

Appendix C

TRA Plan Summary – Ammonia Atlantic Packaging Products Ltd.

Basic Facility Information

Name & CAS # of Substance	Ammonia	NA-16
Facility Identification and Site Address		
Company Name	Atlantic Packaging Products Ltd.	
Facility Name	1900 Thickson Road Facility	
Facility Address	1900 Thickson Road South, Scarborough, Ontario	
Spatial Coordination of Facility (UTM Coordinates)	668345.37 m E 4858615.29 m N	
Number of Employees	97	
NPRI ID	125	
Ontario MOE ID Number		
Parent Company (PC) Information		
PC Name	Not Applicable	
PC Address		
Percent Ownership for PC		
Primary North American Industrial Classification System Code (NAICS)		
2 Digit NAICS Code	32 – Manufacturing	
4 Digit NAICS Code	3221 – Pulp, Paper and Paperboard Mills	
6 Digit NAICS Code	322121 – Paper (Except Newsprint) Mills	
Company Contact Information		
Facility Public Contact	Fatima Correia, Environmental Manager	
	fatima_correia@atlantic.ca	
	Phone: (416) 298-5431	
	Fax: (416) 297-2292	
Facility Technical Contact	Fatima Correia, Environmental Manager	
	fatima_correia@atlantic.ca	
	Phone: (416) 298-5431	
	Fax: (416) 297-2292	
Company Coordinator Contact	Fatima Correia, Environmental Manager	
	fatima_correia@atlantic.ca	
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Person who Prepared the Plan (if different from the Coordinator)	Gavin Moore	
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Highest Ranking Employee	Mike Filipovic, Mill Manager
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Planner Information:	
Planner Responsible for Making Recommendations	Erik Martinez, P.Eng
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Toxic Reduction Policy Statement of Intent

The Atlantic Packaging Products Ltd. (Atlantic Packaging) 1900 Thickson Road facility (Facility) is currently using ammonia as a nutrient source for the microorganisms in the effluent treatment plant. In 2014, Atlantic Packaging temporarily used a biocide that contained ammonia in the paper processing stage. This product was only used for a short trial and is no longer being used in their processes and will no longer be a contributing source of ammonia. However, after consideration of all reduction options it has been determined that the Facility is not currently capable of reducing the use of ammonia as it is an essential nutrient required for the processes to perform successfully. Atlantic Packaging does not create ammonia; therefore this plan will not address reducing its creation.

Reduction Objectives

Atlantic Packaging operates a linerboard mill facility which includes effluent treatment operations in an environmentally responsible manner. Atlantic Packaging is committed to protect the environment through continual improvement of its manufacturing processes and the prevention of pollution. The objective for this Facility is to reduce the usage of ammonia 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 Facility

The Atlantic Packaging Facility is a linerboard manufacturing mill. The products are manufactured from recycled paper and cardboard.

The main processes for the linerboard manufacturing consists of receiving the raw materials which includes old corrugated cardboard (OCC) and various chemicals. The OCC enters the Paper Processing and Pulp Preparation Process, where the pulp is created, and impurities such as unsuitable particles for linerboard formation are removed. Once the pulp has been cleaned, it enters the Paper Manufacturing Process where the pulp is transformed into a layer of wet paper that gets dried through a series of processes. Busan 1215 (ammonium sulfate) was temporarily trialed as a reactant used to make a biocide

in the papermaking process. This biocide was added at the Paper Processing and Pulp Preparation Process to mitigate the microbiological population in the paper and starch matrices. It was deemed to be unsuitable for the facility's operations and was discontinued. The final paper product is temporarily stored and shipped to clients via truck.

At the Effluent Treatment Plant, the water is treated before discharge to the Corbett Creek Water Pollution Control Centre (municipal treatment plant); thus it is treated to remove both solids and BOD to the permitted levels of the municipal treatment plant. The collected water leaving the Paper Manufacturing Process proceeds to the Treatment Stage; it is here that the nutrient (Anhydrous Ammonia solution) is added to the process to ensure the health of the microorganisms in the Treatment Process. Most of the ammonia is consumed (i.e. destroyed) during the aerobic metabolic activity of the microorganisms. Any residual or unused nutrients are discharged with the treated water to the municipal treatment plant. The Facility's North American Industrial Classification Service (NAICS) Code is 322121 – "Paper (Except Newsprint) Mills."

Toxic Substance Reduction Options to Be Implemented

There were no options identified that can be implemented by Atlantic Packaging to reduce the use or discharge of Ammonia.

Plan Summary Statement

This plan summary accurately reflects the content of the toxic substance reduction plan for Ammonia.

Certification by Highest Ranking Employee

Attached.

Certification by Licensed Planner

Attached.

8. Plan Certifications

Certification By Highest Ranking Employee

As of December 14, 2015, I, Mike Filipovic, certify that I have read the toxic substance reduction plan for the toxic substance referred to below and am familiar with its contents, and to my knowledge the plan is factually accurate and complies with the *Toxics Reduction Act, 2009* and Ontario Regulation 455/09 (General) made under that Act.

[Phosphorus]

[Ammonia]



Mike Filipovic, Mill Manager

DEC 18 / 15
Date

Atlantic Packaging Products Ltd.

Certification By Licensed Planner

As of December 14, 2015, I, Erik Martinez, certify that I am familiar with the processes at Atlantic Packaging 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 2015 and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act.

[Phosphorus]

[Ammonia]



Erik Martinez, P. Eng.

Dec 21, 2015

Date

Planner License # TSRP0005

GHD Limited