

**AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL**

NUMBER 1714-9KSP7N

Issue Date: July 16, 2014

Masterloy Products Company  
5663 Doncaster Road  
Gloucester, Ontario  
K1G 3N4

Site Location: 5663 Doncaster Road, Gloucester  
Ottawa City  
K1G 3N4

*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) pulse jet type baghouse dust collector (Mixing Dust Collector - source 1), to control emissions from raw materials weighing and handling operations performed up to 6 (six) hours per day, equipped with 604 square metres of HemiPleat Cellose filter media cartridges, discharging into the atmosphere at a nominal maximum volumetric flow rate of 5.66 actual cubic metres per second, through a stack, having a rectangular exit 0.91 metre by 1.22 metres, extending 5.69 metres above the grade;
- one (1) high efficiency Venturi scrubber unit (Wet Scrubber - source 2), to control particulate emissions from a dryer, a turntable and a fume hood over the reaction boxes (all processes running up to 1 (one) hour per day), operating at a nominal water circulation rate of 12.0 litres per second, exhausting into the atmosphere at a nominal volumetric flow rate of 9.1 cubic metres per second at an approximate temperature of 32 degrees Celsius through a stack, having an exit diameter of 0.80 metre, extending 13.4 metres above the roof and 24.4 metres above the grade;
- one (1) mechanical shaker type baghouse dust collector (Wheelabrator Baghouse - source 3), to control dust emission from cleaning of ferroalloys operations performed up to 1 (one) hour per day, equipped with 110 square metres of polyester felt filter bags, discharging into the atmosphere at a nominal volumetric flow rate of 0.56 actual cubic metre per second through a stack, having a rectangular exit 0.32 metre by 0.27 metre, extending 0.87 metre above the roof and 11.5 metres above the grade;

- one (1) pulse jet type baghouse dust collector (Alloy Crush Dust Collector - source 4), to control emissions from crushing and grinding of ferroalloys operations performed up to 3 (three) hours per day, equipped with 336 square metres of synthetic cellulose media cartridges, discharging into the atmosphere at a nominal volumetric flow rate of 2.68 actual cubic metres per second through a stack, having a rectangular exit 0.36 metre by 0.21 metre, extending 1.03 metres above the roof and 14.5 metres above the grade;
- one (1) mechanical shaker type dust collector (Bagging Dust Collector - source 5), to control emissions from bagging and packaging of finished products operations performed up to 4 (four) hour per day, equipped with 20 square metres of polyester filter bags, discharging into the atmosphere at a nominal volumetric flow rate of 0.85 actual cubic metres per second through a stack, having a rectangular exit 0.38 metre by 0.25 metre, extending 0.87 metres above the roof and 14.5 metres above the grade;
- one (1) pulse jet type dust collector (Slag Crushing Dust Collector - source 6), to control emissions from slag crushing operations performed up to 4 (four) hours per day, equipped with 77 square metres of polyester filter bags, discharging into the atmosphere at a nominal volumetric flow rate of 2.83 actual cubic metres per second, through a stack, having an exit diameter of 0.87 metre, extending 3.53 metres above the roof and 11.0 metres above the grade;
- natural gas fired comfort heating equipment;

all in accordance with the Application for Approval (Air & Noise) submitted by Masterloy Products Company dated September 10, 2013 and signed by Patrick Vachon, Plant Manager; the Emission Summary and Dispersion Modelling Report prepared by Katherine Armstrong (Golder Associates Ltd.) dated September 23, 2013, two (2) letters (emails) from Katherine Armstrong (Golder Associates Ltd.) dated June 5, 2013, the letters (emails) from Katherine Armstrong (Golder Associates Ltd.) dated May 28, 2014 and July 10, 2014, the Noise Screening Process form dated September 19, 2014 and signed by Patrick Vachon, Plant Manager (Masterloy Products Company), and all information 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. "Best Management Practices Plan or BMPP" means a document or a set of documents which describe measures to minimize dust emissions from the Facility, including the report entitled "Masterloy Products Company, Best Management Practices Plan for the Control of Fugitive Dust April 2010", prepared by Golder Associates Ltd. and signed by Christopher Keast and Sean Capstick, P.Eng.;
3. "Company" means Masterloy Products Company, 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 emission control 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**

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;
    - (d) all appropriate measures to minimize noise and fugitive dust emissions from all potential sources;
    - (e) the frequency of inspection and replacement of the filter material in the Equipment; and

- (f) daily records of Mixing Dust Collector (source 1) performance, as per Manufacturer Performance Warranty requirements;
  - (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, 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.
  3. The Company shall immediately implement the Best Management Practices Plan for the control of fugitive dust emissions resulting from the operation of the Facility.
  4. The Company shall periodically review and update the BMPP as proposed in the plan or as requested by the District Manager.
  5. The Company shall record, in a log book, each time a specific preventative and control measure described in the BMPP is implemented.

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

1. Conditions No. 1, 3, 4 and 5 are included to emphasize that the Equipment/Facility 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.

**Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). 8626-83UKP3 issued on June 9, 2010.**

*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  
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) 212-6349, Fax: (416) 314-4506 or [www.ert.gov.on.ca](http://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](http://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 16th day of July, 2014



Rudolf Wan, P.Eng.

Director

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

JK/

c: District Manager, MOE Ottawa  
Kate Liubansky, Golder Associates Ltd.

