



**Response to Queries/Clarifications
from Design Engineer
to the Sydney Tar Ponds Agency**

Tender # STPA2008S-22
Tender Title: Flow Diversion – TP6A
Date: 04 December 2008
To: Jerome MacNeil, Contract Manager
From: S. Kelly

Query/Clarification: Questions submitted to the STPA [REDACTED]

Question #1 - Pump around power

Projected Power requirement

Coke oven Brook	- 2.5 megawatt - transformed 575 V 3 Ph.
Wash Brook	- 5.0 megawatt - transformed 575 V 3 Ph.
Ferry Street	- 5 megawatt - transformed 575V 3 Ph.
Narrows	- 5 megawatts - transformed 575 V 3 Ph.

Where are the exact locations where we pick up the power source
Will the voltage be 575V 3 phase and if not what will the voltage be ?

Response: Points of contact at Nova Scotia Power who are familiar with existing conditions are:

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Who pays the cost of power supply installation, i.e.: poles conductors, transformers, switchgear, etc.

Response: As per Addendum 2:

8) SECTION 11 01 60 - BYPASS PUMPING SYSTEMS

(a) Page 3, add new clause 2.1.7 as follows:

2.1.7 Agency will reimburse contractor direct costs plus ten per cent (10%) for fuel and electricity on a monthly basis for the operation of the pumping system. Contractor is to maintain documentation to the satisfaction of the Design Engineer.

Documentation is to clearly indicate that the fuel and electricity used is strictly for the operation of the pumping system.

Contractor is responsible for power supply installation.

Question # 2 - Water Flows

Do you have water flow historical data by day, week, month (M3/sec)

Response: Refer to Addendum 3 for Flow Duration Curves for Wash Brook and Coke Oven Brook.

We need more detail on historical water flow data at battery point silt curtain location to determine loads on the curtain at peak tidal/wind conditions.

Response: Refer to Specification Section 00 31 32 Additional Reports and Returns detailing the information available through STPA.

TP6 -Dwg - N - 100

Question # 3

“Additional Geotechnical Investigations at contractor’s expense.

Please provide the scope of additional geotechnical investigation and expected costs.

Response: The note refers to additional geotechnical investigations and/or testing if deemed necessary [by the contractor] during construction, will be conducted by the contractor at no additional cost to the owner.

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TP6 – Dwg – N- 101

Question # 4

“Stake out Utilities”

What is the scope of this?

Response: General comment in reference to construction details and sequencing. Contractor designs and installs the Work and refines the sequence where schedule benefits can be gained.

Question #5

“Decommission Monitoring wells”

Please provide the procedure.

Response: As per Addendum 2 and Addendum 3, the requirement for decommissioning the monitoring wells has been removed from the scope of work.

Question # 6

“Make good the battery point barrier.”

What is the scope of make good?

Response: Generic statement. Refer to Specification Section 01 22 00 Measurement and Payment Paragraph 12 Battery Point.

Drawing N-110

Question #7

Please provide more details on silt curtain design.

Response: The silt curtains(s) are contractor designed to match the existing conditions. Additional details are provided in Section 3.2.3.2 of the Assignment Environmental Protection Plan (Appendix B to the Specifications)

Question #8

What are the pump capacity requirements for the temporary pump arounds for construction at washbrook, coke oven pump station?

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Response: As per Specification 01 22 00 Measurement and Payment

Paragraph 16. Bypass Pumps and Forcemains and Associated Works

This Item includes all overhead and profit to provide all materials, labour, equipment and maintenance to design, install, operate, monitor and remove temporary pumping systems (pumps, piping and standby equipment) for the purpose of diverting discharges for the duration of the project (per Bypass Pumping Specification and Drawings TP6-DWG-P-301 to 350)

Drawing C-207 - A section

Question # 9

Is this correct – i.e.: should the 200mm slag be separated from the liner by sand?

Response: The 200mm Slag, means 200mm thickness Slag as shown on the drawings, not 200mm large slag rocks on top of the liner. The slag is called out in the Specification 31 23 10 page 4, 2.1.3 as Type 1 & 2, crushed and screened slag as per NSTPW standards.

Drawing – P – 310,311,312,313,314

Question # 10

Can the location of the force mains be changed slightly to eliminate excess bending of the pipe lines.

Response: Any substitution can be considered after award of the contract in accordance with Specification 01 23 10 Substitutions.

Dwg. P- 333

Question # 11

The suggested construction procedure does not list water diversion – is this correct?

Can the construction proceed with water diversion via dug channels?

Response: The TP6A Contractor is responsible for flow diversion of Wash Brook, Coke Oven Brook and the Outfalls. The TP 6B Contractor is responsible for dewatering prior to in-situ solidification & stabilization and channel construction.

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The TP 6A Contractor is not responsible for dewatering of North or South Pond; however, it is expected that a portion of the standing water in the ponds will drain back when operations are first initiated.

Dwg. P- 342

Question # 12

Please provide any procedures/ techniques for battery point silt curtain maintenance including installation integrity under severe weather conditions.

Response:The Assignment Environmental Protection Plan, Section 3.2.1 states: to control the dispersal of sediments into the surrounding downstream environment or into the Sydney Harbour, two silt curtains and an oil absorbent boom will be installed on the outfall side of the energy dissipation outlet structures according to the protocols outlined in Section 3.2.1. The requirement for the silt curtains and oil boom at Battery Point is for Phase III only.

The contractor is responsible for installation and maintenance of the silt curtains and oil boom. If the contractor has alternative ways and means to meet the requirements of the Assignment Environmental Protection Plan, Specification 01 23 10 Substitutions applies.

Question # 13

What are the procedures for protecting silt curtain during winter ice conditions ,and spring ice pack conditions.

Response: Two silt curtains are to be installed on the downstream side of each energy dissipation outlet structure with the objective of capturing silt or sediment that may be released from brook and outfall diversion activities. The contractor is responsible for the installation and maintenance of the silt curtains and oil boom.

Along with the above questions, we are having difficulty getting firm pump pricing , spares maintenance data from several pump vendors and respectfully request a one month extension for tender number STPA2008S-22.

Response: Reference Addendum 2 – Bid Submission date is now December 12, 2008. Tender Award date is January 21, 2009 and Pre-Construction Submittals are due 30 days later with a completion date of March 4, 2009.

Does this query/clarification warrant an Addenda? _____ Yes ___X___ No.

Signature:  Date: 04 December 2008