



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

OCT 20 1987

ATEC Associates, Inc., of Maryland  
ATTN: Mr. Rick L. Jay  
8918 Herrmann Drive  
Columbia, MD 21045

REFUND OF APPLICATION FEE

1. BACKGROUND:

Check Received December 3, 1986  
Application Dated November 12, 1986  
Check Number 2463  
Check Amount \$120

2. REFUND:

Amount \$60 (\$60 previously refunded)

This refund is now being processed and will be sent as soon as possible.

3. REASON FOR REFUND:

November 12, 1986 request for amendment to License 19-19822-01 was combined, prior to review, with July 3, 1986 renewal request, for which the fee was paid.

15/  
Glenda Jackson  
License Fee Management Branch  
Division of Accounting and Finance  
Office of Administration and  
Resources Management

B710210269 B70522  
REG1 LIC30  
19-19822-01 PDR

**U.S. NUCLEAR REGULATORY COMMISSION**  
**MATERIALS LICENSE**  
 CORRECTED COPY

Page 1 of 3 Pages

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 1, Parts 30, 31, 32, 33, 34, 35, 36, 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); and to import such byproduct and source material. 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. Atec Associates, Inc., of Maryland		3. License number 19-19822-01
2. 8918 Hermann Drive Columbia, Maryland 21045		4. Expiration date July 31, 1986
		5. Docket or 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. Cesium 137	A. Sealed Sources (Troxler Dwg. A-102112)	A. Not to exceed 10 millicuries per source
B. Americium 241	B. Sealed Source (Troxler Dwg. A-102451)	B. Not to exceed 50 millicuries per source
9. Authorized use		
A. and B. For use in Troxler Model 3400 Series gauges to measure properties of materials.		

**CONDITIONS**

10. Licensed material shall be used only at temporary job sites of the licensee anywhere in the United States where the Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.
11. The licensee shall comply with the provisions of Title 10, Chapter 1, Code of Federal Regulations, Part 19, "Notices, Instructions and Reports to Workers; Inspections" and Part 20, "Standards for Protection Against Radiation."

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U. S. NUCLEAR REGULATORY COMMISSION

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MATERIALS LICENSE

Supplementary Sheet

License Number 19-19822-01

CORRECTED COPY

Docket or

CONDITIONS

Reference No. \_\_\_\_\_

(continued)

12. Licensed material shall be used by, or under the supervision and in the physical presence of, J. Michael Nickles, Jules D. Reese William D. Ochs, or any other individual who has completed the Troxler Training Course in the use of the density/moisture devices.
13. Sealed sources containing licensed material shall not be opened or removed from the moisture/density gauges by the licensee.
14. A. (1) Each sealed source containing licensed material, other than Hydrogen 3, with a half-life greater than thirty days and in any form other than gas shall be tested for leakage and/or contamination at intervals not to exceed six months. In the absence of a certificate from a transferor indicating that a test has been made within six months prior to the transfer, a sealed source received from another person shall not be put into use until tested.  
(2) The periodic leak test required by this condition does not apply to sealed sources that are stored and not being used. The sources excepted from this test shall be tested for leakage prior to any use or transfer to another person unless they have been leak tested within six months prior to the date of use or transfer.
- B. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surfaces of the device in which the sealed source is permanently mounted or stored on which one might expect contamination to accumulate. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the Commission.
- C. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Commission regulations. A report shall be filed within five (5) days of the test with the U. S. Nuclear Regulatory Commission, Region I, Office of Inspection and Enforcement, 631 Park Avenue, King of Prussia, Pennsylvania 19406, describing the equipment involved, the test results, and the corrective action taken.
- D. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically authorized by the Commission or an Agreement State to perform such services.

MATERIALS LICENSE

Supplementary Sheet

License Number 19-19822-01

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CONDITIONS

Docket or  
Reference No. \_\_\_\_\_

(continued)

15. The licensee shall conduct a physical inventory every six (6) months to account for all sealed sources received and possessed under the license. The records of the inventories shall be maintained for two (2) years from the date of the inventory for inspection by the Commission, and shall include the quantities and kinds of byproduct material, location of sealed sources, and the date of the inventory.
16. The licensee may transport licensed material or deliver licensed material to a carrier for transport in accordance with the provisions of Title 10, Code of Federal Regulations, Part 71, "Packaging of Radioactive Material for Transport and Transportation of Radioactive Material Under Certain Conditions."
17. Except as specifically provided otherwise by this license, the licensee shall possess and use licensed material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in application dated June 26, 1981. The Nuclear Regulatory Commission's regulations shall govern the licensee's statements in applications or letters, unless the statements are more restrictive than the regulations.

Date AUG 19 1981

For the U. S. Nuclear Regulatory Commission

*Paul R. Linn*  
by Material Licensing Branch

Division of Fuel Cycle and  
Material Safety  
Washington, D.C. 20555



MATERIALS LICENSE  
SUPPLEMENTARY SHEET

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License number 19-19822-01

Docket or Reference number

Amendment No. 01

Atec Associates, Inc., of Maryland  
8918 Hermann Drive  
Columbia, Maryland 21045

In accordance with letter dated November 9, 1981, License Number 19-19822-01  
is amended as follows:

To add:

- |   |  |  |
|---|--|--|
| 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 |
| C. Americium 241                                      | C. Sealed neutron sources (Campbell Pacific Nuclear Model CPN-131) | C. Not to exceed 50 millicuries per source                                     |

## 9. Authorized use

- C. For use in Campbell Pacific Nuclear Model MC series for moisture measurements.

Condition 17. is amended to read:

17. Except as specifically provided otherwise by this license, the licensee shall possess and use licensed material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in application dated June 26, 1981; and letter dated November 9, 1981. The Nuclear Regulatory Commission's regulations shall govern the licensee's statements in applications or letters, unless the statements are more restrictive than the regulations.

For the U.S. Nuclear Regulatory Commission

By Paul R. Quinn  
Material Licensing Branch

Division of Fuel Cycle and  
Material Safety  
Washington, D.C. 20555

Date: 8610030304  
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MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License number

19-19822-01

Docket or Reference number

Amendment No. 02

Atec Associates, Inc. of  
Maryland  
8918 Hermann Drive  
Columbia, Maryland 21045

In accordance with letter dated September 21, 1982, License Number 19-19822-01  
is amended as follows:

Items 6., 7., 8. and 9. are amended to read:

- |   |  |  |
|---|--|--|
| 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 (Troxler Dwg. A-102112)                          | A. Not to exceed 10 milli-curies per source                                    |
| B. Americium 241                                      | B. Sealed source (Troxler Dwg. A-102451)                           | B. Not to exceed 50 milli-curies per source                                    |
| C. Americium 241                                      | C. Sealed neutron sources (Campbell Pacific Nuclear Model CPN-131) | C. Not to exceed 50 milli-curies per source                                    |

## 9. Authorized use

- A. and B. For use in Troxler Model 3400 series gauges to measure properties of materials and for the training of individuals in the use of these devices.
- C. For use in Campbell Pacific Nuclear Model MC series gauges to measure properties of materials and for the training of individuals in the use of these devices.

Condition 17. is amended to read:

17. Except as specifically provided otherwise by this license, the licensee shall possess and use licensed material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in application dated June 26, 1981; and letters dated November 9, 1981, and September 21, 1982. The Nuclear Regulatory Commission's regulations shall govern the licensee's statements in applications or letters, unless the statements are more restrictive than the regulations.

DEC 06 1982

Date \_\_\_\_\_

FOR THE U. S. NUCLEAR REGULATORY COMMISSION

*101 R. Quinn*  
By Material Licensing Branch  
Division of Fuel Cycle and Material  
Safety  
Washington, D. C. 20555

8610030312

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MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License number

19-19822-01

Docket or Reference number

030-19282

Amendment No. 03

Atec Associates, Inc. of Maryland  
8918 Hermann Drive  
Columbia, Maryland 21045

In accordance with letter dated November 29, 1983, License Number 19-19822-01 is amended as follows:

Items 6., 7., 8., and 9. are amended to read:

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 (Troxler Dwg. A-102112)	A. Not to exceed 10 millicuries per source
B. Americium 241	B. Sealed sources (Troxler Dwg. A-102451)	B. Not to exceed 50 millicuries per source
C. Americium 241	C. Sealed neutron sources (Campbell Pacific Nuclear Model CPN-131)	C. Not to exceed 50 millicuries per source
D. Cesium 137	D. Sealed sources (Campbell Pacific Nuclear Model CPN-131)	D. Not to exceed 10 millicuries per source)

## 9. Authorized use

- A. and B. For use in Troxler Model 3400 series gauges to measure properties of materials and for the training of individuals in the use of these devices.
- C. and D. For use in Campbell Pacific Nuclear Model MC-1 gauges to measure properties of materials and for the training of individuals in the use of these devices.

Conditions 12. and 17. are amended to read:

12. Licensed material shall be used by, or under the supervision and in the physical presence of, J. Michael Nickles, Jules D. Reese, William D. Ochs, or any individual who has completed the Troxler Training Course in the use of the density/moisture devices, or any individual who has completed the training as specified in the September 21, 1982 letter.
17. Except as specifically provided otherwise by this license, the licensee shall possess and use licensed material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in application dated June 26, 1981; and letters dated November 9, 1981, September 21, 1982, and November 29, 1982. The Nuclear Regulatory Commission's regulations shall govern the licensee's statements in applications or letters, unless the statements are more restrictive than the regulations.

For the U.S. Nuclear Regulatory Commission

Date 16 JUN 1983

By

*John E. Glenn*  
Nuclear Materials and Safeguards Branch  
Region I  
King of Prussia, Pennsylvania 19406

~~8610030321~~

*lp*

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License number

19-19822-01

Docket or Reference number

030-19282

Amendment No. 04

Atec Associates, Inc. of Maryland  
8918 Hermann Drive  
Columbia, Maryland 21045

In accordance with letter dated December 30, 1983, License Number 19-19822-01 is amended as follows:

Condition 12. is amended to read:

12. Licensed material shall be used by, or under the supervision and in the physical presence of, J. Michael Nickels, Jules D. Reese, George Dennis Hall, or any individual who has completed the Troxler Training Course in the use of the density/moisture devices, or any individual who has completed the training as specified in the September 21, 1982 letter.

For the U. S. Nuclear Regulatory Commission

Date APR 21 1984

By *George Dennis Hall*  
Nuclear Materials and Safeguards Branch  
Region I  
King of Prussia, PA 19406

~~8610030326~~  
*[Signature]*