

## U.S. NUCLEAR REGULATORY COMMISSION

Amendment No. 29

**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. MAHLE Engine Components USA, Inc.</p> <p>2. <b>2020 Sanford Street</b><br/><b>Muskegon, MI 49444</b></p> | <p>In accordance the with letter dated<br/><b>December 3, 2014,</b></p> <p>3. License number 21-12192-01 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date July 31, 2021</p> <hr/> <p>5. Docket No. 030-04910<br/>Reference No.</p> |
|--|--|

|   |   |  |
|---|---|--|
| <p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Hydrogen-3</p> | <p>7. Chemical and/or physical form</p> <p>A. Any</p> | <p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. 2000 millicuries</p> |
|---|---|--|

## 9. Authorized Use:

- A. To be used for oil consumption and emission analyses in internal combustion engines.

CONDITIONS

10. Licensed material shall be used only at the licensee's facilities located at 2020 Sanford Street, Muskegon, Michigan.
11. **A. Licensed material shall be used by, or under the supervision of Timothy J. Reiley, Michael J. Hansen, David Schroeder, Kimm K. Karrip, Keith R. Willey, James D. Wierengo or Max E. Maschewske.**
- B. The Radiation Safety Officer for the activities authorized by this license is Max E. Maschewske.
12. **Pursuant to Section 32.11, 10 CFR Part 32, the licensee is authorized to transfer engines and engine components containing tritium as a contaminant in residual engine oil at a concentration not to exceed  $3 \times 10^{-2}$  microcuries per milliliter as a product containing an exempt concentration of byproduct material. The concentration shall be controlled in accordance with procedures described in application dated February 18, 2011. Transfers shall be reported in accordance with Section 32.12, 10 CFR Part 32.**
13. Licensed material shall not be used in or on human beings or in field applications where activity is released except as provided otherwise by specific condition of this license.
14. The licensee is authorized to transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
21-12192-01Docket or Reference Number  
030-04910**Amendment No. 29**

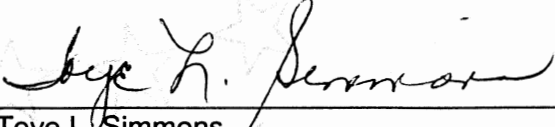
15. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The U.S. Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

- A. Application dated February 18, 2011, and;
- B. Letters dated January 3, 2013 and December 3, 2014.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date FEB 24 2015

By

  
\_\_\_\_\_  
Toye L. Simmons  
Materials Licensing Branch  
Region III