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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 1714-BD4P7Z

Issue Date: November 5, 2019

Alumco Inc.
1070 Kohler Road
Post Office Box, No. 823
Cayuga, Ontario
N0A 1E0

Site Location: 1070 Kohler Road Cayuga
Haldimand County,
N0A 1E0

*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:*

- two (2) natural gas fired burners providing indirect heating to two (2) crucible type aluminum melting furnaces, with maximum heat inputs of 1,134,125 kilojoules per hour and 1,582,500 kilojoules per hour and discharging to the air at a volumetric flow rate of 1.4 cubic metres per second through a common stack (STCK7) having an exit diameter of 0.30 metre, extending 1.52 metres above the roof, and 7.42 metres above grade;
- two (2) natural gas fired burners providing indirect heating to two (2) crucible type aluminum melting furnaces, each with a maximum heat input of 1,424,250 kilojoules per hour and discharging to the air at a volumetric flow rate of 1.4 cubic metres per second through a common stack (STCK6) having an exit diameter of 0.30 metre, extending 1.52 metres above the roof, and 7.42 metres above grade;
- one (1) natural gas fired burner providing indirect heating of one (1) crucible type aluminum melting furnace, having a maximum heat input of 2,532,000 kilojoules per hour and discharging to the air at a volumetric flow rate of 1.4 cubic metres per second through a stack (STCK9) having an exit diameter of 0.30 metre, extending 1.52 metres above the roof, and 9.92 metres above grade;
- one (1) natural gas fired burner providing indirect heating of one (1) crucible type aluminum melting furnace, having a maximum heat input of 2,532,000 kilojoules per hour and discharging to the air at a volumetric flow rate of 1.4 cubic metres per second through a stack (STCK10) having an exit diameter of 0.30 metre, extending 1.52 metres above the roof, and 9.92 metres above grade;
- one (1) natural gas fired burner providing indirect heating of one (1) crucible type zinc melting furnace, with a maximum heat input of 949,500 kilojoules per hour

and discharging to the air at a volumetric flow rate of 1.1 cubic metres per second through a stack (STCK5) having an exit diameter of 0.30 metre, extending 1.52 metres above the roof, and 5.78 metres above grade;

- one (1) dust collector serving the cast finishing processes, employing a wet dust collection system, discharging to the air at a maximum volumetric flow rate of 1.89 cubic metre per second through side wall exhaust (STCK4) having exit dimensions of 0.56 metre by 0.41 metre, extending 2.5 metres above grade;
- one (1) dust collector serving the sand handling area and crucible aluminum melting furnaces, discharging internally;

all in accordance with the Environmental Compliance Approval Application submitted by Alumco Inc., dated January 10, 2019 and signed by Anton Osfolk, Vice President, Sales and Marketing; and the supporting information, including the Emission Summary and Dispersion Modelling Report, submitted by Avar Environmental Inc., dated January 10, 2019 and signed by Justin Lewis, additional information provided by Justin Lewis in emails dated April 12, 2019, May 8, 2019 and May 21, 2019, the Acoustic Assessment Report, submitted by AVAR Environmental Inc., dated April 30, 2019 and additional information provided by Justin Lewis in the email dated April 30, 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 Alumco 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. "*EPA*" means the Environmental Protection Act, R.S.O. 1990, c.E.19, as amended ;
5. "*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*;
6. "*Facility*" means the entire operation located on the property where the *Equipment* is located;
7. "*Manual*" means a document or a set of documents that provide written instructions to staff of the *Company*;

8. "*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;
9. "*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;
 - 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*.

2. 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.

3. 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.

4. 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*.

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 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.
3. Condition No. 3 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.
4. Condition No. 4 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). 6274-99RK2W issued on July 29, 2013

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 5th day of
November, 2019

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

KS/
c: District Manager, MECP Hamilton - District
Justin Lewis, AVAR Environmental Inc.