

**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. U. S. Department of Agriculture Office of Procurement &amp; Property Management Radiation Safety Staff</p> <p>2. 5601 Sunnyside Avenue, Mailstop 5510 Beltsville, Maryland 20705</p>	<p>In accordance with the application dated December 21, 2005,</p> <p>3. License number 19-00915-06 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date March 31, 2016</p> <hr/> <p>5. Docket No. 030-06923 Reference No.</p>
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

- |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Cobalt 60</p> <p>B. Cesium 137</p> | <p>7. Chemical and/or physical form</p> <p>A. Sealed sources (AECL Models C-166, C-167, C-185, C-198; MDS Nordion Model C-198; J.L. Shepherd Models 7810, 7810-220, 6810; Gamma Industries Model VDHP; Custom sources for U.S. Nuclear Model GR-12 Irradiator)</p> <p>B. Sealed sources (ORNL Model RAMCO-50; AECL Model C-161; Sources for existing custom Irradiators)</p> | <p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. As specified in Condition 13 of this license</p> <p>B. As specified in Condition 13 of this license</p> |
|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

9. Authorized use:
- A. and B. For irradiation of non-explosive materials in the self-shielded irradiator devices that are specified in the list attached to the licensee's letter dated March 21, 2006.

**CONDITIONS**

10. Licensed material shall be used only at the licensee's facilities and locations listed in the Attachment to the application dated August 23, 2005, and other facilities of the licensee anywhere in the United States as authorized by the licensee's Radiation Safety Committee.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
19-00915-06Docket or Reference Number  
030-06923

Amendment No. 59

11. Licensed material shall be used by, or under the supervision of, individuals who have received the training described in the application dated August 23, 2005, and the letter dated March 7, 2006, and have been designated, in writing, by the Radiation Safety Officer. The licensee shall maintain records of individuals designated as users for 3 years following the last use of licensed material by the individual.
12. The Radiation Safety Officer for this license is John T. Jensen.
13. 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, or, if the device does not have a certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State, no single source to exceed the maximum activity specified in the list attached to the licensee's letter dated March 21, 2006.
14.
  - A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed six months or at 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.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License Number  
19-00915-06

Docket or Reference Number  
030-06923

Amendment No. 59

15. 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 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.
16. Sealed sources containing licensed material shall not be opened or sources removed from source holders by the licensee.
17. The licensee shall not repair, remove, replace, or alter any of the following: electrical and mechanical systems that control source or shielding movement, the irradiator's shielding or sealed source, safety interlocks, or any component that may affect safe operation of the irradiator. These activities shall be performed by a person specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
18. The procedures contained in the manufacturer's instruction manual for the irradiator authorized by this license, shall be followed, and a copy of this manual shall be made available to each person using or having responsibility for the use of the device.
19. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
20. 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 August 23, 2005 (ML052570558)
  - B. Letter dated March 21, 2006

For the U.S. Nuclear Regulatory Commission

Date March 22, 2006

By

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

\_\_\_\_\_  
Sattar Lodhi, Ph.D.  
Materials Security and Industrial Branch  
Division of Nuclear Materials Safety  
Region I  
King of Prussia, Pennsylvania 19406