



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

April 25, 2002

Docket No. 03017514  
Control No. 131334

License No. 37-19378-01

Iain Daniels  
Laboratory Manager  
Lionville Laboratory Incorporated  
208 Welsh Pool Road  
Lionville, PA 19341-1313

SUBJECT: LIONVILLE LABORATORY, INC., ISSUANCE OF LICENSE AMENDMENT,  
CONTROL NO. 131334

Dear Mr. Daniels:

This refers to your license amendment request dated April 15, 2002. Enclosed with this letter is the amended license. Please note that authorization to use licensed material for research and development was approved pursuant to Item 6 of your application dated May 17, 2001, for renewal of your license. Authorization to use licensed material for research and development, as defined in 10 CFR 30.4 is now removed from the enclosed amended license as you requested in your letter dated April 15, 2002.

**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.

In accordance with 10 CFR 2.790, a copy of this letter will be placed in the NRC Public Document Room and will be accessible from the NRC Web site at

<http://www.nrc.gov/reading-rm.html>.

Thank you for your cooperation.

Sincerely,

***Original signed by Sattar Lodhi, Ph.D.***

Sattar Lodhi, Ph.D.  
Health Physicist  
Nuclear Materials Safety Branch 2  
Division of Nuclear Materials Safety

Enclosure:  
Amendment No. 21

Cel/29

I. Daniels  
Lionville Laboratory Incorporated

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NAME:	SLodhi/ASL							
DATE	4/25/2002							

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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>Licensee</p> <p>1. Lionville Laboratory Incorporated</p> <p>2. 208 Welsh Fool Road Lionville, Pennsylvania 19341-1313</p>	<p>In accordance with the letter dated April 15, 2002,</p> <p>3. License number 37-19378-01 is amended in its entirety to read as follows:</p> <p>4. Expiration date September 30, 2011</p> <p>5. Docket No. 030-17514</p> <p>Reference No.</p>
<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Any byproduct material with atomic number 1 through 96</p> <p>B. Any special nuclear material</p> <p>C. Any source material</p>	<p>7. Chemical and/or physical form</p> <p>A. Analytical samples</p> <p>B. Analytical samples</p> <p>C. Analytical samples</p> <p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. See Condition 12</p> <p>B. Not to exceed 2 millicuries per radionuclide and 10 millicuries total</p> <p>C. 10 millicuries</p>
<p>9. Authorized use:</p> <p>A. through C. Laboratory analysis of samples as a service for others.</p>	

**CONDITIONS**

10. Licensed material may be used only at the licensee's facilities located at 208 Welsh Pool Road, Lionville, Pennsylvania.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
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11. A. Licensed material shall be used by, or under the supervision of, Brad A. Bowser, Iain Daniels, J. Michael Taylor, or Stephen D. Wesson, Dustin A. Walker, Carter P. Nulton or Tina Keppel.
- B. The Radiation Safety Officer for this license is Brad A. Bowser.
12. The licensee shall restrict the possession of NRC licensed byproduct material to 10,000 times the quantity specified in Appendix B to 10 CFR Part 30 and in accordance with the requirements of 10 CFR 30.35. When a combination of isotopes is involved, the licensee shall restrict the possession of NRC licensed material such that  $R$  divided by 10,000 is less than or equal to 1 (unity rule), where  $R$  is defined as the sum of the ratios of the quantity of each isotope to the applicable value in Appendix B to 10 CFR Part 30.
13. Licensed material shall not be used in or on human beings.
14. The licensee shall not use licensed material in field applications where activity is released except as provided otherwise by specific condition of this license.
15. Pursuant to 10 CFR 20.2002, the licensee may dispose of analytical samples containing radioactive materials with atomic numbers 1 through 83, except as identified below, as ordinary waste in a landfill provided that the concentration of radionuclides (in microcuries per gram of sample) at the time of disposal are no greater than the values of Table II, Column 2, 10 CFR Part 20, Appendix B. For hydrogen-3, carbon-14, aluminum-26, chlorine-36, silver-108m, polonium-94, iodine-129, technetium-99, and thallium-204, the concentration can be no greater than one-tenth of the value in Table II, Column 2, 10 CFR Part 20, Appendix B. If more than one radionuclide is present in the sample, then the sum of fractions rule applies.
16. 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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17. 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. Application dated May 17, 2001  
B. Letter dated August 21, 2001



For the U.S. Nuclear Regulatory Commission

Date April 25, 2002

By

*Original signed by Sattar Lodhi, Ph.D.*

Sattar Lodhi, Ph.D.  
Nuclear Materials Safety Branch 2  
Division of Nuclear Materials Safety  
Region I  
King of Prussia, Pennsylvania 19406

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