



Boeing Canada Operations
Ltd.
Boeing Canada Winnipeg
99 Murray Park Road
Winnipeg, MB R3J 3M6

File No. 3009.10

January 27th, 2023

Environmental Approvals
Manitoba Environment, Climate and Parks
1007 Century Street
Winnipeg, MB R3H 0W4

ATTN: Director

Re: Notice of Alteration Boeing Canada Winnipeg – EAL no. 1301 RR – 99 Murray Park Road, Winnipeg

Please find attached a Notice of Alteration (NoA) form, a detailed NoA report and the application fee for the Boeing Canada Winnipeg (Boeing Canada Operations Ltd.) development located at 99 Murray Park Road in Winnipeg, MB.

This notice of alteration is to provide Manitoba Environment, Climate and Parks with notification of Boeing Canada Winnipeg's (Boeing Canada Operations Ltd.) plans to construct a new building structure (addition) to contain a new product storage freezer that will be located outside and to the south of the existing development at 99 Murray Park Road that is currently operating under Environment Act Licence No. 1301 RR; originally issued on August 28th 1989, and most recently revised on August 18th 2016.

If you have any questions or require further information about the Notice of Alteration, please feel free to contact me by phone at (204) 833-7196, or by email at rebecca.wroblewski@boeing.com.

Sincerely,


Rebecca Wroblewski
Environmental Specialist
Environment, Health & Safety
Boeing Canada Winnipeg
99 Murray Park Road
Winnipeg MB R3J 3M6

Notice of Alteration Form



File No. : 3009.10	Environment Act Licence No. : 1301 RR
Legal name of the Licencee: BOEING CANADA OPERATIONS LTD.	
Name of the development: BOEING CANADA WINNIPEG	
Category and Type of development per Classes of Development Regulation: Manufacturing Manufacturing and industrial plants	
Licencee Contact Person: REBECCA WROBLEWSKI	
Mailing address of the Licencee: 99 MURRAY PARK ROAD	
City: WINNIPEG	Province: MB Postal Code: R3J 3M6
Phone Number: (204) 833-7196	Fax: Email: rebecca.wroblewski@boeing.com
Name of proponent contact person for purposes of the environmental assessment (e.g. consultant): REBECCA WROBLEWSKI	
Phone: (204) 833-7196	Mailing address: 99 MURRAY PARK ROAD
Fax:	WINNIPEG MB R3J 3M6
Email address: rebecca.wroblewski@boeing.com	
Short Description of Alteration (<i>max 90 characters</i>): CONSTRUCT BUILDING ADDITION TO CONTAIN PRODUCT STORAGE FREEZER	
Alteration fee attached: Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>	
If No, please explain:	
Date: January 27th 2023	Signature: <div style="border: 1px solid red; background-color: black; width: 150px; height: 30px; display: inline-block;"></div>
	Printed name: REBECCA WROBLEWSKI
<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 checked="" 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, Climate and Parks 1007 Century Street Winnipeg, Manitoba R3H 0W4 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>	

Notice of Alteration Report
Freezer Building Addition

Boeing Canada Winnipeg
Boeing Canada Operations Ltd.
99 Murray Park Road, Winnipeg, Manitoba

Environment Act Licence No. 1301 RR
Client File No. 3009.10

January 27th 2023

Table of Contents

Executive Summary	3
Proposed Changes to the Development as Licensed	3
Change in Environmental Effects	4
Figure 1: Freezer Building Location – 99 Murray Park Road	5
Figure 2: Freezer Building Design	5

1. Executive Summary

This notice of alteration is to provide Manitoba Environment, Climate and Parks with notification of Boeing Canada Winnipeg's (Boeing Canada Operations Ltd.) plans to construct a new building structure (addition) to contain a new product storage freezer that will be located outside and to the south of the existing development at 99 Murray Park Road that is currently operating under Environment Act Licence No. 1301 RR.

Boeing Canada Winnipeg is the largest composite aerospace manufacturer in Canada. The raw materials that are used to build the composite components include a variety of cloths including those that are pre-impregnated with phenolic epoxy resins to aid in the manufacturing process. These products are time and temperature sensitive and require consistent refrigeration. The existing primary product storage space for these materials is a fully enclosed walk-in freezer that is located within the Murray Park Road Facility. The existing freezer was installed in 1989 and is currently at the end of its service life; requiring on-going repairs to remain operational. Once the proposed freezer building addition is commissioned, the existing freezer structure will be demolished and the internal floor space will be repurposed to support Boeing Canada Winnipeg's existing manufacturing operations (the precise details are still to be determined).

The proposed freezer building addition will be constructed to meet LEED Silver Certification standards; aligned with the Boeing Company's Sustainable Site and Building Design standard.

The only physical change to the existing development as a result of the freezer building addition will be newly created entrances into the freezer building addition for personnel and material handling (two rapid roll-up doors (8'W x 12'H) and three man-doors).

The project is currently in the integrated design phase, with the final design anticipated to be completed by February 2023. Following the design phase; land drainage sewer relocation is projected to begin toward the end of April 2023 and continue through August 2023.

The physical construction of the freezer building addition is projected to begin in July 2023; including the civil and architectural construction (freezer building), mechanical equipment installation (freezer equipment), and electrical and utilities installations. The proposed freezer building addition construction is anticipated to be completed and ready for use in April 2025.

2. Proposed Changes to the Development as Licensed

The proposed change to the development as licensed is the construction of a single level structure (building addition) on the south side of the existing development that is intended to contain a new product storage freezer.

The proposed ~12,000 square foot building addition will contain the following infrastructure:

- An outdoor recessed truck receiving bay that will be accessed from Murray Park Road
- A non-refrigerated (but heated and air conditioned) product receiving room including a pallet receiving area and attached receiving office
- Freezer enclosure (approximately ±7,200-ft² in area)
- Product thaw room (approximately ±2,200-ft² in area)
- Mechanical and electrical machine service room (to support placement of refrigeration plant equipment, electrical distribution infrastructure, and fire suppression system) located on the mezzanine level of the new building addition (approximately ±1,000-ft² in area)

- Backup 750KW generator (above ground petroleum (diesel) storage tank) – that will be constructed and operated in compliance with the Storage and Handling of Petroleum Products and Allied Products Regulation

The purpose of the proposed freezer building addition is to replace the existing product storage freezer that is currently at the end of its service life. The product storage freezer is necessary to store the raw materials that are needed for composite panel manufacturing at Boeing Canada Winnipeg. The products to be stored are identified as engineered composite materials with major constituents consisting of glass oxides and aromatic glycidyl and aniline derivatives, minor constituents include phenolic epoxy resins and trace flammable solvents. The products are not regulated by the Transportation of Dangerous Goods (TDG) Regulations and are not identified as combustible. Information detailing the specific chemical composition of these products can be provided upon request.

Figures 1 and 2 of this report detail the proposed location and physical appearance of the freezer building addition at 99 Murray Park Road. More detailed engineering drawings of the building design can also be provided upon request.

3. Change in Environmental Effects as a Result of the Proposed Changes

No significant changes in environmental effects are anticipated as a result of the proposed freezer building addition. It is believed that the construction of the proposed freezer building addition will in fact improve the overall environmental impact of Boeing Canada Winnipeg's freezer product storage operation by replacing the existing freezer system.

The existing freezer space was installed in 1989 and is currently at the end of its service life; requiring on-going repairs to remain operational. In recent years; critical equipment failures have occasionally resulted in documented and self-reported releases of R422A refrigerant from the system. The new proposed freezer's refrigeration system will run primarily on carbon dioxide (CO₂) which is non-ozone depleting and has a significantly lower global warming potential (GWP) than the existing system that utilizes R422A hydrofluorocarbon (HFC) refrigerant. The proposed freezer system will also have an integrated refrigerant monitoring system.

In addition, the new freezer building addition will be constructed to meet LEED Silver Certification standards; aligned with the Boeing Company's Sustainable Site and Building Design standard. The specific certification credits that will be pursued are still being determined but it is expected that the sustainable design and material selection will result in improved water and energy use, indoor air quality and reduced emissions.

Figure 1: Freezer Building Location – 99 Murray Park Road

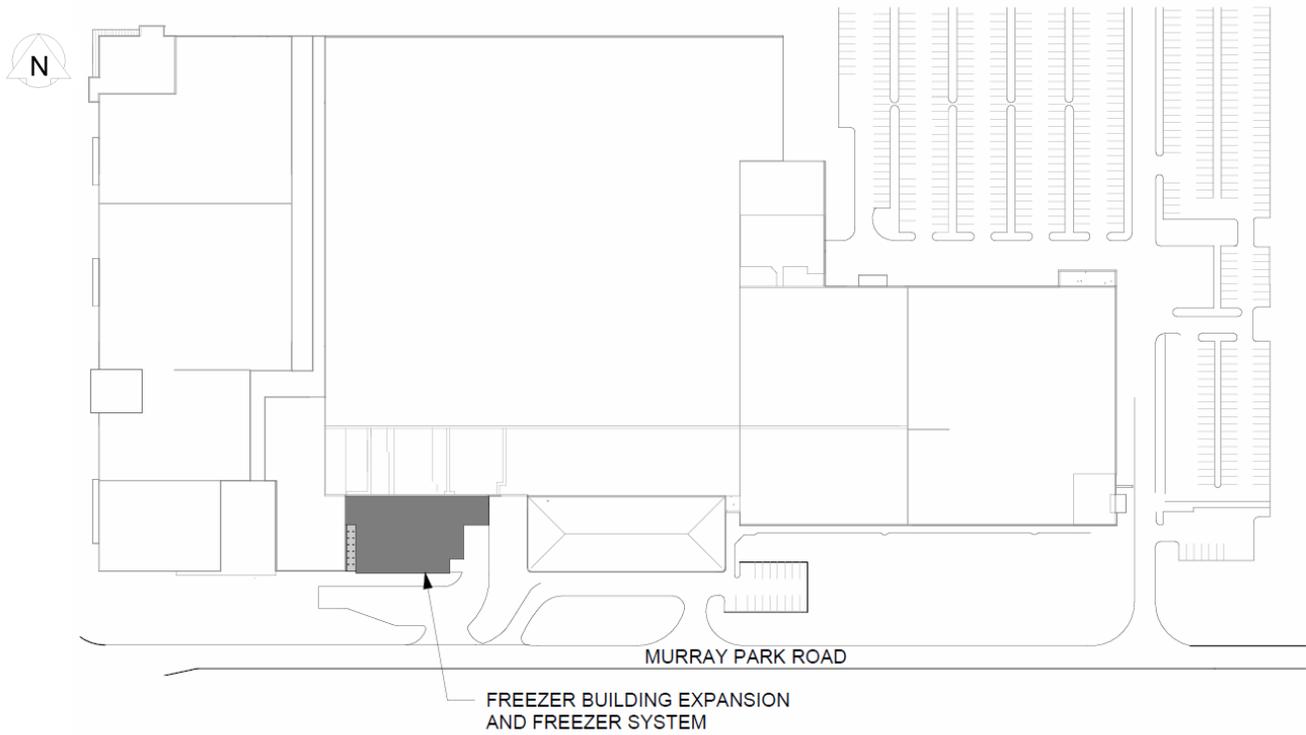


Figure 2: Freezer Building Design

