



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

July 10, 2006

Docket No. 03034029
Control No. 138953

License No. 37-28329-02

Glenn R. Marshall
Radiation Safety Officer
Philotechnics, Ltd.
600 State Street
Clairton, PA 15025

SUBJECT: PHILOTECHNICS, LTD., LICENSE AMENDMENT, CONTROL NO. 138953

Dear Mr. Marshall:

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 **Toolkit Index Page**. Or you may obtain these documents by contacting the Government Printing Office (GPO) toll-free at 1-888-293-6498. 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 Craig Z. Gordon

Craig Z. Gordon
Senior Health Physicist
Materials Security and Industrial Branch
Division of Nuclear Materials Safety

Enclosure:
Amendment No. 12

G. Marshall
Philotechnics, Ltd.

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SUNSI Review Complete: CGordon

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DATE	7/10/2006							

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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. Philotechnics, Ltd. d.b.a. Afftrex, Ltd.</p> <p>2. 600 State Street, Suite 201 Clairton, PA 15025</p>	<p>In accordance with the letter dated February 1, 2006,</p> <p>3. License number 37-28329-02 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date October 31, 2011</p> <hr/> <p>5. Docket No. 030-34029 Reference No.</p>	
<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Hydrogen 3</p> <p>B. Iron 55</p> <p>C. Cobalt 60</p>	<p>7. Chemical and/or physical form</p> <p>A. Sealed sources (NuKern Foil CuZrt-20TB or ALYTAN-20, or USRC LAB 508-1 Foil)</p> <p>B. Sealed sources (Amersham/AEA Model IEC.A1, IEC.D1 or IPL Models PH-55 or PHR-55)</p> <p>C. Sealed sources (TN Tech. Model 57157C, Amersham Model CKC.P4 or Berthold Tech USA Model P2602-100)</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. 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> <p>B. 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> <p>C. 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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030-34029

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| 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 |
| D. Krypton 85 | D. Sealed sources (Amersham Model CLC.D1, American Atomic Models Kr85C, Kr85E, Kr85J or Kr85M, AEA Technology Models KAC.D2 or KAC.D5, ABB Inc., Model S-11, S-16, S-18 or S-20 or Dupont/NEN/IPL Models NER 586 or NER 586M) | D. 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 |
| E. Strontium 90 | E. Sealed sources (ABB Inc., Models S-11, S-15, S-16 S-18 or S-20, Amersham Models CLC.D1, SIF.D2, SIFW804 or SIFW805, General Radioisotope Products Models 8131 or 8133, or 3M Models 3FIV or 3FIL) | E. 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 |
| F. Cesium 137 | F. Sealed Sources (Kay-Ray/Sensall Source Series Model 7700-Y, Berthold Models 2623-100 or 2645-100, TN Tech. Models 57157C or 5176, General Isotopes Model 850233, Gamma Ind. Model VD, NEN Model NER-570, Amersham Models CDC.P4, CDC.93, or CDC.ZT1, or Bebig Trade/IPL Models Cs7.PO2 or Cs7.PO4-A) | 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 |
| G. Promethium 147 | G. Sealed sources (Amersham/AEA Model PHB.D1, Amersham Model CLC.D1 or ABB Inc., Models S-11, S-16, S-18 or S-20) | G. 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 |

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| 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 |
| H. Americium 241 | H. Sealed sources (ABB Inc., Models S-11, S-16, S-18 or S-20, TN Tech. Dwg 570-579103, Amersham Models AMC 13446, AMC.16, AMC.17 AMC.18, AMC.19, AMC.30, AMC.50, AMN.PE1, or CLC.D1, Bebig Trade, Inc. Model AM1.G44. AM1.G55, or Am1.N09, Dupont/NEN/IPL Models NER-478C or NER 479C, Radiochemical Centre Models X10, AMC5, AMC 735, AMC2, AMC18, AMC19, AMX 309 or AMCK 599), Berthold Models AM1, N09, or CESIO Model Am1.N09 | H. 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 |
| I. Curium 244 | I. Sealed sources (ABB Inc., Models S-11, S-16, S-18 or S-20, IPL Model AM1.G55, or Amersham Model CLC.D1) | I. 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 |
| J. Any byproduct material with atomic numbers 1 through 102 | J. Leak test and environmental samples | J. See Condition 12 |
| K. Any byproduct material with atomic numbers 1 through 83, excluding alpha emitters | K. Sealed Sources | K. 20 microcuries per source and 40 microcuries total |

9. Authorized use:

- A. through I. For possession incident to service for other persons as defined in 10 CFR 20.1003 for:
- (1) Installation, initial radiation surveys, relocation, removal from service, dismantling, alignment, replacement, packaging of the sealed source, and repair of components related to the radiological safety of devices listed in Attachment 1 of the letter dated February 1, 2006, that have been registered either with the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or with an Agreement State.
 - (2) Leak test sample collection.
 - (3) Instruction of customers.

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- (4) Preparation and packaging for the purpose of transportation, disposal, or relocation of devices containing the sealed sources, that have been registered either with the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or with an Agreement State.
- J. Analysis of leak test and environmental samples as a service for other persons as defined in 10 CFR 20.1003.
- K. For use as calibration and reference sources.

CONDITIONS

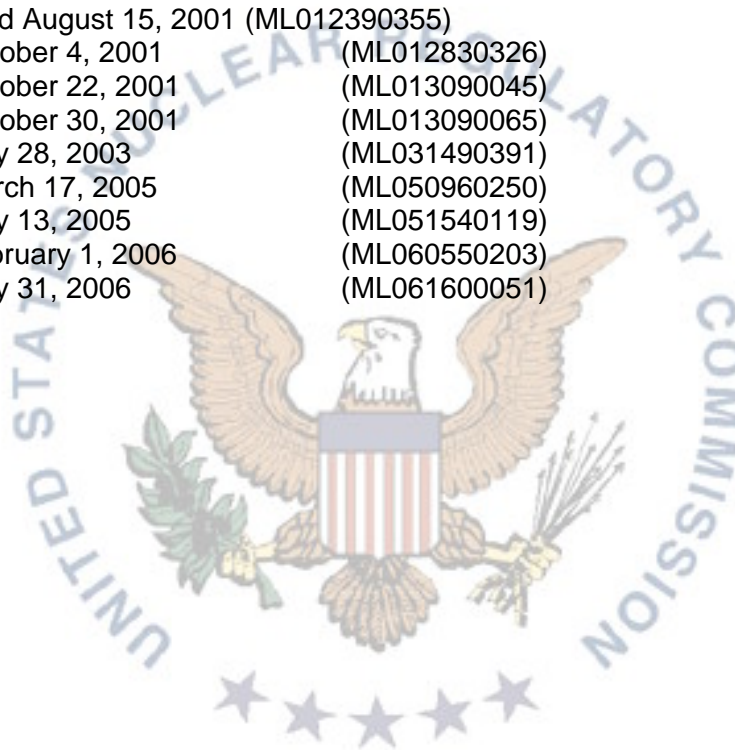
10. A. Licensed material listed in Items 6.A. through 6.I. may be used at temporary job sites of the licensee anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.
- B. Licensed material listed in Items 6.J. and 6.K. may be used at the licensee's facility located at 600 State Street, Clairton, Pennsylvania.
11. A. Licensed material shall be used by, or under the supervision and in the physical presence of, Glenn R. Marshall, James Ferree, Paul T. Hrezo or James D. Alderson.
- B. The Radiation Safety Officer for this license is Glenn R. Marshall.
12. 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), 40.36(b), and 70.25(d) for establishing financial assurance for decommissioning.
13. Sealed sources containing licensed material shall not be opened by the licensee.
14. 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 listed in Item 6.K. 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.
15. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

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16. 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 August 15, 2001 (ML012390355)
- B. Letter dated October 4, 2001 (ML012830326)
- C. Letter dated October 22, 2001 (ML013090045)
- D. Letter dated October 30, 2001 (ML013090065)
- E. Letter dated May 28, 2003 (ML031490391)
- F. Letter dated March 17, 2005 (ML050960250)
- G. Letter dated May 13, 2005 (ML051540119)
- H. Letter dated February 1, 2006 (ML060550203)
- I. Letter dated May 31, 2006 (ML061600051)



For the U.S. Nuclear Regulatory Commission

Date July 10, 2006By ***Original signed by Craig Z. Gordon***

Craig Z. Gordon
Materials Security and Industrial Branch
Division of Nuclear Materials Safety
Region I
King of Prussia, Pennsylvania 19406