

**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.

PC 03120

317370

<p>Licensee</p> <p>1. <b>Cadillac Castings, Inc.</b></p> <p>2. 1500 Fourth Avenue</p> <p>Cadillac, MI 49601-9062</p>	<p>In accordance with <b>fax letter dated July 30, 2008,</b></p> <p>3. License number 21-26282-01 is amended in its entirety to read as follows:</p> <p>4. Expiration date August 31, 2012</p> <p>5. Docket No. 030-32072 Reference No.</p>
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<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Cesium-137</p>	<p>7. Chemical and/or physical form</p> <p>A.. Sealed sources (Texas Nuclear Model 696894)</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. One source not to exceed 200 millicuries</p>
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9. Authorized Use:

A. To be used in Texas Nuclear Model 5200 source holder for density/level measurements.

CONDITIONS

- 10. Licensed material shall be used only at the licensee's facilities located at 1500 Fourth Avenue, Cadillac, Michigan 49601.
- 11. A. Licensed material shall be used by, or under the supervision of, Dave Ashbay, John Braden, Erik Olson and/or Ron Stewart.
- B. The Radiation Safety Officer for this license is Erik Olson.
- C. The Assistant Radiation Safety Officer for this license is Ron Stewart.
- 12. A. The source(s) specified in Items 7.A. shall be tested for leakage and/or contamination at intervals not to exceed 3 years. Any source received from another person which is not accompanied by a certificate indicating that a test was performed within 6 months before the transfer shall not be put into use until tested.
- B. Any source in storage and not being used need not be tested. When the source is removed from storage for use or transfer to another persons, it shall be tested before use or transfer.

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- C. The 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, the source shall be removed from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. **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.**
- D. The licensee is authorized to collect leak test samples for analysis by Texas Nuclear or tests for leakage and/or contamination shall be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.
13. Sealed sources containing licensed material shall not be opened or removed from their respective source holders by the licensee.
14. Installation, initial radiation survey, relocation, removal from service, maintenance, and repair of devices containing sealed sources and installation, replacement, and disposal of sealed sources shall be performed only by persons specifically licensed by the Commission or an Agreement State to perform such services.
15. The licensee shall conduct a physical inventory every 6 months, or at other intervals 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.
16. Prior to initial use and after installation, relocation, dismantling, alignment, or any other activity involving the source or removal of the shielding, the licensee shall assure that a radiological survey is performed to determine radiation levels in accessible areas around, above, and below the gauge with the shutter open. This survey shall be performed only by persons authorized to perform such services by the U.S. Nuclear Regulatory Commission or an Agreement State.
17. The licensee shall assure that the shutter mechanism of each device is locked in the closed position during periods when a portion of an individual's body may be subject to the direct radiation beam. The licensee shall review and modify, as appropriate, its "lock out" procedures, whenever a new device is obtained, to incorporate the device manufacturer's recommendations.
18. Except for maintaining labeling as required by 10 CFR Part 20, or 71, the licensee shall obtain authorization from the U.S. Nuclear Regulatory Commission before making any changes in the sealed source, device or source-device combination that would alter the description or specifications as indicated in the respective certificate of registration issued either by the Commission pursuant to 10 CFR 32.210 or by an Agreement State.

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19. 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. Applications dated February 18, 1991, July 5, 1994 (with attachments) and February 19, 2002;
  - B. Letters dated August 19, 1994 and February 20, 2002; and
  - C. **Fax letter dated July 30, 2008.**

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date OCT 31 2008By *Loren J. Hueter*Loren J. Hueter  
Materials Licensing Branch  
Region III