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Ministry of the Environment
Ministère de l'Environnement

AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 0091-9JEN2B

Issue Date: July 7, 2014

Johnson & Johnson Inc.
890 Woodlawn Rd W
Guelph, Ontario
N1K 1A5

Site Location: 890 Woodlawn Rd W
Guelph City, County of Wellington
N1K 1A5

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) mechanical shaker type dust collector (source CC - Granulator Glatt Dust Collector), equipped with 32.1 square meters of polyester type filter bags and HEPA filters, having an overall filter efficiency of 99.97% for 0.3 micrometer particles and larger, venting into the air at a nominal volumetric flow rate of 6.0 actual cubic metre per second at an ambient temperature through a stack, having an exit diameter of 0.53 metre, extending 11.85 metres above grade;

- one (1) mechanical shaker type dust collector (source Y - Coating No. 5 Dust Collector), equipped with 32.1 square meters of polyester type filter bags and HEPA filters, having an overall filter efficiency of 99.99% for 0.5 micrometer particles and larger, venting into the air at a nominal volumetric flow rate of 0.19 cubic metre per second at an ambient temperature through a stack, having an exit diameter of 0.15 metre, extending 2.0 metres above grade;

- one (1) mechanical shaker type dust collector (source X - Vector Granulator Dust Collector), equipped with 32.1 square meters of polyester type filter bags and HEPA filters, having an overall filter efficiency of 99.97% for 0.5 micrometer particles and larger, venting into the air at a nominal volumetric flow rate of 0.19 cubic metre per second at an ambient temperature through a stack, having an exit diameter of 0.15 metre, extending 2.0 metres above grade;

- one (1) reverse pulse jet type baghouse dust collector, to control emissions from caplets coating operation (source S - Coating No. 4 Dust Collector), equipped with 377.8 square metres of a proprietary blend of fine cellulose fibers filter cartridges and an exhaust silencer, discharging into the air at a maximum volumetric flow rate of 1.9 cubic metres per second at an approximate temperature of 20 degrees Celsius, through a stack, having an exit diameter of 0.38 metre, extending 1.8 metres above the roof and 10.97 metres above the grade,

- one (1) silencer for the baghouse exhaust (Coating No. 4), capable of providing the following values of Insertion-Loss in 1/1 octave frequency bands:

Centre Frequency (Hertz)	63	125	250	500	1000	2000	4000	8000
Insertion-Loss (decibel)	17	18	21	28	31	27	20	17

- one (1) electrolytic ozone generating system and associated thermal vent ozone destructor (source

P), exhausting into the air at a maximum volumetric flow rate of 0.009 actual cubic metres per second through a stack, having an exit diameter of 0.03 metre, extending 8.0 metres above grade;

- one (1) reverse pulse jet type baghouse dust collector, to control emissions from caplets coating operation (source O - Coating No. 3 Dust Collector), equipped with 77.8 square metres of a proprietary blend of fine cellulose fibers filter bags and an exhaust silencer, discharging into the air at a maximum volumetric flow rate of 1.9 cubic metres per second at an approximate temperature of 20 degrees Celsius, through a stack, having an exit diameter of 0.38 metre, extending 1.8 metres above the roof and 10.97 metres above the grade,

- one (1) silencer for the baghouse exhaust (Coating No. 3), capable of providing the following values of Insertion-Loss in 1/1 octave frequency bands:

Centre Frequency (Hertz)	63	125	250	500	1000	2000	4000	8000
Insertion-Loss (decibel)	17	18	21	28	31	27	20	17

- one (1) reverse pulse jet type baghouse dust collector, to control emissions from caplets coating operation (source G - Coating No. 2 Dust Collector), equipped with 168.0 square metres of paper fiber filter bags, discharging into the air at a maximum volumetric flow rate of 0.93 cubic metres per second at an approximate temperature of 45 degrees Celsius, through a stack, having an exit diameter of 0.28 metre, extending 1.31 metres above the roof and 10.45 metres above grade;

- one (1) reverse pulse jet type baghouse dust collector, to control emissions from caplets coating operation (source F - Coating No. 6 Dust Collector), equipped with 377.8 square metres of a proprietary blend of fine cellulose fibers filter cartridges and an exhaust silencer, discharging into the air at a nominal volumetric flow rate of 2.6 actual cubic metres per second at an approximate temperature of 50 degrees Celsius, through a stack, having an exit diameter of 0.38 metre, extending 1.8 metres above the roof and 10.97 metres above grade;

- one (1) silencer for the baghouse exhaust (Coating No. 6 Dust Collector), capable of providing the following values of Insertion-Loss in 1/1 octave frequency bands:

Centre Frequency (Hertz)	63	125	250	500	1000	2000	4000	8000
Insertion-Loss (decibel)	17	18	21	28	31	27	20	17

- one (1) reverse pulse jet type baghouse dust collector, to control emissions from various processing areas (source E - Main Dust Collector), equipped with 152.4 square metres of dacron felt filter bags, discharging into the air at a maximum volumetric flow rate of 4.3 cubic metres per second at an approximate temperature of 20 degrees Celsius, through a stack, having an exit diameter of 0.77 metre, extending 1.2 metres above the roof and 10.1 metres above grade;

- one (1) mechanical shaker type baghouse dust collector, to control emissions from a size 6 granulator/dryer (source D - Granulator S-6 Dust Collector), equipped with 22.0 square metres of cloth filter bags, discharging into the air at a maximum volumetric flow rate of 2.0 cubic metres per second at an approximate temperature of 60 degrees Celsius, through a stack, having an exit diameter of 0.55 metre, extending 1.2 metres above the roof and 10.1 metres above grade;

- one (1) mechanical shaker type baghouse dust collector, to control emissions from a size 9 granulator/dryer (source C - Granulator S-9 Dust Collector), equipped with 36.0 square metres of cloth filter bags, discharging into the air at a maximum volumetric flow rate of 6.0 cubic metres per second at an ambient temperature, through a dust collector opening extending 10.0 metres above grade;

- one (1) printing press (source N - Printing Press 1), having an approximate maximum ink usage rate

of 0.13 kilogram per hour, discharging into the air at a maximum volumetric flow rate of 0.24 actual cubic metre per second through an exhaust roof fan, extending 0.3 metre above the roof and 9.4 metres above grade;

- one (1) printing press (source R - Printing Press 2), having an approximate maximum ink usage rate of 0.13 kilogram per hour, discharging into the air at a maximum volumetric flow rate of 0.24 actual cubic metre per second through an exhaust roof fan, extending 0.3 metre above the roof and 9.4 metres above grade;

- one (1) cooling tower (source J), having a cooling rating of 8.4 million kilojoules per hour, exhausting into the air at a maximum volumetric flow rate of 58.1 actual cubic metres per second, through a tower vent, having an exit diameter of 4.0 metres, extending 12.6 metres above grade;

- one (1) exhaust system, serving an alcohol storage room (source T), venting into the air at a maximum volumetric flow rate of 0.24 actual cubic metre per second, through a wall vent, having an exit diameter of 0.30 metre, extending 3.58 metres above grade;

- one (1) exhaust system, serving a chiller room (source M), venting into the air at a maximum volumetric flow rate of 0.47 actual cubic metre per second, through a wall vent, having an exit diameter of 1.3 metres, extending 2.31 metres above grade;

- one (1) exhaust system, serving a kitchen oven (source A), venting into the air at a maximum volumetric flow rate of 1.9 actual cubic metre per second, through a stack, having an exit diameter of 0.50 metre, extending 3.0 metres above the roof and 12.2 metres above grade;

- one (1) natural gas-fired boiler (source Q - Boiler No. 2), having a maximum heat input of 7,110,000 kilojoules per hour, exhausting into the air through a stack, having an exit diameter of 0.46 metre, extending 2.56 metres above the roof, and 11.7 metres above grade;

- two (2) natural gas-fired boilers (source H and K - Boiler No. 1 and No. 3), each having a maximum heat input of 7,110,000 kilojoules per hour, each exhausting into the air through a stack, each having an exit diameter of 0.41 metre, each extending 3.05 metres above the roof, and 11.9 metres above grade;

- thirteen (13) laboratory exhaust systems, venting into the air as per Schedule "A";

SCHEDULE "A": Laboratory exhausts.

Source ID	Description	Volumetric Flow Rate (cubic metre per second)	Stack Parameters		
			Exit Diameter (metre)	Height Above Roof (metre)	Height Above Grade (metre)
U	Analytical Lab Exhaust	0.60	0.25	3.0	12.18
V	Analytical Lab Exhaust	0.60	0.25	3.0	12.18
W	Analytical Lab Exhaust	0.60	0.25	3.0	12.18
Z	Analytical Lab Exhaust	0.37	0.25	3.0	12.85
B4	Dissolution Area	0.15	0.30	2.67	11.85
B6	Solvent Lab Area	0.91	0.30	2.67	11.85
B7	Solvent Lab Area	0.71	0.25	2.67	11.85
B8	Solvent Lab Area	0.05	0.15	2.67	11.85

B10	Solvent Lab Area	0.71	0.25	2.67	11.85
B11	Solvent Lab Area	0.41	0.25	2.67	11.85
B12	R&D Lab	0.49	0.25	2.67	11.85
B13	R&D Lab	0.49	0.25	2.67	11.85
B16	Solvent Lab Area	0.91	0.30	2.67	11.85

- one (1) exhaust system (source BB), serving a facility mechanical room, venting into the air at a nominal volumetric flow rate of 0.83 actual cubic metre per second through a stack, having an exit diameter of 0.71 metre, extending 1.4 metres above the roof and 10.6 metres above grade;

- one (1) exhaust system (source AA), serving an autoclave area, venting into the air at a nominal volumetric flow rate of 0.38 actual cubic metre per second through a stack, having an exit diameter of 0.76 metre, extending 1.0 metre above the roof and 10.2 metres above grade;

all in accordance with the Application for Approval (Air & Noise) submitted by Johnson & Johnson Inc. dated November 28, 2012 and signed by Michael Harding, Manager, Facility Services; the Acoustic Assessment Report dated November 29, 2012, prepared by Jim Anderson of MBN Environmental Engineering Inc. 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. "Company" means Johnson & Johnson Inc. that is responsible for the construction or operation of the Facility and includes any successors and assigns;
3. "EPA" means the Environmental Protection Act , R.S.O. 1990, c.E.19, as amended ;
4. "Equipment" means the equipment described in the Company's application, this Approval and in the supporting documentation referred to herein, to the extent approved by this Approval;
5. "Facility" means the entire operation on the property where the Equipment is located;
6. "Manual" means a document or a set of documents that provide written instructions to staff of the Company;
7. "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 ;
8. "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
9. "Publication NPC-233" means the Ministry Publication NPC-233, "Information to be Submitted for Approval of Stationary Sources of Sound", 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, fugitive dust and odorous emissions from all potential sources; and

(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.

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 Act, 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). 6179-8EURPN issued on April 26, 2011.

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**

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 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 Guelph
Jim Anderson, MBN Environmental Engineering Inc.