

U.S. NUCLEAR REGULATORY COMMISSION

**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 03184* *576323*

Licensee

- 1. Gentex Corporation
- 2. 600 N. Centennial St.  
Zeeland, MI 49464

- 3. License number 21-32837-01
- 4. Expiration date July 31, 2022
- 5. Docket No. 030-38503  
Reference No.

- |  |  |   |
|--|--|---|
| <p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Americium-241</p> | <p>7. Chemical and/or physical form</p> <p>A. Custom Source (Foil source, Type No. AMMV577, QSA Global GmbH Braunschweig, Germany)</p> | <p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. Each source not to exceed 3.5 microcuries. Total activity not to exceed 10.5 microcuries.</p> |
|--|--|---|

9. Authorized use
- A. Custom source to be used in a Delta MIC Type EC-912 smoke measuring device to be used only by Gentex Corporation, Zeeland, Michigan.

CONDITIONS

- 10. Licensed material shall be used only at the licensee's facilities located at 380 Riley Street, Zeeland, Michigan.
- 11. A. Licensed material shall be used by, or under the supervision of, James Hayes or Ron Storteboom.  
B. The Radiation Safety Officer for this license is Brenda Wisniewski.
- 12. Foil sources shall not be removed from the source holder by the licensee.
- 13. Foil sources shall not be opened by the licensee.
- 14. Sealed sources need not be leak 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 no more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
21-32837-01Docket or Reference Number  
030-38503

15. 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 Commission or an Agreement State to perform such services.
16. Notwithstanding License Condition 15., the licensee may clean the foil sources in accordance with the procedures in application dated October 28, 2011, and letters dated May 31, 2012, and June 12, 2012. Foil sources may be cleaned only by individuals who have been trained in accordance the procedures in application dated October 28, 2011, and letters dated May 31, 2012, and June 12, 2012.
17. The licensee shall follow the instructions and/or restrictions in the manufacturer's instruction manual for the MIC type EC-912 smoke measuring device.
18. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license.
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. Application dated October 28, 2011, and
- B. Letters dated May 31, 2012, and June 12, 2012.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date JUN 21 2012

By

William P. Reichhold  
Materials Licensing Branch  
Region III