

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.

PCO 3620

574219

Licensee

In accordance with letter dated
January 4, 2011,

- 1. Dow Corning Corporation
- 2. 2200 West Salzburg Road
Auburn, MI 48611

3. License number 21-08362-08 is amended in its entirety to read as follows:

4. Expiration date May 31, 2012

5. Docket No. 030-04858
Reference No.

- | | | |
|--|----------------------------------|--|
| 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 |
| A. Carbon-14 | A. Any | A. 3 curies |
| B. Hydrogen-3 | B. Any | B. 200 millicuries |
| C. Chromium-51 | C. Any | C. 200 millicuries |
| D. Phosphorus-32 | D. Any | D. 50 millicuries |
| E. Iodine-125 | E. Prepackaged kits | E. 10 millicuries |
| F. Sulfur-35 | F. Any | F. 50 millicuries |
| G. Any byproduct material listed in Subitems A. and B. above | G. Solid and/or liquid waste | G. See Item 9.G. below |

9. Authorized Use:

- A. through E. To be used in biological tracer studies in plants, animals and micro-organisms and for research and development as defined in 10 CFR Part 30, Section 30.4.
- E. and F. To be used in biological tracer studies in plants and micro-organisms and for research and development as defined in 10 CFR Part 30, Section 30.4.
- G. Possession incident to waste disposal.

CONDITIONS

- 10. Licensed material shall be used only at the licensee's facilities located at 2200 West Salzburg Road, Auburn, Michigan.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number
21-08362-08

Docket or Reference Number
030-04858

Amendment No. 29

11. A. Radiation Safety Officer: **Paul S. Larson.**
- B. Assistant Radiation Safety Officer: **Vinita Pandit, Ph.D.**
12. Licensed material shall only be used by, or under the supervision of, individuals designated by the Radiation Safety Committee, Debra A. McNett, Chairperson. The licensee shall maintain records of individuals designated as users for 3 years after the individual's last use of licensed material.
13. Licensed material shall not be used in or on human beings.
14. Experimental animals administered licensed materials or their products shall not be used for human consumption.
15. The licensee is ~~authorized~~ to hold radioactive material with a physical half-life of less than 120 days for decay-in-storage before disposal in ordinary trash provided:
- A. ~~Before disposal as ordinary trash~~, byproduct material shall be surveyed at the container surface with the appropriate meter set on its most sensitive scale and with no interposed shielding to determine that its radioactivity cannot be distinguished from background. All radiation labels shall be removed or obliterated.
- B. Before disposal as ordinary trash, radioactive waste shall be surveyed to determine that its radioactivity cannot be distinguished from background. All radiation labels shall be removed or obliterated, unless incinerated.
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."
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 U.S. 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 December 10, 2001, and March 13, 2003; and
- B. Letters dated April 23, 2008, January 20, 2010, February 9, 2010, and **January 4, 2011 (limited to the Radiation Safety Officer and Assistant Radiation Safety Officer change.)**

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date FEB 09 2011

By James R. Mullauer
James R. Mullauer, M.H.S.
Materials Licensing Branch
Region III