



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION III  
2443 WARRENVILLE RD. SUITE 210  
LISLE, IL 60532-4352

July 14, 2021

Max E. Maschewske  
Radiation Safety Officer  
MAHLE Industries, Inc.  
2020 Sanford St.  
Muskegon, MI 49444

Dear Mr. Maschewske:

We have reviewed the licensee's application dated May 19, 2021, to renew its U.S. Nuclear Regulatory Commission (NRC) Material License No. 21-12192-01 for MAHLE Industries, Inc.

Based on our review of the information, we have identified that additional information is needed to proceed with the renewal process. Please refer to NUREG 1556, Volume 7, Revision 1, "Consolidated Guidance About Materials Licenses," which is accessible at <https://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1556/v7/index.html> for guidance when preparing your response.

In a signed (by management) and dated letter, please provide the following information by August 16, 2021:

1. Please provide a Delegation of Authority Letter signed by senior management and the Radiation Safety Officer (RSO). Please see Appendix E in NUREG 1556, Volume 7, Revision 1 for a sample letter.
2. Please resubmit detailed facility diagram (the diagram provided is not legible), including:
  - Indicate the address and direction of north;
  - Indicate the scale/dimensions of the specific laboratories/areas;
  - Resubmit the diagram and label test cells, Radiometric Measurement Laboratory, the Radiometric Storage Area, and the engine shipping and receiving area (none of the labeling/description on the diagram provided in your application dated May 19, 2021 was legible);
  - Illustrate details inside the laboratories (fume hoods, sinks, storage of material area, waste storage area, work area, receipt area, etc.).
3. Please provide a diagram/schematic of the engine gas exhaust system.
4. Please provide the schematics/diagram of the test cell ventilation system.
5. Please confirm that hydrogen-3 handled at the Radiometric Measurement Laboratory and the Radiometric Storage Area is not volatile.

6. Radiation Monitoring Instruments:

Please provide the commitment: "We will use instruments that meet the radiation monitoring instrument specifications published in Appendix I in NUREG-1556, Volume 7, Revision 1, 'Program- Specific Guidance About Academic, Research and Development, and Other Licenses of Limited Scope.'"

7. Instrument Calibration:

Please provide the commitment: "Instruments will be calibrated before first use, at least annually thereafter, and after any repair, by a vendor that the NRC or an Agreement State has licensed to perform instrument calibration."

**OR**

Please provide the commitment: "We will implement the model radiation survey meter calibration program published in Appendix I in NUREG-1556, Volume 7, Revision 1 'Program-Specific Guidance About Academic, Research and Development, and Other Licenses of Limited Scope.'"

8. Material Receipt and Accountability:

Please provide the commitment: "We will develop, implement, and maintain procedures for ensuring accountability of licensed materials at all times."

9. Occupational Dose:

Please provide the commitment: "We will maintain, for inspection by the NRC, documentation demonstrating that unmonitored individuals are not likely to receive a radiation dose in excess of the limits in 10 CFR 20.1502."

10. Safe Use of Radionuclides, Security, and Emergency Procedures:

Please provide the following commitments: "We will develop, implement, and maintain procedures for safe use, security and emergencies."

**OR**

"We will adopt the procedures for the safe use of radionuclides, security and emergencies as published in Appendix L in NUREG-1556, Volume 7, Revision 1, 'Program- Specific Guidance About Academic, Research and Development, and Other Licenses of Limited Scope.'"

11. Surveys:

Please provide the following commitment: "We will survey our facility and maintain contamination levels in accordance with the survey frequencies and contamination levels published in Appendix M in NUREG-1556, Volume 7, Revision 1, 'Program-Specific Guidance About Academic, Research and Development, and Other Licenses of Limited Scope.'"

In accordance with Title 10 of the *Code of Federal Regulations* (CFR) 2.390, a copy of this letter and its enclosure will be available electronically for public inspection in the NRC Public Document Room or from ADAMS, accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>.

Sincerely,

Magdalena R. Gryglak  
Health Physicist  
Materials Licensing Branch

License No. 21-12192-01  
Docket No. 030-04910