>5. Docket No. 030-05285 Reference No.</p>
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<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Any byproduct material with Atomic Numbers 1 through 83</p> <p>B. Iron 55</p> <p>C. Cadmium 109</p> <p>D. Cesium 137</p> <p>E. Americium 241</p> <p>F. Nickel 63</p>	<p>7. Chemical and/or physical form</p> <p>A. Any</p> <p>B. Sealed sources (Texas Nuclear Model 696-696782 and AEA Model IEC.D1)</p> <p>C. Sealed source (Texas Nuclear Model 696-696872; AEA Model CUC.D1 and IPL Model XFB-3)</p> <p>D. Sealed sources (Humboldt Model 2200064)</p> <p>E. Sealed neutron sources (Humboldt Model 2200067; TN 696-696873, 696-696863, 696-696803)</p> <p>F. Sealed sources or plated foils ( HP Models F6573, F65777, Conco Model N092)</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. Not to exceed 100 microcuries per radionuclide and 10 millicuries total</p> <p>B. 45 millicuries</p> <p>C. 10 millicuries</p> <p>D. 100 millicuries</p> <p>E. 500 millicuries</p> <p>F. 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>
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**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
29-02843-01Docket or Reference Number  
030-05285

Amendment No. 27

## 9. Authorized use:

- A. For use in calibration of instruments and possession incidental to performing leak tests of Public Service Electric and Gas Company sealed sources.
- B. and C. For use in Texas Nuclear Model 9200 series devices and Source Housing Model 9277 for x-ray fluorescence analysis of alloys.
- C. and E. For use in Texas Nuclear Model 9200 series devices and Source Housing Model 9266 for x-ray fluorescence analysis of alloys.
- D. and E. For analysis of physical properties of materials in Humboldt Scientific, Inc Model 5001 portable gauges which have been registered pursuant to 10 CFR 32.210 or an equivalent Agreement State regulation.
- F. For use in Conco Fluorotracer Model 101 and/or HP Model 5890 and Perkin-Elmer Autosystem for tracer gas determination or gas chromatography.

  
CONDITIONS

- 10. A. Licensed material listed in items 6.A and 6.F may be used only at the licensee's facilities located at 200 Boyden Avenue, Maplewood, New Jersey.
- B. Licensed material listed in items 6.B through 6.E may be used at the licensee's facilities located at 200 Boyden Avenue, Maplewood, New Jersey and 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.

If the jurisdiction status of a Federal facility within an Agreement State is unknown, the licensee should contact the Federal agency controlling the job site in question to determine whether the proposed job site is an area of exclusive Federal jurisdiction. Authorization for use of radioactive materials at job sites in Agreement States not under exclusive Federal jurisdiction shall be obtained from the appropriate state regulatory agency.

- 11. A. Licensed material in Item 6. A. shall be used by or under the supervision of Bruce P. Hicks
- B. Licensed material in Item 6. B, C and E. shall be used by or under the supervision of Ray Terek, John Szesko or Minh Tran.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
29-02843-01Docket or Reference Number  
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Amendment No. 27

- C. Licensed material in Item 6. D and E shall be used by, or under the supervision of and physical presence of Phil Conte, John Szesko, Mark Jackson, Carter Hall or Dave Despotovich 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.
- D. Licensed material in Item 6. F. shall be used by or under the supervision of Victor Simpson, Gary Floystadt, Kenrick Ross or Arnulfo Quinto.
12. The Radiation Safety Officer for this license is Bruce P. Hicks.
13. 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.
14. Sealed sources or source rods containing licensed material shall not be opened or sources removed or detached from source rods or gauges by the licensee, except as specifically authorized by this license.
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. 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. Notwithstanding Paragraph A of this Condition, sealed sources designed to primarily 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 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.
- D. Sealed sources need not be tested if they contain only hydrogen-3; or they contain only a radioactive gas; or the half-life of the isotope is 30 days or less; or they contain not more than 100 microcuries of beta- and/or gamma-emitting material or not more than 10 microcuries of alpha-emitting material.
- E. 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.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License Number  
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- F. 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.
- G. Tests for leakage and/or contamination, including leak test sample collection and analysis, 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.
- H. Records of leak test results shall be kept in units of microcuries and shall be maintained for 5 years.
17. 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.
18. Any cleaning, maintenance, or repair of the gauges that requires detaching the source or source rod from the gauge shall be performed only by the manufacturer or by other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
19. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
20. 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 27, 2005 (ML050310302)  
B. Letter dated April 15, 2005 (ML051160045)

For the U.S. Nuclear Regulatory Commission

***Original signed by David J. Collins***

Date May 23, 2005

By \_\_\_\_\_

David J. Collins  
Security and Industrial Branch  
Division of Nuclear Materials Safety  
Region I  
King of Prussia, Pennsylvania 19406-1415