

DOCUMENT 00911

ADDENDUM NUMBER 1

Issued: June 18, 2013

**Russian River County Sanitation District Treatment Plant
Biological Nutrient Removal**

FROM: Russian River County Sanitation District
404 Aviation Boulevard
Santa Rosa, CA 95403-9019

TO: Prospective Bidders

This Addendum forms a part of and modifies the Project Manual dated May 2013. Bidder shall acknowledge receipt of this Addendum in the space provided in Document 00400 (Bid Form).

Modified text is indicated as follows: Double-underline designates text to be inserted; ~~strikethrough~~ designates text to be deleted.

Addendum Number 1 consists of 4 pages (size 8 1/2" x 11") and 0 revised Drawings.

I. General Changes

A. No changes.

II. Changes to Prior Addenda

A. N/A.

III. Changes to Introductory Information and Bidding Requirements

A. No changes.

IV. Changes to Contracting Requirements

A. No changes.

V. Changes to Conditions of the Contract

A. No changes.

VI. Changes to Specifications

A. Section 11081 (High Speed Turbo Aeration Blower):

1. Insert the following as Paragraph 2.6 A.9:

9. Provide blower manufacturer's standard AFD.

2. Modify Paragraph 2.9 C as follows:
 - C. Provide flexible connector on inlet to blower ~~where if a remote inlet filter/silencer is installed~~furnished.
 3. Modify Paragraph 2.10 A.1 as follows:
 1. Provide valve ~~with open-close~~ position switches if required by blower controls.
 4. Modify Paragraph 2.15 G.1.d as follows:
 - d. Communicate data to the building PLC and plant SCADA through an Ethernet data link to the Operations building PLC. Ethernet switches to be ~~unmanaged, N-Tron, Enterasys D2~~ or Approved Equal.
 5. Modify Paragraph 2.15 G.2.b as follows:
 - b. Operator interface to be Allen Bradley HMI Model 2711P-~~T15CAD1~~T15C4D8 Panelview Plus 1500 color, touch screen, 15 IN with Ethernet and RS-232 ports, 64 MB and 24 VDC or Approved Equal.
 6. Modify Paragraph 2.19 C as follows:
 - C. The entire blower system, blow-off valve, check valve, LCPs and MCP shall be tested as an operational system for operation as required by Contract Documents before shipment. The LCP's and MCP shall be connected to all enclosure instruments, and ~~manufacturer-furnished~~ appurtenances. All start/stop, running sequences, control sequences and all safety and alarm systems shall be tested. The Witnessing Engineer shall sign the test procedure and results, certifying that the assembled blowers, auxiliaries, blow off valves, ~~manufacturer-furnished~~ discharge valves, LCP's and MCP were tested together, as a system, using the parameters required by Contract Documents, in the blower manufacturer's shop.
- B. Section 13455 (Programmable Logic Controller [PLC] Control System):
1. Modify Paragraph 2.1 A.1 as follows:
 1. PLC: Allen Bradley Compact logix 1769L32E or 1769L30E, no substitutions.
- C. Section 15183 (Pipe Insulation):
1. Modify the first column in the table in Paragraph 3.3 A.1 as follows:
Low Pressure Air (LPA) - Inside Blower Building

VII. Changes to Drawings

- A. No changes.

VIII. Question(s)/Answer(s)

Owner's responses to Bidder questions shall be for the purposes of interpretation and clarification of the Contract Documents only, and shall not be construed as changing, superseding, or contradicting any express term in the Contract Documents. If any Bidder believes that a response to a question warrants a change in any term in the Contract Documents, the Bidder shall so request the change be made in writing addressed to Owner and received no later than the latest date for submitting Bidder questions. In the absence of a change in any term of the Contract Documents, the express terms of the Contract Documents shall have precedence. Bidder questions are listed below verbatim.

- A. 13155 2.1 A 1 calls out the AB 1769-L32E processor. AB is telling us that this model will be going away soon and is being superseded by the L30ER. This model has a little larger memory and will handle the same number of Ethernet nodes.
Owner's response: Answered in this Addendum above.
- B. 11081 2.15 G 2 b Calls out the HMI to be a 2711P-T15CAD1. Rockwell tells me the number should be 2711P-T15C4D8 to get the Ethernet, RS232 ports, 64Mb, and 24VDC.
Owner's response: Answered in this Addendum above.
- C. If I may, I would like to recommend using a managed switch in these panels. These controllers tend to be rather chatty and a managed switch will eliminate the chatter from the LAN. (11081 2.15 G 1 d)
Owner's response: Answered in this Addendum above.
- D. Spec Section # 11081, Page 6/paragraph 1.6D, Delivery, Storage and handling: Space Heaters are not required for APG-Neuros turbo blowers.
Owner's response: Bid per Bid Documents.
- E. Spec Section # 11081, Page 8/paragraph 2.4, Enclosures: Install Fish eyes for high voltage side of all enclosure for infrared testing. Please clarify the intention for this component
Owner's response: Bid per Bid Documents.
- F. Spec Section # 11081, Page 10/paragraph 2.10, BOV valves: APG-Neuros' blow-off valve is a patented core technology. It is an electro-pneumatic spring actuated diaphragm valve, and not a typical open/close position switch butterfly valve. Please confirm this is acceptable.
Owner's response: Answered in this Addendum above.
- G. Spec Section # 11081, Page 10/paragraph 2.9, Flexible connector: Provide flexible connector on inlet to blower where remote filter is installed. The proposed blowers are louvered inlet configuration. Please confirm that inlet flex joints are not required by the blower manufacturer.
Owner's response: Answered in this Addendum above.
- H. Spec Section # 11081, Page 10/paragraph 2.11, Discharge silencer: Discharge silencer not required by APG-Neuros. APG-Neuros turbo blower comes standard with discharge cones which attenuates the noise by reducing flow velocity.
Owner's response: Bid per Bid Documents.
- I. Spec Section # 11081, Page 10/paragraph 2.12, Discharge valve: Position switches are not required for manual butterfly valves. Drawing M16 shows manual butterfly valves but the spec calls for position switches on the discharge valves. Please confirm that the valves are manual and will not require position switches.
Owner's response: Bid per Bid Documents.
- J. Spec Section # 11081, Page 14/paragraph 2.19, Source Quality Control: Factory acceptance testing shall exclude the MCP. It is not possible to simulate the entire aeration system and piping losses at any testing facility. MCP shall be tested on site.
Owner's response: Bid per Bid Documents.
- K. Spec Section # 00100, Page 2/paragraph 8, Restrictions on Substitutions: Owner will not permit substitution on items such as VFD manufacturer. The blower spec does not list any accepted VFD manufacturers or call for any additional VFD sections. The Variable

Frequency Drive manufacturer shall be KEB. The brand is manufactured and supported in North America. Please acknowledge.

Owner's response: Answered in this Addendum above.

- L. The specification for pipe insulation on all LPA piping. (15183: 3.3)

Some of the LPA piping is submerged; insulation would be inappropriate.

Some of the LPA piping is inaccessible; insulation is not normally required where the hot surfaces cannot be touched.

Some of the LPA piping is existing steel pipe running from the blower building to the basins on the walls of the basin. It is inaccessible in some places, and accessible in others.

Please specifically identify which portions of the LPA piping, new and existing, are to be insulated, and which are not.

Owner's response: Answered in this Addendum above.

END OF DOCUMENT