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COWAN ASSOCIATES, INC.

Serving Business, Municipalities & Industry Since 1958

December 18, 2009

br 3

Richard S. Cowan, PE (1910-1997)  
James R. Leister, PE/PLS (1936-2006)  
William D. Kee, PE (*Retired*)

Johann F. Szautner, PE/PLS  
Todd R. Myers, PLS  
Charles R. Tomko, PE  
Scott P. McMackin, PE  
Michael R. Smith, PE

Licensing Assistance Section  
Nuclear Materials Safety Branch  
U.S. Nuclear Regulatory Commission, Region I  
475 Allendale Road  
King of Prussia, PA 19406-1415

Subject: License No. 37-30547-01  
Termination of Materials License  
CAI 99900

03035285

RECEIVED  
REGION I  
DEC 22 PM 12:57

Ladies and Gentlemen:

Cowan Associates, Inc. is requesting the termination of our Materials License issued by the USNRC, effective December 18, 2009. Enclosed please find a completed NRC Form 314. Cowan Associates, Inc. USNRC License 37-30547-01 expires on December 31, 2009.

At the present time, Cowan Associates, Inc. possesses a Material License issued by the Commonwealth of Pennsylvania, License No. PA-1372 (copy attached to Form 314), and will continue to operate under the terms and conditions of this license within the Commonwealth of Pennsylvania.

Thank you for your cooperation with this matter. Should you require additional information, please contact my office at Extension 118.

Very truly yours,

COWAN ASSOCIATES, INC.

Charles R. Tomko, P.E.  
Radiation Safety Officer

CRT:jle

Enclosures

cc w/enc.: Mr. Michael R. Smith, P.E.

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NUCLEAR MATERIALS-002

(7-1998)  
10 CFR 30.36(c)(1)(iv)  
10 CFR 40.42(c)(1)(iv)  
10 CFR 70.38(c)(1)(iv)

Estimated burden per response to comply with this mandatory information collection request: 30 minutes. This submittal is used by NRC as part of the basis for its determination that the facility has been cleared of radioactive material before the facility is released for unrestricted use. Forward comments regarding burden estimate to the Records Management Branch (T-6 F33), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, and to the Paperwork Reduction Project (3150-0028), Office of Management and Budget, Washington, DC 20503. If an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

**CERTIFICATE OF DISPOSITION OF MATERIALS**

INSTRUCTIONS: ALL ITEMS MUST BE COMPLETED - PRINT OR TYPE  
SEND THE COMPLETED CERTIFICATE TO THE NRC OFFICE SPECIFIED ON THE REVERSE

## LICENSEE NAME AND ADDRESS

Cowan Associates, Inc.  
120 Penn-Am Drive  
P.O. Box 949  
Quakertown, PA 18951

## LICENSE NUMBER

37-30547-01

03035285

## LICENSE EXPIRATION DATE

December 31, 2009

**A. MATERIALS DATA** (Check one and complete as necessary)

THE LICENSEE OR ANY INDIVIDUAL EXECUTING THIS CERTIFICATE ON BEHALF OF THE LICENSEE CERTIFIES THAT:  
(Check and/or complete the appropriate item(s) below.)

- ☐ 1. NO MATERIALS HAVE EVER BEEN PROCURED OR POSSESSED BY THE LICENSEE UNDER THIS LICENSE.
- OR
- ☒ 2. ALL ACTIVITIES AUTHORIZED BY THE LICENSE HAVE CEASED AND ALL MATERIALS PROCURED AND/OR POSSESSED BY THE LICENSEE UNDER THE LICENSE NUMBER CITED ABOVE HAVE BEEN DISPOSED OF IN THE FOLLOWING MANNER. (If additional space is needed, use the reverse side or provide attachments.)

Describe specific material transfer actions and, if there were radioactive wastes generated in terminating this license, the disposal actions including the disposition of low-level radioactive waste, mixed waste, Greater-than-Class-C waste, and sealed sources, if applicable.

For transfers, specify the date of the transfer, the name of the licensed recipient, and the recipient's NRC license number or Agreement State name and license number. Activities authorized by USNRC License ceased on 12/18/2009, and activities will be conducted as authorized by Cowan Associates, Inc. Materials License #PA-1372 authorized by the Commonwealth of Pennsylvania (copy of PA-1372 is attached).

If materials were disposed of directly by the licensee rather than transferred to another licensee, licensed disposal site or waste contractor, describe the specific disposal procedures (e.g., decay in storage).

**B. OTHER DATA**

- ☒ 1. OUR LICENSE HAS NOT YET EXPIRED; PLEASE TERMINATE IT.
2. A RADIATION SURVEY WAS CONDUCTED BY THE LICENSEE TO CONFIRM THE ABSENCE OF LICENSED RADIOACTIVE MATERIALS AND TO DETERMINE WHETHER ANY CONTAMINATION REMAINS ON THE PREMISES COVERED BY THE LICENSE.

☒ NO (Attach explanation) Materials not transferred, possession as authorized by  
☐ YES, THE RESULTS (Check one) Materials License PA-1372  
☐ ARE ATTACHED, or  
☐ WERE FORWARDED TO NRC ON (Date)

3. THE PERSON TO BE CONTACTED REGARDING THE INFORMATION PROVIDED ON THIS FORM

## NAME

Charles R. Tomko

## TELEPHONE NUMBER

(Include Area Code)

215-536-7075  
Ext. 118

4. MAIL ALL FUTURE CORRESPONDENCE REGARDING THIS LICENSE TO  
Charles R. Tomko, P.E, Vice President  
Cowan Associates, Inc.  
P.O. Box 949, Quakertown, PA 18951

**CERTIFYING OFFICIAL**

I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT

## PRINTED NAME AND TITLE

Charles R. Tomko  
Radiation Safety Officer

## SIGNATURE



## DATE

12/18/2009

WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECTS. 18 U.S.C. SECTION 1001 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTIONS.

**FILE CERTIFICATES AS FOLLOWS:**

**IF YOU ARE A DISTRIBUTOR OF EXEMPT PRODUCTS, SEND TO:**

DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY  
OFFICE OF NUCLEAR MATERIAL SAFETY AND SAFEGUARDS  
U.S. NUCLEAR REGULATORY COMMISSION  
WASHINGTON, DC 20555-0001

**ALL OTHERS, IF YOU ARE LOCATED IN:**

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE,  
MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW  
JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND, OR  
VERMONT, SEND APPLICATIONS TO:

LICENSING ASSISTANCE SECTION  
NUCLEAR MATERIALS SAFETY BRANCH  
U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PA 19406-1415

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI,  
NORTH CAROLINA, PUERTO RICO, SOUTH CAROLINA,  
TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA,  
SEND APPLICATIONS TO:

NUCLEAR MATERIALS SAFETY SECTION  
U.S. NUCLEAR REGULATORY COMMISSION, REGION II  
ATLANTA FEDERAL CENTER, SUITE 23T85  
61 FORSYTH STREET, SW  
ATLANTA, GA 30303-3415

**IF YOU ARE LOCATED IN:**

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI,  
OHIO, OR WISCONSIN, SEND APPLICATIONS TO:

MATERIALS LICENSING SECTION  
U.S. NUCLEAR REGULATORY COMMISSION, REGION III  
801 WARRENVILLE ROAD  
LISLE, IL 60532-4351

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO,  
HAWAII, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA,  
NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA,  
OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA,  
TEXAS, UTAH, WASHINGTON, OR WYOMING,  
SEND APPLICATIONS TO:

MATERIAL RADIATION PROTECTION SECTION  
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
611 RYAN PLAZA DRIVE, SUITE 400  
ARLINGTON, TX 76011-8064



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF RADIATION PROTECTION

Page 1 of 3 Pages

License No. PA -1372

**RADIOACTIVE MATERIALS LICENSE**

Amendment No. NEW

Pursuant to the Radiation Protection Act, the Act of July 10, 1984 (No. 147, P.L. 688)(35 P.S. §§ 7110.101 – 7110.703) and Title 25. Rules and Regulations, Article V. Radiological Health of the Pennsylvania Department of Environmental Protection, and in reliance on statements and representations heretofore Licensee to receive, acquire, possess, transfer, and use radioactive material listed below for the purposes and at the places designated below. This license shall be deemed subject to all applicable rules, regulations, or orders of the Pennsylvania Department of Environmental Protection now or hereafter in effect and to any conditions specified below.

<b>Licensee</b>  1. Cowan Associates, Inc.  2. 120 Penn-Am Drive P.O. Box 949 Quakertown, PA 18951	In accordance with Agreement State proceedings,		
	3.	License No. PA – 1372	is issued in its entirety as follows:
	4.	Expiration Date: December 31, 2009	
	5.	Client ID:	Prgm. Code: 3121 Priority: 5

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. Cesium 137	A. Sealed sources (Humboldt Scientific, Inc. Dwg. No 2200064)	A. No single source to exceed the maximum activity specified in the certificate of registration issued by the NRC or an Agreement State.
B. Americium 241:Be	B. Sealed neutron sources (Humboldt Scientific Inc. Dwg. No. 2200067)	B. No single source to exceed the maximum activity specified in the certificate of registration issued by the NRC or an Agreement State.

**9. Authorized use:**

A. and B. For use in Humboldt Scientific Model No. 5001 portable gauging devices for measuring physical properties of materials.

**CONDITIONS**

- Licensed material may be used or stored only at the licensee's facilities located at 120 Penn-Am Drive, Quakertown, PA 18951 and at temporary job sites in Pennsylvania. Authorization for use of radioactive materials at job sites under exclusive Federal jurisdiction shall be obtained from the appropriate regulatory agency.
- The Radiation Safety Officer for this license is: Charles R. Tomko
- Licensed material shall be used by, or under the supervision and in the physical presence of, individuals who have received the training described in the application to the U.S. Nuclear Regulatory Commission dated December 6, 1999.
- A copy of the latest sealed source leak test results and emergency procedures shall be available for inspection at temporary job sites.



14.
  - 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 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 in storage need not be tested if they 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 Department 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 Department 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 NRC or 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 the NRC or an Agreement State to perform such services.
  - F. Records of leak test results shall be kept in units of microcuries and shall be maintained for 5 years.
15. Each portable gauge shall have a lock or lockable outer container to prevent un-authorized or accidental removal of the sealed source from its shielded position. The gauge or outer container shall be locked and secured from unauthorized access while in transport or not under the direct surveillance of an authorized user.
16. Sealed sources or source rods containing licensed material shall not be opened or sources removed from the source holders by the licensee.
17. The licensee shall conduct a physical inventory every 6 months, or at other intervals approved by the Department, 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.
18. The licensee shall immediately suspend operation of a device upon failure of, damage to, or an indication of a possible failure of, or damage to the source, source shielding, or any source rod, lock, on-off mechanism, shutter or safety indicator. The device may not be returned to service until it has been repaired by a person authorized by the NRC or an Agreement State to repair the device.
19. 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 NRC or an Agreement State to perform such service.



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF RADIATION PROTECTION

**RADIOACTIVE MATERIALS LICENSE**

Page 3 of 3 Pages

License No. PA -1372

Amendment No. NEW

20. A. If the licensee uses unshielded sealed sources extended more than 3 feet below the surface, the licensee shall use surface casing that extends from the lowest depth to 12 inches above the surface and other appropriate procedures to reduce the probability of the source or probe becoming lodged below the surface. If it is not feasible to extend the casing 12 inches above the surface, the licensee shall implement procedure to ensure that the cased hole is free of obstruction before making measurements.
- B. If a sealed source or a probe containing sealed sources becomes lodged below the surface and it becomes apparent that efforts to recover the sealed source or probe may not be successful, the licensee shall notify the Department and submit the report required by 10 CFR 30.50(b)(2) and (c). The licensee shall not abandon the sealed source or probe without obtaining the Department's prior written consent.
21. 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 and incorporated by reference in 10 CFR 30.35(d) for establishing financial assurance for decommissioning.
22. The licensee may transport licensed material, or deliver licensed material to a carrier for transport, in accordance 25 Pa Code Chapter 230, "Packaging and Transportation of Radioactive Material" and the provisions of 10 CFR Part 71 incorporated by reference.
23. Notwithstanding the requirements set forth in this license, the licensee shall comply with the regulations set forth in Title 25 of the Pennsylvania Code, Article V "Radiological Health" and the U.S. Nuclear Regulatory Commission, Title 10 Code of Federal Regulations Parts 19-150 incorporated by reference.
24. 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. This license condition applies only to those procedures that are required to be submitted in accordance with the regulations. The Department of Environmental Protection'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 December 6, 1999 (NRC)

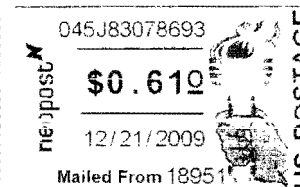
**For the Pennsylvania Department of Environmental Protection**

John S. Chippo  
Bureau of Radiation Protection  
P. O. Box 8469  
Harrisburg, PA 17105-8469

Date: May 6, 2009



**COWAN ASSOCIATES, INC.**  
120 Penn-Am Drive, P.O. Box 949  
Quakertown, Pennsylvania 18951



Licensing Assistance Section  
Nuclear Materials Safety Branch  
U.S. Nuclear Regulatory Commission, Region I  
475 Allendale Road  
King of Prussia, PA 19406-1415

144348

This is to acknowledge the receipt of your letter/<sup>NRC 314</sup>application dated

12/18/2008, and to inform you that the initial processing which includes an administrative review has been performed.

☒ TERMINATION 37-30547-01  
There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

☐ Please provide to this office within 30 days of your receipt of this card

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 144348.  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.