



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

January 18, 2005

Docket No. 03014991  
Control No. 135878

License No. 29-18389-01

Stephen W. Jenniss  
Director  
New Jersey State Dept. of Health & Senior Services  
Div. Of Public Health & Environmental Laboratories  
P. O. Box 360  
Trenton, NJ 08625-0360

SUBJECT: NEW JERSEY STATE DEPT. OF HEALTH & SENIOR SERVICES, ISSUANCE  
OF LICENSE AMENDMENT, CONTROL NO. 135878

Dear Mr. Jenniss:

This refers to your license amendment request. Enclosed with this letter is the amended license. This amendment adds the new facility as requested to enable you to move your licensed activities for your equipment involving gas chromatographs. Prior to release of your current facility where your gas chromatographs were used for unrestricted use, you must receive an amendment removing those areas within your current facility from your license. Include in the request, the results of surveys demonstrating that the levels of residual activity in the facility are acceptable. When you submit the amendment request, please refer to the Control Number at the top of this letter.

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. Please note that the gas chromatographs containing the Agilent Technologies, formerly known as Hewlett Packard, electron capture detectors model number G1223A were not added to your license because they are distributed only as generally-licensed items. The regulations in 10 CFR Part 31 (enclosed) cover the use of these items.

*An environmental assessment for this action is not required, since this action is categorically excluded under 10 CFR 51.22(c)(14).*

Please note that on October 25, 2004, the NRC suspended public access to ADAMS, and initiated an additional security review of publicly available documents to ensure that potentially sensitive information is removed from the ADAMS database accessible through the NRC's web site. Interested members of the public may obtain copies of the referenced documents for review and/or copying by contacting the NRC Public Document Room pending resumption of public access to ADAMS. The NRC Public Document Room is located at NRC Headquarters in Rockville, MD, and can be contacted at 800-397-4209 or 301-415-4737 or [pdrc@nrc.gov](mailto:pdrc@nrc.gov).

S. Jenniss  
New Jersey State Dept. of Health & Senior Services

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Thank you for your cooperation.

Sincerely,

***Original signed by Steven Courtemanche***

Steven Courtemanche  
Health Physicist  
Commercial and R&D Branch  
Division of Nuclear Materials Safety

Enclosures:

1. Amendment No. 11
2. Guidelines for Decontamination of Facilities and Equipment
3. 10 CFR Part 31

cc:

William K. Nemeth, Radiation Safety Officer

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NAME	SCourtemanche/src							
DATE	01/18/2005							

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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. New Jersey State Department of Health &amp; Senior Services Division of Public Health and Environmental Laboratories</p> <p>2. P. O. Box 360 Trenton, New Jersey 08625-0360</p>	<p>In accordance with the letter received October 22, 2004, and dated January 5, 2005,</p> <p>3. License number 29-18389-01 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date February 29, 2012</p> <hr/> <p>5. Docket No. 030-14991 Reference No.</p>	
<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Any byproduct, source, or special nuclear material with atomic numbers 1 through 96</p> <p>B. Carbon 14</p> <p>C. Any byproduct, source, or special nuclear material with atomic numbers 1 through 96</p> <p>D. Cobalt 60</p> <p>E. Strontium 89</p> <p>F. Strontium 90</p> <p>G. Cadmium 109</p> <p>H. Iodine 125</p> <p>I. Iodine 131</p> <p>J. Cesium 137</p> <p>K. Americium 241</p> <p>L. Hydrogen 3</p>	<p>7. Chemical and/or physical form</p> <p>A. Environmental samples</p> <p>B. Prepackaged Kits</p> <p>C. Calibration sources</p> <p>D. Calibration standards</p> <p>E. Calibration standards</p> <p>F. Calibration standards</p> <p>G. Calibration standards</p> <p>H. Non-volatile Compounds</p> <p>I. Non-volatile Compounds</p> <p>J. Calibration standards</p> <p>K. Calibration standards</p> <p>L. Foils (Tracor Model 739310 detector cells)</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. 5 microcuries per radionuclide and 100 millicuries total</p> <p>B. 16 millicuries</p> <p>C. 10 microcuries per radionuclide and 100 microcuries total</p> <p>D. 100 microcuries</p> <p>E. 100 microcuries</p> <p>F. 100 microcuries</p> <p>G. 100 microcuries</p> <p>H. 1 millicurie</p> <p>I. 100 microcuries</p> <p>J. 100 microcuries</p> <p>K. 100 microcuries</p> <p>L. Not to exceed 130 millicuries per source and 1300 millicuries total</p>

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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 |
| M. Nickel 63  | M. Foils<br>(Tracor Models 111019-0001 and 115500-001, and Hewlett-Packard Models 19233 and 19312A detector cells) | M. Not to exceed 15 millicuries per source and 510 millicuries total           |

## 9. Authorized use:

- A. Environmental samples for analysis.
- B. In vitro clinical or laboratory testing.
- C. through K. For calibration and quality control of licensee's analytical instruments and procedures.
- L. and M. To be used for sample analysis in compatible gas chromatography devices that have been registered either with the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or with an Agreement State and have been distributed in accordance with a Commission or Agreement State specific license authorizing distribution to persons specifically authorized by a Commission or Agreement State license to receive, possess, and use the devices.

## CONDITIONS

10. Licensed material may be used or stored only at the licensee's facilities located at Market and Warren Streets, Trenton, New Jersey. Licensed material listed in Item 6.L. and 6.M. may be used or stored also at the licensee's facilities located at 380 Scotch Road, Trenton, New Jersey.
11. A. Licensed material shall be used by, or under the supervision of Bahman Parsa, William Nemeth, Reynaldo Obed, Regina Mathes, Carol Southard, Debra A. Sickels, Marion Pierce, Joseph Wargo, or George Casey.
- B. The Radiation Safety Officer for this license is William K. Nemeth.
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.

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13. The licensee shall not use licensed material in or on human beings.
14. The licensee shall not use licensed material in field applications where it is released except as provided otherwise by specific condition of this 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. 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 under 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 need not be tested if they are in storage and 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 U.S. Nuclear Regulatory Commission 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 Commission regulations.
- E. Tests for leakage and/or contamination, including leak test sample collection and analysis, shall be performed by the licensee or by other persons specifically licensed by the U.S. Nuclear Regulatory Commission 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.
17. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.

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18. The licensee shall conduct a physical inventory every six months, or at other interval approved by the U.S. Nuclear Regulatory Commission, to account for all sealed 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.
19. A. Detector cells containing a titanium tritide foil or a scandium tritide foil shall only be used in conjunction with a properly operating temperature control mechanism which prevents the foil temperatures from exceeding that specified in the certificate of registration referred to in 10 CFR 32.210.
- B. When in use, detector cells containing a titanium tritide foil or a scandium tritide foil shall be vented to the outside.
20. Maintenance, repair, cleaning, replacement, and disposal of foils contained in detector cells shall be performed only by the device manufacturer or other persons specifically authorized by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
21. The licensee is authorized to hold byproduct material with a physical half-life of less than or equal to 120 days for decay-in-storage before disposal without regard to its radioactivity if the licensee:
- A. Monitors byproduct material at the surface before disposal and determines that its radioactivity cannot be distinguished from the background radiation level with an appropriate radiation detection survey meter set on its most sensitive scale and with no interposed shielding; and
- B. Removes or obliterates all radiation labels, except for radiation labels on materials that are within containers and that will be managed as biomedical waste after they have been released from the licensee; and
- C. Maintains records of the disposal of licensed materials for 3 years. The record must include the date of disposal, the survey instrument used, the background radiation level, the radiation level measured at the surface of each waste container, and the name of the individual who performed the disposal.
22. 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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23. 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 January 14, 2002 [ML020160310]
- B. Letter dated October 30, 2002, and the attached Radiation Safety Manual [ML023080199]
- C. Letter received October 22, 2004 [ML043070547]



For the U.S. Nuclear Regulatory Commission

Date January 18, 2005  
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By ***Original signed by Steven Courtemanche***  
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Steven Courtemanche  
Commercial and R&D Branch  
Division of Nuclear Materials Safety  
Region I  
King of Prussia, Pennsylvania 19406