

Notice of Alteration Form

COPY



Client File No. :	Environment Act Licence No. : 2528 E RR
Legal name of the Licencee:	New Flyer Industries Canada ULC
Name of the development:	New Flyer Industries Canada ULC
Category and Type of development per Classes of Development Regulation:	Manufacturing and industrial plants
Licencee Contact Person:	Eric St. Pierre, Environmental Coordinator
Mailing address of the Licencee:	711 Kernaghan Avenue
City:	Winnipeg
Province:	Manitoba
Postal Code:	R2C 3T4
Phone Number:	(204) 224-6391
Fax:	(204) 224-6620
Email:	eric_st.pierre@newflyer.com
Name of proponent contact person for purposes of the environmental assessment (e.g. consultant):	Eric St. Pierre, Environmental Coordinator, New Flyer
Phone:	(204) 224-6391
Fax:	(204) 224-6620
Mailing address:	711 Kernaghan Avenue
	Winnipeg, MB R2C 3T4
Email address:	eric_st.pierre@newflyer.com
Short Description of Alteration (max 90 characters):	Install roof exhaust fan to disipate heat above automated paint line drying oven.
Alteration fee attached:	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
If No, please explain:	
Date: 01/18/2017	Signature:
	Printed name: Eric St. Pierre, Environmental Coordinator
A complete Notice of Alteration (NoA) consists of the following components:	Submit the complete NOA to:
<input checked="" type="checkbox"/> Cover letter	Director
<input checked="" type="checkbox"/> Notice of Alteration Form	Environmental Approvals Branch
<input checked="" type="checkbox"/> 4 hard copies and 1 electronic copy of the NOA detailed report (see "Information Bulletin - Alteration to Developments with Environment Act Licences")	Manitoba Sustainable Development
<input checked="" type="checkbox"/> \$500 Application fee, if applicable (Cheque, payable to the Minister of Finance)	Suite 160, 123 Main Street
	Winnipeg, Manitoba R3C 1A5
	For more information:
	Phone: (204) 945-8321
	Fax: (204) 945-5229
	<a href="http://www.gov.mb.ca/conservation/eal">http://www.gov.mb.ca/conservation/eal</a>



January 18, 2017

**Tracey Braun, Director  
Environmental Approvals Branch  
Manitoba Sustainable Development  
Suite 160, 123 Main Street, Winnipeg, MB R3C 1A5**

**Re: New Flyer Industries Canada ULC – APL Exhaust Fan Noise By-Law Compliance**

Dear Ms. Braun,

### **OBJECTIVE and SCOPE OF WORK**

New Flyer would like to install a roof ventilation fan above the drying tunnel in our Automated Paint Line (APL) to remove excess heat from the area for the thermal comfort of our employees. We do not anticipate any particulate matter or VOC emissions from this exhaust fan and the noise emissions should be negligible considering the distance to the residential receptors.

One of the requirements of New Flyer's Environment Act Licence are quarterly meetings with the Community Liaison Committee (CLC) which is comprised of residential homeowners from the neighbourhood immediately north of our facility. The CLC is aware of this project and I provided them with an update at the November 29, 2016 meeting.

### **EXHAUST FAN SOUND LEVEL CRITERIA**

The exhaust fan selected for this project (Delhi Model RTA48T30750P) was selected because it has a relatively low sound generation of 71 dBA at 10 feet. This low sound generation combined with the separation distance from the residential receptors will ensure that the ambient noise levels at the receptors will always be below the City of Winnipeg Noise By-Law Night Time noise limit of 50 dBA. A copy of the exhaust fan specifications has been attached to this correspondence.

**Headquarters/  
Winnipeg Facility**

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R2C 3T4 Canada

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E: bussales@newflyer.com

**Customer  
Services**

25 DeBaets Street  
Winnipeg, Manitoba  
R2J 4G5 Canada

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**New Product  
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Unit 7, 45 Beghin Avenue  
Winnipeg, Manitoba  
R2J 4B9 Canada

Ph: (204) 982-8413  
Fx: (204) 654-4941

**Crookston  
Facility**

214 5th Avenue SW  
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56716 USA

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Fx: (218) 281-5672

**St. Cloud  
Facility**

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St. Cloud, Minnesota  
56301 USA

Ph: (320) 203-0576  
Fx: (320) 203-0584

[www.newflyer.com](http://www.newflyer.com)

## SOUND DECAY RATES – SAMPLE CALCULATION

In general the sound level generated by a point source decreases by approximately 6 dBA every time the distance from the source is doubled. In the case of the exhaust fan used for this project we will use the manufacturer's specification of a sound level of 71 dBA at a distance of 10 feet from the exhaust. According to the sound decay rate the sound level should be reduced as indicated in the accompanying table.

**Table 1: Sound Decay Rates for Greenheck CUBE-240HP-20 Exhaust Fans**

Distance from Source (feet)	Sound Pressure Level (dBA)	City of Winnipeg Noise By-Law Night Time Limit (dBA)
10	71	50
20	65	
40	59	
80	53	
160	47	
320	41	

## CRITICAL RECEPTORS

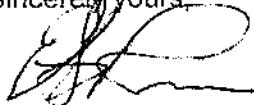
New Flyer is providing a copy of the plot plan for our facility and property which displays the distances from the APL exhaust fan to our property lines and to the closest residential receptors located along Pandora Avenue. The plot plan shows that the minimum distance to our east property line is 416 feet at which point the sound pressure level should be less than 41 dBA. The distance to the closest residential receptor is more than 207 feet at which point the sound pressure level should be less than 47 dBA which is well below the City of Winnipeg Night Time Noise By-Law limit. Ambient and traffic noise levels along Pandora Avenue would be expected to be considerably higher than the sound levels generated by the APL exhaust fan.

## CONCLUSIONS

Based upon the exhaust fan manufacturer's specifications and the physical location of the exhausts, New Flyer is confident that the sound pressure levels generated by the APL roof exhaust fan will comply with the City of Winnipeg Noise By-Law.

If you have any questions or require any additional information please do not hesitate to contact me.

Sincerely yours



Eric St. Pierre, CRSP  
Environment, Health & Safety Team Lead  
New Flyer Industries Canada ULC  
711 Kernaghan Avenue  
Winnipeg, MB R2C 3T4

**ATTACHMENT A**

**DELHI Model RTA48T30750P  
EXHAUST FAN SPECIFICATIONS**

Project No:  
 Project Name:  
 Location:  
 Engineer:  
 Architect:  
 Reference: 11/15/2016 4:24:18 PM

Submitted by:

**Equipment Tag**

Contractor:

**Model Information**

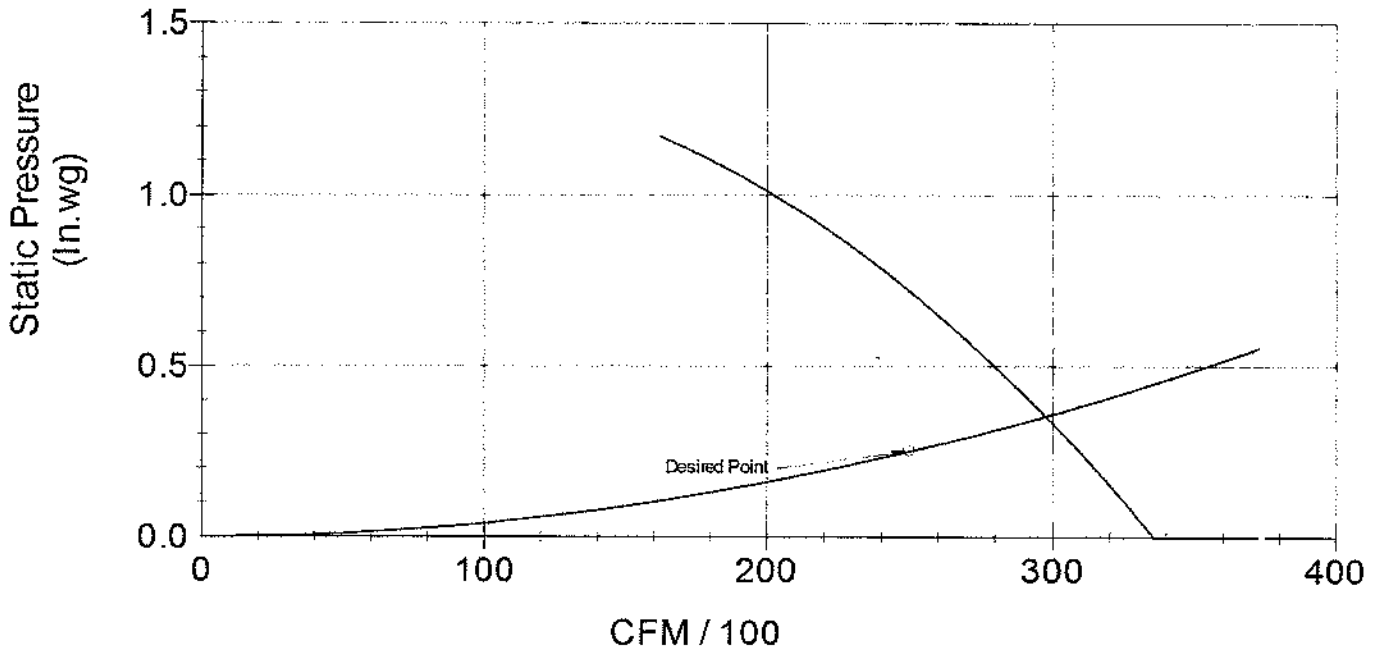
Model: RTA48T30750P	Part Number: RTA48T30750P	Unit Weight: 0
CFM: 25000		Ship Weight: 0
SP: 0.25		Elevation: 0
RPM: 1005		Temperature: 70
BHP: 7.5		

**Sound Data**

dB(A)@10 ft = 71

**Performance Curve**

**DELHI Model RTA48T30750P**  
**CFM=25000 SP=0.25**



**Motor Data**

Motor HP  
7.5 HP TEFC

575V 3-Phase

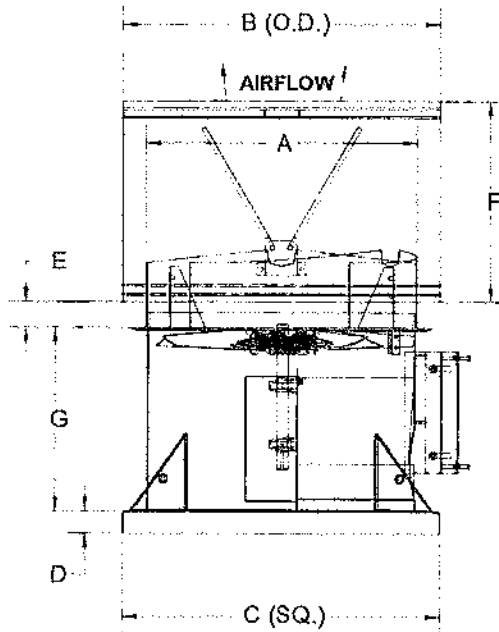
Fan  
RPM  
1005

**Options**

**Dimensions**

Model: RTA48T30750P

(Inches)



A	B	C	D	E	F	G
48.5	54.625	54.0	2.5	2.0	30.0	31.0

**Standard Features**

**RTA Axial Fan**

- RTA model suitable for use in clean, dry air with a maximum temperature of 93° C (200° F).
- RWTA models are suitable for use in moisture laden air with a maximum temperature of 93° C (200° F).
- RTWA models feature a Teflon shaft seal, poly housing bearings and stainless steel insert.
- TEFC, ball bearing motor is out of air stream and is accessible from the roof, maximum ambient 40° C (104° F).
- Galvanized steel wind-band and rain-proof butterfly dampers.
- Cast iron pillow block bearings (out of air stream), complete with external grease fittings.
- Cast aluminum blades on 12" to 48" sizes.
- Polypropylene blades reinforced with fiberglass on 54" to 60" sizes.
- Heavy-duty pulleys and belts out of air stream
- Baked on textured green polyethylene powder coat finish

**ATTACHMENT B**

**NEW FLYER PLOT PLAN  
711 KERNAGHAN AVENUE**

416'-2 1/2"

237'-2"

207'-3 1/2"

Exhaust Location

