



Re: Environics USA, Inc. License # 19-23974-01E Renewal

**Appendix 7-MD state Possession License**



**MARYLAND DEPARTMENT OF THE ENVIRONMENT**

1800 Washington Boulevard • Baltimore MD 21230  
410-537-3000 • 1-800-633-6101 • [www.mde.state.md.us](http://www.mde.state.md.us)

Martin O'Malley  
Governor

Robert M. Summers, Ph.D.  
Secretary

Anthony G. Brown  
Lieutenant Governor

**NOV 9 2011**

Rolf Meinholtz, Radiation Safety Officer  
Environics USA, Inc.  
1308 Continental Drive, Suites J & K  
Abingdon, MD 21009-2304

**RE: Radioactive Material License #MD-25-047-01**

Dear Mr. Meinholtz:

Your requested amendment to radioactive materials license number MD-25-057-01 is enclosed. Please review it carefully to ensure that it reflects all modifications included in your letter received in this office on September 28, 2011.

Should you require further assistance, please contact Mr. Raymond E. Manley at (410) 537-3301. You may also reach our office toll-free by dialing 1-800-633-6101 and requesting extension 3301. Also, you may contact this office via facsimile at 410-537-3198.

Sincerely,

Roland G. Fletcher, Manager IV  
Radiological Health Program  
Air and Radiation Management Administration

RGF/REM/BJP/cc

Enclosure(s): License amendment (04)  
Code (03250)



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Pursuant to the Maryland Radiation Act, 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 radioactive material listed below; and to use such radioactive material for the purpose(s) and at the place(s) designated below. The license is subject to all applicable rules, regulations and orders of the Maryland State Department of the Environment, now or hereinafter in effect and to any conditions specified below.

<b>Licensee</b>		<b>3. License No.:</b> MD-25-057-01
<b>1. Name:</b> Environics USA, Inc		<b>4. Amendment No.:</b> 04 Code 03250
<b>2. Address:</b> 1308 Continental Drive, Suites J & K Abingdon, Maryland 21009-2304		<b>5. Expiration Date:</b> January 31, 2016
<b>6. Radioactive material (element and mass number)</b>	<b>7. Chemical and/or physical form</b>	<b>8. Maximum amount of activity which licensee may possess at any one time</b>
A. Americium-241	A. Foil source: Nuclear Radiations Development, Inc. Model A-001 and Amersham Corporation Model AMM	A. 1000 sources; not to exceed 160 microcuries each
B. Americium-241	B. Foil source: Amersham Corporation Model AMM and Nuclear Radiations Development, Inc. Model A-001	B. 1000 sources; not to exceed 160 microcuries each
C. Hydrogen-3	C. Ritverc GmbH model BH 3.21	C. Two sources, not to exceed 27 millicuries each
D. Nickel-63	D. Sealed Source: Eckert & Ziegler Nuclitec BmbH model NBCB17139	D. 10 millicuries per source; maximum number of sources not to exceed 500
E. Hydrogen-3	E. Sealed Source: Ritverc GmbH Model BH 3.21	E. 8.1 millicuries per source; maximum number of sources for device listed in 9E. not to exceed 30.
F. Nickel-63	F. Sealed Source: IPL NER-004R or AEA NBCQ8681	F. 15 millicuries per source; Maximum number of Sources not to exceed 2.



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License Number: MD-25-057-01

Amendment Number: 04

CONDITIONS

9. Authorized Use(s):

A. To be received in modules for assembly of the Environics Model ChemPro 100 and to be received as completed product for distribution as exempt products as described in sealed source registry number NR-1160-D-101-E. Distribution is authorized pursuant to NRC distribution license 09-23918-01E being active and showing the address of this license as an authorized distribution location.

B. To be received in modules for assembly of Environics Model M90, Chemical Agent Detector and the MGD-1 Multi Gas Detector to be received as completed product for distribution as exempt products as described in sealed source registry number NR-1160-D-102-E. Distribution is authorized pursuant to NRC distribution license 09-23918-01E being active and showing the address of this license as an authorized distribution location.

C. Former Draeger Safety, Inc models 5000, 5600, 5700, STR0000, or Envirosecure IMS 7100 for research and development only. SSD registry NR-8199-D-801-E.

D. For use in Chempro-100i (Nickel-63) device not for distribution in the United States.

E. To be received in modules for assembly of Environics ENVI Series gas and aerosol detector to be received as completed product for distribution as exempt products as described in sealed source registry number NR-1160-D-103-E. Distribution is authorized pursuant to NRC distribution license 09-23918-01E being active and showing the address of this license as an authorized distribution location.

F. For use in Smith's Detection model APD 2000 for comparison purposes only. Not for re-sale.

10. The authorized place of storage is the licensee's address stated in Item 2. The licensee is authorized to perform demonstrations throughout Maryland, **except for item 9C, 9D, and 9F**. The licensee must notify the Radiological Health Program 30 days prior to vacating a permanent use address.

11A. The radiation protection program shall be under the supervision of Rolf Meinholtz.

11B. Radioactive material shall be used by, or under the supervision of Rolf Meinholtz.

12. The licensee shall comply with all appropriate provisions of COMAR 26.12.01.01 "Regulations for Control of Ionizing Radiation," and shall possess a copy of these regulations.

13. 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 three (3) years from the date of the inventory for inspection by the Department, and shall include the quantities and kinds of radioactive material, location of sealed sources, and the date of the inventory.



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CONDITIONS

- 14A. Each sealed source containing radioactive material, other than Hydrogen-3 with a half-life greater than thirty (30) days and in any form other than gas shall be tested for leakage and/or contamination at intervals not to exceed six (6) months. In the absence of a certificate from a transferor indicating that a test has been made within six (6) months prior to the transfer, the sealed source shall not be put into use until tested. If there is reason to suspect that a sealed source might have been damaged, or might be leaking, it shall be tested for leakage before further use.
- 14B. 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 a device in which the sealed source is permanently mounted or stored on which one might expect contamination to accumulate.
- 14C. Records of leak tests shall be kept in units of microcuries and maintained for inspection by the Department.
- 14D. 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 Department regulations. A report shall be filed within five (5) days of the test with the Administrator, Radiological Health Program, 1800 Washington Boulevard, Baltimore, Maryland 21230, describing the equipment involved, the test results, and the corrective action taken.
- 14E. Test for leakage and/or contamination shall be performed by the licensee or by other persons specifically authorized by the Department, the U.S. Nuclear Regulatory Commission or another Agreement State to perform such services.
15. Sealed sources containing radioactive material shall not be opened.
16. The licensee shall not transfer possession or control of radioactive material, or products containing radioactive material as a contaminant except by transfer to a specifically licensed recipient.
17. The licensee shall not modify nor implement any material changes to the radiation safety program without the approval of the Department.
18. The licensee shall file reports pursuant to COMAR 26.12.01.01 § C.28(a)(2).
19. Radioactive material shall be transported in accordance with COMAR 26.12.01.01 § T.
20. Each point-of sale package shall be marked or labeled pursuant to Title 10 CFR 32.29(b).



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CONDITIONS

- 21A. The licensee shall not make any false statement, representation, or certification in any application, record, report, plan, or other document regarding radiation levels, tests performed or radiation safety conditions or practices. Nor shall the licensee falsify, tamper with, or render inaccurate any monitoring device or method.
- 21B. Violation of any term, condition, or regulation could subject the licensee to administrative or civil penalty or criminal prosecution, as specified in Title 8, Radiation, of the Article Environment of the Annotated Code of Maryland.
22. The licensee shall not transfer ownership and/or control of this license to any person or entity without providing required information regarding the transfer for the Agency's review and without receiving written authorization for the transfer by the Agency.
23. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material authorized by this license in accordance with statements representations, and procedures contained in:
- Application dated May 7, 2008, with attachments;
  - Email dated November 18, 2008.
  - Letter dated January 14, 2009, with attachments, giving new contact information and modified NRC distribution licenses.
  - Letter dated November 16, 2010, requesting possession of two Hydrogen-3 sources for research and development.
  - Electronic mail dated January 11, 2011, with attached Nickel-63 data sheet
  - Electronic mail dated January 11, 2011 from NRC (John Jankovich) stating that SSD registration not needed for distribution to Canada only.



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- Letter dated January 14, 2011, with attachments requesting possession of Nickel-63.
- Electronic mail from John Jankovich dated March 7, 2011, confirming e-mails of June 10, 2010 and January 11, 2011.
- Letter dated September 9, 2011, with attachments, requesting addition of ENVI Series and APD 2000 devices.
- Letter with attachments dated September 27, 2011, with additional information for ENVI Series.

COMAR 26.12.01.01 "Regulations for Control of Ionizing Radiation" shall govern the licensee's statements in applications or letters, unless the statements are more restrictive than the regulations.

FOR THE MARYLAND DEPARTMENT OF THE ENVIRONMENT

Roland G. Fletcher, Manager IV  
Radiological Health Program

October 31, 2011

BJP

*BJP*  
10/31/2011

*PK*  
11/7/11