

Beshada, Eshetu

From: Mike Pinette <mpinette@solventum.com>

Sent: Thursday, February 29, 2024 2:02 PM

To: +WPG569 - Environmental Approvals Branch Director <EABDirector@gov.mb.ca>

Cc: Beshada, Eshetu <Eshetu.Beshada@gov.mb.ca>; Burland Ross, Siobhan <Siobhan.BurlandRoss@gov.mb.ca>; Jason Clyde <jwclyde@solventum.com>

Subject: 3M Healthcare Canada Company Limited – NOA

Hello, this Notice of Alteration is being submitted to advise that the 3M Morden Healthcare manufacturing site is seeking approval to vent some heat to outdoors.

As identified in the attached Notice of Alteration and cover letter, newly installed vacuum pumps are generating heat which is adding to facility cooling load in our manufacturing space, during summer as well as winter months.

Please review the attached information.

If any additional information is required, please feel free to contact me at your convenience.

I would be happy to answer any questions you might have.

Yours sincerely,

Mike Pinette

Mike Pinette CRSP

EHS Coordinator | MSD Operations

400 Route 100, Morden, Manitoba, Canada R6M 1Z9

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3M.com/HealthCare



3M Health Care is in the process of becoming Solventum. The new name and brand will go into effect when the spin-off of the independent healthcare company occurs which is expected in the first half of 2024, subject to final approval by 3M's Board of Directors and other required conditions.

Notice of Alteration Form



File No. : 2518.00	Environment Act Licence No. : 964RR
Legal name of the Licencee: 3M Healthcare Canada Company Limited	
Name of the development: 3M Morden	
Category and Type of development per Classes of Development Regulation: Manufacturing <SELECT>	
Licencee Contact Person: Jason Clyde, 3M Morden Plant Manager	
Mailing address of the Licencee: 75 Courtneypark Drive West	
City: Mississauga	Province: Ontario
Postal Code: L5W 0E3	
Phone Number: (204) 822-7738	Fax: Email: jwclcyde@mmm.com or jwclcyde@solventum.com
Name of proponent contact person for purposes of the environmental assessment (e.g. consultant): Mike Pinette	
Phone: (204) 822-7730	Mailing address: 3M Morden, 400 Route 100
Fax: (204) 822-2402	Morden Manitoba R6M 1Z9
Email address: mpinette@mmm.com or mpinette@solventum.com	
Short Description of Alteration (max 90 characters): Replaced 4 existing vacuum pumps for increased efficiency. Like to vent heat outside.	
Alteration fee attached: Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>	
If No, please explain: Not a significant change. No contaminants other than heat.	
Date: 2024-02-29	Signature: Printed name: Jason Clyde
<p>A complete Notice of Alteration (NoA) consists of the following components:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Cover letter <input checked="" type="checkbox"/> Notice of Alteration Form <input checked="" type="checkbox"/> 1 hard copy and 1 electronic copy of the NoA detailed report (see "Information Bulletin - Alteration to Developments with Environment Act Licences") <input type="checkbox"/> \$500 Application fee, if applicable (Cheque, payable to the Minister of Finance) 	
<p>Submit the complete NoA to: Director, Environmental Approvals Branch Manitoba Environment and Climate 14 Fultz Blvd Winnipeg, Manitoba R3Y 0L6 EABDirector@gov.mb.ca</p> <p>For more information: Phone: (204) 945-8321 Fax: (204) 945-5229 https://www.gov.mb.ca/sd/permits_licenses_approvals/eal/licence/index.html</p>	
<p>Note: Per Section 14(3) of the Environment Act, Major Notices of Alteration must be filed through submission of an Environment Act Proposal Form (see "Information Bulletin - Environment Act Proposal Report Guidelines")</p>	

3M Healthcare Canada Company Limited
3M Canada Company
#400 Route 100
Morden MB R6M 1Z9
Ph: 204-822-6284
Fax: 204-822-4181

February 29, 2024

Environmental Assessment and Licensing Branch
Manitoba Environment and Climate Change
14 Fultz Blvd
Winnipeg, Manitoba R3Y 0L6

Manitoba Environment and Climate Director Tracy Schmidt

**RE: Notice of Minor Alteration as per Section 14 of the Environment Act
The proposed venting of heat from 4 claw style vacuum pumps installed at the 3M Morden site.**

Current Environment Site License held – 964RR

3M Healthcare Canada Company Limited is proposing to vent heat generated by 4 site vacuum pumps to external environment. The proposed venting is only heat with no additional contaminants present.

Recently 4 vacuum pumps (inefficient and higher in preventive maintenance(PM) activity) were replaced with high efficiency claw style vacuum pumps which create greater vacuum and require very little PM activity to maintain reliable operation. The older style vacuum pumps were becoming somewhat unreliable and contained large quantities of oil and were prone to leaking small amounts of oil on the production floor from time to time which caused safety and potential environmental concerns. The new style of pump contains very little oil (~ a liter) and to date has not leaked any oil to the shop floor. An additional benefit to the new pump is the increased vacuum created which has allowed elimination of some smaller satellite vacuum pumps from use, resulting in reduced noise for our employees and reduced energy use at the site.

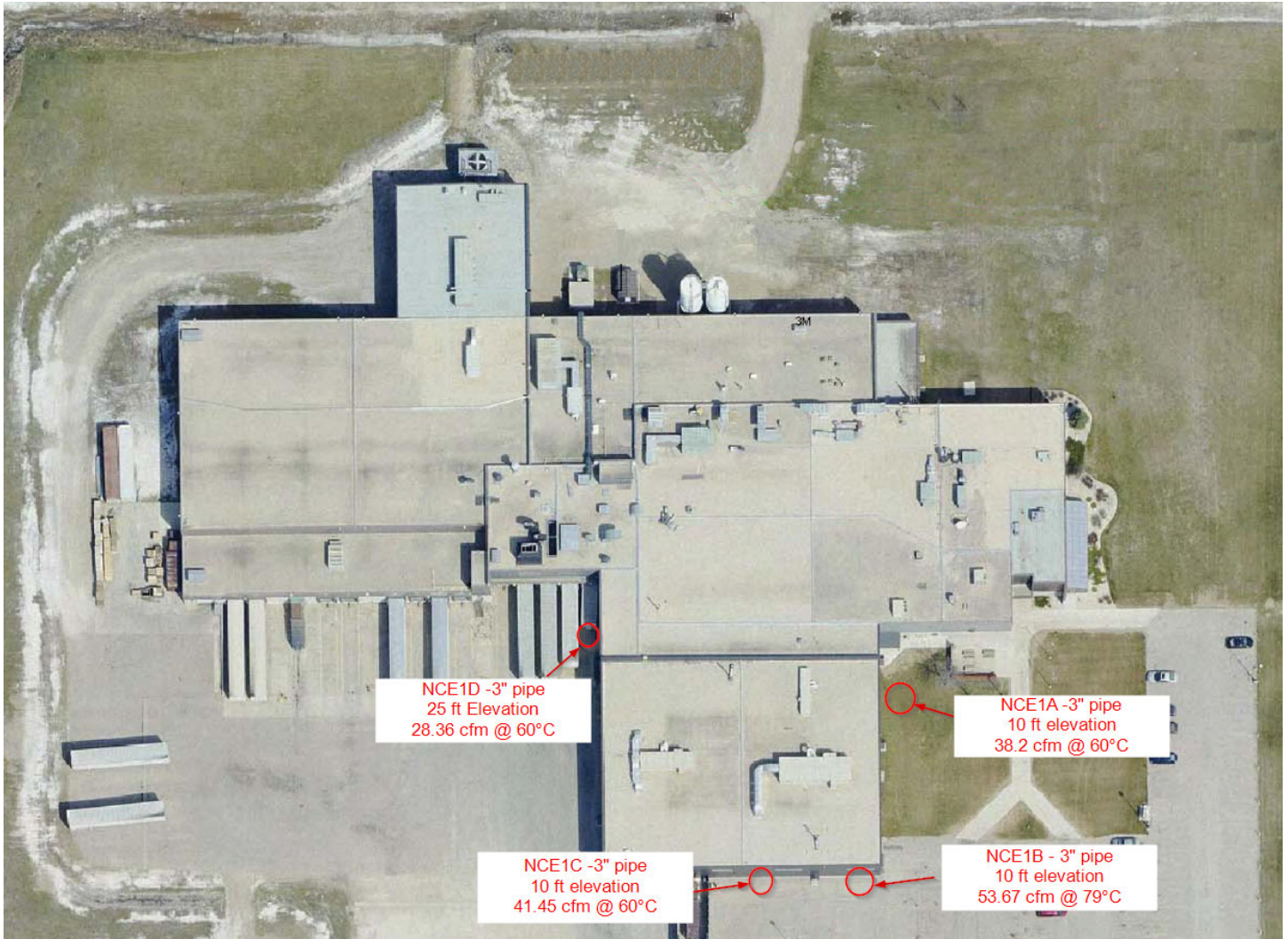
With the installation of these vacuum pumps, it has become apparent that the heat generated by these pumps is necessitating increased cooling to maintain temperature in the processing areas. We would like to vent the heat discharge from these vacuum pumps to outdoors. There are no additional contaminants introduced with this emission, other than warm air.

Currently the vacuum pumps only run when the manufacturing equipment is operational. Current equipment shift loading varies each week, with some machines running 24 hours per day, 5 days a week, and other machines running less frequently. It would be safe to assume that we would run at least one vacuum pump during the full 24 hour cycle and the remainder anywhere from 0, 8 or 16 hours per day. This may change as production requirements increase or decrease.

We have compiled the below information on the 4 units, with temps taken at the output of the vacuum pump:

- NCE1A – 38.2cfm @ 77°C
- NCE1B – 53.67cfm @ 79 °C
- NCE1C – 41.45cfm @ 70°C
- NCE1D – 28.36cfm @ 71°C

The proposed vent piping being considered to carry the heat load from the vacuum pump to corresponding wall vents would be 3" in diameter. The wall vents would be placed at various elevations as indicated on the included site diagram. You will notice that air temperatures have been reduced slightly on the site diagram to accommodate for anticipated heat loss due to the length of vent piping that would be required to direct the heat to the appropriate outdoor vent location.



Taking this action would allow us to save on cooling cost for both summer and winter months.

If any additional information is required, please feel free to contact me at your convenience. I would be happy to answer any questions you might have.

Yours sincerely,

Mike Pinette
EHS Coordinator
3M Morden Manufacturing
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Morden Manitoba R6M 1Z9
email: mpinette@solventum.com
mobile: 204 332 9273