

**AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL**

NUMBER 2625-BNET4H

Issue Date: May 25, 2020

Owens Corning Composite Materials Canada GP Inc. as general partner for and on behalf of Owens Corning Composite Materials Canada LP  
247 York Road  
Guelph, Ontario  
N1E 3G4

**Site Location:** 247 York Road  
Guelph City, County of Wellington  
N1E 3G4

*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:*

## **Description Section**

A glass fibre manufacturing facility, consisting of the following processes and support units:

- raw material storage, handling and blending;
- glass melting;
- production of textile glass;
- production of textile glass products;
- packaging;
- production of oxygen for melting;
- one (1) 350 kilowatt natural gas fired generator, exhausting to the air at a flow rate of 1.28 cubic metres per second at 727 degrees Celsius; through a stack having an outside diameter of 0.20 metre, extending 16.30 metres above grade and 3.50 metres above the roof (source ID A61);
- one (1) 500 kilowatt natural gas fired generator, exhausting to the air through dual stacks each with an outside diameter of 0.15 metre, with a flow rate of 0.757 cubic metres per second at 685 degrees Celsius, extending 15.20 metres above grade and 2.40 metres above the roof (source IDs A62\_1 and A62\_2); and
- one (1) regenerative thermal oxidizer controlling the emissions of process gases from the continuous filament mat line gas fired curing oven, exhausting to the air at a maximum volumetric flow rate of 11.00 cubic metres per second, through a stack identified as source number C75, having an outside diameter of 0.76 metre,

extending 5.50 metres above the roof and 14.60 metres above grade, firing one (1) natural gas burner at 1.06 million kilojoules per hour, equipped with two (2) heat recovery beds operating at 815 degrees Celsius with a residence time of 0.75 second, equipped with continuous temperature recording and four (4) thermocouples, one (1) before and one (1) after each heat recovery bed;

including the *Equipment* and any other ancillary and support processes and activities, operating at a *Facility Production Limit* of up to 16,000 tonnes of molten glass per year discharging to the air as described in the *Original ESDM Report*.

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

1. "*ACB list*" means the document entitled "Air Contaminants Benchmarks (ACB) List: Standards, guidelines and screening levels for assessing point of impingement concentrations of air contaminants", as amended from time to time and published by the *Ministry* and available on a Government website;
2. "*Acceptable Point of Impingement Concentration*" means a concentration accepted by the *Ministry* as not likely to cause an adverse effect for a *Compound of Concern* that,
  - a. is not identified in the *ACB list*, or
  - b. is identified in the *ACB list* as belonging to the category "Benchmark 2" and has a concentration at a *Point of Impingement* that exceeds the concentration set out for the contaminant in that document.With respect to the *Original ESDM Report*, the *Acceptable Point of Impingement Concentration* for a *Compound of Concern* mentioned above is the concentration set out in the *Original ESDM Report*;
3. "*Acoustic Assessment Report*" means the reports, prepared in accordance with *Publication NPC-233* and Appendix A of the *Basic Comprehensive User Guide*, by Corey Kinart, P.Eng. / HGC Engineering and dated June 28, 2019 and April 14, 2020, submitted in support of the application, that documents all sources of noise emissions and *Noise Control Measures* present at the *Facility*, as updated in accordance with Condition 6 of this *Approval*;
4. "*Acoustic Assessment Summary Table*" means a table prepared in accordance with the *Basic Comprehensive User Guide* summarising the results of the *Acoustic Assessment Report*, as updated in accordance with Condition 6 of this *Approval*;
5. "*Acoustic Audit*" means an investigative procedure consisting of measurements and/or acoustic modelling of all sources of noise emissions due to the operation of

the *Facility*, assessed to determine compliance with the Performance Limits for the *Facility* regarding noise emissions, completed in accordance with the procedures set in *Publication NPC-103* and reported in accordance with *Publication NPC-233*;

6. "*Acoustic Audit Report*" means a report presenting the results of an *Acoustic Audit*, prepared in accordance with *Publication NPC-233*;
7. "*Acoustical Consultant*" means a person currently active in the field of environmental acoustics and noise/vibration control, who is familiar with *Ministry* noise guidelines and procedures and has a combination of formal university education, training and experience necessary to assess noise emissions from a *Facility*;
8. "*Approval*" means this entire Environmental Compliance Approval and any *Schedules* to it;
9. "*Basic Comprehensive User Guide*" means the *Ministry* document titled "Basic Comprehensive Certificates of Approval (Air) User Guide" dated March 2011, as amended;
10. "*Company*" means **Owens Corning Composite Materials Canada GP Inc. as general partner for and on behalf of Owens Corning Composite Materials Canada LP** that is responsible for the construction or operation of the *Facility* and includes any successors and assigns in accordance with section 19 of the *EPA*;
11. "*Compound of Concern*" means a contaminant described in paragraph 4 subsection 26 (1) of *O. Reg. 419/05*, namely, a contaminant that is discharged from the *Facility* in an amount that is not negligible;
12. "*Description Section*" means the section on page one of this *Approval* describing the *Company's* operations and the *Equipment* located at the *Facility* and specifying the *Facility Production Limit* for the *Facility*;
13. "*Director*" means a person appointed for the purpose of section 20.3 of the *EPA* by the *Minister* pursuant to section 5 of the *EPA*;
14. "*District Manager*" means the District Manager of the appropriate local district office of the *Ministry*, where the *Facility* is geographically located;
15. "*Emission Summary Table*" means a table described in paragraph 14 of subsection 26 (1) of *O. Reg. 419/05*;
16. "*Environmental Assessment Act*" means the Environmental Assessment Act, R.S.O. 1990, c.E.18, as amended;
17. "*EPA*" means the Environmental Protection Act, R.S.O. 1990, c.E.19, as amended;
18. "*Equipment*" means equipment or processes described in the *ESDM Report*, this *Approval* and in the *Schedules* referred to herein and any other equipment or

processes;

19. "*Equipment with Specific Operational Limits*" means the two natural gas fired generators, the regenerative thermal oxidizer and any *Equipment* related to the thermal oxidation of waste or waste derived fuels, fume incinerators or any other *Equipment* that is specifically referenced in any published *Ministry* document that outlines specific operational guidance that must be considered by the *Director* in issuing an *Approval*;
20. "*ESDM Report*" means the most current Emission Summary and Dispersion Modelling Report that describes the *Facility*. The *ESDM Report* is based on the *Original ESDM Report* and is updated after the issuance of this *Approval* in accordance with section 26 of *O. Reg. 419/05* and the *Procedure Document*;
21. "*Facility*" means the entire operation located on the property where the *Equipment* is located;
22. "*Facility Production Limit*" means the production limit placed by the *Director* on the main product(s) or raw materials used by the *Facility*;
23. "*Independent Acoustical Consultant*" means an *Acoustical Consultant* who is not representing the *Company* and was not involved in preparing the *Acoustic Assessment Report* or the design/implementation of *Noise Control Measures* for the *Facility* and/or *Equipment*. The *Independent Acoustical Consultant* shall not be retained by the *Acoustical Consultant* involved in the noise impact assessment or the design/implementation of *Noise Control Measures* for the *Facility* and/or *Equipment*;
24. "*Log*" means a document that contains a record of each change that is required to be made to the *ESDM Report* and *Acoustic Assessment Report*, including the date on which the change occurred. For example, a record would have to be made of a more accurate emission rate for a source of contaminant, more accurate meteorological data, a more accurate value of a parameter that is related to a source of contaminant, a change to a *Point of Impingement* and all changes to information associated with a *Modification* to the *Facility* that satisfies Condition 2;
25. "*Manager*" means the Manager, Technology Standards Section, Technical Assessment and Standards Development Branch, or any other person who represents and carries out the duties of the Manager, Technology Standards Section, Technical Assessment and Standards Development Branch, as those duties relate to the conditions of this *Approval*;
26. "*Minister*" means the Minister of the Environment, Conservation and Parks or such other member of the Executive Council as may be assigned the administration of the *EPA* under the Executive Council Act;
27. "*Ministry*" means the ministry of the *Minister*;

28. "*Modification*" means any construction, alteration, extension or replacement of any plant, structure, equipment, apparatus, mechanism or thing, or alteration of a process or rate of production at the *Facility* that may discharge or alter the rate or manner of discharge of a *Compound of Concern* to the air or discharge or alter noise or vibration emissions from the *Facility*;
29. "*Noise Control Measures*" means measures to reduce the noise emission from the *Facility* and/or Equipment including, but not limited to silencers, acoustic louvers, enclosures, absorptive treatment, plenums and barriers. It also means the noise control measures outlined in the *Acoustic Assessment Report*;
30. "*O. Reg. 419/05*" means Ontario Regulation 419/05, Air Pollution – Local Air Quality, as amended;
31. "*Original ESDM Report*" means the Emission Summary and Dispersion Modelling Report which was prepared in accordance with section 26 of *O. Reg. 419/05* and the *Procedure Document* by Penny McInnis / LEHDER Environmental Services Limited and dated October 2019 submitted in support of the application, and includes any changes to the report made up to the date of issuance of this *Approval*;
32. "*Point of Impingement*" has the same meaning as in section 2 of *O. Reg. 419/05*;
33. "*Point of Reception*" means Point of Reception as defined by *Publication NPC-300*;
34. "*Pre-Test Plan*" means a plan for the *Source Testing* including the information required in Section 5 of the *Source Testing Code*;
35. "*Procedure Document*" means *Ministry* guidance document titled "Procedure for Preparing an Emission Summary and Dispersion Modelling Report" dated February 2017, as amended;
36. "*Processes with Significant Environmental Aspects*" means the *Equipment* which, during regular operation, would discharge one or more contaminants into the air in an amount which is not considered as negligible in accordance with section 26 (1) 4 of *O. Reg. 419/05* and the *Procedure Document*;
37. "*Publication NPC-103*" means the *Ministry* Publication NPC-103 of the Model Municipal Noise Control By-Law, Final Report, August 1978, published by the *Ministry* as amended;
38. "*Publication NPC-207*" means the *Ministry* draft technical publication "Impulse Vibration in Residential Buildings", November 1983, supplementing the Model Municipal Noise Control By-Law, Final Report, published by the *Ministry*, August 1978, as amended;
39. "*Publication NPC-233*" means the *Ministry* Publication NPC-233, "Information to

be Submitted for Approval of Stationary Sources of Sound", October, 1995, as amended;

40. "*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;
41. "*Schedules*" means the following schedules attached to this *Approval* and forming part of this *Approval* namely:
  - Schedule A - Supporting Documentation
  - Schedule B - Continuous Temperature Monitor
  - Schedule C - *Test Contaminants* and Maximum Limits
  - Schedule D - *Source Testing Procedures*
42. "*Source Testing*" means site-specific sampling and testing to measure emissions resulting from operating the *Targeted Sources* under operating conditions that will derive an emission rate that, for the relevant averaging period of the contaminant, is at least as high as the maximum emission rate that the source of contaminant is reasonably capable of, within the approved operating range of the *Targeted Sources* which satisfies paragraph 1 of subsection 11(1) of O. Reg. 419/05;
43. "*Source Testing Code*" means the Ontario Source Testing Code, dated June 2010, prepared by the *Ministry*, as amended;
44. "*Targeted Sources*" means the two natural gas fired generators described in the *Company's* application, this *Approval* and in the supporting documentation submitted with the application, to the extent approved by this *Approval*;
45. "*Test Contaminants*" means the contaminants listed in Schedule C;
46. "*Toxicologist*" means a qualified professional currently active in the field of risk assessment and toxicology that has a combination of formal university education, training and experience necessary to assess contaminants; and
47. "*Written Summary Form*" means the electronic questionnaire form, available on the *Ministry* website, and supporting documentation, that documents the activities undertaken at the *Facility* in the previous calendar year.

*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. GENERAL

1. Except as otherwise provided by this *Approval*, the *Facility* shall be designed, developed, built, operated and maintained in accordance with the terms and conditions of this *Approval* and in accordance with the following *Schedules* attached hereto:

- Schedule A - Supporting Documentation
- Schedule B - Continuous Temperature Monitor
- Schedule C - *Test Contaminants* and Maximum Limits
- Schedule D - *Source Testing* Procedures

## 2. LIMITED OPERATIONAL FLEXIBILITY

1. Pursuant to section 20.6 (1) of the *EPA* and subject to Conditions 2.2 and 2.3 of this *Approval*, future construction, alterations, extensions or replacements are approved in this *Approval* if the future construction, alterations, extensions or replacements are *Modifications* to the *Facility* that:

- a. are within the scope of the operations of the *Facility* as described in the *Description Section* of this *Approval*;
- b. do not result in an increase of the *Facility Production Limit* above the level specified in the *Description Section* of this *Approval*; and
- c. result in compliance with the performance limits as specified in Condition 4.

2. Condition 2.1 does not apply to,

- a. the addition of any new *Equipment with Specific Operational Limits* or to the *Modification* of any existing *Equipment with Specific Operational Limits* at the *Facility*; and
- b. *Modifications* to the *Facility* that would be subject to the *Environmental Assessment Act*.

3. Condition 2.1 of this *Approval* shall expire ten (10) years from the date of this *Approval*, unless this *Approval* is revoked prior to the expiry date. The *Company* may apply for renewal of Condition 2.1 of this *Approval* by including an *ESDM Report* and an *Acoustic Assessment Report* that describes the *Facility* as of the date of the renewal application.

## 3. REQUIREMENT TO REQUEST AN ACCEPTABLE POINT OF IMPINGEMENT CONCENTRATION

1. Prior to making a *Modification* to the *Facility* that satisfies Condition 2.1.a. and 2.1.b., the *Company* shall prepare a proposed update to the *ESDM Report* to reflect the proposed *Modification*.

2. The *Company* shall request approval of an *Acceptable Point of Impingement*

*Concentration* for a *Compound of Concern* if the *Compound of Concern* is not identified in the *ACB list* as belonging to the category “Benchmark 1” and a proposed update to an *ESDM Report* indicates that one of the following changes with respect to the concentration of the *Compound of Concern* may occur:

- a. The *Compound of Concern* was not a *Compound of Concern* in the previous version of the *ESDM Report* and
    - i. the concentration of the *Compound of Concern* exceeds the concentration set out for the contaminant in the *ACB list*; or
    - ii. the *Compound of Concern* is not identified in the *ACB list*; or
  - b. The concentration of the *Compound of Concern* in the updated *ESDM Report* exceeds the higher of,
    - i. the most recent *Acceptable Point of Impingement Concentration*, and
    - ii. the concentration set out for the contaminant in the *ACB list*, if the contaminant is identified in that document.
3. The request required by Condition 3.2 shall propose a concentration for the *Compound of Concern* and shall contain an assessment, performed by a *Toxicologist*, of the likelihood of the proposed concentration causing an adverse effect at *Points of Impingement*.
  4. If the request required by Condition 3.2 is a result of a proposed *Modification* described in Condition 3.1, the *Company* shall submit the request, in writing, to the *Director* at least 30 days prior to commencing to make the *Modification*. The *Director* shall provide written confirmation of receipt of this request to the *Company*.
  5. If a request is required to be made under Condition 3.2 in respect of a proposed *Modification* described in Condition 3.1, the *Company* shall not make the *Modification* mentioned in Condition 3.1 unless the request is approved in writing by the *Director*.
  6. If the *Director* notifies the *Company* in writing that the *Director* does not approve the request, the *Company* shall,
    - a. revise and resubmit the request; or
    - b. notify the *Director* that it will not be making the *Modification*.
  7. The re-submission mentioned in Condition 3.6 shall be deemed a new submission under Condition 3.2.
  8. If the *Director* approves the request, the *Company* shall update the *ESDM*



*Report to reflect the Modification.*

9. Condition 3 does not apply if Condition 2.1 has expired.

#### **4. PERFORMANCE LIMITS**

1. Subject to Condition 4.2, the *Company* shall not discharge or cause or permit the discharge of a *Compound of Concern* into the air if,
  - a. the *Compound of Concern* is identified in the *ACB list* as belonging to the category "Benchmark 1" and the discharge results in the concentration at a *Point of Impingement* exceeding the Benchmark 1 concentration; or
  - b. the *Compound of Concern* is not identified in the *ACB list* as belonging to the category "Benchmark 1" and the discharge results in the concentration at a *Point of Impingement* exceeding the higher of,
    - i. if an *Acceptable Point of Impingement Concentration* exists, the most recent *Acceptable Point of Impingement Concentration*, and
    - ii. the concentration set out for the contaminant in the *ACB list*, if the contaminant is identified in that document.
2. Condition 4.1 does not apply if the benchmark set out in the *ACB list* has a 10-minute averaging period and no ambient monitor indicates an exceedance at a *Point of Impingement* where human activities regularly occur at a time when those activities regularly occur.
3. The *Company* shall:
  - a. at all times, ensure that the noise emissions from the *Facility* comply with the limits set out in *Ministry Publication NPC-300*; and
  - b. ensure that the *Noise Control Measures* are properly maintained and continue to provide the acoustical performance outlined in the *Acoustic Assessment Report*.
4. The *Company* shall, at all times, ensure that the vibration emissions from the *Facility* comply with the limits set out in *Ministry Publication NPC-207*.
5. The *Company* shall operate any *Equipment with Specific Operational Limits* approved by this *Approval* in accordance with the *Original ESDM Report* and Conditions 5, 7 and 15 in this *Approval*.

#### **5. EQUIPMENT WITH SPECIFIC OPERATIONAL LIMITS - REGENERATIVE THERMAL OXIDIZER**

1. The *Company* shall ensure that the regenerative thermal oxidizer system serving the Continuous Filament Mat line natural gas fired curing oven is designed and operated to comply, at all times, with the following performance

requirements:

- a. The temperature in the combustion chamber shall be maintained at a minimum of 815 degrees Celsius, as measured by the continuous monitoring and recording system, throughout the combustion cycle;
- b. The residence time of the combustion gases in the combustion chamber shall be not less than 0.75 second at a temperature of not less than 815 degrees Celsius;
- c. The concentration of organic matter, expressed as equivalent methane, being an average of ten measurements taken at approximately one minute intervals, in the combustion gases emitted into the atmosphere from operating the regenerative thermal oxidizer system, shall not be greater than 100 parts per million by volume, measured on an undiluted basis.

## **6. DOCUMENTATION REQUIREMENTS**

1. The *Company* shall maintain an up-to-date *Log*.
2. No later than June 30 in each year, the *Company* shall update the *Acoustic Assessment Report* and shall update the *ESDM Report* in accordance with section 26 of *O. Reg. 419/05* so that the information in the reports is accurate as of December 31 in the previous year.
3. The *Company* shall make the *Emission Summary Table* (see section 27 of *O. Reg. 419/05*) and *Acoustic Assessment Summary Table* available for examination by any person, without charge, by posting it on the Internet or by making it available during regular business hours at the *Facility*.
4. The *Company* shall, within three (3) months after the expiry of Condition 2.1 of this *Approval*, update the *ESDM Report* and the *Acoustic Assessment Report* such that the information in the reports is accurate as of the date that Condition 2.1 of this *Approval* expired.
5. Conditions 6.1 and 6.2 do not apply if Condition 2.1 has expired.

## **7. CONTINUOUS MONITORING - REGENERATIVE THERMAL OXIDIZER**

1. The *Company* shall install and subsequently conduct and maintain a program to continuously monitor:
  - a. the temperature in the combustion chamber of the regenerative thermal oxidizer system, where the minimum retention time of the combustion gases of not less than 0.75 second at a minimum temperature of 815 degrees Celsius is achieved.
  - b. The continuous monitoring and recording system shall be equipped with continuous recording devices, and shall comply with the requirements

outlined in the attached Schedule B.

## 8. REPORTING REQUIREMENTS

1. Subject to Condition 6.2, the *Company* shall provide the *Director* no later than August 31 of each year, a *Written Summary Form* to be submitted through the *Ministry's* website that shall include the following:
  - a. a declaration of whether the *Facility* was in compliance with section 9 of the *EPA, O. Reg. 419/05* and the conditions of this *Approval*;
  - b. a summary of each *Modification* satisfying Condition 2.1.a. and 2.1.b. that took place in the previous calendar year that resulted in a change in the previously calculated concentration at a *Point of Impingement* for any *Compound of Concern* or resulted in a change in the sound levels reported in the *Acoustic Assessment Summary Table* at any *Point of Reception*.
2. A copy of the *Written Summary Form* shall also be submitted to the *District Manager*.
3. Condition 8.1 does not apply if Condition 2.1 has expired.

## 9. OPERATION AND MAINTENANCE

1. The *Company* shall prepare and implement, not later than three (3) months from the date of this *Approval*, operating procedures and maintenance programs for all *Processes with Significant Environmental Aspects*, which shall specify as a minimum:
  - a. frequency of inspections and scheduled preventative maintenance;
  - b. procedures to prevent upset conditions;
  - c. procedures to minimize all fugitive emissions;
  - d. procedures to prevent and/or minimize odorous emissions;
  - e. procedures to prevent and/or minimize noise emissions; and
  - f. procedures for record keeping activities relating to the operation and maintenance programs.
2. The *Company* shall ensure that all *Processes with Significant Environmental Aspects* are operated and maintained in accordance with this *Approval*, the operating procedures and maintenance programs.

## 10. COMPLAINTS RECORDING AND REPORTING

1. If at any time, the *Company* receives an environmental complaint from the public regarding the operation of the *Equipment* approved by this *Approval*, the *Company* shall take the following steps:

- a. Record and number each complaint, either electronically or in a log book. The record shall include the following information: the time and date of the complaint and incident to which the complaint relates, the nature of the complaint, wind direction at the time and date of the incident to which the complaint relates and, if known, the address of the complainant.
- b. Notify the *District Manager* of the complaint within two (2) business days after the complaint is received, or in a manner acceptable to the *District Manager*.
- c. Initiate appropriate steps to determine all possible causes of the complaint, and take the necessary actions to appropriately deal with the cause of the subject matter of the complaint.
- d. Complete and retain on-site a report written within one (1) week of the complaint date. The report shall list the actions taken to appropriately deal with the cause of the complaint and set out steps to be taken to avoid the recurrence of similar incidents.

## 11. RECORD KEEPING REQUIREMENTS

1. Any information requested by any employee in or agent of the *Ministry* concerning the *Facility* and its operation under this *Approval*, including, but not limited to, any records required to be kept by this *Approval*, shall be provided to the employee in or agent of the *Ministry*, upon request, in a timely manner.
2. Unless otherwise specified in this *Approval*, the *Company* shall retain, for a minimum of five (5) years from the date of their creation all reports, records and information described in this *Approval*, including,
  - a. a copy of the *Original ESDM Report* and each updated version;
  - b. a copy of each version of the *Acoustic Assessment Report*;
  - c. supporting information used in the emission rate calculations performed in the *ESDM Reports* and *Acoustic Assessment Reports*;
  - d. the records in the *Log*;
  - e. copies of each *Written Summary Form* provided to the *Ministry* under Condition 8.1 of this *Approval*;
  - f. records of maintenance, repair and inspection of *Equipment* related to all *Processes with Significant Environmental Aspects*; and
  - g. all records related to environmental complaints made by the public as required by Condition 10 of this *Approval*.

## 12. REVOCATION OF PREVIOUS APPROVALS

1. This *Approval* replaces and revokes all Certificates of Approval (Air) issued under section 9 *EPA* and Environmental Compliance Approvals issued under Part II.1 *EPA* to the *Facility* in regards to the activities mentioned in subsection 9(1) of the *EPA* and dated prior to the date of this *Approval*.

## 13. PUBLIC LIAISON COMMITTEE

1. The *Company* shall facilitate and participate in a Public Liaison Committee (PLC). The objectives of the PLC shall include:
  - a. Keeping the community informed about the operations of the *Facility* in relation to the requirements of this *Approval*.
  - b. Keeping the *Company* informed of any community concerns about the operations of the *Facility*.
  - c. To serve as a forum for the dissemination, review and exchange of information related to the *Facility*.
2. The PLC shall not exercise any supervisory, regulatory or approval roles with respect to the operation of the *Facility*.
3. To fulfil the objectives of the PLC, the *Company* shall ensure that:
  - a. Any amendments to the terms of reference (TOR) developed by the *Company* and accepted by the PLC must be agreed to by the *District Manager* prior to its implementation.
4. The *Company* shall provide for the ongoing administrative costs of the PLC, including, at a minimum:
  - a. providing a meeting space for PLC meetings; and
  - b. providing access to resources, such as a photocopier, stationery, and office supplies, so that the PLC can:
    - i. prepare and distribute meeting notices;
    - ii. record and distribute minutes of each meeting; and
    - iii. prepare reports about the PLC's activities.
5. The PLC shall meet four (4) times a year, be provided with information on an on-going basis and be notified of any significant events, including but not limited to process upsets, failure of any equipment, including failure of any air pollution control equipment, in the *Facility*.
6. The PLC shall review all *Written Summary Forms* and the quarterly and annual reports on the ambient air monitoring results before they are submitted to the *Ministry*.

7. The PLC shall review all amendments to this *Approval* or facility operations before the application is submitted to the *Ministry*.
8. The *Company* shall submit any reports reviewed by the PLC to the *District Manager*.

#### 14. **AIR QUALITY MONITORING PROGRAM**

1. The *Company* shall:
  - a. Continue to measure hexavalent chromium compounds at the three (3) locations approved by the *District Manager*.
2. All aspects of the ambient air quality program are subject to audit at any time by *Ministry* designated personnel.
3. The *Company* shall submit quarterly and annual reports on the ambient air monitoring results to the *District Manager* and shall, during regular business hours, make a copy of the annual reports on the ambient air monitoring available for inspection at the *Facility* by any interested member of the public.
4. The *Company* may request relief from the air quality monitoring program from the *District Manager*. The *District Manager* reserves the right to grant relief from the air quality monitoring program, or to require a resumption of the air quality monitoring program.

#### 15. **SOURCE TESTING - NATURAL GAS FIRED GENERATORS**

1. The *Company* shall perform *Source Testing* in accordance with the procedures in Schedule D to determine the rates of emissions of the *Test Contaminants* listed in Schedule C from the natural gas fired generators, within three (3) months from the date of this *Approval*.
2. The *Company* shall ensure that the emissions of the *Test Contaminants* in the gases emitted from the stack of the *Targeted Sources* shall not be greater than the emission limits specified in Schedule C of this *Approval*.
3. The *Company* shall perform *Source Testing* every two (2) years to determine the rate of emission of the *Test Contaminants* from the *Targeted Sources*.

#### 16. **ACOUSTIC AUDIT**

1. The *Company* shall carry out *Acoustic Audit* measurements on the actual noise emissions due to the operation of the *Facility*. The *Company*:
  - a. shall carry out *Acoustic Audit* measurements in accordance with the procedures in *Publication NPC-103*;
  - b. shall submit an *Acoustic Audit Report* on the results of the *Acoustic Audit*, prepared by an *Independent Acoustical Consultant*, in accordance with the requirements of *Publication NPC-233*, to the *District Manager*

and the *Director*, not later than October 27, 2020.

2. The *Director*:

- a. may not accept the results of the *Acoustic Audit* if the requirements of *Publication NPC-233* were not followed;
- b. may require the *Company* to repeat the *Acoustic Audit* if the results of the *Acoustic Audit* are found unacceptable to the *Director*.

## **SCHEDULE A**

### **Supporting Documentation**

1. Environmental Compliance Approval Application, dated November 14, 2019 signed by Robert Nixon and submitted by the *Company*;
2. Emission Summary and Dispersion Modelling Report, prepared by Penny McInnis and dated October 2019;
3. Email updates provided by Penny McInnis on January 6, 14, 17, 20, 24, 28, February 6, 13, March 6, 10, and May 21, 2020;
4. *Acoustic Assessment Report*, prepared by HGC Engineering, dated June 28, 2019 and signed by Corey Kinart, P.Eng.; and
5. *Acoustic Assessment Report* - Supplemental Information prepared by HGC Engineering, dated April 14, 2020 and signed by Corey Kinart, P.Eng.

## **SCHEDULE B**

### **CONTINUOUS TEMPERATURE MONITOR**

#### **LOCATION:**

The sample point for the continuous temperature monitoring and recording system shall be located in the combustion chamber of the regenerative thermal oxidizer where the minimum retention time of the combustion gases of not less than 0.75 second at a minimum temperature of 815 degrees Celsius is achieved.

#### **PERFORMANCE:**

The continuous temperature monitor shall meet the minimum performance specifications for the following parameters.

#### **Parameter and Specification**

PARAMETER	SPECIFICATION
Type:	shielded "K" type thermocouple, or equivalent
Accuracy:	± 1.5 percent of the minimum gas temperature

**DATA RECORDER:**

The data recorder must be capable of registering continuously the measurement of the monitor without a significant loss of accuracy and with a time resolution of 1 minute or better.

**RELIABILITY:**

The monitor shall be operated and maintained so that accurate data is obtained during a minimum of 95 percent of the time for each calendar quarter.

**SCHEDULE C**

**Test Contaminants and Maximum Limits**

<i>Test Contaminants</i>	<i>Maximum Limit</i>	<i>Retesting schedule</i>
Nitrogen Oxides	0.4 kg/MWh	Every two (2) years

**SCHEDULE D**

***Source Testing Procedures***

1. The *Company* shall submit, not later than three (3) months prior to the *Source Testing*, to the *Manager* a *Pre-Test Plan* for the *Source Testing* required under this *Approval*. The *Company* shall finalize the *Pre-Test Plan* in consultation with the *Manager*.
2. The *Company* shall not commence the *Source Testing* required under this *Approval* until the *Manager* has approved the *Pre-Test Plan*.
3. The *Company* shall notify the *Manager*, the *District Manager* and the *Director* in writing of the location, date and time of any impending *Source Testing* required by



this *Approval*, at least fifteen (15) days prior to the *Source Testing*.

4. The *Company* shall submit a report (electronic format) on the *Source Testing* to the *Manager*, the *District Manager* and the *Director* not later than three (3) months after completing the *Source Testing*. The report shall be in the format described in the *Source Testing Code*, and shall also include, but not be limited to:
  1. an executive summary;
  2. an identification of the applicable North American Industry Classification System code (NAICS) for the *Facility*;
  3. records of operating conditions at the time of *Source Testing*, including but not limited to the following:
    - a. production data and equipment operating rate as a percentage of maximum capacity;
    - b. *Facility*/process information related to the operation of the *Targeted Sources*;
    - c. description of the emission sources controlled by the *Targeted Sources* at the time of testing; and
    - d. operational description of the general building ventilation at the time of testing;
  4. results of *Source Testing*, including the emission rate, emission concentration, and relevant emission factor of the *Test Contaminants* from the *Targeted Sources*;
  5. a tabular comparison of calculated emission rates and emission factors based on *Source Testing* results for the *Test Contaminants* to relevant estimates described in the *ESDM Report*, and,
5. The *Director* may not accept the results of the *Source Testing* if:
  1. the *Source Testing Code* or the requirement of the *Manager* were not followed;
  2. the *Company* did not notify the *Manager*, the *District Manager* and *Director* of the *Source Testing*; or
  3. the *Company* failed to provide a complete report on the *Source Testing*.
6. If the *Director* does not accept the result of the *Source Testing*, the *Director* may require re-testing. If re-testing is required, the *Pre-Test Plan* strategies need to be revised and submitted to the *Manager* for approval. The actions taken to minimize the possibility of the *Source Testing* results not being accepted by the *Director* must be noted in the revision.
7. The *Company* shall update their *ESDM Report* in accordance with Section 26 of

O. Reg. 419/05 and the *Procedure Document* with the results from the *Source Testing* if any of the calculated emission factors or calculated emission rates are higher than the predicted rates in the *ESDM report*, not later than three (3) months after the submission of the *Source Testing* report and make these records available for review by staff of the *Ministry* upon request.

8. The *District Manager* may not require subsequent *Source Testing* or relax the frequency of subsequent *Source Testing* if the results of the *Source Testing* indicate that the environmental impact from the *Test Contaminant* are insignificant.

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

1. **GENERAL**

Condition No. 1 is included to require the *Approval* holder to build, operate and maintain the *Facility* in accordance with the Supporting Documentation in Schedule A considered by the *Director* in issuing this *Approval*.

2. **LIMITED OPERATIONAL FLEXIBILITY, REQUIREMENT TO REQUEST AN ACCEPTABLE POINT OF IMPINGEMENT CONCENTRATION AND PERFORMANCE LIMITS**

Conditions No. 2, 3 and 4 are included to limit and define the *Modifications* permitted by this *Approval*, and to set out the circumstances in which the *Company* shall request approval of an *Acceptable Point of Impingement Concentration* prior to making *Modifications*. The holder of the *Approval* is approved for operational flexibility for the *Facility* that is consistent with the description of the operations included with the application up to the *Facility Production Limit*. In return for the operational flexibility, the *Approval* places performance based limits that cannot be exceeded under the terms of this *Approval*. *Approval* holders will still have to obtain other relevant approvals required to operate the *Facility*, including requirements under other environmental legislation such as the *Environmental Assessment Act*.

3. **EQUIPMENT WITH SPECIFIC OPERATIONAL LIMITS - REGENERATIVE THERMAL OXIDIZER**

Condition No. 5 is included to outline the specific operational limits considered necessary to prevent an adverse effect resulting from the operation of the regenerative thermal oxidizer system. This *Condition* is also included to emphasize that the regenerative thermal oxidizer system must be operated according to a procedure that will result in compliance with the *EPA*, the regulations and this *Approval*.

4. **DOCUMENTATION REQUIREMENTS**

Condition No. 6 is included to require the *Company* to maintain ongoing

documentation that demonstrates compliance with the performance limits as specified in Condition 4 of this *Approval* and allows the *Ministry* to monitor ongoing compliance with these performance limits. The *Company* is required to have an up to date *ESDM Report* and *Acoustic Assessment Report* that describe the *Facility* at all times and make the *Emission Summary Table* and *Acoustic Assessment Summary Table* from these reports available to the public on an ongoing basis in order to maintain public communication with regard to the emissions from the *Facility*.

**5. CONTINUOUS MONITORING - REGENERATIVE THERMAL OXIDIZER**

Condition No. 7 is included to require the *Company* to gather accurate information on a continuous basis so that compliance with the *EPA*, the regulations and this *Approval* can be verified.

**6. REPORTING REQUIREMENTS**

Condition No. 8 is included to require the *Company* to provide a yearly *Written Summary Form* to the *Ministry*, to assist the *Ministry* with the review of the site's compliance with the *EPA*, the regulations and this *Approval*.

**7. OPERATION AND MAINTENANCE**

Condition No. 9 is included to require the *Company* to properly operate and maintain the *Processes with Significant Environmental Aspects* to minimize the impact to the environment from these processes.

**8. COMPLAINTS RECORDING AND REPORTING PROCEDURE**

Condition No. 10 is included to require the *Company* to respond to any environmental complaints regarding the operation of the *Equipment*, according to a procedure that includes methods for preventing recurrence of similar incidents and a requirement to prepare and retain a written report.

**9. RECORD KEEPING REQUIREMENTS**

Condition No. 11 is included to require the *Company* to retain all documentation related to this *Approval* and provide access to employees in or agents of the *Ministry*, upon request, so that the *Ministry* can determine if a more detailed review of compliance with the performance limits as specified in Condition 4 of this *Approval* is necessary.

**10. REVOCATION OF PREVIOUS APPROVALS**

Condition No. 12 is included to identify that this *Approval* replaces all Section 9 Certificate(s) of Approval and Part II.1 Approvals in regards to the activities mentioned in subsection 9(1) of the *EPA* and dated prior to the date of this *Approval*.

**11. PUBLIC LIAISON COMMITTEE**

Condition No. 13 is included to require the *Company* to involve and inform the public on the environmental performance of the *Facility*.

**12. AIR QUALITY MONITORING PROGRAM**

Condition No. 14 is included to require the *Company* to gather accurate information so that the environmental impact and subsequent compliance with the *EPA*, the Regulations and this *Approval* can be verified.

**13. SOURCE TESTING - NATURAL GAS FIRED GENERATORS**

Condition No. 15 is included to require the *Company* to gather accurate information so that the environmental impact and subsequent compliance with the *EPA*, the regulations and this *Approval*.

**14. ACOUSTIC AUDIT**

Condition No. 16 is included to require the *Company* to gather accurate information and submit an *Acoustic Audit Report* in accordance with procedures set in the *Ministry's* noise guidelines, so that the environmental impact and subsequent compliance with this *Approval* can be verified.

**Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). 4548-AA3QXU issued on June 22, 2016.**

*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*		The Minister of the Environment, Conservation and Parks		The Director appointed for the purposes of Part II.1 of the Environmental Protection Act
Environmental Review Tribunal				Ministry of the Environment, Conservation and Parks
655 Bay Street, Suite 1500	AND	777 Bay Street, 5th Floor	AND	135 St. Clair Avenue West, 1st Floor
Toronto, Ontario		Toronto, Ontario		Toronto, Ontario
M5G 1E5		M7A 2J3		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 25th day of May, 2020

Rudolf Wan, P.Eng.  
Director  
appointed for the purposes of Part  
II.1 of the *Environmental  
Protection Act*

EC/  
c: District Manager, MECP Guelph  
Penny McInnis, LEHDER Environmental Services Limited