



## **ADDENDUM NO. 3 to TENDER NO. 556-2003**

Deacon Ultraviolet (UV) Light Disinfection Project –  
Installation of UV Disinfection System

ISSUED: January 16, 2004  
BUYER: Ray Bilevicius  
TELEPHONE NO. (204) 477-5381

### **URGENT**

**PLEASE FORWARD THIS DOCUMENT TO  
WHOEVER IS IN POSSESSION OF THE  
TENDER PACKAGE**

**THIS ADDENDUM SHALL BE INCORPORATED  
INTO THE TENDER PACKAGE AND SHALL  
FORM A PART OF THE CONTRACT  
DOCUMENTS**

v. 20031021

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

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### **GENERAL**

Minutes of Meetings for three (3) pre-tender site meetings are attached hereto and shall form part of the Contract Documents.

Reference Equipment Supply Contracts (previously tendered): All tender documents and shop drawings are available for viewing at Earth Tech (Canada) Inc. 850 Pembina Highway, Winnipeg. Contact the Contract Administrator for an appointment.

### **PART E – SPECIFICATIONS**

Reference Section 01060 Clause 3.1 – add subclause 3.1.14 “Bidders must be registered and certified under the Manitoba Construction Safety Association’s Certificate of Recognition (COR). Bidders may be required to provide evidence of registration and certification.

Reference Section 01500 Clause 1.4.1 – Clarification:

The contractor is responsible for the cost of connecting the 600 V power. The City will pay for the cost of the electricity consumed.

Reference Section 01650 Clause 7.13 - replace clause 7.13 with the following:

All chemicals, or any other ancillary services, not provided under the equipment supply contracts, required to complete the initial demonstration, running test and performance tests are the responsibility of the Contractor.

Reference Section 09900 Clause 1.1.4

Clarification: The intent is not to paint what is unpainted currently, but only to paint previously painted areas, or paint new areas of concrete that specifically require it.

Reference Section 13060 – Clarification: Grooved couplings are required.

Reference Section 13060 clause 2.2.4 - delete “Grooved Mechanical”, and reword as follows: “Grooved Mechanical (Victaulic or equal)”.

Reference Section 13060 – Clause 2.2.5 add the following:

Material: PVC, SDR 28, 10mm dia. Joint: Gasketed bell and spigot.

Reference Section 13060 Clause 2.3 – Clarification: Use slip-on if it will fit, otherwise weldneck is acceptable.

Reference Section 13060 clause 2.4 - add the following text:

- .2 "For flanged water service: 3mm (1/8 inch) thick red rubber (SBR), hardness 80 (Shore A), rated to 200 degrees F (93 degrees C), conforming to ANSI B16.21, AWWA C207, and ASTM D1330, Grades 1 and 2. "
- .3 "Gasket pressure rating to equal or exceed the system hydrostatic test pressure."

Reference Section 13060 Clause 2.5 - add the following text after "...bolts":

"to ASTM A193 Grade B hex head."

Reference Section 13060 Clause 2.7.1 – Replace clause 2.7.1 with the following: "Provide expansion joints on pump discharge piping. Joints to be EVR SJ-221-SR-CR-W-RR-CR 30" dia x 10" F/F single wide open arch expansion joint with food grade white neoprene tube, neoprene cover, 150# flange drilling, galvanized carbon steel retaining rings, shop primed carbon steel 2-rod control rod set. Acceptable alternate: Proco Model 230/220, supplied by General Equipment. "

Reference Section 13060 Clause 2.9.2 - delete the following: "Gaskets shall be 1.5mm thick preformed synthetic rubber bonded asbestos. Gaskets for gas service shall be synthetic rubber."

Reference Section 13060 Delete Clause 2.9.3

Reference Section 13060 Clause 2.9.4 - delete clause 2.9.4 and replace with:

"Where permitted by the Contract Administrator, use grooved mechanical couplings (Victaulic Style # 44 Couplings with Victaulic Type C Vic Rings, or equal) to engage and lock grooved or shouldered pipe ends to allow for some angular deflection, contraction and expansion. Housings consist of ductile iron conforming to ASTM A536, with C-shaped composition Grade 'E' EPDM gaskets classified in accordance with ANSI NSF 61 for potable water service. Use galvanized couplings for galvanized pipe."

Reference Section 13060 add Clause 3.11 as follows:

3.11 PVC Drains for Angle Check Valves

Provide PVC drain piping with a connection from each angle check valve. Install the main collection header at floor level adjacent to the pedestals supporting the angle check valves, then route to the existing sump adjacent to column line 5 and on column line B. Provide connections from each angle check valve with 45° bends and wye fittings. All changes of direction of piping shall be with 45° bends. All fittings shall be from the same supplier as the pipe. Anchor the piping to the floor at 2m intervals and at changes of direction with stainless steel straps, 20mm wide and 5mm thick, and Hilti anchors. Provide 6mm thick galvanized steel checker plate protection covers for all PVC angle check valve drain piping. The protection covers shall be 300mm wide at the top, supported with 25mm x 25mm x 6mm galvanized angles at 1m centres on each side, with ramp plates sloping down at 1V: 4H. Maximum height of protection covers above floor level to be 150mm. Protection covers shall be fabricated in sections not exceeding 2m in length.

Refer to Section 15100 Clause 3.4.3 revise text to read:

"Test Procedure: Fill system with nitrogen to 345 kPa (50 psig) and test for leaks using a soapy solution at the joints. Build the pressure up in 345 kPa (50 psig) increments, testing at each increment for leaks, continue until maximum test pressure is reached on the high and low side and maintain these pressures for a minimum period of 2 hours."

Reference Section 16322 Clause 2.2.3 revise text to read: "150 deg. C temperature rise."

Reference Section 16322 Clause 2.2.4 – Clarification: transformer impedance indicated in the specification will be the number that the transformer is designed around (7.5% min.).

Reference Section 16322 Clause 2.2.5 – Clarification: the 5000V refers to a voltage class; the actual voltage is 4160 volts.

Reference Section 16322 Clause 2.9 - add the following: Square D MV Power-Dry

Reference Section 16426 Clause 2.7.4 - add the following: .2 Square D Masterpact Air Circuit Breaker.

Reference Specification Section 16430A Panel Schedule Panel 100. Panel 100 shall be increased in size from a 42 circuit panel to a minimum 54 circuit panel. Circuits 43 to 54 shall be space for 3 pole breakers.

Refer to Section 17701 page 3 of 3, Instrument Specification No. I101 - revise text for Materials to: "Stainless Steel case rated for temporary submergence to NEMA 6 / IP68 (watertight for a depth of 7.5 meters for a period of 48 hours)." revise text for Manufacturer and Model to: "Topworx "Go Switch" Model 73-13527-4DD or approved equal."

Reference Section 16435 Clause 2.3 - add the following: -

- .3 Square D -Analyzer-Power LogicCM4000
- .4 Square D - Protective Relay- Sepam 1000+S40

Reference Section 16480 Clause 2.6 - add the following: 4 Square D TVSS

Reference Section 17500 - Clause 2.1.2, UV Master PLC. - replace sub-clause 2.1.2.1 with the following: "The UV Master PLC shall include a primary processor and a Hot Standby processor complete with all necessary fittings, adapters, wire, and cable for a complete Hot-Standby system. The PLC processors shall be Modicon TSX Quantum Model # 140CPU43412A. The UV Master PLC panel shall be completely assembled, wired, tested, and ready for connection of external power, communication, and input/output wiring".

## **PART F – DRAWINGS**

Reference Drawing D-8399 – revise drawing D-8399 to show pipe sizes as 600mm diameter (as shown on D-8409).

Reference Drawing D-8402 – revise drawing D-8402 to show Pump discharges as 750mm diameter (as shown on D-8415).

Reference Drawing D-8402 – Clarification: The validation sample injection system pump and mixing tank is new equipment supplied under a separate contract.

Reference Drawing D-8408 and D-8409 - The 3 pump control (angle check) valves shown on drawing D8409 require hard piping to drain to the existing sump adjacent to column B3 on drawing D-8408. Provide PVC, SDR 28, 100 dia drain piping with a connection from each angle check valve. The main collection header shall be located at floor level immediately south of the pedestals supporting the angle check valves. Near column line 5, the header shall be run north and parallel to column line 5, offset 1m to the east, to column line B. The header will then run west to the existing sump. Connections from each angle check valve will be with 45<sup>0</sup> bends and wye fittings. All changes of direction of piping shall be with 45<sup>0</sup> bends. All fittings shall be from the same supplier as the pipe. Anchor the piping to the floor at 2m intervals and at changes of direction with stainless steel straps, 20mm wide and 5mm thick, and Hilti anchors.

Reference Drawings D-8408, D-8411, D-8415, and D-8417 – A change to the piping layouts is required due to the actual Magnetic Flow Meter size identified from the shop drawings. The drawings D-8408, D-8411, D-8415, D-8417 currently show a flow meter length of about 800mm whereas the actual length of the purchased meters is 1170mm flange to flange. To accommodate the revised meter length, centre the revised meter length in the same location as currently shown on the drawing and adjust pipe lengths on each side accordingly.

Reference Drawings D-8408 to D-8417 – Clarification: short radius elbows are required.

Reference Drawing D-8409 – revise drawing D-8409 to include the 900mm grooved clamp as shown on drawing D-8408.

Reference Drawing D-8417, Section M - Provide shutoff valve and check valve. Shutoff to be gate valve as specified in section 13100.

Reference Drawing D-8418, Detail 7 – Provide three (3) drain hoses, one 15m long, one 22m long, one 35m long, type V 136 as supplied by Goodall or equal.

Reference Drawing D-8418, Detail 7 – Provide Kamlok quick-connect or equal. 316 stainless steel couplings, Buna – N gasket, female NPT end on flex hose, male end on fixed piping.

Reference Drawing D-8418, Detail 1 – Clarification: The weld symbol is pointing to the rolled plate being welded to the base plate.

Reference Drawing D-8418, Details 4&5 – Clarification: Piping to floor is correct; there is no requirement at this point to pipe to a floor drain.

Reference Drawing D-8423, Section 1 – Provide 'Caloritech' OKB Type C single tube element infrared heater, model number OKB713C6, in the inlet of each air handling unit (DH-610-AHU-1 and DH-620-AHU-2). Each unit output to be 3.8 kW at 600V, 3Ø, 60 Hz. The units are to be installed and controlled to minimize frosting of the air inlet screen. The units are to be bracket mounted into the air handling unit, chain mounting of the units will not be allowed.

Reference Drawing D-8430, Distribution Single Line Diagram and Specification Section 16430A Panel Schedule Panel 100. Provide 2 additional 15A 3 pole breakers in Panel 100 for the infrared heaters to be installed in DH-610-AHU-1 and DH-620-AHU-2. Provide 2-3/C #12 Teck cable from Panel 100 to infrared heater in AHU-1 and AHU-2. Provide a weather proof disconnect switch at each AHU to allow the disconnection of the power supply to each heaters.

Refer to Drawing D-8432 and add the following:

1. Provide a 20mm RSG conduit from the FE unit for each flow meter to the FIT unit for each flow meter. Contractor will be responsible for the installation of the manufacture supplied flow meter control cables for these devices.

Reference to Drawing D-8434 - Electrical UV installation - UV Block Diagram and make the following changes:

1. Delete reference to cable CPP-11-007A, CPP-12-007A, CPP-21-007A, CPP-22-007A, CPP-23-007A and CPP-24-007A.
2. Cable CPP-11-008, CPP-12-008, CPP-21-008, CPP-22-008, CPP-23-008 and CPP-24-008 shall be installed from each CPP cabinet to the Master UV PLC.

Reference Drawing D-8385, Note 5 - revise to read: "Remove and turnover to the City the existing air handling unit (RC-1). Remove and dispose from the site the chilled water piping service. Refer to Structural drawing D03 for removal of housekeeping pad. Refer to electrical drawing E04 for removal of electrical services."

PROJECT NAME: Deacon Ultraviolet Light Disinfection Project  
 LOCATION: Deacon Booster Pumping Station  
 DATE OF MEETING: January 6, 2004

PAGE: 1 of 3  
 DATE: January 8, 2004  
 PROJECT NO.: 63672-10 (C5)  
 CONTRACT NO.:

PRESENT: Ray Bilevicius (SRB), Neil Klassen (NHK) - Earth Tech  
 Contractors (refer to sign-in sheet attached) -  
 Duane Griffin (DG), Peter Ward (PW) - City of Winnipeg  
 Dean Romas (DR)

PURPOSE: Mandatory Site Meeting for the Tender No. 556-2003 – Deacon Ultraviolet (UV) Light Disinfection Project – Installation of UV Disinfection Equipment

DISTRIBUTION TO ALL ABOVE AND:

WRITTEN BY: Neil Klassen

ITEM	DESCRIPTION	ACTION BY
<b>1.</b>	<b>INTRODUCTION</b>	
1.1	DG welcomed the attendees.	
1.2	All attendees were asked to sign in as part of attendance (attached).	
1.3	DG presented a brief overview of the Deacon Booster Pumping Station and the importance of the Station as a part of the City of Winnipeg’s water supply system.	
1.4	All questions and communications must be sent through the City’s representative (Ray Bilevicius) in writing for a response.	
1.5	DG stressed the importance of the issue of site security and maintenance of a secure site during the entire duration of the Contract.	
1.6	DG stressed that the City is very particular and rigid in its tendering process. Any significant deviation, omission or qualification could be grounds for disqualification. Questions, if any, should be posed prior to tender close. Late or incorrectly delivered bids will not be accepted.	
1.7	DG noted that bid security must be provided. No security – no bid.	
1.8	DG advised that no work on Branch II can be done between May and September long weekends, as water supply to the City must be ensured.	
<b>2.</b>	<b>SITE WALK-AROUND</b>	
2.1	SRB led the tour of the pump room floor, mezzanine, control room and garage area.	
2.2	SRB identified locations for UV reactors, UV panels, access points, etc.	
2.3	PW to confirm whether the City would like to salvage the existing cooling unit or have it disposed of by the Contractor. If there is a change to the Contract it will be issued though an addendum.	
2.4	The existing roof drain at the north west corner of the station may have to be rerouted to accommodate the new duct work routed from the north side to the west side of the station, or alternately the ductwork may require some modification.	
2.5	PW advised that there was no asbestos within the pump station.	

PROJECT NO.: 63672-10

DATE: January 8, 2004

CONTRACT NO.:

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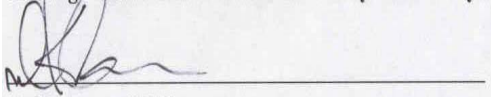
ITEM	DESCRIPTION	ACTION BY
<b>3.</b>	<b>REVIEW OF SPECIFICATION FRONT END</b>	
<b>3.1</b>	The meeting was reconvened in the Control Room at approximately 11:00 a.m. and finished at 11:45 p.m.	
<b>3.2</b>	SRB reviewed all clauses within Parts A, B, C and D of the specification. No questions were asked. SRB stressed the importance of technical compliance on all of the Forms of Tender. Any non-compliance may result in rejection of the bid without any consideration. SRB also stressed the importance of checking the City's website for addenda. There will be at least one addendum issued after the two site meetings. SRB confirmed that the General Conditions apply to this contract. Responses to substitute requests will not be shared with other bidders.	
<b>3.3</b>	Bidders to provide minimum of five days for submission and review of substitutes in accordance with the documents.	
<b>3.4</b>	An addendum will be issued to modify clause B15.4.	
<b>3.5</b>	There are four additional equipment supply contracts for equipment that will be installed under this Contract. The Contractor for the installation contract will be responsible to coordinate aspects of the installation with the various equipment suppliers. Copies of the equipment supply contracts are available for viewing at Earth Tech's offices. SRB stressed the importance of reviewing these documents prior to bidding.	
<b>3.6</b>	SRB indicated the closing date for the tender as January 22, 2004, and substantial completion as December 31, 2004.	
<b>3.7</b>	Waste water generated on site is to be contained and disposed of away from this site. In particular, there is a concern about water used in concrete sawcutting as part of the demolition. This waste water cannot be drained to the Station sump.	
<b>3.8</b>	Safety requirements may be modified by addendum to include Certificate of Recognition (COR).	
<b>3.9</b>	Responsibility for pick-up and delivery to site, of equipment supplied under the other four contracts is the responsibility of this Contract. The City indicated they will re-crate the equipment as it was delivered to them.	
<b>3.10</b>	NHK reviewed portions of the specification Division 01000 to 01500 and highlighted the following issues: A systems integrator will be appointed by the City to provide programming modifications to the existing pump and station PLCs, configuration and modification to existing SCADA workstations and assistance with testing, commissioning and training for the controls systems. The Contractor will be expected to work in cooperation with the Systems Integrator to ensure all aspects of this project are coordinated.	
<b>3.11</b>	Work Staging: The City must maintain water supply from May 14, 2004 to September 7, 2004 during which time there is no work allowed on the Branch II piping. Scheduling of the work must accommodate this requirement.	
<b>3.12</b>	Obtaining and paying for all permits is the responsibility of the Contractor. Jurisdictions include (but not limited to) the R.M. of Springfield and the Office of the Fire Commissioner.	
<b>3.13</b>	The Site is a fenced compound that is to remain locked at all times. The City reserves the right to hire and maintain security during the construction at the Contractor cost if the Contractor fails to comply with the requirements for site security.	

PROJECT NO.: 63672-10

DATE: January 8, 2004

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ITEM	DESCRIPTION	ACTION BY
<p>4. 4.1 5. 5.1 6. 6.1</p>	<p><b>CITY REQUIREMENTS</b>                      DG noted that a partnering session will be held prior to construction start.</p> <p><b>QUESTIONS</b>                      There were no contractor questions.</p> <p><b>OTHER BUSINESS</b>                      SRB noted that an addendum would be issued early next week (week of January 12, 2004).  <b>These minutes are in the writer's best interpretation of discussions held during the meeting. Please inform the writer of any noteworthy omissions or errors.</b></p>  <p>Neil H. Klassen, CET                      Project Manager                      NHK:tl</p>	





PROJECT NAME: Deacon Ultraviolet Light Disinfection Project  
 LOCATION: Deacon Booster Pumping Station  
 DATE OF MEETING: January 9, 2004

PAGE: 1 of 3  
 DATE: January 9, 2004  
 PROJECT NO.: 63672-10 (C5)  
 CONTRACT NO.:

PRESENT: Ray Bilevicius (SRB), Neil Klassen (NHK) - Earth Tech  
 Contractors (refer to sign-in sheet attached) -  
 Duane Griffin (DG), Mark Santos (MS) - City of Winnipeg  
 Dean Romas (DR)

PURPOSE: Mandatory Site Meeting for the Tender No. 556-2003 – Deacon Ultraviolet (UV) Light Disinfection Project – Installation of UV Disinfection Equipment

DISTRIBUTION TO ALL ABOVE AND:

WRITTEN BY: Neil Klassen

ITEM	DESCRIPTION	ACTION BY
<b>1.</b>	<b>INTRODUCTION</b>	
1.1	DG introduced the project and presented a brief overview of the Deacon Booster Pumping Station and the importance of the Station as a part of the City of Winnipeg’s water supply system.	
1.2	All attendees were asked to sign in as part of attendance (attached).	
1.3	DG stressed that the City is very particular and rigid in its tendering process. Any significant deviation, omission or qualification could be grounds for disqualification. Questions, if any, should be posed prior to tender close. Late or incorrectly delivered bids will not be accepted. Bids shall be submitted without any qualifications. The City will not even review technically non-compliant bids. If you don’t understand how to complete any of the submittals ask.	
1.4	All questions and communications must be sent through the City’s representative (Ray Bilevicius) in writing for a response.	
1.5	DG stressed the importance of site security and maintenance of a secure site during the entire duration of the Contract.	
2.	<b>SITE WALK-AROUND</b>	
2.1	SRB led the tour of the pump room floor, mezzanine, control room and garage area.	
2.2	SRB identified locations for UV reactors, UV panels, access points, etc.	
2.3	The City would like to salvage the existing cooling unit the change will be issued through an addendum.	
2.4	The existing roof drain at the north west corner of the station may have to be rerouted to accommodate the new duct work routed from the north side to the west side of the station, or alternately the ductwork may require some modification.	
2.5	The City advised that there was no asbestos within the pump station.	

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DATE: January 9, 2004

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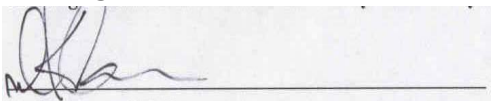
ITEM	DESCRIPTION	ACTION BY
2.6	There is no sanitary sewer connection on this site. The contractor will be responsible for disposing of all waste including sanitary waste and any waste water from concrete cutting/demolition work. The existing sump discharges to the floodway, no waste is allowed to be discharged through he sump.	
2.7	The existing floor hatch on the north mezzanine was opened and revealed a capped duct riser that came about halfway through the hatch opening.	
3.	<b>REVIEW OF SPECIFICATION FRONT END</b>	
3.1	The meeting was reconvened in the Control Room at approximately 11:00 a.m. and finished at 11:45 p.m.	
3.2	SRB reviewed all clauses within Parts A, B, C and D of the specification. No questions were asked. SRB stressed the importance of technical compliance on all of the Forms of Tender. Any non-compliance may result in rejection of the bid without any consideration. SRB also stressed the importance of checking the City's website for addenda. There will be at least one addendum issued after the two site meetings. SRB confirmed that the General Conditions apply to this contract. Responses to substitute requests will not be shared with other bidders.	
3.3	Bidders to provide minimum of five days for submission and review of substitutes in accordance with the documents.	
3.4	An addendum will be issued to modify clause B15.4.	
3.5	There are four additional equipment supply contracts for equipment that will be installed under this Contract. The Contractor for the installation contract will be responsible to coordinate aspects of the installation with the various equipment suppliers. Copies of the equipment supply contracts are available for viewing at Earth Tech's offices. SRB stressed the importance of reviewing these documents prior to bidding.	
3.6	SRB indicated the closing date for the tender as January 22, 2004 and substantial completion as December 31, 2004.	
3.7	Waste water generated on site is to be contained and disposed of away from this site. In particular, there is a concern about water used in concrete sawcutting as part of the demolition. This waste water cannot be drained to the Station sump.	
3.8	Safety requirements will be modified by addendum to include certification under the Certificate of Recognition (COR) safety program.	
3.9	Responsibility for pick-up and delivery to site, of equipment supplied under the other four contracts is the responsibility of this Contract. The City indicated they will re-crate the equipment as it was delivered to them.	
3.10	NHK reviewed portions of the specification Division 01000 to 01500 and highlighted the following issues: A systems integrator will be appointed by the City to provide programming modifications to the existing pump and station PLCs, configuration and modification to existing SCADA workstations and assistance with testing, commissioning and training for the controls systems. The Contractor will be expected to work in cooperation with the Systems Integrator to ensure all aspects of this project are coordinated.	
3.11	Work Staging: The City must maintain water supply from May 14, 2004 to September 7, 2004 during which time there is no work allowed on the Branch II piping. Scheduling of the work must accommodate this requirement.	
3.12	Obtaining and paying for all permits is the responsibility of the Contractor. Jurisdictions include (but not limited to) the R.M. of Springfield and the Office of the Fire Commissioner.	

PROJECT NO.: 63672-10

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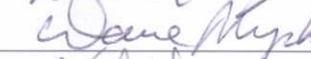
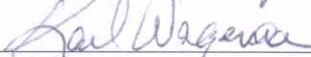





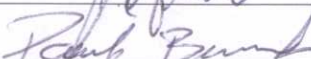
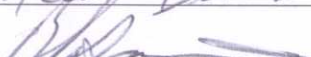
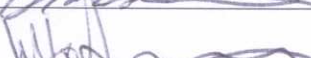

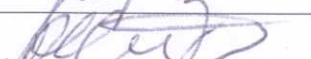
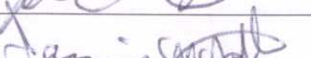
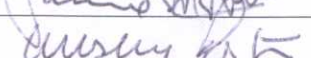
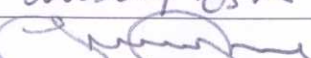
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ITEM	DESCRIPTION	ACTION BY
<p><b>3.13</b></p> <p><b>4.</b></p> <p><b>4.1</b></p> <p><b>5.</b></p> <p><b>5.1</b></p> <p><b>6.</b></p> <p><b>6.1</b></p>	<p>The Site is a fenced compound that is to remain locked at all times. The City reserves the right to hire and maintain security during the construction at the Contractor cost if the Contractor fails to comply with the requirements for site security.</p> <p><b>CITY REQUIREMENTS</b></p> <p>DG noted that a partnering session will be held prior to construction start.</p> <p><b>QUESTIONS</b></p> <p>Does the City want to retain the removed valves and pipe? Currently the contract does not call for salvage (and turn over to the City) of these items.</p> <p><b>OTHER BUSINESS</b></p> <p>SRB noted that an addendum would be issued early next week (week of January 12, 2004). <b>These minutes are in the writer's best interpretation of discussions held during the meeting. Please inform the writer of any noteworthy omissions or errors.</b></p>  <p>Neil H. Klassen, CET Project Manager NHK:tl</p>	

## SIGN-IN SHEET

Deacon UV Light Disinfection Project  
Tender No. 556-2003  
Pre-Construction Meetings  
January 9<sup>th</sup>, 2004

Please complete all requested information

Name (please print)	Company represented	Signature	Phone No.	Fax No.	Email
Cory Nicholson	DECKSEN Mech.		668-4450	663-4969	<del>C.Nicholson@Decksen</del> C.Nicholson@
KEITH RIEGER	WESCAN ELEC/MECH		786-3384	783-2750	
DAVE MYSKA	" " "		786-3384	783-2750	
KARL WAGENAAR	MIKKELSEN		694-8900	694-8891	
Asitha Gajawera	Ammonia Master Ref		582-4620	582-3588	info@ammoniain.com
ANDY TREMORIN	Constock		633-7907	632-1614	<del>elecmech@constock</del>
PRZEM SCHARUNA	↓		↓	↓	<del>elec</del> mech@constock
STEVE KOROWICH	↓		↓	↓	canada.com
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Paul Berard	ABCO Supply		633-8071	633-0639	Pberard@abcosupply.com
BRENNE SABOURIN	WESCAN		254-0184		bernesof@wiscan.com
Mark Klyukin	Empire Iron		589-7371	589-5029	mklyukin@EmpireIron.com
J.P. Boge	Longreen		668-7563	661-9161	
PETE THIESSEN	ABCO SUPPLY		633-8071	633-0639	
Jamie McNabb	ABCO		633-8071	633-0639	
Wes Postma	Regent Court		231-3456	231-3636	wpostma.regent @shaw.ca
Luc Turonne	WISL		956-9475	956-9470	lturonne@wisl.ca

PROJECT NAME: Deacon Ultraviolet Light Disinfection Project  
 LOCATION: Deacon Booster Pumping Station  
 DATE OF MEETING: January 15, 2004

PAGE: 1 of 3  
 DATE: January 15, 2004  
 PROJECT NO.: 63672-10 (C5)  
 CONTRACT NO.:

PRESENT: Ray Bilevicius (SRB), Neil Klassen (NHK) - Earth Tech  
 Contractors (refer to sign-in sheet attached) -  
 Duane Griffin (DG), Peter Ward (PW) - City of Winnipeg  
 Phil Perks (PP)

PURPOSE: Mandatory Site Meeting for the Tender No. 556-2003 – Deacon Ultraviolet (UV) Light Disinfection Project – Installation of UV Disinfection Equipment

DISTRIBUTION TO ALL ABOVE AND:  
 WRITTEN BY: Neil Klassen

ITEM	DESCRIPTION	ACTION BY
<b>1.</b>	<b>INTRODUCTION</b>	
1.1	DG introduced the project and presented a brief overview of the Deacon Booster Pumping Station and the importance of the Station as a part of the City of Winnipeg’s water supply system.	
1.2	All attendees were asked to sign in as part of attendance (attached).	
1.3	DG stressed that the City is very particular and rigid in its tendering process. Any significant deviation, omission or qualification could be grounds for disqualification and technical review of the documents will not be done. Questions, if any, should be posed prior to tender close. Late or incorrectly delivered bids will not be accepted. Bids shall be submitted without any qualifications. The City will not even review technically non-compliant bids. If you don’t understand how to complete any of the submittals ask.	
1.4	All questions and communications must be sent through the City’s representative (Ray Bilevicius) in writing for a response.	
1.5	DG stressed the importance of site security and maintenance of a secure site during the entire duration of the Contract.	
2.	<b>SITE WALK-AROUND</b>	
2.1	SRB led the tour of the pump room floor, mezzanine, control room and garage area.	
2.2	SRB identified locations for UV reactors, UV panels, access points, etc.	
2.3	The City would like to salvage the existing cooling unit the change will be issued through an addendum.	
2.4	The existing roof drain at the north west corner of the station may have to be rerouted to accommodate the new duct work routed from the north side to the west side of the station, or alternately the ductwork may require some modification.	
2.5	The City advised that there was no asbestos within the pump station.	

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DATE: January 15, 2004

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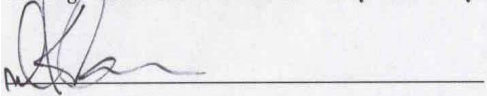
ITEM	DESCRIPTION	ACTION BY
2.6	There is no sanitary sewer connection on this site. The contractor will be responsible for disposing of all waste including sanitary waste and any waste water from concrete cutting/demolition work. The existing sump discharges to the floodway, no waste is allowed to be discharged through the sump. Any wastewater generated through activities such as sawcutting must be captured and disposed off site at the contractor's cost.	
2.7	The existing floor hatch on the north mezzanine was opened and revealed a capped duct riser that came about halfway through the hatch opening.	
3.	<b>REVIEW OF SPECIFICATION FRONT END</b>	
3.1	The meeting was reconvened in the Control Room.	
3.2	SRB reviewed all clauses within Parts A, B, C and D of the specification. SRB stressed the importance of technical compliance on all of the Forms of Tender. Any non-compliance may result in rejection of the bid without any consideration. SRB also stressed the importance of continually checking the City's website for addenda. There will be at least one addendum issued after the two site meetings. SRB confirmed that the General Conditions apply to this contract. Responses to proprietary substitute requests will not be shared with other bidders.	
3.3	Bidders to provide minimum of five days for submission and review of substitutes in accordance with the documents.	
3.4	There are four additional equipment supply contracts for equipment that will be installed under this Contract. The Contractor for the installation contract will be responsible to coordinate aspects of the installation with the various equipment suppliers. Copies of the equipment supply contracts are available for viewing at Earth Tech's offices. SRB stressed the importance of reviewing these documents prior to bidding.	
3.5	SRB indicated the closing date for the tender as January 22, 2004 and substantial completion as December 31, 2004.	
3.6	Safety requirements will be modified by addendum to include registration and certification under the Certificate of Recognition (COR) safety program.	
3.7	Responsibility for pick-up and delivery to site, of equipment supplied under the other four contracts is the responsibility of this Contract. The City will allow the contractor to work with the equipment suppliers to coordinate delivery times, Earlier delivery times may be possible. If there is an advantage to providing delivery directly to site (with the exception of the valves, that the City will be testing) this may be arranged by the contractor.	
3.8	NHK reviewed portions of the specification Division 01000 to 01500 and highlighted the following issues: A systems integrator will be appointed by the City to provide programming modifications to the existing pump and station PLCs, configuration and modification to existing SCADA workstations and assistance with testing, commissioning and training for the controls systems. The Contractor will be expected to work in cooperation with the Systems Integrator to ensure all aspects of this project are coordinated.	
3.9	Work Staging: The City must maintain water supply from May 14, 2004 to September 7, 2004 during which time there is no work allowed on the Branch II piping. Scheduling of the work must accommodate this requirement.	
3.10	Obtaining and paying for all permits is the responsibility of the Contractor. Jurisdictions include (but not limited to) the R.M. of Springfield and the Office of the Fire Commissioner.	

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ITEM	DESCRIPTION	ACTION BY
<p><b>3.11</b></p> <p><b>4.</b></p> <p><b>4.1</b></p> <p><b>5.</b></p> <p><b>5.1</b></p> <p><b>5.2</b></p> <p><b>5.3</b></p>	<p>The Site is a fenced compound that is to remain locked at all times. The City reserves the right to hire and maintain security during the construction at the Contractor cost if the Contractor fails to comply with the requirements for site security.</p> <p><b>CITY REQUIREMENTS</b></p> <p>DG noted that a partnering session will be held prior to construction start.</p> <p><b>QUESTIONS</b></p> <p>Request was made for clarification of Section 01650 clause 7.1.3. Costs for water, power and heat required will be paid for by the City. There may be ancillary materials and or services required that would be the responsibility of the contractor.</p> <p>Re: Section 01650 Clause 1.4.1. The intent is that the contractor supply and install the 120/240 V single phase and the 600V 3 phase power to the site. The cost of the electricity used (related to this project) will be paid for by the City.</p> <p>Is a Registered Land Surveyor required? If a Survey is required it shall be performed by a Registered Land Surveyor.</p> <p><b>These minutes are in the writer's best interpretation of discussions held during the meeting. Please inform the writer of any noteworthy omissions or errors.</b></p>  <p>Neil H. Klassen, CET Project Manager NHK:tl</p>	

