

June 16, 2003

FAX (1 page)

Reply to: Marni French
(416) 397-4804

ADDENDUM NO. 1
REOI # 9155-03-7283

Re: New and Emerging Technology for Management of Residual Municipal Solid Waste
Closing: 12:00 noon, July 14, 2003

Please refer to the above Request for Expression of Interest (REOI) 9155-03-7283 document in your possession and be advised of the changes noted below.

Please attach this addendum to your REOI document and be governed accordingly.

All other terms and conditions remain the same.

- Q1. Clarify regarding addenda, point 8 on page 3 of REOI document, stating that any addenda would be issued to all companies who were issued the REOI. How will this work since some companies will download the REOI from the web site without the City's knowledge?
- A1. Delete the information under 8) on page 3 of the REOI document and replace with the following information:
- 8) The City of Toronto will post questions received from potential respondents and the City's responses to them in the form of addenda on the project web site (<http://www.city.toronto.on.ca/wes/techservices/involved/swm/net/>) each Monday (as necessary). The final addendum (if necessary) will be issued on Monday July 7. Any revision to the EOI submission date (if required) will be included in the final addendum.

The City of Toronto is under no obligation to advise or inform any potential respondent of any addenda that may be posted to the web site. It is the sole responsibility of a potential respondent to visit the web site for any addenda that may be posted by the City. All respondents should acknowledge receipt of REOI documents and all Addenda in their EOI submission.

The City will be issuing notification of this protocol to all potential respondents that are in our database for this project.

- Q2. Please confirm why is the City not interested in incineration and if not, is there any value in making a submission about our incineration technology.

- A2. As indicated in the REOI document the City of Toronto is not interested in incineration technologies for management of its residual municipal waste at this time.

The City's contract for landfill disposal precludes the City from contracting for incineration capacity. However, it explicitly allows the City to contract for new and emerging technologies. In 2001 Toronto City Council approved the Taskforce 2010 report and established a target of 100% diversion from landfill by 2010. It also indicated that new and emerging technologies would be required in order to achieve 100% diversion. In January 2002 City Council adopted a report recommending that staff investigate new and emerging technologies to treat up to 40% of Toronto's municipal solid waste. That report also stated that conventional EFW incineration would not be considered at this time, identifying both incineration and landfill as disposal technologies.

Toronto City Council has directed staff to report in September 2003 on the results of this REOI. This report will identify and summarise all submissions, but any submissions about proposed incineration systems and landfill capacity will not be considered further in this process, unless directed otherwise by Toronto City Council.

- Q3. We are a supplier of proven equipment for sorting waste, such as trommel screens, shredders and compost turners. Should we reply to your REOI?
- A3. The City of Toronto is seeking through this request for expressions of interest (REOI) new and emerging technologies and systems for processing the mixed residual waste after source separation diversion programs. This may include innovative separation systems that incorporate proven technology and unit operations.

We would be happy to receive information about such equipment. However, at this time the City does not intend to be purchasing individual equipment such as shredders, trommel screens and compost turners. While such equipment may be part of a system to process the mixed residual waste, vendors of such equipment would likely have to become part of a consortium to submit a proposal for the mixed residual waste processing capacity.

City Council has directed staff to report in September 2003 on the results of this REOI and to make recommendations on the subsequent request for qualifications and proposals. That report will identify respondents to the REOI and may assist companies that supply system components and equipment to identify potential partners. That report will be available to the public and posted on the City's web site <http://www.city.toronto.on.ca/wes/techservices/involved/swm/net/>

- Q4. We have a technology that treats specific waste materials or waste stream components (e.g. household organics or electronic equipment). How will these be collected from the curb?
- A4. As indicated in the REOI (page 8, section 1.3) the City of Toronto is looking for technologies and systems to treat mixed residual waste after source separation programs. With this REOI, the City is not looking for processing capacity for specific waste materials that will be source separated by residents for separate collection.

With respect to household organics, the City of Toronto currently operates a source separated organics (e.g. food & low-grade paper) collection and processing system. The City will, however, be looking for long-term processing capacity for source separated organic waste as part of another procurement process. To keep up to date with this process, access the City's purchasing web site (www.toronto.ca/tenders/proposal.htm), and register with the City for notification of such tenders.

- Q5. What does the 40% residual waste represent in tons per annum?
- A5. As noted in the REOI document (Section 2.1, page 11) the 40% residual waste represents up to about 419,000 tonnes per year (461,000 tons per annum) in 2007. As noted, these quantities are estimates and actual quantities will depend on future waste generation rates and the success of new and existing diversion programs. The quantity of residual mixed waste requiring management may be lower if diversion programs, policies and practices exceed the 60 percent diversion target.
- Q6. Why is the quantity of residual waste so small (400,000 tonnes per annum)?
- A6. The City of Toronto manages about 1 million tonnes of municipal solid waste per year (residential waste, waste from the City's agencies boards, commissions and departments and from some small commercial businesses). As noted in A4, the quantity of residual mixed waste requiring management may be lower if diversion programs, policies and practices exceed the 60 percent diversion target.
- Q7. When will the main elements in the Waste Stream to be treated be identified?
- A7. As noted in the REOI document (Section 2.2, page 12) the City of Toronto will be conducting a series of lab tests to determine physical and chemical properties of the residual waste stream. These tests might include the following:
- elemental - carbon, oxygen, hydrogen, nitrogen, sulphur, metals and halogens
 - moisture, volatiles, fixed carbon and ash content
 - energy content, and
 - ash analysis - major oxides content

In the EOI submissions respondents are encouraged to outline what additional specific information about waste composition would be helpful for the purpose of preparing proposals in response to the RFP.

The results of these tests will be made available after the deadline for this REOI, likely as part of the request for qualifications (RFQL) or request for proposals (RFP). The City may decide also to make the information available prior to the release of RFQL or RFP.

- Q8. Is Toronto intending to fund a potential proponent in development of a New Emerging Technology to suit Toronto's needs?

Finance
Joseph P. Pennachetti
Chief Financial Officer & Treasurer

**Purchasing and Materials
Management Division**
City Hall, 18th Floor, West Tower
100 Queen Street West
Toronto, Ontario M5H 2N2

Director: Lou Pagano

- A8. At this time the City of Toronto intends to issue a request for proposals for new and emerging technologies to treat mixed residual waste remaining after source separation diversion programs. Price and cost will be one component of the evaluation of proposal submissions and the subsequent recommendations regarding award and implementation of specific systems. Additional criteria will include environmental performance, technical performance, public acceptability and risk. Toronto City Council will decide what level of funding is acceptable considering the alternatives available.
- Q9. What are the tipping fees for waste in Toronto?
- A9. The City of Toronto currently pays approximately \$52/tonne of waste, to haul and dispose of its residual waste in a landfill in Michigan, USA. As well, several private waste management companies receive waste at their transfer stations for disposal in other landfills. The tipping fees charged vary among these companies and with the type and quantity of waste delivered.
- Q10. What is the price per kWh of electricity paid at the grid in Toronto?
- A10. The price per kWh of electricity paid at the grid would be subject to negotiation with the local power providers. City staff is investigating possible contacts with these companies that may be able to provide additional information on local electricity pricing structures. This information will be posted on the City's project web site as it becomes available.
- Q11. Please provide additional information such as:
- labour costs
 - prices paid for products and utilities such as, electricity, steam, water, fuels
 - how far is it from the treatment plant to the landfill
- A11. As described in the REOI document, the City of Toronto is at the initial stage of the technology selection process and is not yet addressing issues of cost and siting. Therefore, questions such as those relating to the prices to be paid for utilities and products, site characteristics, etc. cannot be answered at this stage and will be addressed more appropriately at the RFQL and RFP stage.

Marni French, Senior Buyer
Purchasing and Materials Management