

**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, 70 and 71, 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.

<b>Licensee</b>  1. Dow Corning Corporation  2. 2200 W Salzburg Rd. Auburn, MI 48611		In accordance with letter dated September 01, 2017.  3. License number: 21-08362-08	4. Expiration Date: October 31, 2022  5. Docket No.: 030-04858 Reference No.:
6. Byproduct, source, and/or special nuclear material  A. Carbon-14  B. Hydrogen-3  C. Chromium-51  D. Phosphorus-32  E. Sulfur-35  F. Iodine-125	7. Chemical and/or physical form  A. Any  B. Any  C. Any  D. Any  E. Any  F. Prepackaged Kits	8. Maximum amount that licensee may possess at any one time under this license  A. 3 curies total  B. 200 millicuries total  C. 200 millicuries total  D. 50 millicuries total  E. 50 millicuries total  F. 10 millicuries total	9. Authorized use  A. For research and development as defined in 10 CFR 30.4, including biological tracer studies in plants, animals and micro-organisms.  B. Same as Item 9.A.  C. Same as Item 9.A.  D. Same as Item 9.A.  E. Same as Item 9.A.  F. For research and development as defined in 10 CFR 30.4, including biological tracer studies in plants and micro-organisms.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
21-08362-08Docket or Reference Number  
030-04858

Amendment No. 33

- |   |                                  |  |   |
|---|----------------------------------|--|---|
| 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 | 9. Authorized use                             |
| G. Carbon-14  | G. Solid Liquid Waste            | G. See Item 6.A.   | G. For possession incident to waste disposal. |
| H. Hydrogen-3   | H. Solid Liquid Waste            | H. See Item 6.B.   | H. Same as Item 9.G.                          |

**CONDITIONS**

10. Licensed material may be used or stored at the licensee's facilities located at 200 West Salzburg Road, Auburn, Michigan.
11. The Radiation Safety Officer (RSO) for this license is Kelly A. Wegener.
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. The licensee shall not use the licensed material in or on humans, except as provided otherwise by specific condition of this license.
14. The licensee shall not use licensed material in field applications where activity is released except as provided otherwise by specific condition of this license.
15. Experimental animals, or the products from experimental animals, that have been administered licensed material shall not be used for human consumption.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
21-08362-08Docket or Reference Number  
030-04858

Amendment No. 33

16. The licensee is authorized to hold radioactive material with a physical half-life of less than or equal to 120 days for decay-in-storage before disposal in ordinary trash provided:
- A. Before disposal as ordinary trash, the waste shall be surveyed at the container surface with the appropriate survey instrument 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, except for radiation labels on materials that are within containers and that will be managed as biomedical waste after they have been released from the licensee.
  - B. A record of each such disposal permitted under this license condition shall be retained for 3 years. The record must include the date of disposal, the date on which the byproduct material was placed in storage, the radionuclides disposed, the survey instrument used, the background dose rate, the dose rate measured at the surface of each waste container, and the name of the individual who performed the disposal.

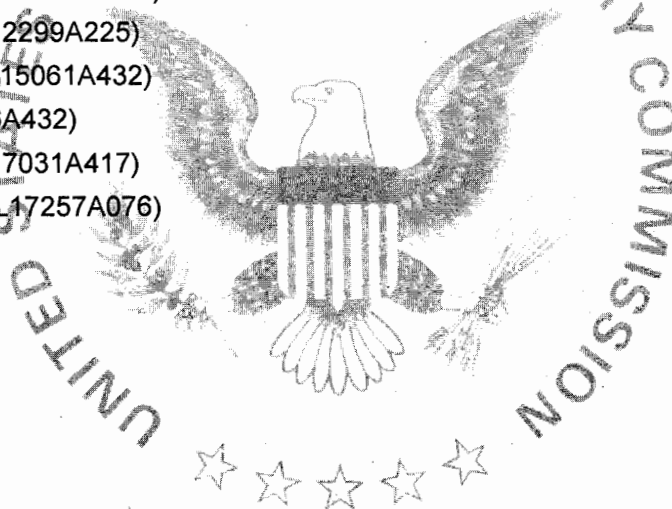
**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
21-08362-08

Amendment No. 33

Docket or Reference Number  
030-04858

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. This license condition applies only to those procedures that are required to be submitted in accordance with the regulations. 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. Application dated April 17, 2012 (ML12114A342)
- B. Letter dated October 15, 2012 (ML12299A225)
- C. Letter dated February 23, 2015 (ML15061A432)
- D. Letter dated May 7, 2015 (ML15146A432)
- E. Letter dated January 23, 2017 (ML17031A417)
- F. Letter dated September 1, 2017 (ML17257A076)



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date: December 8, 2017By: Sara A. Forster  
Sara A. Forster  
Region 3