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Ministry of the Environment, Conservation and Parks
Ministère de l'Environnement, de la Protection de la nature et des Parcs

AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 2145-BD4PUD

Issue Date: December 13, 2019

Bodycote Heat Treatment Canada, Inc.
4211 Mainway
Burlington, Ontario
L7L 5N9

Site Location: 4211 Mainway, Burlington, Ontario.

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:

- eight (8) natural gas fired heat treating furnaces, each having a total maximum input of up to 2,850,000 kilojoules per hour;
- eight (8) natural gas fired fume incinerators, each having a heat input of up to 395,625 kilojoules per hour, to control ammonia emissions from electric nitriding furnaces;
- one (1) rust corrosion dipping/drying process, equipped with a natural gas fired dryer, having a heat input of 84,394 kilojoules per hour, discharging into the air through a stack extending 1.1 metres above the roof and 9.1 metres above grade;
- one (1) dust collector, servicing a blasting process;
- one (1) natural gas fired evaporator, having a heat input of 464,200 kilojoules per hour;
- one (1) natural gas fired parts washer, having a heat input of 379,773 kilojoules per hour;
- one (1) natural gas fired parts dryer, having a heat input of 379,773 kilojoules per hour;
- one (1) natural gas endothermic generator, having maximum heat input of 759,600 kilojoules per hour,
- one (1) cooling tower, having a circulating water flow rate of 454 litres per minute;

discharging into the air via applicable exhaust systems, as described in the *ESDM Report* .

All in accordance with the Application for an Environmental Compliance Approval (Air and Noise) and all supporting information dated January 8, 2019, and signed by David Zupfer of Bodycote Heat Treatment Canada, Inc.

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 Vasp Plating and Screening Inc., that is responsible for the construction or operation of the *Facility* and includes any successors and assigns;
3. *"District Manager"* means the District Manager of the appropriate local district office of the *Ministry*, where the *Facility* is geographically located;
4. *"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 *Ministry* guidance document titled "Procedure for Preparing an Emission Summary and Dispersion Modelling Report" dated February 2017, as amended. by Pinchin Ltd. and dated January 8, 2019, submitted in support of the application, and includes any changes to the report made up to the date of issuance of this *Approval*;
5. *"EPA"* means the Environmental Protection Act, R.S.O. 1990, c.E.19, as amended ;
6. *"Equipment"* means all the equipment, 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. *"Fume Incinerators"* means all the fume incinerators serving the electric nitriding furnaces, described in the *Company's* application, this *Approval* and in the supporting documentation submitted with the application, to the extent approved by this *Approval*;
8. *"Facility"* means the entire operation located on the property where the *Equipment* is located;
9. *"Manual"* means a document or a set of documents that provide written instructions to staff of the *Company*;
10. *"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; and
11. *"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, 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 particulate matter, noise and odorous emissions from all potential sources;
 - b. implement the recommendations of the *Manual*.
2. The *Company* shall maintain the operating temperature in the combustion chamber of the *Fume Incinerators* at a minimum temperature of 871 degrees Celsius, as measured by the continuous temperature monitor at all times during the operation of the nitriding furnaces.

2. CONTINUOUS MONITORING

1. The *Company* shall continuously monitor and record the temperature at the exit of the combustion chamber of the *Fume Incinerators*. The continuous temperature monitoring and recording system shall comply with the requirements in Schedule "A" of this *Approval*.

3. 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*.
2. The *Company* shall restrict the operation of the tanker trucks to the daytime hours from 7 a.m. to 7 p.m.

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*;
- b. all records produced by the continuous temperature monitoring and recording equipment;
- c. all records of any upset conditions associated with the operation of the *Equipment*;and
- d. 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;
 - b. the time and date of the incident to which the complaint relates; and
 - c. 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.e future.

SCHEDULE "A"

Continuous Temperature Monitoring System

PARAMETER:

Temperature

LOCATION:

The sample point for the continuous temperature monitoring and recording system shall be at a location where the measurements are representative of the minimum

temperature of the gases leaving the combustion chamber of the *Fume Incinerators*.

PERFORMANCE:

The Continuous Temperature Monitor shall meet the following minimum performance specifications for the following parameters:

PARAMETERS	SPECIFICATION
Type	shielded "K" type thermocouple, or equivalent
Accuracy	5 degrees Celsius or less.

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 5 minutes or better.

RELIABILITY:

The monitor shall be operated and maintained so that accurate data is obtained during a minimum of 90 percent of the time, on a monthly basis, when the Equipment is in operation.

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*.
2. Condition No. 2 is included to require the *Company* to gather information on a continuous basis so that compliance with the *EPA*, the Regulations and this *Approval* can be verified.
3. Condition No. 3.1 is included to provide the minimum performance requirements considered necessary to prevent an adverse effect resulting from the operation of the *Facility*.
4. Condition No. 3.2 is included to ensure that operation of the tanker trucks is not extended beyond the stated hours to prevent an adverse effect resulting from the operation of the *Equipment*.
5. Condition No. 4 is included to require the *Company* to keep records and to provide information to the Ministry so that compliance with the *EPA*, the regulations and this *Approval* can be verified.
6. 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.

Upon issuance of the environmental compliance approval, I hereby revoke

Approval No(s). 2411-9Y6JJQ issued on October 15, 2015.

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**

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 13th day of December,
2019

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

QN/
c: District Manager, MECP Halton-Peel
Daniel Barbisan, Pinchin Ltd.