

**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, 37, 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. Leidos, Inc.</p> <p>2. 13397 Lakefront Drive Suite 100 Earth City, Missouri 63045</p>	<p>In accordance with letter dated <b>May 19, 2015</b></p> <p>3. License number 24-32591-01 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date June 30, 2016</p> <hr/> <p>5. Docket No. 030-37229 Reference No.</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
<b>A. Any byproduct material with Atomic Nos. 1 through 96</b>	A. Any	A. See Condition 10
B. Any source material	B. Any	B. See Condition 10
C. Any special nuclear material	C. Any	C. See Condition 10
<b>D. Any byproduct material with Atomic Nos. 1 through 96</b>	D. Any	<b>D. 500 mCi</b>
E. Any source material	E. Any	E. Not to exceed 10 millicuries total
F. Any special nuclear material	F. Any	F. Not to exceed 10 microcuries total

9. Authorized use:

A. through C. **For use and/or possession incident to the following activities:**

- (1) **Characterization of contaminated sites including buildings, equipment and land areas;**
- (2) **Decontamination and/or remediation of contaminated sites;**
- (3) **Packaging and shipping of radioactive waste and final status surveys; and**
- (4) **Instrument calibrations, calibration checks, tracers for sample analyses.**

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D. through F. For use and/or possession incident to the following activities:

- (1) Instrument calibration as a commercial service;
- (2) Leak test sample collection and analysis as a commercial service;
- (3) Calibration checks and tracers for sample analyses;
- (4) Storage of customer contaminated analytical instrumentation, tools and equipment; and
- (5) Calibration and analytical standards for use with gamma spectroscopy systems.

**CONDITIONS**

10. A. Licensed materials listed in Subitems 6.A. through 6.C., shall be used only 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, including areas of exclusive federal jurisdiction within Agreement States. Except for calibration sources, reference standards, and radioactive contaminated equipment owned by the licensee, possession of licensed material at each temporary job site shall be limited to material originating from each site. This material must either be transferred to an authorized recipient or remain at the site after licensee activities are completed.  
  
If the jurisdiction status of a federal facility within an Agreement State is unknown, the licensee should contact the federal agency controlling the job site in question to determine whether the proposed job site is an area of exclusive federal jurisdiction. Authorization for use of radioactive materials at job sites in Agreement States not under exclusive federal jurisdiction shall be obtained from the appropriate state regulatory agency.
- B. The licensee does not take possession of the radioactive materials while at the customer's facility.
- C. Licensed materials listed in Subitems 6.D. through 6.F. may be used at the licensee's facility located at 13397 Lakefront Drive, Earth City, Missouri.
11. 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 decommissioning financial assurance.
12. A. Licensed material shall be used by or under the supervision of Dennis R. Chambers, C.H.P.  
B. The Radiation Safety Officer for this license is Dennis R. Chambers, C.H.P.
13. If a customer holds a license issued by the NRC, the licensee shall submit, to the Director, Division of Nuclear Materials Safety, U.S. Nuclear Regulatory Commission, at the Region III office referenced in Appendix D of 10 CFR Part 20, a characterization survey report including source terms and concentration profiles of the radionuclides at the temporary job site, and a remediation work plan for NRC approval prior to performing the remediation activity.

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The licensee may be required to submit a decommissioning plan pursuant to 10 CFR 30.36(g), 10 CFR 40.42(g), and 10 CFR 70.38(g).

14. This license does not authorize the use of licensed material at temporary job sites for uses already specifically authorized by the customer's license. If a customer also holds a license issued by the NRC or an Agreement State, the licensee shall establish a written agreement between the licensee and the customer, specifying which licensed activities shall will be performed under the customer's license and supervision, and which activity will be performed under the licensee's supervision pursuant to this license. The agreement shall include a commitment by the licensee and the customer to ensure safety and any commitments by the licensee to help the customer clean up the temporary job site in case of an accident. A copy of this agreement shall be included with the documents required by Condition 13.
15. The licensee shall maintain records of information important to decommissioning each temporary job site at the applicable job site pursuant to 10 CFR 30.35(g), 40.36(f), and 70.25(g). The records shall be made available to the customer upon request. At the completion of activities at a temporary job site, the licensee shall transfer these records to the customer for retention.
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 by an Agreement State. In the absence of a registration certificate, sealed sources shall be tested for leakage and/or contamination at intervals not to exceed 6 months, or at such other intervals as specified.
- B. Notwithstanding Paragraph A of this condition, sealed sources designed to primarily emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed 3 months.
- C. 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 by 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.
- D. Sealed sources need not be tested if they contain only hydrogen 3; or they contain only a radioactive gas; or the half-life of the isotope is 30 days or less; or they contain not more than 100 microcuries of beta- and/or gamma-emitting material or not more than 10 microcuries of alpha-emitting material.
- E. 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.
- F. The leak test shall be capable of detecting the presence of 0.005 microcuries (185 becquerels) of radioactive material on the test sample.

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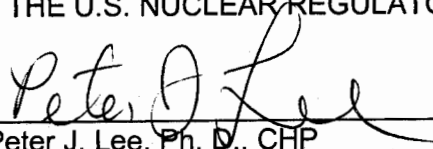
If the test reveals the presence of 0.005 microcuries (185 becquerels) or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with Appendix D of 10 CFR Part 20, and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations.

- G. Tests for leakage and/or contamination, including leak test sample collection and analysis, shall be performed by the licensee or other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
- H. Records of leak test results shall be kept in units of microcuries and shall be maintained for 3 years.
17. Sealed sources containing licensed material shall not be opened or sources removed from source holders by the licensee.
18. The licensee shall conduct a physical inventory every six months to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for three years from the date of each inventory.
19. The licensee may 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 January 18, 2006; and
- B. Letters dated March 21, 2006, May 30, 2006, January 5, 2007 (with attachment), August 23, 2007 (excluding reference to Item 2), November 18, 2009, September 13, 2013, **May 19, 2015 (with attachment), July 7, 2015**; and
- C. Facsimile dated January 5, 2010.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date FEB 09 2016

By

  
Peter J. Lee, Ph. D., CHP  
Materials Control, ISFSI, and  
Decommissioning Branch  
Region III