

Pre-Selection and Design Services for Thermal Hydrolysis Process System
for the North End Sewage Treatment Plant

URGENT

**PLEASE FORWARD THIS DOCUMENT TO
WHOEVER IS IN POSSESSION OF THE
REQUEST FOR PROPOSAL**

ISSUED: 2017 01 20
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**THIS ADDENDUM SHALL BE INCORPORATED
INTO THE BID OPPORTUNITY AND SHALL
FORM A PART OF THE CONTRACT
DOCUMENTS**

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Please note the following and attached changes, corrections, additions, deletions, information and/or instructions in connection with the Request for Proposal, and be governed accordingly. Failure to acknowledge receipt of this Addendum in Paragraph 9 of Form A: Bid may render your Proposal non-responsive.

PART B – BIDDING PROCEDURES

Add: Section B24.8 to read:

Further to B24.1 (c) (i) the three (3) Previous Installation projects will be scored as follows:

Project 1

The following points will be allocated under the Rated Capacity Criteria

- a) Five points will be allocated to THP systems that have a rated capacity of 100 tonnes of dry solids per day. THP systems of a rated capacity less than 100 tonnes of dry solids per day will receive a fail.
- b) For each additional tonne of dry solids per day of rated capacity, an additional 0.2 points will be allocated, to a maximum of 5 additional points.
- c) A total maximum score of 10 points will be achieved for THP systems that have a rated capacity of 125 tonnes, or greater, of dry solids per day.

The following points will be allocated under the Duration of Successful Operation Criteria

- a) Ten points will be allocated to THP systems that have been in continuous successful operation for 12 months. THP systems that have been in continuous successful operation for less than 12 months will receive a fail.
- b) For each additional month of continuous successful operation, an additional 0.83 points will be allocated, to a maximum of 10 additional points.
- c) A total maximum score of 20 points will be achieved for THP systems that have been in continuous successful operation for 24 months or greater.

Project 2 and Project 3

The following points will be allocated under the Rated Capacity Criteria

- a) Three points will be allocated to THP systems that have a rated capacity of 60 tonnes of dry solids per day. THP systems of a rated capacity less than 60 tonnes of dry solids per day will receive a score of zero.

- b) For each additional tonne of dry solids per day of rated capacity, an additional 0.05 points will be allocated, to a maximum of 3 additional points.
- c) A total maximum score of 6 points will be achieved for THP systems that have a rated capacity of 120 tonnes, or greater, of dry solids per day.

The following points will be allocated under the Duration of Successful Operation Criteria

- a) 2 points will be allocated to THP systems that have been in continuous successful operation for 12 months. THP systems that have been in continuous successful operation for less than 12 months will receive a score of zero.
- b) For each additional month of continuous successful operation, an additional 0.17 points will be allocated, to a maximum of 2 additional points.
- c) A total maximum score of 4 points will be achieved for THP systems that have been in continuous successful operation for 24 months or greater.

Add: Section B24.9 to read:

Further to B24.1 (e) the lowest estimated life cycle cost will receive a score of 40 points. Other estimated life cycle costs will receive a score based on a ratio relative to the lowest life cycle cost. That is:

- a) Lowest life cycle cost points = 40 points
- b) Second lowest life cycle cost points = $(\text{lowest life cycle cost} \div \text{second lowest life cycle cost}) \times 40$
- c) Third lowest life cycle cost points = $(\text{lowest life cycle cost} \div \text{third lowest life cycle cost}) \times 40$
- d) Fourth lowest life cycle cost points = $(\text{lowest life cycle cost} \div \text{fourth lowest life cycle cost}) \times 40$

PART D – SUPPLEMENTAL CONDITIONS

Add: Section D2.1 (cc) to read:

“Date of Becoming Fully Operational” means the date the Owner accepted the THPS as meeting all contractual requirements.

PART E – SPECIFICATIONS

Add: Section 2.8.4 to Specification No. 11355 to read:

The PDS will consist of approximately the following blend of primary and secondary sludge:

- a) Minimum Condition (2023): 48 percent primary sludge, 52 percent secondary sludge
- b) Average Condition (2037): 58 percent primary sludge, 42 percent secondary sludge
- c) Maximum Condition (2037): 61 percent primary sludge, 39 percent secondary sludge

Revise: Section 3.14.4 to Specification No. 11355 to read:

The THPS must consist of step-wise heating of the **PDS feed with holding times, temperatures, and pressures corresponding to the ranges listed in Table 2.**

Revise: Section 3.14.5 to Specification No. 11355 to read:

Maintain steady state operation throughout each test for each of the design operating conditions. The THPS will be required to maintain acceptable performance as defined in **Table 2** at each of the throughput conditions specified.

Table 2: Guaranteed Performance Parameters

Parameter	Units	Design Condition
PDS Flow (throughput) Minimum (2023) Annual Average (2037) Maximum Month (2037)	m ³ /d	238 481 756
PDS Mass Loading (throughput) Minimum Annual Average Maximum Month	tDS/d	38 77 121
Reaction (Hold) Time Minimum Maximum	min	20 30
Reactor Temperature Minimum Maximum	°C	160 170
Reactor Pressure Minimum Maximum	bar(g)	6 9

Revise: Section 3.14.9.1.1 to Specification No. 11355 to read:

Thermal efficiency (kJ/tDS) is defined as the total amount of heat energy (kJ) required by the THPS to process a tonne of dry material (tDS) in the feed PDS **having a solids concentration of 16%**.

Proponent’s Teleconference – January 10, 2017

Question: What mechanisms have been put in place so that that clauses B17.3, 17.4, 17.5 are adhered to?

Answer: Under RFP 182-2015, AECOM Canada Ltd. (AECOM) was engaged to provide professional services in respect of the North End Sewage Treatment Plant (NEWPCC) Upgrade. Those professional services fall into three separate categories:

- a) Part E Owner’s Advocate - Design Build Services
- b) Part F Professional Engineering - Design Bid Build Services
- c) Part G Professional Engineering - Special Services

Thermal Hydrolysis Pre-selection and Procurement Conditions fall under Part G Professional Engineering - Special Services, of AECOM’s scope of work under their contract for RFP 182-2015 and Veolia does not assist the City with the project management of Part G of AECOM’s contract for RFP 182-2015. Work associated with Part G of AECOM’s contract for RFP 182-2015 is not carried out in co-location office space utilized under AECOM’s contract. Thermal hydrolysis materials related to this RFP are stored on separate computer servers – separate from Part E and Part F of the project, so that Veolia does not have access. This separation includes both City and AECOM servers. The thermal hydrolysis project does not use the same document management system as Part E and Part F of the project, so that Veolia does not have access to thermal hydrolysis correspondence or transmittals as it relates to this RFP. These measures have been implemented by the City to ensure Veolia personnel have no access to any documentation related to this procurement. Only City and AECOM staff worked on the development of RFP 866-2016, including, the evaluation criteria and its weighting.