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

ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 1223-ADSJ2F

Issue Date: October 7, 2016

Universal Seal Inc.
148 McDonald Mine Road
Rural Route, No. 5
Hastings Highlands, Ontario
K0L 1C0

Site Location: 148 McDonald Mine Road, Town of Bancroft
Lot 13, Concession 6
Hastings Highlands Municipality, County of Hastings

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:

A polyurethane hydraulic seals manufacturing facility, consisting of the following processes and equipment:

O-Ring Production Area

- seven (7) o-ring casting machines, two (2) presses and two (2) curing ovens, having a total maximum resin usage rate of 12.9 kilograms per hour, equipped with multiple local hoods and ducted to an integrated exhaust system, discharging to the air at a volumetric flow rate of 0.53 cubic metre per second through a stack (source S1), having an exit diameter of 0.31 metre, extending 1.8 metres above the roof and 7.0 metres above grade;
- one (1) general building ventilation system serving the o-ring machine area, discharging to the air at a volumetric flow rate of 0.87 cubic metre per second through a sidewall vent (source S10), having exit dimensions of 0.43 metre by 0.46 metre, extending 1.5 metres above grade;
- one (1) general building ventilation system serving the o-ring machine area, discharging to the air at a volumetric flow rate of 1.84 cubic metres per second through a sidewall vent (source S11), having exit dimensions of 0.58 metre by 0.58 metre, extending 1.3 metres above grade;

Rotocast Production Area

- one (1) large rotocasting machine, having a maximum resin usage rate of 3.6 kilograms per hour, discharging to the air at a volumetric flow rate of 0.12 cubic metre per second through a stack (source S2), having an exit diameter of 0.25 metre, extending 1.3 metres above the roof and 5.8 metres above grade;
- one (1) small rotocasting machine, having a maximum resin usage rate of 3.3 kilograms per hour, discharging to the air at a volumetric flow rate of 0.32 cubic metre per second through a stack (source S3), having an exit diameter of 0.25 metre, extending 1.3 metres above the roof and 6.4 metres above grade;

- one (1) small rotocasting machine, having a maximum resin usage rate of 2.8 kilograms per hour, discharging to the air at a volumetric flow rate of 0.28 cubic metre per second through a stack (source S5), having an exit diameter of 0.31 metre, extending 1.8 metres above the roof and 6.9 metres above grade;
- two (2) mixing and dispensing stations for the rotocast area, discharging to the air at a volumetric flow rate of 0.25 cubic metre per second through a stack (source S4), having an exit diameter of 0.25 metre, extending 1.3 metres above the roof and 6.4 metres above grade;
- one (1) general building ventilation system serving the rotocast area, discharging to the air at a volumetric flow rate of 2.44 cubic metres per second through a sidewall vent (source S12), having exit dimensions of 0.61 metre by 0.61 metre, extending 1.5 metres above grade;

Spin Cast Production Area

- ten (10) spindle machines, having a total maximum resin usage rate of 31.9 kilograms per hour, each equipped with a local exhaust and ducted to an integrated exhaust system, discharging to the air at a volumetric flow rate of 0.11 cubic metre per second through a stack (source S6), having an exit diameter of 0.31 metre, extending 1.7 metres above the roof and 6.7 metres above grade;
- two (2) mixing and dispensing station for the spin cast area, discharging to the air at a volumetric flow rate of 0.52 cubic metre per second through a stack (source S7), having an exit diameter of 0.31 metre, extending 1.9 metres above the roof and 6.9 metres above grade;

Supporting Processes and Equipment

- one (1) enclosed cabinet used for controlling emissions from the abrasive blasting operations, having a maximum blast media usage rate of 200 grams per hour, discharging to the air at a volumetric flow rate of 0.14 cubic metre per second through a stack (source S8), having an exit diameter of 0.15 metre, extending 10.0 metres above grade;
- one (1) exhaust system serving the Moca Room used for curing agent application, discharging to the air at a volumetric flow rate of 0.06 cubic metre per second through a stack (source S9), having an exit diameter of 0.13 metre, extending 2.9 metres above grade;
- one (1) exhaust system serving the maintenance welding operations, discharging to the air through a stack (source S16);
- mould washing operations discharging inside the plant area;

all in accordance with the Application for Environmental Compliance Approval submitted by Universal Seal Inc., dated May 4, 2015 and signed by Blaine Shannick, General Manager, and all supporting information prepared by Roland Verkaik, P.Eng., including the additional information provided by Roland Verkaik, P.Eng., dated August 16, 2016. The application also includes the Acoustic Assessment Report dated July 11, 2016 and signed by Roland Verkaik, P.Eng. as well as the additional noise related information provided by email from Roland Verkaik on October 3, 2016.

For the purpose of this environmental compliance approval, the following definitions apply:

1. "Acoustic Assessment Report" means the report, prepared in accordance with Publication NPC-233 submitted in support of the application, that documents all sources of noise emissions and Noise Control Measures present at the Facility. "Acoustic Assessment Report" also means the Acoustic

Assessment Report dated July 11, 2016 and signed by Roland Verkaik, P.Eng.

2. "Approval" means this Environmental Compliance Approval, including the application and supporting documentation listed above;
3. "Company" means Universal Seal Inc., that is responsible for the construction or operation of the Facility and includes any successors and assigns;
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. "Noise Control Measures" means measures to reduce the noise emissions from the Facility and/or Equipment including, but not limited to, silencers, acoustic louvres, enclosures, absorptive treatment, plenums and barriers. It also means the noise control measures outlined in the Acoustic Assessment Report.
10. "Publication NPC-233" means the Ministry Publication NPC-233, "Information to be Submitted for Approval of Stationary Sources of Sound", October, 1995 as amended.
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. 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;
 - (c) procedures for any record keeping activities relating to operation and maintenance of the Equipment; and
 - (d) all appropriate measures to minimize noise and odorous emissions from all potential sources;
 - (2) implement the recommendations of the Manual; and

(3) retain, for a minimum of two (2) years from the date of their creation, all records on the maintenance, repair and inspection of the Equipment, and make these records available for review by staff of the Ministry upon request.

2. The Company shall:

(1) implement the Noise Control Measures as outlined in the Acoustic Assessment Report;

(2) ensure, at all times, that the noise emissions from the Facility comply with the limits set in Ministry Publication NPC-300; and

(3) ensure that the Noise Control Measures are properly maintained and continue to provide the acoustical performance outlined in the Acoustic Assessment Report.

3. The Company shall restrict the operation of the welding fume extractor and the shipping/receiving operations to the daytime hours from 7 a.m. to 7 p.m.

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.

In addition, the Company is required 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.

2. Condition No. 2 is included to provide the minimum performance requirements considered necessary to prevent an adverse effect resulting from the operation of the Facility.

3. Condition No. 3 is included to ensure that operation of the welding fume extractor and the shipping and receiving operations are not extended beyond the stated hours to prevent an adverse effect resulting from the operation of the Equipment.

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

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

*** 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 7th day of October, 2016

Rudolf Wan, P.Eng.

Director

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

RA/

c: Area Manager, MOECC Belleville Area Office

c: District Manager, MOECC Kingston District Office

Roland Verkaik