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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 2382-CHJR5E

Issue Date: November 22, 2022

Ingot Metal Company Limited
111 Fenmar Drive
Toronto, Ontario
M9L 1M3

Site Location: 111 Fenmar Drive
Toronto City, Ontario
M9L 1M3

*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) secondary copper smelting facility, with a maximum charge rate of 99.34 tonnes per day and a maximum production rate of 25,828 metric tonnes of copper, brass and bronze alloys per year, to manufacture bearings, bushings, and ingots, including the following equipment and accessories:

three (3) identical baghouse dust collectors to control furnace emissions from Rotary Furnaces RF and LF as described in Schedule "A", identified as source RED, equipped with a total of 499 square metres of fibreglass filter bags and mechanical shaker cleaning systems , discharging into the the air at a total volumetric flow rate of 14.8 cubic metres per second, through a common exhaust stack identified as STCK7, having an exit diameter of 1.4 metres, extending 15.2 metres above grade;

two (2) identical baghouse dust collectors to control furnace and fugitive emissions from Rotary Furnaces DRF and MRF , and fugitive emissions from Rotary Furnaces LF and RF, all described in Schedule "A" , identified as source GREY, equipped with a total of 3,471 square metres of needle felt filter bags, reverse pulse cleaning systems and a Baghouse Leak Detection System, discharging into the air at a total volumetric flow rate of 61.4 cubic metres per second, through a common exhaust stack identified as STCK11, having an exit diameter of 2.134 metres, extending 24.56 metres above grade.

all in accordance with the application for amendment of Environmental Compliance Approval No. 0470-9X3K9F, dated August 31, 2021 and signed by David Shore, the Emission Summary and Dispersion Modelling Report, dated August 30, 2021 and prepared by O2E Inc., the Primary Noise Screening Report prepared by O2E Inc.,

dated June 1, 2021 and signed by Tim Logan, and all supporting information submitted 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. "Baghouse Leak Detection System" means a system that is capable of continuously detecting leaks in the filter bags and other upset conditions, and is equipped with an audible and visual alarm system that will alert the operating personnel of the upset condition for implementing corrective action;
3. "Best Management Practices Plan" means a document or a set of documents prepared in accordance with Ministry Technical Bulletin: Management Approaches for Industrial Fugitive Dust Sources, which describes measures to minimize dust emissions from the Facility and/or Equipment;
4. "Company" means Ingot Metal Company Limited, that is responsible for the construction or operation of the Facility and includes any successors and assigns;
5. "District Manager" means the District Manager of the appropriate local district office of the Ministry, where the Facility is geographically located;
6. "EPA" means the Environmental Protection Act, R.S.O. 1990, c.E.19, as amended;
7. "Equipment" means the baghouse dust collectors, rotary furnaces and crucible 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, 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, 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;
 - v. the frequency of inspection and replacement of the filter material in the Equipment; and
 - vi. a program to monitor and record the pressure differential across each of the baghouses used to control particulate emissions and procedures to investigate and correct the cause of any anomalous measurements of the pressure differential across any of the baghouses.
 - b. implement the recommendations of the Manual.
2. The Company shall:
 - a. only process alloys with manganese concentrations of 20% or greater in furnace DRF;
 - b. only process alloys with lead concentrations greater than 10% in furnace DRF at a maximum daily charge rate of 10 Mg and only process alloys with lead concentrations equal to or less than 10% in furnace MRF at a

- maximum daily charge rate of 27.2 Mg;
- c. maintain negative pressure in the production area of the Facility at all times; and
- d. tarp any outside material storage piles at all times when not in use.

2. FUGITIVE DUST CONTROL

1. The Company shall immediately implement the most recent Best Management Practices Plan for the control of fugitive dust emissions to provide effective dust suppression measures to any potential sources of all fugitive dust emissions resulting from the operation of the Facility including all outdoor storage of materials, all unloading, loading and any potential processing on site.

3. DOCUMENTATION REQUIREMENTS

1. The Company shall record, in a log book, each time a specific preventative and control measure described in the Best Management Practices Plan is implemented. The Company shall record, as a minimum:
 - a. the date when each emission control measure is installed, including a description of the control measure;
 - b. the date when each new preventative measure or operating procedure to minimize emissions is implemented, including a description of the preventative measure or operating procedure; and
 - c. the date, time of commencement, and time of completion of each periodic activity conducted to minimize emissions, including a description of the preventative measure/procedure and the name of the individual performing the periodic activity.

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. the log book which contains all records on the preventative and control measures implemented for each source of fugitive dust emission identified in the Best Management Practices Plan; and
 - c. all records of any environmental complaints; including:
 - i. a description, time, date and location of each incident;

- ii. wind direction and other weather conditions at the time of the incident;
- iii. the name(s) of Company personnel responsible for handling the incident;
- iv. the cause of the incident;
- v. Company response to the incident; and
- vi. a description of the measures taken to address the cause of the incident and to prevent a similar occurrence in the future, and the outcome of the measures taken.

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, date and location of the incident;
 - c. the wind direction and other weather conditions at the time of the incident; and
 - d. the name(s) of Company personnel responsible for handling the incident.

6. 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.

Schedule "A"

Furnace ID	Description	Furnace Production Data	
		Maximum Furnace Capacity (Megagrams per day)	Heat Input (Million kilojoules per hour)
DRF	Rotary Furnace	10.0	4.5
MRF	Rotary Furnace	27.2	10.5
RF	Rotary Furnace	21.3	10.8
LF	Rotary Furnace	40.8	8.2

Schedule "B"

Alloy Type	Maximum Lead Concentration	Maximum Charge Rate (Megagram per	Furnace

		day)	
C94100, C94500	18%	9.98	DRF
C93800	14.5%	9.98	DRF
C93700	10%	27.22	MRF
C84400, C93200	7.5%	27.22	MRF
C83800	6%	27.22	MRF
C83600	5.5%	27.22	MRF
C97600	4%	27.22	MRF
C92900	2.6%	27.22	MRF

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

1. Conditions No. 1 and 2 are 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. Conditions No. 3 and 4 are 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. 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.
4. Condition No. 6 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). 0470-9X3K9F issued on March 23, 2016

In accordance with Section 139 of the *Environmental Protection Act*, you may by written notice served upon me, the Ontario Land 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 ("the Notice") 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:

Registrar*
Ontario Land Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5
OLT.Registrar@ontario.ca

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 Ontario Land Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349 or 1 (866) 448-2248, or www.olt.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 22nd day of November,
2022



Nancy E Orpana, P.Eng.
Director
appointed for the purposes of Part
II.1 of the *Environmental Protection*

Act

AH/
c: District Manager, MECP Toronto - District
Tim Logan, O2E Inc.