



Ministry of
Environment and
Energy

Ministère de
l'Environnement et de
l'Énergie

Ontario

AMENDED CERTIFICATE OF APPROVAL

AIR

NUMBER 3902-5CYQHJ

Issue Date: April 13, 2006

Crown Metal Packaging Canada Inc.
7900 Keele Street
Concord, Ontario
L4K 2A3

Site Location: 21 Fenmar Drive, Weston
Toronto City, Municipality Of Metropolitan Toronto

You have applied in accordance with Section 9 of the Environmental Protection Act for approval of:

modifications to the existing catalytic oxidizer serving steel food can inside bake ovens and two coater ovens, conversion of recuperative thermal oxidizer to catalytic oxidizer, modifications to existing exhausts as well as other existing exhausts all of which serve two (2) modified aluminum beverage can lines producing a total of 258,000 cans per hour, and one (1) new steel food can line producing a total of 90,000 cans per hour, utilizing about 350 litres per hour of all coatings and inks. Exhaust sources are listed as follows:

- one (1) ultraviolet bottom rim coat exhaust system, discharging into the atmosphere at a volumetric flow rate of 0.30 actual cubic meter per second at 21 degrees Celsius through a stack No. 1, having an exit diameter of 0.15 metre, extending 1.6 metres above the roof and 12.6 metres above grade;
- one (1) natural gas fired catalytic oxidizer No. 2 used to combust 5.5 grams per second of volatile organic compounds originating from four (4) aluminum printer ovens and two (2) aluminum can inside bake ovens, having a maximum heat input of 2,530,000 kilojoules per hour, exhausting into the atmosphere at a volumetric flow rate of 5.2 actual cubic meters per second at 371 degrees Celsius through a stack No. 2, having an exit diameter of 0.61 metre, extending 10 metres above the roof and 19.8 metres above grade;
- one (1) aluminum lacquer spray machine No. 1 exhaust, discharging into the atmosphere at a volumetric flow rate of 0.4 actual cubic meter per second at 21 degrees Celsius through a stack No. 4, having an exit diameter of 0.2 metre, extending 3 metres above the roof and 12.2 metres above grade;
- one (1) aluminum lacquer spray machine No. 2 exhaust, discharging into the atmosphere at a volumetric flow rate of 0.4 actual cubic meter per second at 21 degrees Celsius through a stack No. 5, having an exit diameter of 0.2 metre, extending 3 metres above the roof and 12.2 metres above grade;
- one (1) steel lacquer spray machine exhaust, discharging into the atmosphere at a volumetric flow rate of 0.4 actual cubic meter per second at 21 degrees Celsius through a stack No. 6, having an exit diameter of 0.2 metre, extending 3 metres above the roof and 9.8 metres above grade;
- one (1) wastecoat oven exhaust, discharging into the atmosphere at a volumetric flow rate of 2.1 actual cubic meter per second at 121 degrees Celsius through a stack No. 7, having an exit diameter of 0.46 metre, extending 5 metres above the roof and 12.2 metres above grade;
- one (1) natural gas fired catalytic oxidizer No. 1 used to combust 3.7 grams per second of volatile organic compounds originating from one (1) steel food can inside bake oven and two (2) aluminum base coat ovens having a maximum heat input of 2,640,000 kilojoules per hour, exhausting into the atmosphere at a volumetric flow rate of 2.2 actual cubic meters per second at 371 degrees Celsius through a stack No. 8, having an exit diameter of 0.47 metre, extending 10 metres above the roof and 19.8 metres above grade;
- one (1) aluminum base coater No. 1 exhaust, discharging into the atmosphere at a volumetric flow rate of 0.8 actual cubic meter per second at 21 degrees Celsius through a stack No. 9, having an exit diameter of 0.56 metre, extending 4.1 metres above the roof and 13.9 metres above grade;
- one (1) aluminum base coater No. 2 exhaust, discharging into the atmosphere at a volumetric flow rate of 0.8 actual cubic meter per second at 21 degrees Celsius through a stack No. 10, having an exit diameter of 0.56 metre, extending 4.1 metres above the roof and 13.9 metres above grade;
- one (1) aluminum printer No. 1 exhaust, discharging into the atmosphere at a volumetric flow rate of 0.8 actual cubic meter per second at 21 degrees Celsius through a stack No. 11, having an exit diameter of 0.56 metre, extending 4.1 metres above the roof and 13.9 metres above grade;

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- one (1) aluminum printer No. 2 exhaust, discharging into the atmosphere at a volumetric flow rate of 0.8 actual cubic meter per second at 21 degrees Celsius through a stack No. 12, having an exit diameter of 0.56 metre, extending 4.1 metres above the roof and 13.9 metres above grade;
- one (1) aluminum printer No. 3 exhaust, discharging into the atmosphere at a volumetric flow rate of 0.8 actual cubic meter per second at 21 degrees Celsius through a stack No. 13, having an exit diameter of 0.56 metre, extending 4.1 metres above the roof and 13.9 metres above grade;
- one (1) aluminum printer No. 4 exhaust, discharging into the atmosphere at a volumetric flow rate of 0.8 actual cubic meter per second at 21.1 degrees Celsius through a stack No.14, having an exit diameter of 0.56 metre, extending 4.1 metres above the roof and 13.9 metres above grade;
- one (1) aluminum can washer exhaust, discharging into the atmosphere through a stack No. 15, having an exit diameter of 0.46 metre, extending 5.0 metres above the roof and 13.9 metres above grade;
- one (1) steel can washer exhaust, discharging into the atmosphere through a stack, having an exit diameter of 0.46 metre, extending 5.0 metres above the roof and 13.9 metres above grade;
- one (1) natural gas fired hot water heater No. 1, having a maximum heat input of 1,580,000 kilojoules per hour, exhausting into the atmosphere through a stack No. 16, extending 5 metres above the roof and 13.9 metres above grade;
- one (1) natural gas fired hot water heater No. 2, having a maximum heat input of 1,580,000 kilojoules per hour, exhausting into the atmosphere through a stack No. 17, extending 5 metres above the roof and 13.9 metres above grade; and
- one (1) natural gas fired hot water heater No. 3, having a maximum heat input of 1,580,000 kilojoules per hour, exhausting into the atmosphere through a stack No. 18, extending 5 metres above the roof and 13.9 metres above grade;

all in accordance with the Application for Certificate of Approval along with supporting information and documentation submitted by Crown Cork & Seal Canada Inc.(Crown Metal Packaging Canada LP) signed by James E. G. Armstrong dated 30 January 2002 including supporting documentation; Emission Summary and Dispersion Modelling Report prepared by PINCHIN ENVIRONMENTAL dated 28 February 2006 and all other information associated with the application.

For the purpose of this Certificate of Approval and the terms and conditions specified below, the following definitions apply:

- (1) "Act" means the Environmental Protection Act;
- (2) "Certificate" means this Amended Certificate of Approval (Air) issued in accordance with Section 9 of the Act;
- (3) "Company" means Crown Metal Packaging Canada LP;
- (4) "District Manager" means the District Manager, Toronto District Office, Central Region of the Ministry;
- (5) "Director" means any Ministry employee appointed by the Minister pursuant to Section 5 of the Act;
- (6) "Equipment" includes the exhaust systems serving ultraviolet bottom rim coat, catalytic oxidizers, printers, ovens, coaters, lacquer spray machines and associated fans, described in the Company's application, this Certificate and in the supporting documentation referred to herein, to the extent approved by this Certificate;
- (7) "Facility" means the entire operation located on the property where the Equipment is located;
- (8) "Manager" means the Manager, Technology Standards Section, Standards Development Branch, or any other person who represents and carries out the duties of the Manager as those duties relate to the conditions of this Certificate;
- (9) "Manual" means a document or a set of documents that provide written instructions to staff of the Company;
- (10) "Ministry" means the Ontario Ministry of the Environment;
- (11) "Point of Impingement" means any point in the natural environment. The point of impingement for the purposes of verifying compliance with the Act shall be chosen as the point located outside the Company's property boundaries at which the highest concentration is expected to occur, when that concentration is calculated in accordance with the

Appendix to Regulation 346 written under the Act, or any other method accepted by the Director;

(12) "Pre-Test Information" means the information outlined in Section 1 of the Source Testing Code;

(13) "SCREEN3" means the dispersion model set out in U.S. National Technical Information Service Reference Number PB95-222766 and U.S. Environmental Protection Agency Publication Number EPA-454/B-95-004, used to calculate the one-hour average concentration of a contaminant at a Point of Impingement;

(14) "Sensitive Receptor" means a building, "amenity area" or outdoor space where routine or normal activities occurring at reasonably expected times could experience an "adverse effect(s)" related to odour emissions from the Facility. The "sensitive receptor" may be a part of the natural or built environment and may include one or a combination of the following:

(a) residences or facilities where people sleep (e.g. single and multi-unit dwellings, nursing homes, hospitals, trailer parks, camping grounds, etc.);

(b) permanent structures for non-facility related use, particularly of an institutional nature (e.g. schools, churches, community centres, day care centres, etc.);

(c) certain outdoor recreational uses (e.g. picnic areas, parks, etc.);

(15) "Source Testing Code" means the Source Testing Code, Version 2, Report No. ARB-66-80, dated November 1980, prepared by the Ministry, as amended; and

(16) "Source Testing" means sampling and testing to measure emissions resulting from operating the catalytic oxidizer No. 2 (stack No. 2), catalytic oxidizer No. 1 (stack No. 8), aluminum lacquer spray machine No. 2 exhaust (stack No. 5) and aluminum base coater No. 1 exhaust (stack No. 9) under conditions which yield the worst case emissions within the approved operating range of the above equipment.

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

TERMS AND CONDITIONS

PERFORMANCE

1. The Company shall ensure that the design and operation of the Facility and the Equipment comply with the following requirements:

(1) The maximum 10-minute average concentration of odour at a Point of Impingement, calculated in accordance with the procedure outlined in Schedule "A" of this Certificate, resulting from the operation of the Facility, shall be less than 1.0 odour unit at the most impacted Sensitive Receptor under all atmospheric conditions.

(2) In the event that the maximum 10-minute average concentration of odour at a Point of Impingement exceeds 1.0 odour unit at the most impacted Sensitive Receptor, as determined by Source Testing, the Company shall:

(a) prepare an odour mitigation plan to mitigate odour emissions such that Condition 1 (1) will be satisfied;

(b) submit the odour mitigation plan with time lines not later than two (2) months from the date of notification to the Ministry that the Condition 1 (1) has not been satisfied; and

(c) upon acceptance of the Ministry, implement the odour mitigation plan as soon as possible.

(3) The Company shall not operate ovens until the temperature of the combustion chamber of each catalytic oxidizer has reached a minimum of 315 degrees Celsius.

(4) The Company shall maintain this minimum operating temperature of 315 degrees Celsius, as measured by continuous temperature monitor and recorded by the continuous data recorder, at all times when ovens are in operation.

MONITORING

Source Testing

2. The Company shall monitor the emissions from and the operation of the representative equipment, catalytic oxidizer No. 2 (stack No. 2), catalytic oxidizer No. 1 (stack No. 8), aluminum lacquer spray machine No. 2 exhaust (stack No. 5) and aluminum base coater No. 1 exhaust (stack No. 9) as follows:

- (1) The Company shall perform Source Testing to determine the rate of odour emissions at the outlet
- (2) The Company shall submit, not later than three (3) months from the date of this Certificate, to the Manager a test protocol, including the Pre-Test Information for the Source Testing required by the Source Testing Code.
- (3) The Company shall finalize the test protocol in consultation with the Manager.
- (4) The Company shall not commence the Source Testing until the Manager has accepted the test protocol.
- (5) The Company shall complete the Source Testing not later than three (3) months after the Manager has accepted the test protocol.

Notification of Upcoming Source Testing

(6) The Company shall notify the District Manager and the Manager in writing of the location, date and time of any impending Source Testing required by this Certificate, at least ten (10) business days prior to the Source Testing.

Report on Source Testing

(7) The Company shall submit a report on the Source Testing to the District Manager and the Manager not later than two (2) months after completing the Source Testing. The report shall be in the format described in the Source Testing Code, and shall also include:

- (a) an executive summary;
- (b) records of all operating conditions, including all records produced by the continuous monitoring systems;
- (c) records of any upset conditions during Source Testing; and
- (d) the results of dispersion calculations in accordance with the dispersion model accepted by the Director, modified for the calculation of 10-minute average concentration of odour, from the Equipment at the Point of Impingement and the most impacted Sensitive Receptor, calculated in accordance with the procedure outlined in Schedule "A" of this Certificate.

SCHEDULE "A"

Procedures For The Calculation Of 10-Minute Average Concentration Of Odour

CALCULATE ONE-HOUR AVERAGE CONCENTRATION

1. The one-hour average concentration of odour at the Point of Impingement and the most impacted Sensitive Receptor(s) can be calculated using **either** the Screening Procedure **or** the Detailed Procedure(s) each described as follows:

(1) Screening Procedure

Calculate the maximum one-hour average concentration of odour at the Point of Impingement and the most impacted Sensitive Receptor(s) employing the SCREEN3 atmospheric dispersion model and convert the one-hour average concentration to a 10 minute average concentration using the one-hour average to 10-minute average conversion described below.

(2) Detailed Procedure

(a) Calculate one-hour average concentration of odour at the Point of Impingement and the most impacted Sensitive Receptor employing an atmospheric dispersion model acceptable to the Director that employs at least five (5) years of hourly local meteorological data and that can provide results reported as individual one-hour odour concentrations;

(b) Convert one-hour average concentrations predicted over the five (5) years of hourly local meteorological data to a 10-minute average concentration using the procedures specified in the Atmospheric Dispersion Modelling Guideline Ontario (ADMO); and

(c) Present the 10-Minute Average concentrations predicted to occur over a five (5) year period at the Point of Impingement and the most impacted Sensitive Receptor (in a histogram). The maximum 10-minute average concentration of odour at the Sensitive Receptor will be considered to be the maximum odour concentration at the most impacted Sensitive Receptor that occurs and is represented in the histogram, disregarding outlying data points on the histogram, as agreed to by the District Manager and Director.

Refusal of Source Testing

(8) The Director may not accept the results of the Source Testing if:

(a) the Source Testing Code or the requirements of the Manager were not followed; or

(b) the Company did not notify the District Manager and the Manager 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.

CONTINUOUS MONITORING

3. The Company shall continuously monitor and record the operating temperature at the inlet to the catalyst bed and the temperature difference over the catalyst bed when the catalytic oxidizers are in operation. The continuous temperature monitoring and recording systems shall comply with the requirements outlined in the attached Schedule "B".

SCHEDULE "B"

Continuous Temperature Monitoring and Recording System Requirements

PARAMETER: Temperature

LOCATION: The sample points for the continuous temperature monitoring and recording systems in the catalytic fume incinerators shall be located at locations where the measurements are representative of the minimum temperature of the gases at the inlet and outlet of the catalyst beds within the catalytic fume incinerators.

The sample point for the continuous temperature monitoring and recording system in the direct thermal oxidizer shall be located at a location where the measurements are representative of the minimum temperature of the gases leaving the direct thermal oxidizer.

PERFORMANCE: The continuous temperature monitoring and recording system shall meet the following minimum performance specifications for the following parameters.

PARAMETERS SPECIFICATION

Type: shielded "K" type thermocouple, or equivalent.

Accuracy: ± 1.5 percent of the minimum gas temperature.

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 1 minute or better.

RELIABILITY: The monitor shall be operated and maintained so that accurate data is obtained during a minimum of 95 percent of the time for each calendar quarter.

OPERATION AND MAINTENANCE

4. The Company shall ensure that, at all times, the Equipment including all related fixtures, appurtenances, equipment and services, which are installed or used to achieve compliance with this Certificate are operated and maintained in accordance with good engineering practices and the Manufacturer's recommendations.

In addition, the Company shall ensure that:

(1) staffing, training of staff, process controls, quality assurance and quality control procedures of or in relation to the Equipment are adequate to achieve compliance with this Certificate; and

(2) equipment, material and spare parts, of equal or better quality and specifications, are kept on hand and in good repair for immediate use in the event of:

(a) a breakdown of the Equipment;

(b) any change in process parameters which may result in a discharge into the natural environment of any contaminant in an amount, concentration or level in excess of that prescribed by the Regulation and/ or imposed by this Certificate of Approval;

(c) any other potential contingency;

and staff are trained in the use of said equipment, material and spare parts and in the methods and procedures to be employed upon the occurrence of such an event.

5. The Company shall prepare, not later than (3) month after issuance of the Certificate, and update, as necessary, a Manual outlining the operating procedures for the Equipment, in accordance with good engineering practice, including:

(1) (a) the routine and emergency operating and maintenance procedures recommended by the Equipment and monitoring and recording system suppliers;

(b) the calibration procedures of the monitoring and recording system;

(c) repair and maintenance program;

(d) a staffing plan;

(e) a training program, including personal safety;

(f) a list of trained personnel responsible for the operation and maintenance of the Equipment, including supervisory personnel and personnel responsible for recording and reporting pursuant to the requirements of this Certificate, along with the training and experience required for the positions and a description of the responsibilities;

(g) contingency plans and procedures identifying all potential scenarios involving a breakdown of the Equipment including shutdowns/mechanical failures of the catalytic oxidizers and time frames for the restarting of the Equipment;

(h) instructions for any record keeping activities relating to the operation and maintenance of the Equipment;

(i) procedures for recording and responding to environmental complaints relating to operation of the Equipment/Facility; and

(j) all appropriate measures to minimize odour emissions from all potential sources; and

(2) implement the recommendations of the Manual.

RECORD RETENTION

6. 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 operation, maintenance and monitoring activities required by this Certificate. These records as well as the Manual shall be made available to staff of the Ministry upon request. The Company shall retain:

(1) all records on the maintenance, repair and inspection of the Equipment;

(2) all records on the monitoring activities required by this Certificate;

(3) all measures taken to minimize fugitive odour emissions from all potential sources; and

(4) all records on the environmental complaints, including:

(a) a description, time and date of each incident;

(b) wind direction at the time of the incident; and

(c) a description of the measures taken to address the cause of the incident and to prevent a similar occurrence in the future.

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 require the Company to gather accurate information so that compliance with the Act, the regulations and this Certificate can be verified.

3. Conditions Nos. 3, 4 and No. 5 are included to emphasize that the Equipment must be maintained and operated according to a procedure that will result in compliance with the Act, the regulations and this Certificate.

4. Condition No. 6 is included to require the Company to retain records and provide information to the Ministry so that compliance with the Act, the regulations and this Certificate can be verified.

This Certificate of Approval revokes and replaces Certificate(s) of Approval No. 6671-4XDLGG issued on October 11, 2001

In accordance with Section 139 of the Environmental Protection Act, R.S.O. 1990, Chapter E-19, as amended, you may by written Notice served upon me, the Environmental Review Tribunal and in accordance with Section 47 of the Environmental Bill of Rights, S.O. 1993, Chapter 28, 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:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
2300 Yonge St., 12th Floor
P.O. Box 2382
Toronto, Ontario
M4P 1E4

AND

The Environmental Commissioner
1075 Bay Street, 6th Floor
Suite 605
Toronto, Ontario
M5S 2B1

AND

The Director
Section 9, *Environmental Protection Act*
Ministry of Environment and Energy
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

*** Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca**

This instrument is subject to Section 38 of the Environmental Bill of Rights, 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.ene.gov.on.ca, you can determine when the leave to appeal period ends.

The above noted works are approved under Section 9 of the Environmental Protection Act.

DATED AT TORONTO this 13th day of April, 2006

Victor Low, P.Eng.
Director
Section 9, *Environmental Protection Act*

AK/
c: District Manager, MOEE Toronto - District
Jessie Cheng, Crown Metal Packaging Canada LP



Ministry
of the
Environment

Ministère
de
l'Environnement

CERTIFICATE OF APPROVAL
AIR
NUMBER 4311-4UCT8X

Etobicoke Ironworks Limited
147 Rivalda Road
Toronto, Ontario
M9M 2M7

Site Location: 163 Rivalda Road
Toronto City, Municipality Of Metropolitan Toronto
M9M 2M7

You have applied in accordance with Section 9 of the Environmental Protection Act for approval of:

- one (1) two-stage wash system, equipped with one (1) natural gas fired burner with a maximum heat input of 1.56 million kilojoules per hour, discharging into the atmosphere through the following stacks:

- one (1) stack, identified as STK-1, having an exit diameter of 0.02 metre and extending 6.8 metres above grade;

- one (1) stack, identified as STK-2, with an exhaust volumetric flow rate of 0.8 cubic metre per second, having an exit diameter of 0.46 metre and extending 6.8 metres above grade;

- one (1) stack, identified as STK-3, with an exhaust volumetric flow rate of 0.8 cubic metre per second, having an exit diameter of 0.46 metre and extending 6.8 metres above grade;

- one (1) natural gas fired dry-off curing oven with a maximum heat input of 2.62 million kilojoules per hour, discharging into the atmosphere at a volumetric flow rate of 1.18 cubic metres per second through a stack, identified as STK-4, having an exit diameter of 0.30 metre and extending 7.08 metres above grade;

all in accordance with the application dated October 24, 2000 and signed by M. D. Hum, for a Certificate of Approval (Air), and supporting information associated with the application.

In accordance with Section 139 of the Environmental Protection Act, R.S.O. 1990, Chapter E-19, as amended, you may by written Notice served upon me, the Environmental Appeal Board and in accordance with Section 47 of the Environmental Bill of Rights, S.O. 1993, Chapter 28, the Environmental Commissioner, within 15 days after receipt of this Notice, require a hearing by the Board. 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:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;

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8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Appeal Board
2300 Yonge St., 12th Floor
P.O. Box 2382
Toronto, Ontario
M4P 1E4

AND

The Environmental Commissioner
1075 Bay Street, 6th Floor
Suite 605
Toronto, Ontario
M5S 2B1

AND

The Director
Section 9, *Environmental Protection Act*
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

*** Further information on the Environmental Appeal Board's requirements for an appeal can be obtained directly from the Board at:
Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca**

This instrument is subject to Section 38 of the Environmental Bill of Rights, 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.ene.gov.on.ca, you can determine when the leave to appeal period ends.

The above noted works are approved under Section 9 of the Environmental Protection Act.

DATED AT TORONTO this 11th day of May, 2001

Zarko Tesic, P.Eng.
Director
Section 9, *Environmental Protection Act*

AH
c: District Manager, MOE Metro Toronto - District
Donald Hum, DHM Engineering Ltd.

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Ministry of the Environment and Climate Change
Ministère de l'Environnement et de l'Action en matière de changement
climatique

AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 0470-9X3K9F

Issue Date: March 23, 2016

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

Site Location: 111 Fenmar Drive
Toronto City,
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 95.7 tonnes per day to manufacture bearings, bushings, and ingots, including the following equipment and accessories:

- one (1) baghouse dust collector to control fugitive emissions from Rotary Furnaces DRF, MRF, RF and LF and furnace and fugitive emissions from the Crucible Furnaces NF1 and NF2 as described in Schedule "A", identified as source GBH, equipped with 1,800 square metres of cartridge filters and a pulse jet cleaning system, discharging into the the air at a volumetric flow rate of 22.2 cubic metres per second, through an exhaust stack identified as STCK1, having an exit diameter of 1.2 metres, extending 8.1 metres above grade;
- three (3) identical baghouse dust collectors to control furnace and fugitive emissions from Rotary Furnaces DRF and MRF as described in Schedule "A", identified as source WB, equipped with a total of 1,750 square metres of needle felt filter bags, mechanical shaker cleaning systems and a Baghouse Leak Detection System, discharging into the the air at a total volumetric flow rate of 14.9 cubic metres per second, through a common exhaust stack identified as STCK4, having an exit diameter of 1.0 metres, extending 15.2 metres above grade;
- three (3) identical baghouse dust collectors to control furnace and fugitive emissions from Rotary Furnaces RF and LF as described in Schedule "A", identified as source BH, 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;
- one (1) baghouse dust collector to control fugitive emissions from Rotary Furnace LF as described in Schedule "A", identified as source CBH, equipped with 538 square metres of needle felt filter bags and a pulse jet cleaning system, discharging into the the air at a volumetric flow rate of 16.5 cubic metres per second, through an exhaust stack identified as STCK10, having an exit diameter of 0.9 metres, extending 6.1 metres above grade;
- natural gas fired unit heaters, having a combined heat input of 12.7 million kilojoules per hour, discharging into the air through designated exhaust stacks; and

all in accordance with the Environmental Compliance Approval Application submitted by Ingot Company Limited, dated May 26, 2014 and signed by David Shore, Sales Manager; the Emission Summary and Dispersion Modelling Report submitted by O2E, dated November 2015 and signed by Tim Logan; the additional information submitted by O2E via email on December 22, 2016; the Primary Noise Screening Report prepared by O2E Inc., dated May 2, 2014 and signed by Tim Logan; and all of the 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 the document titled "Fugitive Dust Best Management Practices Plan, version 1.1", dated November 18, 2015, as amended, prepared by O2E Inc., 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

OPERATION AND MAINTENANCE

1. The Company shall ensure that the Equipment is properly operated and maintained at all times. The Company shall:

(1) 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:

- (a) routine operating and maintenance procedures in accordance with good engineering practices and as recommended by the Equipment suppliers;
- (b) emergency procedures, including spill clean-up procedures;
- (c) procedures for any record keeping activities relating to operation and maintenance of the Equipment;
- (d) all appropriate measures to minimize noise and odorous emissions from all potential sources;
- (e) the frequency of inspection and replacement of the filter material in the Equipment; and
- (f) 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.

(2) implement the recommendations of the Manual.

2. The Company shall:

- (1) operate no more than three (3) of the four (4) rotary furnaces listed in Schedule "A" at one time;
- (2) operate not more than one (1) of the two (2) crucible furnaces listed in Schedule "A" at one time;
- (3) only process alloys with manganese concentrations greater than 5% in furnace DRF;
- (4) only process alloys containing lead in furnace MRF and with a maximum charge rate in any twenty-four (24) hour period not to exceed the charge rate indicated in Schedule "B" for the specific alloy being processed;
- (5) maintain negative pressure in the production area of the Facility at all times; and
- (6) tarp any outside material storage piles at all times when not in use.

FUGITIVE DUST CONTROL

3. 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 fugitive dust emissions resulting from the operation of the Facility.

DOCUMENTATION REQUIREMENTS

4. 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:

- (1) the date when each emission control measure is installed, including a description of the control measure;
- (2) 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
- (3) 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.

RECORD RETENTION

5. 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:

- (1) all records on the maintenance, repair and inspection of the Equipment;
- (2) 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
- (3) all records of any environmental complaints; including:
 - (a) a description, time, date and location of each incident;
 - (b) wind direction and other weather conditions at the time of the incident;
 - (c) the name(s) of Company personnel responsible for handling the incident;
 - (d) the cause of the incident;
 - (e) the Company response to the incident; and
 - (f) 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.

NOTIFICATION OF COMPLAINTS

6. 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:

- (1) a description of the nature of the complaint;
- (2) the time, date and location of the incident;
- (3) the wind direction and other weather conditions at the time of the incident; and
- (4) the name(s) of Company personnel responsible for handling the incident.

NOISE

7. 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.

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	8.8
RF	Rotary Furnace	21.3	10.8
LF	Rotary Furnace	40.8	8.2
NF1	Crucible Furnace	6.4	2.1
NF2	Crucible Furnace	1.4	1.1

SCHEDULE "B"

Alloy Type	Maximum Lead Concentration	Maximum Charge Rate (Megagram per day)
C94100, C94500	18%	5.7
C93800	14.5%	7.0
C93700	10%	10.2
C84400, C93200	7.5%	13.6
C83800	6%	17.0
C83600	5.5%	18.6
C97600	4%	25.5
C92900	2.6%	27.2

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

1. Condition Nos. 1, 2 and 3 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. Condition Nos. 4 and 5 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. 6 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. 7 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). 8837-9CRPQH issued on March 18, 2014.

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:

1. 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;
2. 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:

3. The name of the appellant;
4. The address of the appellant;
5. The environmental compliance approval number;
6. The date of the environmental compliance approval;
7. The name of the Director, and;
8. 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 and Climate Change 135 St. Clair Avenue West, 1st Floor Toronto, Ontario M4V 1P5
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*** 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) 314-4506 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 23rd day of March, 2016

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

FL/
c: District Manager, MOECC Toronto
Adam Quipp, O2E Inc.

Content Copy Of Original



Ministry of the Environment and Climate Change
Ministère de l'Environnement et de l'Action en matière de changement climatique

ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 2798-A6AMD2

Issue Date: September 30, 2016

Roadside Paving Ltd.
125A Toryork Dr, No. A
Toronto, Ontario
M9L 1X9

Site Location: 125A Toryork Drive
Toronto City,
M9L 1X9

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) crushing and screening operation, having a maximum production capacity of 60 tonnes per hour, and consisting of the following emission sources:
- one (1) crushing and screening train powered by a 298 kW internal diesel engine, exhausting to the atmosphere through a stack having an exit diameter of 0.13 metre, extending 5.3 metres above grade; and
- fugitive emission resulting from the receiving, storage and shipping of aggregate materials;

all in accordance with the Application for Approval (Air) submitted by Roadside Paving Ltd., dated September 11, 2012 and signed by Sal Pillitteri, Secretary; and the supporting information, including the Emission Summary and Dispersion Modelling Report, submitted by BCX Environmental Consulting dated September 12 2012 and signed by Neil Chan, the memorandum dated February 4, 2016 signed by Neil Chan, and the Acoustic Assessment Report prepared by Howe Gastmeier Chapnik Ltd., dated October 9, 2012 and signed by Corey Kinart, P.Eng..

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. "Best Management Practices Plan" means a document or a set of documents which describe measures to minimize dust emissions from the Facility and/or Equipment;
3. "Company" means Roadside Paving Ltd., that is responsible for the construction or operation of the Facility and includes any successors and assigns;
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 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. "Facility" means the entire operation located on the property where the Equipment is located;

8. "Manual" means a document or a set of documents that provide written instructions to staff of the Company;

9. "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;

10. "Publication NPC-205" means the Ministry Publication NPC-205, "Sound Level Limits for Stationary Sources in Class 1 & 2 Areas (Urban)", October, 1995 as amended; and

11. "Publication NPC-232" means the Ministry Publication NPC-232, "Sound Level Limits for Stationary Sources in Class 3 Areas (Rural)", October, 1995 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

OPERATION AND MAINTENANCE

1. The Company shall ensure that the Equipment is properly operated and maintained at all times. The Company shall:

(1) 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:

(a) routine operating and maintenance procedures in accordance with good engineering practices and as recommended by the Equipment suppliers;

(b) emergency procedures, including spill clean-up procedures;

(c) procedures for any record keeping activities relating to operation and maintenance of the Equipment; and

(d) all appropriate measures to minimize noise emissions from all potential sources;

(2) implement the recommendations of the Manual.

FUGITIVE DUST CONTROL

2. The Company shall prepare, not later than three (3) months after the date of this Approval, implement and update as necessary, a Best Management Practices Plan for the control of fugitive dust emissions. This Best Management Practices Plan shall include, but not be limited to:

(1) identification of the main sources of fugitive dust emissions such as:

(a) on-site traffic;

(b) paved roads/areas;

(c) unpaved roads/areas;

(d) material stock piles;

- (e) loading/unloading areas and loading/unloading techniques;
- (f) material spills;
- (g) material conveyance systems;
- (h) exposed openings in process and storage buildings; and
- (i) general work areas;

(2) potential causes for high dust emissions and opacity resulting from these sources;

(3) preventative and control measures in place or under development to minimize the likelihood of high dust emissions and opacity from the sources of fugitive dust emissions identified above. Details of the preventative and control measures shall include:

- (a) a description of the control equipment to be installed;
- (b) a description of the preventative procedures to be implemented; and/or
- (c) the frequency of occurrence of periodic preventative activities, including material application rates, as applicable;

(4) an implementation schedule for the Best Management Practices Plan, including training of Plant personnel; and

(5) inspection and maintenance procedures and monitoring initiatives to ensure effective implementation of the preventative and control measures.

RECORD RETENTION

3. 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:

(1) all records on the maintenance, repair and inspection of the Equipment;

(2) all records of any environmental complaints, including:

- (a) a description, time and date of each incident to which the complaint relates;
- (b) wind direction at the time of the incident to which the complaint relates;
- (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; and

(3) the daily checklist and log book which contains all records on the preventative and control measures completed by trained staff at the required frequency for each source of fugitive dust emission identified in the Best Management Practices Plan.

NOTIFICATION OF COMPLAINTS

4. 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:

(1) a description of the nature of the complaint;

(2) the time and date of the incident to which the complaint relates;

- (3) corrective actions taken to address the complaint;
- (4) the time and date of the corrective actions; and
- (5) a description of the effectiveness of the corrective actions.

NOISE

5. The Company shall, at all times, ensure that the noise emissions from the Facility comply with the limits set out in Ministry Publication NPC-205 or Publication NPC-232, as applicable.

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

1. Condition Nos. 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. Condition No. 3 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. 4 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. 5 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, 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:

1. 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;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The environmental compliance approval number;
6. The date of the environmental compliance approval;
7. The name of the Director, and;
8. 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

The Director appointed for the
purposes of Part II.1 of the
Environmental Protection Act
Ministry of the Environment and
Climate Change
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 30th day of September,
2016

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

JM/
c: District Manager, MOECC Toronto - District
Neil Chan, P.Eng., BCX Environmental Consulting
Corey Kinart, Howe Gastmeier Chapnik Ltd.



Ministry
of the
Environment

Ministère
de
l'Environnement

PROVISIONAL CERTIFICATE OF APPROVAL
WASTE DISPOSAL SITE
NUMBER 0854-524QUQ

SEJJ Environmental Solutions Inc.
117 Toryork Drive
Toronto, Ontario
L3R 1E3

Site Location: 117 Toryork Drive, Parts 1 & 2, R.P. 64R-1492
Toronto City, Municipality Of Metropolitan Toronto

You have applied in accordance with Section 27 of the Environmental Protection Act for approval of:

a waste disposal site

to be used for the transfer/processing of the following types of waste:

100% solid non-hazardous municipal waste limited to commercial and residential construction/demolition waste

Note: Use of the site for any other type of waste is not approved under this Certificate, and requires obtaining a separate approval amending this Certificate.

For the purpose of this Provisional Certificate of Approval and the terms and conditions specified below, the following definitions apply:

- (a) "Act" means the Environmental Protection Act, R.S.O. 1990, C. E-19 as amended;
- (b) "Approved Waste" means municipal waste as defined in Regulation 347, but limited to non-putrescible commercial and residential construction/demolition waste;
- (c) "Certificate" means this Provisional Certificate of Approval;
- (d) "commercial" means a place of business or facilities where merchandise or services can be exchanged by the general public, including hotels, retail stores, services shops and premises, public service amusements and small workshops, and offices, including government offices and administrative offices of an institution where such offices are located beyond the area where the services of the institution are primarily delivered;
- (e) "Company" means SEJJ Environmental Solutions Inc.;
- (f) "Director" means Director, Section 39, Environmental Protection Act, R.S.O. 1990, C. E-19 as amended;
- (g) "District Office" means Toronto District Office, Central Region, Ontario Ministry of the Environment;
- (h) "Ministry" means the Ontario Ministry of the Environment;
- (i) "Municipality" means the City of Toronto;
- (j) "Regulation 347" means Ontario Regulation 347, R.R.O. 1990;
- (k) "residual waste" means waste arising from processing of Approved Waste at the Site and destined for final disposal;