

Toxic Substance Reduction Summary Plans

Bombardier Inc. - Thunder Bay Plant

December 17, 2013

BASIC FACILITY INFORMATION		
Substances Included in the Plans		
<ul style="list-style-type: none"> ▪ 2-Butoxyethanol (CAS No. 111-76-2) ▪ n-Butyl Acetate (123-86-4) ▪ Ethyl Acetate (CAS No. 141-78-6) ▪ Isopropyl Alcohol (CAS No. 67-63-0) ▪ Methanol (CAS No. 67-56-1) ▪ Methyl Ethyl Ketone (CAS No. 78-93-3) ▪ Methyl Isobutyl Ketone (CAS No. 108-10-1) ▪ Ethylene Glycol Butyl Ether Acetate (CAS No. 112-07-2) ▪ Hydrotreated Heavy Naphtha (CAS No. 64742-48-9) ▪ Solvent Naphtha Medium Aliphatic (CAS No. 64742-88-7) ▪ Particulate Matter – PM 2.5 (CAS No. **) ▪ Particulate Matter – PM 10 (CAS No. **) 		
Facility Identification and Site Address		
Company Name	Bombardier Inc.	
Facility Name	Thunder Bay Plant	
Facility Address	Physical Address:	Mailing Address:
	1001 Montreal Street, Thunder Bay, Ontario P7C 4V6	800 Rene Levesque Blvd. West, Montreal, Quebec H3B 1Y8
Spatial Coordinates of Facility	UTM Zone 16 UTM Easting: 329178 UTM Northing: 5358545	
Number of Employees	1100	
NPRI ID	0000005601	
Parent Company (PC) Information		
PC Name & Address	Bombardier Inc.	800 Rene Levesque Blvd. West, Montreal, Quebec H3B 1Y8
Percent Ownership for each PC	100%	
Primary North American Industrial Classification System Code (NAICS)		
2 Digit NAICS Code	33 (Manufacturing)	
4 Digit NAICS Code	3365 (Railroad rolling stock manufacturing)	
6 Digit NAICS Code	336510 (Railroad rolling stock manufacturing)	
Facility and Planner Contact Information		
Facility Public Contact	Lindsay Fenton	Bombardier Inc.
	Email: lindsay.fenton@ca.transport.bombardier.com	Same as facility address
	Phone: 8074751929	
Planner Responsible for Making Recommendations and Certification	Karri Legarrie	RWDI AIR Inc.
	Planner Licence No.: TSRP0065	Same as Person who Prepared the Plan
	Email: karri.legarrie@rwdi.com	
	Phone: (519) 823-1311 x 2510	

2-BUTOXYETHANOL (CAS 111-76-2)

Statement of Intent

Bombardier Inc. - Thunder Bay plant is a leading manufacturer of commuter rail cars, light rail vehicles, and subway cars. We take pride in designing, manufacturing, and servicing products and systems that facilitate the sustainability mobility of people and goods. We are dedicated to continuously protecting the environment and it is our permanent challenge to continuously improve environmental performance of our activities and products and gradually apply a total lifecycle view in their design while maintaining competitiveness.

Our key long-term environmental goals are to: Work on achieving carbon-neutral operations, decrease the amount of natural resources such as water, energy, and raw materials used in our production processes.

In accordance with Bombardier Inc. - Thunder Bay Plant's ISO 140001 Environmental Management System (EMS) and Corporate Objectives, the plant will continue to set and regularly assess environmental objectives and targets in order to ensure the continuation of proactive environmental procedures and best management practices. Through these practices, the plant will strive to reduce or minimize the use, creation and releases of toxic substances, whenever technically and economically viable.

Objectives

Bombardier Inc. - Thunder Bay Plant in compliance with the Toxics Reduction Act (2009) and O. Reg. 455/09, does not intend to reduce the use of 2-Butoxyethanol as no option was determined to be technically or economically feasible under the plan.

Description of Use of Substance

2-Butoxyethanol is a VOC which is a component in paint, adhesives, and sealants.

Description Option(s) to be Implemented

For the purposes of the Toxics Reduction Act, Bombardier Inc. Thunder Bay Plant will be not be implementing an option to reduce the use of 2-Butoxyethanol. While Bombardier Inc. - Thunder Bay Plant does not intend to implement options for reduction, the facility will continue to manage the use of 2-Butoxyethanol through current and future pollution prevention and best management practices.

This plan summary accurately reflects the current version of the Toxic Reduction Plan that has been prepared by RWDI AIR Inc. and Bombardier Inc. - Thunder Bay Plant for 2-Butoxyethanol, dated December 17, 2013.

N-BUTYL ACETATE (CAS 123-86-4)
Statement of Intent
<p>Bombardier Inc. - Thunder Bay plant is a leading manufacturer of commuter rail cars, light rail vehicles, and subway cars. We take pride in designing, manufacturing, and servicing products and systems that facilitate the sustainability mobility of people and goods. We are dedicated to continuously protecting the environment and it is our permanent challenge to continuously improve environmental performance of our activities and products and gradually apply a total lifecycle view in their design while maintaining competitiveness.</p> <p>Our key long-term environmental goals are to: Work on achieving carbon-neutral operations, decrease the amount of natural resources such as water, energy, and raw materials used in our production processes.</p> <p>In accordance with Bombardier Inc. - Thunder Bay Plant's ISO 140001 Environmental Management System (EMS) and Corporate Objectives, the plant will continue to set and regularly assess environmental objectives and targets in order to ensure the continuation of proactive environmental procedures and best management practices. Through these practices, the plant will strive to reduce or minimize the use, creation and releases of toxic substances, whenever technically and economically viable.</p>
Objectives
<p>Bombardier Inc. - Thunder Bay Plant in compliance with the Toxics Reduction Act (2009) and O. Reg. 455/09, does not intend to reduce the use of n- Butyl acetate as no option was determined to be technically or economically feasible under the plan.</p>
Description of Use of Substance
<p>n- Butyl acetate is a VOC which is a component in paint, adhesives, and sealants.</p>
Description Option(s) to be Implemented
<p>For the purposes of the Toxics Reduction Act, Bombardier Inc. Thunder Bay Plant will be not be implementing an option to reduce the use of n-Butyl acetate. While Bombardier Inc. - Thunder Bay Plant does not intend to implement options for reduction, the facility will continue to manage the use of n- Butyl acetate through current and future pollution prevention and best management practices.</p>

This plan summary accurately reflects the current version of the Toxic Reduction Plan that has been prepared by RWDI AIR Inc. and Bombardier Inc. - Thunder Bay Plant for n-Butyl Acetate, dated December 17, 2013.

ETHYL ACETATE (CAS 141-78-6)
Statement of Intent
<p>Bombardier Inc. - Thunder Bay plant is a leading manufacturer of commuter rail cars, light rail vehicles, and subway cars. We take pride in designing, manufacturing, and servicing products and systems that facilitate the sustainability mobility of people and goods. We are dedicated to continuously protecting the environment and it is our permanent challenge to continuously improve environmental performance of our activities and products and gradually apply a total lifecycle view in their design while maintaining competitiveness.</p> <p>Our key long-term environmental goals are to: Work on achieving carbon-neutral operations, decrease the amount of natural resources such as water, energy, and raw materials used in our production processes.</p> <p>In accordance with Bombardier Inc. - Thunder Bay Plant's ISO 140001 Environmental Management System (EMS) and Corporate Objectives, the plant will continue to set and regularly assess environmental objectives and targets in order to ensure the continuation of proactive environmental procedures and best management practices. Through these practices, the plant will strive to reduce or minimize the use, creation and releases of toxic substances, whenever technically and economically viable.</p>
Objectives
<p>Bombardier Inc. - Thunder Bay Plant in compliance with the Toxics Reduction Act (2009) and O. Reg. 455/09, does not intend to reduce the use of Ethyl Acetate as no option was determined to be technically or economically feasible under the plan.</p>
Description of Use of Substance
<p>Ethyl Acetate is a VOC which is a component in paint, adhesives, and sealants.</p>
Description Option(s) to be Implemented
<p>For the purposes of the Toxics Reduction Act, Bombardier Inc. Thunder Bay Plant will be not be implementing an option to reduce the use of Ethyl Acetate. While Bombardier Inc. - Thunder Bay Plant does not intend to implement options for reduction, the facility will continue to manage the use of Ethyl Acetate through current and future pollution prevention and best management practices.</p>

This plan summary accurately reflects the current version of the Toxic Reduction Plan that has been prepared by RWDI AIR Inc. and Bombardier Inc. - Thunder Bay Plant for Ethyl Acetate, dated December 17, 2013.

ISOPROPYL ALCOHOL (CAS 67-56-1)

Statement of Intent

Bombardier Inc. - Thunder Bay plant is a leading manufacturer of commuter rail cars, light rail vehicles, and subway cars. We take pride in designing, manufacturing, and servicing products and systems that facilitate the sustainability mobility of people and goods. We are dedicated to continuously protecting the environment and it is our permanent challenge to continuously improve environmental performance of our activities and products and gradually apply a total lifecycle view in their design while maintaining competitiveness.

Our key long-term environmental goals are to: Work on achieving carbon-neutral operations, decrease the amount of natural resources such as water, energy, and raw materials used in our production processes.

In accordance with Bombardier Inc. - Thunder Bay Plant's ISO 140001 Environmental Management System (EMS) and Corporate Objectives, the plant will continue to set and regularly assess environmental objectives and targets in order to ensure the continuation of proactive environmental procedures and best management practices. Through these practices, the plant will strive to reduce or minimize the use, creation and releases of toxic substances, whenever technically and economically viable

Objectives

Bombardier Inc. - Thunder Bay Plant in compliance with the Toxics Reduction Act (2009) and O. Reg. 455/09, does not intend to reduce the use of Isopropyl Alcohol as no option was determined to be technically or economically feasible under the plan.

Description of Use of Substance

Isopropyl Alcohol is a VOC which is a component in paint, adhesives, and sealants.

Description Option(s) to be Implemented

For the purposes of the Toxics Reduction Act, Bombardier Inc. Thunder Bay Plant will be not be implementing an option to reduce the use of Isopropyl Alcohol. While Bombardier Inc. - Thunder Bay Plant does not intend to implement options for reduction, the facility will continue to manage the use of Isopropyl Alcohol through current and future pollution prevention and best management practices.

This plan summary accurately reflects the current version of the Toxic Reduction Plan that has been prepared by RWDI AIR Inc. and Bombardier Inc. - Thunder Bay Plant for Isopropyl Alcohol, dated December 17, 2013.

METHANOL (CAS 67-56-1)
Statement of Intent
<p>Bombardier Inc. - Thunder Bay plant is a leading manufacturer of commuter rail cars, light rail vehicles, and subway cars. We take pride in designing, manufacturing, and servicing products and systems that facilitate the sustainability mobility of people and goods. We are dedicated to continuously protecting the environment and it is our permanent challenge to continuously improve environmental performance of our activities and products and gradually apply a total lifecycle view in their design while maintaining competitiveness.</p> <p>Our key long-term environmental goals are to: Work on achieving carbon-neutral operations, decrease the amount of natural resources such as water, energy, and raw materials used in our production processes.</p> <p>In accordance with Bombardier Inc. - Thunder Bay Plant's ISO 140001 Environmental Management System (EMS) and Corporate Objectives, the plant will continue to set and regularly assess environmental objectives and targets in order to ensure the continuation of proactive environmental procedures and best management practices. Through these practices, the plant will strive to reduce or minimize the use, creation and releases of toxic substances, whenever technically and economically viable</p>
Objectives
<p>Bombardier Inc. - Thunder Bay Plant in compliance with the Toxics Reduction Act (2009) and O. Reg. 455/09, does not intend to reduce the use of Methanol as no option was determined to be technically or economically feasible under the plan.</p>
Description of Use of Substance
<p>Methanol is a VOC which is a component in paint, adhesives, and sealants.</p>
Description Option(s) to be Implemented
<p>For the purposes of the Toxics Reduction Act, Bombardier Inc. Thunder Bay Plant will be not be implementing an option to reduce the use of Methanol. While Bombardier Inc. - Thunder Bay Plant does not intend to implement options for reduction, the facility will continue to manage the use of Methanol through current and future pollution prevention and best management practices.</p>

This plan summary accurately reflects the current version of the Toxic Reduction Plan that has been prepared by RWDI AIR Inc. and Bombardier Inc. - Thunder Bay Plant for Methanol, dated December 17, 2013.

METHYL ETHYL KETONE (CAS 78-93-3)

Statement of Intent

Bombardier Inc. - Thunder Bay plant is a leading manufacturer of commuter rail cars, light rail vehicles, and subway cars. We take pride in designing, manufacturing, and servicing products and systems that facilitate the sustainability mobility of people and goods. We are dedicated to continuously protecting the environment and it is our permanent challenge to continuously improve environmental performance of our activities and products and gradually apply a total lifecycle view in their design while maintaining competitiveness.

Our key long-term environmental goals are to: Work on achieving carbon-neutral operations, decrease the amount of natural resources such as water, energy, and raw materials used in our production processes.

In accordance with Bombardier Inc. - Thunder Bay Plant's ISO 140001 Environmental Management System (EMS) and Corporate Objectives, the plant will continue to set and regularly assess environmental objectives and targets in order to ensure the continuation of proactive environmental procedures and best management practices. Through these practices, the plant will strive to reduce or minimize the use, creation and releases of toxic substances, whenever technically and economically viable.

Objectives

Bombardier Inc. - Thunder Bay Plant in compliance with the Toxics Reduction Act (2009) and O. Reg. 455/09, does not intend to reduce the use of Methyl Ethyl Ketone as no option was determined to be technically or economically feasible under the plan.

Description of Use of Substance

Methyl Ethyl Ketone is a VOC which is a component in paint, adhesives, and sealants.

Description Option(s) to be Implemented

For the purposes of the Toxics Reduction Act, Bombardier Inc. Thunder Bay Plant will be not be implementing an option to reduce the use of Methyl Ethyl Ketone. While Bombardier Inc. - Thunder Bay Plant does not intend to implement options for reduction, the facility will continue to manage the use of Methyl Ethyl Ketone through current and future pollution prevention and best management practices.

This plan summary accurately reflects the current version of the Toxic Reduction Plan that has been prepared by RWDI AIR Inc. and Bombardier Inc. - Thunder Bay Plant for Methyl Ethyl Ketone, dated December 17, 2013.

METHYL ISOBUTYL KETONE (CAS 108-10-1)
Statement of Intent
<p>Bombardier Inc. - Thunder Bay plant is a leading manufacturer of commuter rail cars, light rail vehicles, and subway cars. We take pride in designing, manufacturing, and servicing products and systems that facilitate the sustainability mobility of people and goods. We are dedicated to continuously protecting the environment and it is our permanent challenge to continuously improve environmental performance of our activities and products and gradually apply a total lifecycle view in their design while maintaining competitiveness.</p> <p>Our key long-term environmental goals are to: Work on achieving carbon-neutral operations, decrease the amount of natural resources such as water, energy, and raw materials used in our production processes.</p> <p>In accordance with Bombardier Inc. - Thunder Bay Plant's ISO 140001 Environmental Management System (EMS) and Corporate Objectives, the plant will continue to set and regularly assess environmental objectives and targets in order to ensure the continuation of proactive environmental procedures and best management practices. Through these practices, the plant will strive to reduce or minimize the use, creation and releases of toxic substances, whenever technically and economically viable.</p>
Objectives
<p>Bombardier Inc. - Thunder Bay Plant in compliance with the Toxics Reduction Act (2009) and O. Reg. 455/09, does not intend to reduce the use of Methyl Isobutyl Ketone as no option was determined to be technically or economically feasible under the plan.</p>
Description of Use of Substance
<p>Methyl Isobutyl Ketone is a VOC which is a component in paint, adhesives, and sealants.</p>
Description Option(s) to be Implemented
<p>For the purposes of the Toxics Reduction Act, Bombardier Inc. Thunder Bay Plant will be not be implementing an option to reduce the use of Methyl Isobutyl Ketone. While Bombardier Inc. - Thunder Bay Plant does not intend to implement options for reduction, the facility will continue to manage the use of Methyl Isobutyl Ketone through current and future pollution prevention and best management practices.</p>

This plan summary accurately reflects the current version of the Toxic Reduction Plan that has been prepared by RWDI AIR Inc. and Bombardier Inc. - Thunder Bay Plant for Methyl Isobutyl Ketone, dated December 17, 2013.

ETHYLENE GLYCOL BUTYL ETHER ACETATE (CAS 112-07-2)	
Statement of Intent	
<p>Bombardier Inc. - Thunder Bay plant is a leading manufacturer of commuter rail cars, light rail vehicles, and subway cars. We take pride in designing, manufacturing, and servicing products and systems that facilitate the sustainability mobility of people and goods. We are dedicated to continuously protecting the environment and it is our permanent challenge to continuously improve environmental performance of our activities and products and gradually apply a total lifecycle view in their design while maintaining competitiveness.</p> <p>Our key long-term environmental goals are to: Work on achieving carbon-neutral operations, decrease the amount of natural resources such as water, energy, and raw materials used in our production processes.</p> <p>In accordance with Bombardier Inc. - Thunder Bay Plant's ISO 140001 Environmental Management System (EMS) and Corporate Objectives, the plant will continue to set and regularly assess environmental objectives and targets in order to ensure the continuation of proactive environmental procedures and best management practices. Through these practices, the plant will strive to reduce or minimize the use, creation and releases of toxic substances, whenever technically and economically viable.</p>	
Objectives	
<p>Bombardier Inc. - Thunder Bay Plant in compliance with the Toxics Reduction Act (2009) and O. Reg. 455/09, does not intend to reduce the use of Ethyl Glycol Butyl Ether Acetate as no option was determined to be technically or economically feasible under the plan.</p>	
Description of Use of Substance	
<p>Ethyl Glycol Butyl Ether Acetate is a VOC which is a component in paint, adhesives, and sealants.</p>	
Description Option(s) to be Implemented	
<p>For the purposes of the Toxics Reduction Act, Bombardier Inc. Thunder Bay Plant will be not be implementing an option to reduce the use of Ethyl Glycol Butyl Ether Acetate. While Bombardier Inc. - Thunder Bay Plant does not intend to implement options for reduction, the facility will continue to manage the use of Ethyl Glycol Butyl Ether Acetate through current and future pollution prevention and best management practices.</p>	

This plan summary accurately reflects the current version of the Toxic Reduction Plan that has been prepared by RWDI AIR Inc. and Bombardier Inc. - Thunder Bay Plant for Ethylene Glycol Butyl Ether Acetate, dated December 17, 2013.

HYDROTREATED HEAVY NAPHTHA (64742-48-9)
Statement of Intent
<p>Bombardier Inc. - Thunder Bay plant is a leading manufacturer of commuter rail cars, light rail vehicles, and subway cars. We take pride in designing, manufacturing, and servicing products and systems that facilitate the sustainability mobility of people and goods. We are dedicated to continuously protecting the environment and it is our permanent challenge to continuously improve environmental performance of our activities and products and gradually apply a total lifecycle view in their design while maintaining competitiveness.</p> <p>Our key long-term environmental goals are to: Work on achieving carbon-neutral operations, decrease the amount of natural resources such as water, energy, and raw materials used in our production processes.</p> <p>In accordance with Bombardier Inc. - Thunder Bay Plant's ISO 140001 Environmental Management System (EMS) and Corporate Objectives, the plant will continue to set and regularly assess environmental objectives and targets in order to ensure the continuation of proactive environmental procedures and best management practices. Through these practices, the plant will strive to reduce or minimize the use, creation and releases of toxic substances, whenever technically and economically viable.</p>
Objectives
<p>Bombardier Inc. - Thunder Bay Plant in compliance with the Toxics Reduction Act (2009) and O. Reg. 455/09, does not intend to reduce the use of Hydrotreated Heavy Naphtha as no option was determined to be technically or economically feasible under the plan.</p>
Description of Use of Substance
<p>Hydrotreated Heavy Naphtha is a VOC which is a component in paint, adhesives, and sealants.</p>
Description Option(s) to be Implemented
<p>For the purposes of the Toxics Reduction Act, Bombardier Inc. Thunder Bay Plant will be not be implementing an option to reduce the use of Hydrotreated Heavy Naphtha. While Bombardier Inc. - Thunder Bay Plant does not intend to implement options for reduction, the facility will continue to manage the use of Hydrotreated Heavy Naphtha through current and future pollution prevention and best management practices.</p>

This plan summary accurately reflects the current version of the Toxic Reduction Plan that has been prepared by RWDI AIR Inc. and Bombardier Inc. - Thunder Bay Plant for Hydrotreated Heavy Naphtha, dated December 17, 2013.

SOLVENT NAPHTHA MEDIUM ALIPHATIC (CAS 64742-88-7)
Statement of Intent
<p>Bombardier Inc. - Thunder Bay plant is a leading manufacturer of commuter rail cars, light rail vehicles, and subway cars. We take pride in designing, manufacturing, and servicing products and systems that facilitate the sustainability mobility of people and goods. We are dedicated to continuously protecting the environment and it is our permanent challenge to continuously improve environmental performance of our activities and products and gradually apply a total lifecycle view in their design while maintaining competitiveness.</p> <p>Our key long-term environmental goals are to: Work on achieving carbon-neutral operations, decrease the amount of natural resources such as water, energy, and raw materials used in our production processes.</p> <p>In accordance with Bombardier Inc. - Thunder Bay Plant's ISO 140001 Environmental Management System (EMS) and Corporate Objectives, the plant will continue to set and regularly assess environmental objectives and targets in order to ensure the continuation of proactive environmental procedures and best management practices. Through these practices, the plant will strive to reduce or minimize the use, creation and releases of toxic substances, whenever technically and economically viable.</p>
Objectives
<p>Bombardier Inc. - Thunder Bay Plant in compliance with the Toxics Reduction Act (2009) and O. Reg. 455/09, does not intend to reduce the use of Solvent Naphtha Medium Aliphatic as no option was determined to be technically or economically feasible under the plan.</p>
Description of Use of Substance
<p>Solvent Naphtha Medium Aliphatic is a VOC which is a component in paint, adhesives, and sealants.</p>
Description Option(s) to be Implemented
<p>For the purposes of the Toxics Reduction Act, Bombardier Inc. Thunder Bay Plant will be not be implementing an option to reduce the use of Solvent Naphtha Medium Aliphatic. While Bombardier Inc. - Thunder Bay Plant does not intend to implement options for reduction, the facility will continue to manage the use of Solvent Naphtha Medium Aliphatic through current and future pollution prevention and best management practices.</p>

This plan summary accurately reflects the current version of the Toxic Reduction Plan that has been prepared by RWDI AIR Inc. and Bombardier Inc. - Thunder Bay Plant for Solvent Naphtha Medium Aliphatic, dated December 17, 2013.

PARTICULATE MATTER – PM10 (CAS **)
Statement of Intent
<p>Bombardier Inc. - Thunder Bay plant is a leading manufacturer of commuter rail cars, light rail vehicles, and subway cars. We take pride in designing, manufacturing, and servicing products and systems that facilitate the sustainability mobility of people and goods. We are dedicated to continuously protecting the environment and it is our permanent challenge to continuously improve environmental performance of our activities and products and gradually apply a total lifecycle view in their design while maintaining competitiveness.</p> <p>Our key long-term environmental goals are to: Work on achieving carbon-neutral operations, decrease the amount of natural resources such as water, energy, and raw materials used in our production processes.</p> <p>In accordance with Bombardier Inc. - Thunder Bay Plant's ISO 140001 Environmental Management System (EMS) and Corporate Objectives, the plant will continue to set and regularly assess environmental objectives and targets in order to ensure the continuation of proactive environmental procedures and best management practices. Through these practices, the plant will strive to reduce or minimize the use, creation and releases of toxic substances, whenever technically and economically viable.</p>
Objectives
<p>Bombardier Inc. - Thunder Bay Plant in compliance with the Toxics Reduction Act (2009) and O. Reg. 455/09, does intend to reduce the creation of PM10 - Particulate Matter <=10 Microns. Bombardier Inc. - Thunder Bay anticipates an estimated reduction of 13% or 0.2 tonnes. The reduction should be achieved within 2 years.</p>
Description of Creation of Substance
<p>PM10 - Particulate Matter <=10 Microns is created during the machining and painting of metal parts, combustion of natural gas and during vehicle movement on unpaved roadways.</p>
Description Option(s) to be Implemented
<p>For the purposes of the Toxics Reduction Act, Bombardier Inc. Thunder Bay Plant will be implementing an option to reduce the creation of PM10 - Particulate Matter <=10 Microns. Reduction option: Training or improved operating practices - Develop and implement a Dust Management Procedure.</p>

This plan summary accurately reflects the current version of the Toxic Reduction Plan that has been prepared by RWDI AIR Inc. and Bombardier Inc. - Thunder Bay Plant for PM10, dated December 17, 2013.

PARTICULATE MATTER – PM2.5 (CAS **)
Statement of Intent
<p>Bombardier Inc. - Thunder Bay plant is a leading manufacturer of commuter rail cars, light rail vehicles, and subway cars. We take pride in designing, manufacturing, and servicing products and systems that facilitate the sustainability mobility of people and goods. We are dedicated to continuously protecting the environment and it is our permanent challenge to continuously improve environmental performance of our activities and products and gradually apply a total lifecycle view in their design while maintaining competitiveness.</p> <p>Our key long-term environmental goals are to: Work on achieving carbon-neutral operations, decrease the amount of natural resources such as water, energy, and raw materials used in our production processes.</p> <p>In accordance with Bombardier Inc. - Thunder Bay Plant's ISO 140001 Environmental Management System (EMS) and Corporate Objectives, the plant will continue to set and regularly assess environmental objectives and targets in order to ensure the continuation of proactive environmental procedures and best management practices. Through these practices, the plant will strive to reduce or minimize the use, creation and releases of toxic substances, whenever technically and economically viable.</p>
Objectives
<p>Bombardier Inc. - Thunder Bay Plant in compliance with the Toxics Reduction Act (2009) and O. Reg. 455/09, does intend to reduce the creation of PM2.5 - Particulate Matter <=2.5 Microns. Bombardier Inc. - Thunder Bay anticipates an estimated reduction of 6% or 0.02 tonnes. The reduction should be achieved within 2 years.</p>
Description of Creation of Substance
<p>PM2.5 - Particulate Matter <=2.5 Microns is created during the machining and painting of metal parts, combustion of natural gas and during vehicle movement on unpaved roadways.</p>
Description Option(s) to be Implemented
<p>For the purposes of the Toxics Reduction Act, Bombardier Inc. Thunder Bay Plant will be implementing an option to reduce the creation of PM2.5 - Particulate Matter <=2.5 Microns. Reduction option: Training or improved operating practices - Develop and implement a Dust Management Procedure.</p>

This plan summary accurately reflects the current version of the Toxic Reduction Plan that has been prepared by RWDI AIR Inc. and Bombardier Inc. - Thunder Bay Plant for PM2.5, dated December 17, 2013.

Certification by Highest Ranking Employee

As of December 17, 2013, I, Aaron Rivers, certify that I have read the toxic substance reduction plans for the toxic substances referred to below and am familiar with their contents, and to my knowledge the plans are factually accurate and comply with the *Toxics Reduction Act, 2009* and Ontario Regulation 455/09 (General) made under that Act.

<u>Substance</u>	<u>Date of Certified Plan</u>
2-Butoxyethanol (CAS No. 111-76-2)	December 17, 2013
n-Butyl Acetate (CAS No. 123-86-4)	December 17, 2013
Ethyl Acetate (CAS No. 141-78-6)	December 17, 2013
Isopropyl Alcohol (CAS No. 67-63-0)	December 17, 2013
Methanol (CAS No. 67-56-1)	December 17, 2013
Methyl Ethyl Ketone (CAS No. 78-93-3)	December 17, 2013
Methyl Isobutyl Ketone (CAS No. 108-10-1)	December 17, 2013
Ethylene Glycol Butyl Ether Acetate (CAS No. 112-07-2)	December 17, 2013
Hydrotreated Heavy Naphtha (CAS No. 64742-48-9)	December 17, 2013
Solvent Naphtha Medium Aliphatic (CAS No. 7440-66-6)	December 17, 2013
Particulate Matter – PM2.5 (CAS No. **)	December 17, 2013
Particulate Matter – PM10 (CAS No. **)	December 17, 2013

Aaron Rivers
VP Thunder Bay BU
Bombardier Inc. Thunder Bay Plant

Certification by Licenced Planner

As of December 17, 2013, I, Karri Legarrie, certify that I am familiar with the processes at Thunder Bay Plant that use or create the toxic substances referred to below, that I agree with the estimates referred to in subparagraphs 7 iii, iv and v of subsection 4 (1) of the *Toxics Reduction Act, 2009* that are set out in the toxic substance reduction plans referred to below for the toxic substances and that the plans comply with the Act and Ontario Regulation 455/09 (General) made under that Act.

<u>Substance</u>	<u>Date of Certified Plan</u>
2-Butoxyethanol (CAS No. 111-76-2)	December 17, 2013
n-Butyl Acetate (CAS No. 123-86-4)	December 17, 2013
Ethyl Acetate (CAS No. 141-78-6)	December 17, 2013
Isopropyl Alcohol (CAS No. 67-63-0)	December 17, 2013
Methanol (CAS No. 67-56-1)	December 17, 2013
Methyl Ethyl Ketone (CAS No. 78-93-3)	December 17, 2013
Methyl Isobutyl Ketone (CAS No. 108-10-1)	December 17, 2013
Ethylene Glycol Butyl Ether Acetate (CAS No. 112-07-2)	December 17, 2013
Hydrotreated Heavy Naphtha (CAS No. 64742-48-9)	December 17, 2013
Solvent Naphtha Medium Aliphatic (CAS No. 7440-66-6)	December 17, 2013
Particulate Matter – PM2.5 (CAS No. **)	December 17, 2013
Particulate Matter – PM10 (CAS No. **)	December 17, 2013

Karri Legarrie, Planner Licence TSRP0065
Air Quality Senior Scientist / Toxic Substance Reduction Planner
RWDI AIR Inc.