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Dear 

Thank you for your interest in the Durham York Energy Centre (DYEC). You have asked for information regarding the methods used to separate potentially recyclable materials from the municipal solid waste (MSW) stream prior to the combustion process; the environmental systems in use at the facility that allow us to comply with the Ontario Ministry of the Environment and Climate Change (MOECC) air quality standards; and information on future environmental projects at the facility. We are happy to provide you with this information. Additionally, should you desire more information, please note that the Region of Durham operates a website where all of this information may be found at <http://www.durhamyorkwaste.ca>.

Diversion of Potentially Recyclable Materials

There are many “hands” that pre-sort waste as it travels from homes and ends up as garbage at the DYEC:

1. At the curb:
 - Residents are provided with convenient waste diversion programs like the Blue Box and Green Bin programs to reduce, reuse, recycle and compost as much waste as possible.
 - Collectors “tag” and leave behind improperly sorted items or unacceptable materials.
2. At Durham and York Regions’ Public Waste Depots:
 - Residents are directed to sort their waste properly, for example, household hazardous waste is taken to the depot for free and safe disposal.
 - Staff directs residents to appropriate stations for depositing waste and inspect containers for improperly sorted items or unacceptable materials.
3. At the Waste Transfer Station:
 - Staff monitor trucks for radiation using detectors at the weigh scales.
 - Staff inspect garbage as it is dumped by collection trucks and repacked into trailers for delivery to the DYEC.

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- Staff will remove unacceptable or hazardous items.
4. At the DYEC:
- Staff monitor trucks at the weigh scales and confirm that only approved vehicles enter the site.
 - Radiation detection devices monitor inbound trucks as they approach the weigh scales. Garbage loads that do not pass the radiation screening will be rejected and sent away without dumping their load.
 - Facility operators inspect waste visually prior to processing and will remove unacceptable items.

Some materials that are potentially divertible, such as ferrous (i.e., iron and steel) and non-ferrous (i.e., aluminium and copper) metals, cannot be easily separated from the waste stream prior to entering into the combustion process. Ferrous metals are recovered for recycling after the combustion process through magnetic separation. Non-ferrous metals are separated using eddy current separators and are also sent for recycling.

Air Quality and Pollution Control

The DYEC utilizes some of the most advanced technology in the world to comply with the rigorous environmental standards that exist in Ontario. The facility is operated in a safe, sustainable and environmentally responsible manner.

There are two boilers at the facility that may each receive up to 218 tonnes of MSW per day. Each individual boiler will have its own dedicated Air Pollution Control (APC) system consisting of:

- Selective non-catalytic reduction (SNCR) system for control of nitrogen oxides (NO_x);
- Patented Very Low NO_x (VLN™) system for additional NO_x control;
- Evaporative cooling tower with dry lime reactor for acid gas control;
- Activated carbon injection system for mercury and dioxin control;
- Minimum temperature of 1,000°C for volatile organic compound (VOC), dioxin and furan control; and
- Fabric filter baghouse system for particulate matter control.

Additionally, continuous emissions monitoring (CEM) devices monitor stack emissions on a continuous basis to ensure compliance with stringent MOECC air quality standards and Environmental Compliance Approval (ECA) limits. By visiting the website and clicking on the appropriate links, you will find all the information related to the technology being used at the facility to control emissions and to ensure the facility remains in compliance with its ECA.

Environmental Sustainability

The DYEC represents the culmination of a long-term waste management strategy developed by the Regions of Durham and York. The facility supports the waste policy by encouraging the public to maximize waste reduction, reuse and recycling, leaving only a modest amount of waste to be recovered at the DYEC. The Energy-from-Waste (EFW) process results in the production of high-pressure steam,

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which is fed through a turbine generator that produces electricity. When operating at design capacity, the electricity sold to the provincial grid will be sufficient to power about 10,000 homes, while the future district heating system will produce heat equivalent to the needs of 2,200 homes.

Covanta is supportive of environmental and educational programming in Durham Region, and is actively involved in partnerships with local communities to drive environmental stewardship and the development of new, innovative programs in education. We are proud to be in partnership with the Regions of Durham and York, and look forward to developing additional community relationships over the coming years.

Should you have any additional questions regarding the technology used at the DYEC, please visit the website. Please consider joining a tour at the facility's Visitor's Centre once we are fully commissioned this summer.

Yours truly,



Jennifer Baron
Business Manager, DYEC