

# Request for Information (RFI)

Date: 06/23/16 Request No. 005.1

Project: Ephrata Landfill Pretreatment Facility and Evaporation Pond

Project No.: 555-1860-012

Owner: Grant County Public Works Department & City of Ephrata

Contractor: Water Tectonics

Information Request Initiated By: TJ Mothersbaugh

Regarding: Plan Sheet(s): M3.1/M3.2 Specification Section: 13 34 20/43 31 10/43 31 20

**Request:**

1. Specification page 43 31 20-14 states that GAC-1, GAC-2, and GAC-3 should have a “4-inch flanged inlet/outlet”. Per plan sheet M3.2, pre and post vessel piping is 3” for GAC-1 and GAC-2. Per plan sheet M3.1, pre and post vessel piping is 2” for GAC-3. Please confirm that flange sizes noted in the written specifications are correct. If so, please confirm that reducers should be used immediately before and after the vessels.
2. Specification pages 43 31 10-4 and 43 31 20-4 note the requirement to provide a current copy of “Equipment Supplier’s American Society of Mechanical Engineers (ASME) Certification of Authorization”. We’re aware of seven certification programs administered by ASME (<https://www.asme.org/shop/certification-accreditation>). However, none of the certifications seem appropriate or necessary for the scope of work that is to be conducted by the Equipment Supplier for fabrication and integration of equipment within the LTT and VTT. Please confirm if this is a requirement.
3. Specification pages 43 31 10-6 and 43 31 20-7 note the requirement to construct equipment “in a fabrication shop which has an ASME ‘U’ Stamp”. We plan to source relevant pressure vessels from ASME certified manufacturers, but this certification doesn’t seem appropriate or necessary for the scope of work that is to be conducted by the Equipment Supplier that will be integrating the vessels into the containerized treatment systems. Please confirm if this is a requirement.
4. Specification page 13 34 20-30 specifies an Allen Bradley brand ControlLogix PLC and PanelView Plus 6 Graphic Terminal. We would like to propose using a Siemens brand Simatic S7-1200 PLC and Siemens Simatic HMI. Is this an acceptable alternative and approved equal?
5. We will purchase ISO/CSC/CR certified containers. However, we do not plan on re-certifying them after modification. These certifications are typically required if and only if you are planning on shipping the containers internationally on a container ship. Re-certification will add significant costs in both materials and engineering. Please confirm that re-certification after modification is not required.

Prepared By: TJ Mothersbaugh Date: 06/23/16

**Response Assigned To:**

- Project Manager  Project Engineer  Resident Project Representative

Response:

1. Flange sizes noted reflect available manufacturer product information. If flange sizes are available that match connecting pipe sizes, flange sizes may be modified; otherwise, reducers shall be required. Note that 43 31 10, Liquid Treatment Train, and 43 31 20, Vapor Treatment Train, contain the following design requirements identifying that not all required system components are detailed. General Mechanical Note 1 on M2.0 provides a similar clarification for the Drawings.

#### 1.02 DESIGN REQUIREMENTS

A. The materials and equipment covered by this section are intended to be standard equipment of proven ability as manufactured by reputable manufacturers.

1. Equipment shall be designed and constructed in accordance with the best practice of the industry, and shall operate satisfactorily when installed in accordance with Equipment Supplier's recommendations and the Contract Documents.

2. The Specifications call attention to certain features, but do not purport to cover all details entering into the construction of the system.

2. Based on the Equipment Supplier being the system assembler and not the manufacturer of high pressure vessels, these requirements are modified as follows.

DELETE 43 31 10, Liquid Treatment Train, Paragraph 1.04.C.1 and REPLACE with:

1. Proof of successful operating experience during the last five (5) years on five (5) installations comparable to that specified herein.

DELETE 43 31 20, Vapor Treatment Train, Paragraph 1.04.C.1.

1. Proof of successful operating experience during the last five (5) years on five (5) installations comparable to that specified herein.

3. Based on the Equipment Supplier being the system assembler and not the manufacturer of high pressure vessels, these requirements are removed as follows.

DELETE 43 31 10, Liquid Treatment Train, Paragraph 1.06.A.3.

DELETE 43 31 20, Vapor Treatment Train, Paragraph 1.06.A.3.

4. Engineer allows the Substitution Request using the Siemens Simatic S7-1200 PLC and Siemens Simatic HMI under the following conditions:

a. Network communications, including but not limited to PLC to HMI communication, shall be provided via PROFINET (not PROFIBUS).

b. Use of the Substitution Request equipment shall not affect the Contractor's obligation to meet the performance requirements provided in the Contract Documents and shall be contingent upon satisfactory review of the construction submittals.

5. Re-certification as ISO/CSC/CR certified containers is not required after container modification.

Signed: Ian Sutton, PE Date: 06/23/16

cc: Jeff Tincher, Jerome Wawers, Brandon Ball, Gary White