

**Plan Summary**  
**Combustion Gases**  
**Carbon Monoxide, Nitrogen Oxides and Particulate Matter**

**Atlantic Packaging Products Ltd.**  
**New Forest Paper mill**

## Basic Facility Information

<b>Name and CAS Number of Substance</b>	Carbon monoxide – CAS No. 630-08-0 Oxides of nitrogen (expressed as NO <sub>2</sub> ) – CAS No. 11104-93-1 PM <sub>2.5</sub> (Particulate Matter <=2.5 microns) – CAS No. NA - M09 PM <sub>10</sub> (Particulate Matter <=10 microns) – CAS No. NA - M10	
<b>Substances for which other plans have been prepared</b>	Ammonia (Total) – CAS No. NA-16	
<b>Facility Identification and Site Address</b>		
<b>Company Name</b>	Atlantic Packaging Products	
<b>Facility Name</b>	New Forest Paper Mills LP	
<b>Facility Address</b>	Physical Address:	Mailing Address: (if different)
	333 Progress Avenue Scarborough, ON M1P 2Z7	Same as physical address
<b>Spatial Coordinates of Facility</b>	Latitude: 43.7749, Longitude: -79.2648, Datum: 1983 UTM Zone 17, Easting: 639586, Northing: 4848116	
<b>Number of Employees</b>	94	
<b>NPRI ID</b>	11601	
<b>Ontario MOE ID Number</b>	--	
<b>Parent Company (PC) Information</b>		
<b>PC Name and Address</b>	Atlantic Packaging Products Ltd.	111 Progress Avenue Scarborough, ON M1P 2Y9
<b>Percent Ownership for each PC</b>	50%	
<b>Business Number for PC</b>	100326008	
<b>Primary North American Industrial Classification System Code (NAICS)</b>		
<b>2 Digit NAICS Code</b>	32 - Manufacturing	
<b>4 Digit NAICS Code</b>	3221 - Pulp, Paper & Paperboard Mills	
<b>6 Digit NAICS Code</b>	322130 - Paperboard Mills	
<b>Certification Information</b>		
<b>Reduction Planner who made Recommendations to the Plan</b>	Martinez, Erik	651 Colby Drive Waterloo, ON N2V 1C2
	Conestoga-Rovers & Associates (CRA)	
	emartinez@croworld.com	
	519.884.0510 x 2342	
	TRSP0005	
<b>Reduction Planner who Certified the Plan</b>	Martinez, Erik	651 Colby Drive Waterloo, ON N2V 1C2
	Conestoga-Rovers & Associates (CRA)	
	emartinez@croworld.com	
	519.884.0510 x 2342	
	TRSP0005	
<b>Company Contact Information</b>		
<b>Facility Public Contact</b>	Fatima Correia	Contact Address if different from Facility Address
	Environmental Manager	111 Progress Avenue Scarborough, ON M1P 2Y9
	fatima_correia@atlantic.ca	
	Phone: (416) 298-5431	
	Fax: (416) 297-2292	
<b>Highest Ranking Employee</b>	Ed Stapleton	Contact Address if different from Facility Address
	Linerboard Mill Manager	Same address as facility
	Ed_Stapleton@Atlantic.ca	
	Phone: (416) 940-1113	

## Plan Summary Statement

This plan summary accurately reflects the content of the toxic substance reduction plan for ammonia, prepared by Atlantic Packaging Products Ltd, dated Dec 23, 2013.

## Statement of Intent

New Forest Paper Mill is currently using natural gas as energy source to meet the steam requirements of paper production. The activity creates as by-products carbon monoxide, nitrogen oxides, sulfur dioxides and particulate matter that are released into the air. The compounds are not used at the facility, rather they are only created. New Forest intends to reduce the creation and release of all toxic substances, whenever feasible.

## Reduction Objective

Atlantic Packaging is committed to protect the environment through continual improvement of its manufacturing processes and the prevention of pollution. The objective for New Forest Paper Mills is to reduce the creation of combustion gases through the implementation of viable options, if any. This plan will determine the technical and economic feasibility of various reduction options, and identify if any is viable for implementation.

## Description of substance

Natural Gas and biogas are burned in the boilers to supply the steam required by the paper manufacturing. As a result of the activity, combustion gases (Carbon Monoxide, Nitrogen Oxides and Particulate Matter) are created and released into the atmosphere. Cooling towers and welding supporting operations are also responsible of particulate matter creation.

## Toxic substance reduction option to be implemented

The following option has been identified for implementation to reduce the creation of combustion gases:

- Improving the efficiency of the desulfurization process to have a higher biogas production. The total amount of fuel (natural gas and biogas) will be maintained, but since biogas emission factors for carbon monoxide and nitrogen oxides are lower than the natural gas, reduction will be obtained.

Carbon monoxide and Nitrogen oxides anticipated reductions due to the implementation of the option are as follows:

**Table 1.** Carbon monoxide and Nitrogen oxides variations in usage, creation and release with implementation of the Equipment or process modification option: Desulfurization Reactor upgrades

	Used (kg/year)	Created (kg/year)	On-Site Releases (kg/year)			Disposal (kg/year)		Transfer Off-site for recycling (kg/year)	Contained in product (kg/year)
			Air	Water	Land	On-site	Off-site		
CO Baseline	-	39,544.4 kg	39,544.4 kg	-	-	-	-	-	-
Estimated amount	-	37,852.7 kg	37,852.7 kg	-	-	-	-	-	-
Reduction	-	1,691.7 kg	1,691.7 kg	-	-	-	-	-	-
% Reduction	0%	4.3 %	4.3 %	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
NO <sub>x</sub> Baseline	-	47,559.8 kg	47,559.8 kg	-	-	-	-	-	-
Estimated amount	-	46,288.3 kg	46,288.3 kg	-	-	-	-	-	-
Reduction	-	1,271.5 kg	1,271.5 kg	-	-	-	-	-	-
% Reduction	0%	2.7 %	2.7 %	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

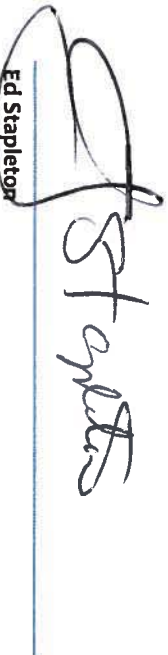
It is expected the reduction will be achieved in 5 years.

## Plan Certifications

Certification by highest ranking employee

As of date, I, Ed Stapleton, certify that I have read the reports on the toxic substance reduction plan for the toxic substance referred to below and am familiar with their contents, and to my knowledge the information contained in the report is factually accurate and the reports comply with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under the Act.

630-08-0	Carbon monoxide
1104-93-1	Oxides of nitrogen (expressed as NO <sub>2</sub> )
NA - M09	PM <sub>2.5</sub> (Particulate Matter <=2.5 microns)
NA - M10	PM <sub>10</sub> (Particulate Matter <=10 microns)



**Ed Stapleton**  
Linerboard Mill Manager  
New Forest Paper Mills LP

Certification by toxic substance reduction planner

As of December 23, 2013, I, Erik Martinez, certify that I am familiar with the processes at Atlantic Packaging Products Ltd that use or create the toxic substance 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 plan dated December 23, 2013 and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act.

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NA - M10	PM <sub>10</sub> (Particulate Matter <=10 microns)

 12/23/13

Erik Martinez, P.Eng.  
Toxic Substance Reduction Planner  
License # TSRP0005  
Conestoga-Rovers & Associates Ltd.