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

March 11, 2008

Docket No. 03012596 License No. 45-17344-01
Control No. 141925

Lee S. Anthony, Jr.
Physicist/Radiation Safety Officer
Physics Associates, LLC
5346 Peters Creek Road
Roanoke, VA 24019

SUBJECT: PHYSICS ASSOCIATES, LLC, LICENSE AMENDMENT, CONTROL NO. 141925

Dear Mr. Anthony:

This refers to your license amendment request. Enclosed with this letter is the amended 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) 337-5239, 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; select **Nuclear Materials; Medical, Academic, and Industrial Uses of Nuclear Material;** then **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 Jenny Johansen

Jenny Johansen
Health Physicist
Materials Security and Industrial Branch
Division of Nuclear Materials Safety

Enclosure:
Amendment No. 10

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SUNSI Review Complete: JJohansen
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Amendment No. 10

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.

Licensee	
1. Physics Associates, L.L.C.	In accordance with the letter dated February 12, 2007, 3. License number 45-17344-01 is amended in its entirety to read as follows:
2. 5346 Peters Creek Road Roanoke, Virginia 24019	4. Expiration date November 30, 2012 5. Docket No. 030-12596 Reference No.

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. Any byproduct material	A. Analytical samples	A. As needed
B. Any byproduct material with atomic numbers 1 through 83	B. Sealed Sources (AEA Technology/QSA Model SIA.20)	B. 50 millicuries per source and 100 millicuries total
C. Cesium 137	C. Sealed sources (AEA Technology/QSA Model 72602)	C. 100 millicuries per source

9. Authorized use:

A. Taking of, and analysis of, samples as a service for other persons as defined in 10 CFR 20.1003.

B. As reference sources for calibration of instruments as a service for other persons as defined in 10 CFR 20.1003.

C. In an AEA Technology/QSA (formerly Technical Operations, Inc.) Model 726 Calibrator for calibration of instruments for other persons as defined in 10 CFR 20.1003.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number
45-17344-01

Docket or Reference Number
030-12596

Amendment No. 10

CONDITIONS

10. Licensed material may be used or stored at the licensee's facilities located at 5346 Peters Creek Road, Suite C, Roanoke, Virginia, 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, including areas of exclusive Federal jurisdiction within Agreement States.

    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. The Radiation Safety Officer for this license is Lee S. Anthony, Jr.

12. Licensed material shall be used by, or under the supervision and in the physical presence of, Lee S. Anthony, Ph.D., Lee S. Anthony, Jr., Nicholas L. Graham, Michael W. Olex, or individuals who have received the training described in the application dated March 19, 1992, and have been approved in writing by the Radiation Safety Officer. The licensee shall maintain records of individuals designated as users and their qualifications for five years following the last use of licensed material by the individual.

13. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.

14. A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed six months or at 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.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number
45-17344-01

Docket or Reference Number
030-12596

Amendment No. 10

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.

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.

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. For each sealed source used by the licensee for calibration of instruments for radiation protection purposes, the license shall ensure that the apparent source activity or the exposure rate at a given distance is traceable by documented measurements to a standard certified within five percent (5%) accuracy by the National Institute of Standards and Technology.

17. Prior to use of the calibration device at a temporary location, the licensee shall determine the boundary of the restricted area required for exposure of the source for calibration and shall document by radiation survey that the radiation levels at the boundary are within 10 CFR Part 20 limits.

18. The licensee shall maintain current logs, which be kept available for three years from the date of the recorded event, for inspection by the Commission at the address specified in Condition 10, showing for the calibration device the following information:

A. The manufacturer and model number of the device in which the sealed source is located;

B. the identity of the authorized user to whom assigned, and;

C. The location of the customer site where used and the dates of use.

License Number
45-17344-01

Docket or Reference Number
030-12596

Amendment No. 10

MATERIALS LICENSE
SUPPLEMENTARY SHEET

19. The licensee shall furnish to customers a report of each calibration performed and the report shall contain at least the information specified in the letter dated November 113, 2002. The licensee shall also maintain records of calibrations performed for customers in accordance with specific applicable regulations (for example, 10 CFR Parts 20 and 35).

20. Replacement and disposal of the sealed source contained in the calibrations device shall be performed only by the device manufacturer or other persons specifically authorized by the Commission or an Agreement State to perform such services.

21. In addition to the possession limits in Condition 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d), 10 CFR 40.36(b) or 10 CFR 70.25(d).

22. Each calibration device shall have a lock or outer locked container designed to prevent unauthorized or accidental removal of the sealed source from its shielded position. The calibration device or its container must be locked when in transport or storage, or when not under the direct surveillance of an authorized user.

23. The licensee is authorized to hold byproduct material with a physical half-life of less than or equal to 120 days for decay-in-storage before disposal without regard to its radioactivity if the licensee:

    A. Monitors byproduct material at the surface before disposal and determines that its radioactivity cannot be distinguished from the background radiation level with an appropriate radiation detection survey meter set on its most sensitive scale and with no interposed shielding; and

    B. Removes or obliterates all radiation labels, except for radiation labels on materials that are within containers and that will be managed as biomedical waste after they have been released from the licensee; and

    C. Maintains records of the disposal of licensed materials for 3 years. The record must include the date of disposal, the survey instrument used, the background radiation level, the radiation level measured at the surface of each waste container, and the name of the individual who performed the disposal.

24. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

License Number
45-17344-01

Docket or Reference Number
030-12596

Amendment No. 10

MATERIALS LICENSE
SUPPLEMENTARY SHEET

25. 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.	Letter dated January 25, 1982	ML052920475
B.	Application dated March 19, 1992	ML052930470
C.	Letter dated June 19, 2000	ML003725551
D.	Letter dated May 28, 2002	ML021550017
E.	Letter dated November 13, 2002	ML023220646
F.	Letter dated September 16, 2005	ML052640496
G.	Letter dated January 23, 2007	ML070250404
H.	Letter dated November 16, 2007	ML073320425
I.	Letter dated February 12, 2008	ML080650673

For the U.S. Nuclear Regulatory Commission

Date March 11, 2008

By ***Original signed by Jenny Johansen***

Jenny Johansen
Materials Security and Industrial Branch
Division of Nuclear Materials Safety
Region I
King of Prussia, Pennsylvania 19406-1415