

**AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL**

NUMBER 0368-BHVJMM  
Issue Date: December 16, 2019

Tenneco Canada Inc.  
500 Conestoga Boulevard  
Cambridge, Ontario  
N1R 5T7

**Site Location:** 500 Conestoga Boulevard  
Cambridge City, Regional Municipality of Waterloo  
N1R 5T7

*You have applied under section 20.2 of Part II.1 of the Environmental Protection Act , R.S.O. 1990, c. E. 19 (Environmental Protection Act) for approval of:*

A motor vehicle parts manufacturing facility, consisting of the following processes and support units:

- various general ventilation systems serving the production area, tube mill, QA/QC laboratory, and battery charging area, discharging to the atmosphere through dedicated exhaust stacks, as described in Schedule A;
- various ventilation systems serving welding processes, discharging to the atmosphere through dedicated exhaust stacks, as described in Schedule B;
- one (1) paint spray booth with a maximum usage rate of 0.5 litres per hour, identified as source EX0031, equipped with one (1) spray gun and dry type paint arrestor filters, discharging vertically into the air at a volumetric flow rate of 4.7 actual cubic metres per second, through a stack having an exit diameter of 0.76 metre, extending 2.4 metres above the roof and 9.7 metres above grade;
- three (3) cooling towers identified as CT-1, CT-2 and CT-4, each having a water recirculation rate of 1,701 litres per minute;
- one (1) cooling tower identified as CT-3, having a water recirculation rate of 3,062 litres per minute;

all in accordance with the Environmental Compliance Approval Application submitted by Tenneco Canada Inc., dated September 5, 2019 and signed by Tony Melo, Plant Manager; and the supporting information, including the Emission Summary and Dispersion Modelling Report, submitted by Roop Chanderdat and Associates Inc., dated July 9, 2019 and signed by Tim Boose; the Primary Noise Screening Method, submitted by Roop Chanderdat and Associates Inc., dated July 9, 2019 and signed by Tim Boose; and additional information provided by Tim Boose in emails dated November 17, 2019 and November 19, 2019.

*For the purpose of this environmental compliance approval, the following definitions apply:*

1. "*Approval*" means this Environmental Compliance Approval, including the application and supporting documentation listed above;
2. "*Company*" means Tenneco Canada Inc., that is responsible for the construction or operation of the *Facility* and includes any successors and assigns;
3. "*EPA*" means the Environmental Protection Act, R.S.O. 1990, c.E.19, as amended ;
4. "*Equipment*" means the equipment and processes described in the *Company's* application, this *Approval* and in the supporting documentation submitted with the application, to the extent approved by this *Approval*;
5. "*Facility*" means the entire operation located on the property where the *Equipment* is located;
6. "*Manual*" means a document or a set of documents that provide written instructions to staff of the *Company*;
7. "*Ministry*" means the ministry of the government of Ontario responsible for the *EPA* and includes all officials, employees or other persons acting on its behalf;
8. "*Publication NPC-300*" means the *Ministry* Publication NPC-300, "Environmental Noise Guideline, Stationary and Transportation Sources - Approval and Planning, Publication NPC-300", August 2013 as amended.

*You are hereby notified that this environmental compliance approval is issued to you subject to the terms and conditions outlined below:*

## **TERMS AND CONDITIONS**

### **1. OPERATION AND MAINTENANCE**

1. The *Company* shall ensure that the *Equipment* is properly operated and maintained at all times. The *Company* shall:
  - a. prepare, not later than three (3) months after the date of this *Approval*, and update as necessary, a *Manual* outlining the operating procedures and a maintenance program for the *Equipment*, including:
    - i. routine operating and maintenance procedures in accordance with good engineering practices and as recommended by the

*Equipment* suppliers;

- ii. emergency procedures, including spill clean-up procedures;
- iii. procedures for any record keeping activities relating to operation and maintenance of the *Equipment*;
- iv. all appropriate measures to minimize noise and odorous emissions from all potential sources; and
- v. the frequency of inspection and replacement of the filter material in the *Equipment*;

b. implement the recommendations of the *Manual*; and

c. retain, for a minimum of two (2) years from the date of their creation, all records on the maintenance, repair and inspection of the *Equipment*, and make these records available for review by staff of the *Ministry* upon request.

## 2. NOISE

1. The *Company* shall, at all times, ensure that the noise emissions from the *Facility* comply with the limits set out in *Ministry Publication NPC-300*.

## SCHEDULE A

| Source ID      | Description                  | Exhaust Volumetric Flowrate (cubic metres per second) | Exhaust Temperature (degrees Celsius) | Stack Exit Diameter (metres) | Stack Height Above Grade (metres) | Stack Height Above Roof (metres) |
|----------------|------------------------------|---|---------------------------------------|------------------------------|-----------------------------------|----------------------------------|
| EX-1 to EX-24  | Roof-top General Exhausts    | 5.90  | 22                                    | 1.42                         | 8.52                              | 1.27                             |
| EX-25 to EX-36 | Roof-top General Exhausts    | 1.18  | 22                                    | 0.97                         | 8.32                              | 1.07                             |
| EX-37          | Roof-top General Exhausts    | 6.51  | 22                                    | 0.97                         | 8.32                              | 1.07                             |
| EX-38          | Roof-top General Exhausts    | 4.88  | 22                                    | 0.81                         | 7.66                              | 0.41                             |
| EX-0022        | General Exhaust - Work Table | 0.25  | 22                                    | 0.38                         | 8.32                              | 1.07                             |
| EX-40          | Roof-top                     | 1.18  | 22                                    | 0.97                         | 8.32                              | 1.07-                            |

|                |                           |      |    |      |      |      |
|----------------|---------------------------|------|----|------|------|------|
|                | General Exhaust           |      |    |      |      |      |
| EX-41 to EX-52 | Roof-top General Exhausts | 2.36 | 22 | 1.54 | 8.52 | 1.27 |
| EX-53 to EX-54 | Roof-top General Exhausts | 0.80 | 22 | 0.52 | 7.76 | 0.51 |
| EX-55          | Roof-top General Exhaust  | 0.19 | 22 | 0.32 | 7.66 | 0.41 |
| EX-56          | Roof-top General Exhaust  | 2.36 | 22 | 1.54 | 8.52 | 1.27 |
| EX-57 to EX-67 | Roof-top General Exhausts | 2.36 | 22 | 1.22 | 8.52 | 1.27 |
| EX0030         | Tube Mill                 | 2.45 | 22 | 0.69 | 8.52 | 1.27 |
| EX0024         | Tube Mill                 | 7.11 | 22 | 1.17 | 10.3 | 3.10 |
| EX-70          | QA/QC Lab                 | 0.51 | 22 | 0.19 | 8.29 | 1.04 |
| EX-71          | Battery Charging Area     | 0.47 | 22 | 0.34 | 9.64 | 2.39 |

## SCHEDULE B

| Source ID | Description       | Exhaust Volumetric Flowrate (cubic metres per second) | Exhaust Temperature (degrees Celsius) | Stack Exit Diameter (metres) | Stack Height Above Grade (metres) | Stack Height Above Roof (metres) |
|-----------|-------------------|---|---------------------------------------|------------------------------|-----------------------------------|----------------------------------|
| EX0001    | Weld Cell Exhaust | 3.35  | 22                                    | 0.70                         | 9.99                              | 2.74                             |
| EX0002    | Weld Cell Exhaust | 7.36  | 22                                    | 0.91 x 0.91                  | 9.69                              | 2.44                             |
| EX0003    | Weld Cell Exhaust | 0.18  | 22                                    | 0.30                         | 9.64                              | 2.39                             |
| EX0004    | Weld Cell Exhaust | 0.18  | 22                                    | 0.30                         | 9.64                              | 2.39                             |
| EX0005    | Weld Cell Exhaust | 7.43  | 22                                    | 0.91 x 0.91                  | 9.51                              | 2.26                             |
| EX0008    | Weld Cell Exhaust | 3.60  | 22                                    | 0.25                         | 9.69                              | 2.44                             |
| EX0009    | Weld Cell Exhaust | 28.20   | 22                                    | 1.32 x 1.32                  | 9.69                              | 2.44                             |
| EX0010    | Weld Cell         | 6.77  | 22                                    | 0.85 x 0.85                  | 9.54                              | 2.29                             |

|        |                   |       |    |             |      |      |
|--------|-------------------|-------|----|-------------|------|------|
|        | Exhaust           |       |    |             |      |      |
| EX0012 | Weld Cell Exhaust | 8.76  | 22 | 0.86 x 0.86 | 9.84 | 2.59 |
| EX0013 | Weld Cell Exhaust | 5.93  | 22 | 0.81 x 0.81 | 9.56 | 2.31 |
| EX0014 | Weld Cell Exhaust | 5.00  | 22 | 0.62 x 0.83 | 9.21 | 1.96 |
| EX0015 | Weld Cell Exhaust | 4.84  | 22 | 0.76 x 0.76 | 9.41 | 2.16 |
| EX0017 | Weld Cell Exhaust | 4.66  | 22 | 0.50 x 0.62 | 8.80 | 1.50 |
| EX0019 | Weld Cell Exhaust | 14.20 | 22 | 0.83 x 1.03 | 9.74 | 2.49 |
| EX0023 | Weld Cell Exhaust | 9.26  | 22 | 0.69 x 0.97 | 8.77 | 1.52 |
| EX0026 | Weld Cell Exhaust | 3.92  | 22 | 0.70 x 0.70 | 9.54 | 2.29 |
| EX0027 | Weld Cell Exhaust | 3.60  | 22 | 0.41        | 9.54 | 2.29 |
| EX0028 | Weld Cell Exhaust | 8.19  | 22 | 1.01 x 1.01 | 9.21 | 1.96 |
| EX0029 | Weld Cell Exhaust | 5.57  | 22 | 0.66        | 9.16 | 1.91 |
| EX0033 | Weld Cell Exhaust | 7.36  | 22 | 0.91 x 0.91 | 9.69 | 2.44 |
| EX0035 | Weld Cell Exhaust | 0.20  | 22 | 0.48        | 8.63 | 1.38 |
| EX0036 | Weld Cell Exhaust | 20.10 | 22 | 0.91 x 0.91 | 9.56 | 2.31 |
| EX0037 | Weld Cell Exhaust | 7.46  | 22 | 0.76        | 9.18 | 1.93 |
| EX0038 | Weld Cell Exhaust | 0.84  | 22 | 0.41        | 9.26 | 2.01 |
| EX0039 | Weld Cell Exhaust | 17.50 | 22 | 1.32 x 1.32 | 9.66 | 2.41 |
| EX0040 | Weld Cell Exhaust | 17.80 | 22 | 1.32 x 1.32 | 9.66 | 2.41 |
| EX0042 | Weld Cell Exhaust | 14.40 | 22 | 1.01 x 1.01 | 9.56 | 2.31 |
| EX0043 | Weld Cell Exhaust | 2.37  | 22 | 0.48 x 0.61 | 8.65 | 1.40 |
| EX0044 | Weld Cell Exhaust | 7.36  | 22 | 0.91 x 0.91 | 9.69 | 2.44 |
| EX0045 | Weld Cell Exhaust | 0.20  | 22 | 0.48        | 8.63 | 1.38 |

|        |                   |       |    |             |      |      |
|--------|-------------------|-------|----|-------------|------|------|
| EX0046 | Weld Cell Exhaust | 10.00 | 22 | 0.41        | 9.21 | 1.96 |
| EX0047 | Weld Cell Exhaust | 5.00  | 22 | 0.81 x 0.81 | 9.59 | 2.34 |
| EX0048 | Weld Cell Exhaust | 0.76  | 22 | 0.58        | 9.69 | 2.44 |
| EX0049 | Weld Cell Exhaust | 4.46  | 22 | 0.70        | 9.94 | 2.69 |
| EX0050 | Weld Cell Exhaust | 12.30 | 22 | 1.01 x 1.01 | 9.56 | 2.31 |
| EX0051 | Weld Cell Exhaust | 14.40 | 22 | 1.01 x 1.01 | 9.56 | 2.31 |
| EX0052 | Weld Cell Exhaust | 14.40 | 22 | 1.01 x 1.01 | 9.56 | 2.31 |
| EX0053 | Weld Cell Exhaust | 14.40 | 22 | 1.01 x 1.01 | 9.36 | 2.11 |

*The reasons for the imposition of these terms and conditions are as follows:*

1. Condition No. 1 is included to emphasize that the *Equipment* must be maintained and operated according to a procedure that will result in compliance with the *EPA*, the *Regulations* and this *Approval*.  
In addition, the *Company* is required to keep records and to provide information to staff of the *Ministry* so that compliance with the *EPA*, the *Regulations* and this *Approval* can be verified.
2. Condition No. 2 is included to provide the minimum performance requirements considered necessary to prevent an adverse effect resulting from the operation of the *Facility*.

**Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). 4003-AQXGM8 issued on September 12, 2017**

*In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me, the Environmental Review Tribunal and in accordance with Section 47 of the Environmental Bill of Rights, 1993, the Minister of the Environment, Conservation and Parks, within 15 days after receipt of this Notice, require a hearing by the Tribunal. The Minister of the Environment, Conservation and Parks will place notice of your appeal on the Environmental Registry. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing shall state:*

- a. The portions of the environmental compliance approval or each term or condition in the

- environmental compliance approval in respect of which the hearing is required, and;
- b. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

*Pursuant to subsection 139(3) of the Environmental Protection Act, a hearing may not be required with respect to any terms and conditions in this environmental compliance approval, if the terms and conditions are substantially the same as those contained in an approval that is amended or revoked by this environmental compliance approval.*

*The Notice should also include:*

1. The name of the appellant;
2. The address of the appellant;
3. The environmental compliance approval number;
4. The date of the environmental compliance approval;
5. The name of the Director, and;
6. The municipality or municipalities within which the project is to be engaged in.

*And the Notice should be signed and dated by the appellant.*

*This Notice must be served upon:*

The Secretary\*  
Environmental Review Tribunal  
655 Bay Street, Suite 1500  
Toronto, Ontario  
M5G 1E5

AND

The Minister of the Environment,  
Conservation and Parks  
777 Bay Street, 5th Floor  
Toronto, Ontario  
M7A 2J3

AND

The Director appointed for the purposes of  
Part II.1 of the Environmental Protection Act  
Ministry of the Environment, Conservation  
and Parks  
135 St. Clair Avenue West, 1st Floor  
Toronto, Ontario  
M4V 1P5

**\* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 326-5370 or [www.ert.gov.on.ca](http://www.ert.gov.on.ca)**

*This instrument is subject to Section 38 of the Environmental Bill of Rights, 1993, that allows residents of Ontario to seek leave to appeal the decision on this instrument. Residents of Ontario may seek leave to appeal within 15 days from the date this decision is placed on the Environmental Registry. By accessing the Environmental Registry at <https://ero.ontario.ca/>, you can determine when the leave to appeal period ends.*

*The above noted activity is approved under s.20.3 of Part II.1 of the Environmental Protection Act.*

DATED AT TORONTO this 16th day of  
December, 2019

Jeffrey McKerrall, P.Eng.  
Director

appointed for the purposes of Part  
II.1 of the *Environmental Protection  
Act*

KS/

c: District Manager, MECP Guelph

Tim Boose, Roop Chanderdat and Associates Inc.