

ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER: 0001118780

Version: 1.0

Issue Date: 08/16/2020

Pursuant to section 20.3 of the Environmental Protection Act, R.S.O. 1990, c. E. 19 and subject to all other applicable Acts or regulations this Environmental Compliance Approval is issued to:

Client Name: CANDOR INDUSTRIES INC**Address:** Street Information: 125 Martin Ross Avenue (AV)
Unit: Unit 9
City/Town: Toronto
Municipality: TORONTO
State/Province: ONTARIO
Postal Code: M3J 2L9
Country: Canada

For the following site:

Site Name: Candor Industries**Site Location:** Street Information: 125 MARTIN ROSS Avenue (AVE)
Unit: 9
Postal Code: M3J 2L9
City/Town: NORTH YORK
Municipality: TORONTO
State/Province: ONTARIO
Country: CANADA
MECP District/Area Office: Toronto District Office

This Environmental Compliance Approval includes the following:

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Section 1: Activity Description

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:

- one (1) natural gas-fired Generac MGG450 reciprocating engine generator, used for electricity generation, having a maximum power rating of 360 kilowatts of electrical output, and discharging to the air at a maximum volumetric flow rate of 0.8 actual cubic metres per second through a stack having an exit diameter of 0.11 metre and extending 2.9 metres above grade;
- one (1) exhaust fan (Stack 3), serving a print drying oven, discharging into the air at a volumetric flow rate of 0.24 actual cubic metres per second, through a stack, having an exit diameter of 0.15 metre, extending 1.5 metres above roof and 6.4 metres above grade;
- one (1) packed bed scrubber 1.2 metres by 1.0 metre cross section, with a packing height of 1.2 metres employing water as a scrubbing medium (Stack 4), serving the Gold Line, Tin Line, Manual Coating and Copper Plating Line, Brown Oxide Line, Pumice Line and Shadow Line, exhausting into the air at a maximum volumetric flow rate of 1.42 normal cubic metres per second through a stack having an exit diameter of 0.2 metre extending 1.52 metre above the roof and 6.42 metres above grade;
- one (1) packed bed scrubber 0.46 metre in diameter with a packing height of 1.5 metres employing water as a scrubbing medium (Stack 5), serving the DES line and exhausting into the air at a maximum volumetric flow rate of 1.18 normal cubic metres per second through a stack having exit dimensions of 0.25 metre by 0.30 metre, extending 2.41 metre above the roof and 7.31 metres above grade;
- one (1) baghouse dust collector (Stack 6), to control glass epoxy particulate emissions from the CNC drilling machine, complete with a polyester filter having a filtering area of 6.8 square metres and a shaker type cleaning system, discharging into the air at a maximum volumetric flow rate of 0.13 normal cubic metre per second, through a stack, having an exit diameter of 0.15 metre, extending 1.22 metres above grade;
- one (1) natural gas fired hot water boiler (Stack 7), with a maximum heat input of 1,077,300 kilojoules per hour, discharging into the air at a volumetric flow rate of 0.16 actual cubic metres per second, through a stack, having an exit diameter of 0.3 metre, extending 1.63 metres above roof and 6.53 metres above grade;
- one (1) exhaust fan (Stack 8), serving a Mono Lam (Multi-Layer Lamination Process), discharging into the air at a volumetric flow rate of 0.43 actual cubic metre per second, through a stack, having an exit diameter of 0.15 metre, extending 1.93 metres above roof and 6.83 metres above grade;
- two (2) exhaust fans (Stacks 9A and 9B), serving a Solder Mask Teckdry Convey Oven Process, each discharging into the air at a volumetric flow rate of 0.42 actual cubic metre per second, through stacks, having an exit diameter of 0.25 metre, extending 1.63 metres above roof and 6.83 metres above grade;
- one (1) exhaust fan (Stack 10), serving a Solder Mask Developer Process, discharging into the air at a volumetric flow rate of 0.23 actual cubic metre per second, through a stack, having an exit diameter of 0.15 metre, extending 1.47 metres above roof and 6.37 metres above grade;
- one (1) baghouse dust collector (Stack 11), controlling emissions from CNC Drilling Machines, equipped with four (4) HEPA filters totalling approximately 2.7 square metres of filter material and a pulse jet cleaning mechanism, discharging into the air at a volumetric flow rate of 0.57 actual cubic metre per second, through a stack, having an exit diameter of 0.15 metre, extending 1.54 metres above grade;
- one (1) packed bed scrubber (Stack 12), employing water as a scrubbing medium, controlling emissions from the Desmear Line (hole prep), discharging into the air at a volumetric flow rate of 0.24 actual cubic metre per second, through a stack, having an exit diameter of 0.15 metre, extending 1.80 metres above roof and 6.70 metres above grade;
- one (1) exhaust fan (Stack 15), serving a Waste Water Treatment Area General Exhaust, discharging into the air at a volumetric flow rate of 0.71 actual cubic metre per second, through a stack, having exit dimensions of 0.15 metre by 0.25 metre, extending 0.71 metre above roof and 5.61 metres above grade;
- one (1) exhaust fan (Stack 16), serving two (2) Automatic Coating Line Curing Ovens, discharging into the air at a volumetric flow rate of 0.12 actual cubic metre per second, through a stack, having an exit diameter of 0.18 metre, extending 1.67 metres above roof and 6.57 metres above grade;
- one (1) exhaust fan (Stack 17), serving a Manual Coating Line/Copper Line Curing Oven, discharging into the air at a volumetric flow rate of 0.12 actual cubic metre per second, through a stack, having an exit diameter of 0.15 metre, extending 1.32 metres above roof and 6.22 metres above grade;

- one (1) general exhaust fan (Stack 18), serving fugitive emissions from the Gold Line, Tin Line, Manual Coating/Copper Plating Line, Desmear Line and Automatic Coating Lines, discharging into the air at a volumetric flow rate of 1.42 actual cubic metres per second, through a stack, having an exit diameter of 0.60 metre, extending 0.30 metre above roof and 5.20 metres above grade;

all in accordance with the Environmental Compliance Approval application signed by Yogen Patel, dated October 17, 2019 and submitted by Candor Industries Inc., the Emission Summary and Dispersion Modelling Report signed by Ron Taylor of EXP Services Inc. and dated August 12, 2019, the document titled "MECP Response 1000060441-MR676 Candor Industries June 19 2020.pdf", and the updated AEROMOD dispersion modelling sent June 19, 2020.

Section 2: Definitions

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 Candor Industries Inc., that is responsible for the construction or operation of the Facility and includes any successors and assigns;
3. "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;
4. "District Manager" means the District Manager of the appropriate local district office of the Ministry, where the Facility is geographically located;
5. "EPA" means the Environmental Protection Act, R.S.O. 1990, c.E.19, as amended;
6. "Equipment" means the equipment or 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;
7. "ESDM Report" means the Emission Summary and Dispersion Modelling Report prepared in accordance with section 26 of O.Reg. 419/05 by EXP Services Inc. and dated August 12, 2019, submitted in support of the application including any addendum submission made during the Ministry's review of the Company's application;
8. "Facility" means the entire operation located on the property where the Equipment is located;
9. "Manager" means the Manager, Technology Standards Section, Technical Assessment and Standards Development Branch, who has been appointed under section 5 of the EPA for the purposes of the section 11(1)2 of O. Reg. 419/05, or any other person who represents and carries out the duties of the Manager, Technology Standards Section, Technical Assessment and Development Branch, as those duties relate to the conditions of this Approval;
10. "Manual" means a document or a set of documents that provide written instructions to staff of the Company;

11. "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;
12. "Pre-Test Plan" means a plan for the Source Testing including the information required in section 5 of the Source Testing Code;
13. "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.
14. "Source Testing Code" means the Ontario Source Testing Code, dated June 2010, prepared by the Ministry, as amended;
15. "Source Testing" means sampling and testing to measure emissions resulting from operating the Targeted Source at a level of maximum production within the approved operating range of the equipment which satisfies paragraph 2 of subsection 11(1) of O. Reg. 419/05;
16. "Targeted Source" means the Reciprocating Engine Generator referred to in the Company's application, this Approval, and in the supporting documentation submitted with the application, to the extent approved by this Approval;
17. "Test Contaminant" means Nitrogen Oxides (expressed at nitrogen dioxide equivalent).
18. "O. Reg. 419/05" means Ontario Regulation 419/05: (Air Pollution – Local Air Quality), made under the EPA, as amended;
19. "Reciprocating Engine Generator" means the natural gas-fired Generac MGG450 reciprocating engine generator described in the Company's application, this Approval and in the supporting documentation submitted with the application, to the extent approved by this Approval;

Section 3: Terms and Conditions

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

1. PERFORMANCE REQUIREMENTS

1. The Company shall, at all times, ensure that the Reciprocating Engine Generator meets the in-stack maximum emission limits specified in Schedule A of this Approval when not operating under emergency conditions.
2. 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.

2. OPERATION AND MAINTENANCE

1. The Company shall ensure that the Equipment is properly operated and maintained at all times. The Company shall:
 - a. prepare, before commencement of operation of the Equipment, 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.

3. SOURCE TESTING

1. The Company shall perform Source Testing in accordance with the procedure outlined in Schedule B of this Approval, to determine the rate of emission of the Test Contaminant from the Targeted Source.

4. RECORD RETENTION

1. The Company shall retain, for a minimum of two (2) years from the date of their creation, all records and information related to or resulting from the recording activities required by this Approval, and make these records available for review by staff of the Ministry upon request. The Company shall retain:
 - a. all records on the maintenance, repair and inspection of the Equipment; and
 - b. all records of any environmental complaints, including:
 - i. a description, time and date of each incident to which the complaint relates;
 - ii. wind direction at the time of the incident to which the complaint relates; and
 - iii. a description of the measures taken to address the cause of the incident to which the complaint relates and to prevent a similar occurrence in the future.

5. NOTIFICATION OF COMPLAINTS

1. The Company shall notify the District Manager, in writing, of each environmental complaint within two (2) business days of the complaint. The notification shall include:
 - a. a description of the nature of the complaint; and
 - b. the time and date of the incident to which the complaint relates.

Section 4: Reasons

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

1. Condition No. 1 is included to provide the minimum performance requirements considered necessary to prevent an adverse effect resulting from the operation of the Facility.
2. Condition No. 2 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.
3. Condition No. 3 is included to require the Company to gather accurate information so that compliance with the EPA, the regulations and this Approval can be verified.
4. Condition No. 4 is included to require the Company 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.
5. Condition No. 5 is included to require the Company to notify staff of the Ministry so as to assist the Ministry with the review of the site's compliance.

Section 5: Schedules

- Schedule A

Emission Limits for Internal Combustion Engines used for Non-Emergency Power Generation

Contaminant	Maximum Limit *
Nitrogen Oxides	0.4 kg/MWh
Suspended Particulate Matter	0.02 kg/MWh
Total Hydrocarbons Excluding Methane	0.19 kg/MWh
Carbon Monoxide	3.5 kg/MWh

* "kg/MWh" means kilogram per megawatt hour

- Schedule B

Source Testing Procedure

1. The Company shall submit, not later than one (1) month of commissioning of the Reciprocating Engine Generator, to the Manager, a Pre-Test Plan for the Source Testing required under this Approval.
2. The Company shall finalize the Pre-Test Plan in consultation with the Manager.
3. The Company shall not commence the Source Testing required under this Approval until the Manager has approved the Pre-Test Plan.
4. The Company shall notify the Manager, District Manager, and 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.
5. Source Testing shall be completed when the Reciprocating Engine Generator is operating under maximum expected Facility operations;
6. The Company shall submit a report on the Source Testing to the Manager, District Manager, and Director not later than three (3) 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:
 - a. an executive summary;
 - b. records of operating conditions at the time of Source Testing including but not limited to the following:
 - i. production data;
 - ii. Facility/process information related to the Targeted Source;
 - iii. description of the emission sources controlled by the Targeted Source at the time of testing;
 - iv. operational description of the general building ventilation at the time of testing;
 - c. results of Source Testing, including the emission rates and emission concentrations of the Test Contaminant; and
 - d. a tabular comparison of Source Testing results for the Test Contaminants to original emission estimates described in the Company's application and the ESDM Report.
7. If the Source Testing results are higher than the emission estimates in the Company's ESDM Report, the Company shall update their ESDM Report in accordance with section 26 of O.Reg.

419/05 with the results from the Source Testing report and make these records available for review by staff of the Ministry upon request. The updated Emission Summary Table from the updated ESDM Report shall be submitted with the report on the Source Testing.

8. The Director may not accept the results of the Source Testing if:
 - a. the Source Testing Code or requirements of the Manager were not followed;
 - b. the Company did not notify the Manager, District Manager and Director of the Source Testing; or
 - c. the Company failed to provide a complete report on the Source Testing.
9. If the Director does not accept the results 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.

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, S.O. 1993, c. 28 (Environmental Bill of Rights), the Environmental Commissioner, within 15 days after receipt of this Notice, require a hearing by the Tribunal. The Environmental Commissioner 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.

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 Environmental
Commissioner
1075 Bay Street, Suite 605
Toronto, Ontario
M5S 2B1

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**

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 www.ebr.gov.on.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 August, 2020

c: Yogen Patel
Joseph J Carrey

A handwritten signature in black ink, appearing to read "Bahar Aminvaziri". The signature is fluid and cursive, with a prominent initial "B" and a long, sweeping tail.

Bahar Aminvaziri
Director

Appointed for the purposes of Part II.1 of the
Environmental Protection Act