

CORRECTED COPY

## MATERIALS LICENSE

Amendment No. 11

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.

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## Licensee

1. ATEC Associates, Inc.
2. 8989 Herrmann Drive  
Columbia, Maryland 21045

In accordance with the letter dated  
March 29, 1996,

3. License Number 19-19822-01 is amended in  
its entirety to read as follows:

4. Expiration Date April 30, 2004

5. Docket or  
Reference No. 030-19282

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
- B. Americium 241
- C. Cadmium 109

- A. Sealed sources
- B. Sealed neutron sources
- C. Sealed source

- A. 390 millicuries
- B. 1.95 curies
- A. 50 millicuries

9. Authorized use

- A. and B. For possession and use in Troxler Electronic Laboratories, Inc., Campbell Pacific Nuclear Corp., Humboldt Scientific, Inc., Seaman Nuclear Corporation, or Soiltest, Incorporated devices which have been evaluated and approved for licensing purposes under a license issued by the Nuclear Regulatory Commission or any Agreement State.
- C. For use in a NITON XL Model 309 x-ray fluorescence analyzer for the detection of lead.

## CONDITIONS

10. Licensed material may be used only 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.
11. A. Licensed material shall only be used by, or under the supervision and in the physical presence of, Edwin R. Strode Jr., 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.  
B. The Radiation Safety Officer for this license is Edwin R. Strode Jr.
12. A. Sealed sources and detector cells containing licensed material shall be tested for leakage and/or contamination at intervals not to exceed six months or at such other intervals as are specified by the certificate of registration referred to in 10 CFR 32.210, not to exceed three years.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

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License Number  
19-19822-01

Docket or Reference Number  
030-19282

Amendment No. 11

- B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed three months.
- C. In the absence of a certificate from a transferor indicating that a leak test has been made within six months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.
- D. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source.
- E. Sealed sources and detector cells need not be leak tested if:
- (i) they contain only hydrogen-3; or
  - (ii) they contain only a radioactive gas; or
  - (iii) the half-life of the isotope is 30 days or less; or
  - (iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or
  - (v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transfer 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 or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- F. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission and the source or detector cell shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within five days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region I, ATTN: Chief, Nuclear Materials Safety Branch, 475 Allendale Road, King of Prussia, Pennsylvania 19406. The report shall specify the source or detector cell involved, the test results, and corrective action taken.
- G. The licensee is authorized to collect leak test samples for analysis by Troxler Electronic Laboratories, Inc. or Radiation Services Organization, Inc. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.

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13. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
14. The licensee shall conduct a physical inventory every six months to account for all sealed sources and devices containing licensed material received and possessed under the license.
15. The licensee shall not acquire licensed material in a sealed source or device unless the source or device has been registered with the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or equivalent regulations of an Agreement State.
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, storage or when not under the direct surveillance of an authorized user.
17. Any cleaning, maintenance, or repair of the gauge(s) that requires removal of the source rod shall be performed only by the manufacturer or by other persons specifically licensed by the Commission or an Agreement State to perform such services.
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 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 July 3, 1986
  - B. Letter dated February 11, 1987
  - C. Letter dated April 8, 1987
  - D. Application dated March 10, 1992
  - E. Letter dated November 4, 1993
  - F. Letter dated March 28, 1994
  - G. Letter dated September 6, 1994
  - H. Letter dated March 22, 1995
  - I. Letter dated May 4, 1995
  - J. Facsimile received May 22, 1995
  - K. Letter dated December 28, 1995

For the U.S. Nuclear Regulatory Commission

**Original Signed By:**  
**Francis M. Costello**

Date OCT 22 1996

By

Nuclear Materials Safety Branch  
Region I  
King of Prussia, Pennsylvania 19406

OCT 22 1996

Mr. Edwin R. Strode Jr., E.I.T  
Radiation Safety Officer  
ATEC Associates, Inc.  
8989 Herrmann Drive  
Columbia, MD 21045-4710

Dear Mr. Strode:

A review of your license indicates that Condition 10 is incorrect. Enclosed is the Corrected Copy of Amendment No. 11 for License No. 19-19822-01 which corrects Condition 10.

We apologize for any inconvenience this error may have caused.

Sincerely,

Original Signed By:  
**Francis M. Costello**

Francis M. Costello, Chief  
Nuclear Material Safety Branch 3  
Division of Nuclear Materials Safety

License No. 19-19822-01  
Docket No. 030-19282  
Control No. 123151

Enclosure:  
Corrected Copy of Amendment No. 11

DOCUMENT NAME: R:\WPS\MLDL\L1919822.01

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OFFICE	DNMS/RI	N	DNMS/RI	N			
NAME	JBondick/jmb		FCostello				
DATE	10/11/96		10/17/96		10/ /96	10/ /96	

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