

ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 5667-BLFLZT
Issue Date: February 28, 2020

Ljunghall Canada Ltd.
360 Canada Ave
South Huron, Ontario
N0M 1Y0

Site Location: 360 Canada Avenue
South Huron Municipality, County of Huron
N0M 1Y0

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:

an aluminium die-casting foundry, consisting of the following equipment;

- one (1) 10-tonnes virgin aluminium ingots/plant scrap and rejects melting/holding furnace, having a nominal melt rate of 3 tonnes per hour and a maximum production rates of 66 tonnes per day, equipped with natural gas fired burners, having a total maximum heat input of 5,591,500 kilojoules per hour and a capture hood, venting into the atmosphere at a nominal volumetric flow rate of 5.05 actual cubic metres per second and approximate temperature of 320 degrees Celsius during a melt cycle and at a nominal volumetric flow rate of 1.42 actual cubic metres per second and approximate temperature of 223 degrees Celsius during a holding cycle through a stack, having an exit diameter of 0.80 metre, extending 4.68 metres above the roof and 17.6 metres above grade;
- three (3) die casting cells, each cell equipped with an integrated enclosure, fume hood, and high efficiency air cleaning system (multi layers of filters and electrostatic cells) to control emissions from die casting operations, discharging back to the plant air;
- sand and metallic media blasting operations performed in a fully enclosed deburr/blasting room, equipped with a dust control system discharging back to the room;
- twenty six (26) small CNC machining centres, each centre equipped with an emission control system (enclosure and a mist collector) to control emissions from the machining process;
- four (4) natural gas fired air turn-over units, having a total maximum heat input of 15,825,000

kilojoules per hour;

- twenty (20) general exhaust systems (four (4) side-wall fans in a Melt Shop and sixteen ceiling/roof exhaust fans throughout the facility) used for comfort heating;

all in accordance with the Applications for Approval (Air & Noise) submitted by Ljunghall Canada Ltd., dated May 7, 2019, signed by Mario Comito, Engineering Project Manager, the letter (e-mail) from Mario Comito, Engineering Project Manager (Gnutti Carlo Canada Ltd.) dated September 27, 2019, October 19, 2019, November 15, 2019, November 22, 2019, December 11, 2019 and January 21, 2020, the Secondary Noise Screening from Ronald Hussain of IHEAS Inc. dated October 7, 2019, two emails from Mario Comito of Gnutti Carlo Canada Ltd. dated February 12, 2020, and all information and documentation associated with the application.

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 Ljunghall Canada Ltd., 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 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;
 - v. all appropriate measures to minimize fugitive emissions from all potential sources;
 - vi. the frequency of inspection and replacement of the filter material in the *Equipment*;
 - b. implement the recommendations of the *Manual*.
2. The *Company* shall ensure that the high efficiency air cleaning systems (including enclosures, fume hood, filters and electrostatic cells) are operated and maintained as per *Equipment* supplier data/guarantees when die-casting cells operate.
3. The facility shall ensure that the emission control systems are operated and maintained as per *Equipment* supplier data/guarantees) when CNC machining centres operate.

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 PERFORMANCE

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*.

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.

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 <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 28th day of February, 2020



Jeffrey McKerrall, P.Eng.

Director

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

JK/

c: District Manager, MECP Owen Sound
Ronald Hussain, IHEAS Inc.