

March 19, 2015

TRA Phase II Annual Comparison – Niagara Energy Products

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Toxic Reduction Plan for Niagara Energy Products (NEP) was prepared in August 2014 for particulate matter (PM₁₀) for 2013 production year. As part of the overall plan, two technically and economically feasible reduction options were identified to be implemented in the following years.

Toxic Substance Reduction Options to be Implemented

To reduce the creation and air release of PM₁₀ from the facility, NEP plans to implement the options 1 and 3 under Category 3 in TRA plan. Since the implementation of these options is expensive to NEP, it is beneficial to implement them in stages.

Implementation Schedule of Reduction Options

Category 3 – Equipment or Process Modifications; Time Table for Implementation

Step	Description	Estimated Timeline	Estimated Reduction in Air Release (MT/yr)
1	Upgrading Emission Control Equipment	2-4 years	0.72
2	Acquiring Electrostatic Spray guns	1-2 years	0.02

NEP is in the process of upgrading emission control equipment and is expecting to meet the stated deadlines. Since the implementation is not complete, the estimated reduction of PM₁₀ is not achieved for 2014 production year.

However, due to the changes in production levels, creation and air emission of PM₁₀ in 2014 are slightly different than 2013 year.

Year	Created (tonnes/year)	Air Release (tonnes/year)	Destroyed (tonnes/year)	Off-Site Disposal (tonnes/year)
2013	7.13	1.150	5.98	None
2014	7.18	1.129	6.05	None

NEP prides itself on technological innovation in order to produce high quality products in an environmentally responsible manner. NEP will strive to reduce the creation and release of PM. Furthermore, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.

Our objective is to implement a number of reduction options pertaining to equipment and process modifications and employee training to reduce the creation and onsite air release as follows:

- Creation of Particulate Matter at the facility will be 6.78 tonnes per year accounting for 5% reduction compared to Particulate Matter created in year 2012; and
- On site air release of Particulate Matter will be 0.41 tonnes per year accounting for 65% reduction compared to Particulate Matter released to air in year 2012.

The facility intends to implement the above reductions within the next 2 to 3 years.