

Questions and Responses for the:

**Request for Proposals
Professional Engineering Services for the City of Sioux Falls Water Reclamation
Facility
Primary Digester Mixing System and Cover Replacement Project
CIP – 23012**

RFP date posted: February 19, 2016

Expiration date: March 11, 2016

Deadline for Questions 5:00 CT, March 4, 2016

Date updated: **March 7, 2016**

Questions and Responses:

1. Q: Refer to section 1.2, Request for Proposal Content. How many pages may be submitted under the Project Qualifications, Experience, and References Section? The table says three while section 1.4 says four.
A: Four pages will be allowed.
2. Q: Refer to section 1.9 Water Reclamation Plant Tours: How many tours will be provided. The text indicates three. Two time frames were provided.
A: The two time frames provided will be the only plant tours.
3. Q: Should pre-design services be included in the Scope of Services
A: No. Additional pre-design services may be included at a later date if determined necessary.
4. Q: Will preliminary task items be provided for construction administration services?
A: No. Consultant is to develop construction administration service scope items and hours based on knowledge of the project and City standards.
5. Q: Are there current projects that will impact the construction schedule of this project.
A: Yes. They include the Brandon Road Parallel Force Main, Yard Piping Improvements, Digester Gas Conditioning System. The selected consultant shall develop plans and specifications to accommodate these schedules.
6. Q: Will equipment be procured?
A: The need to procure equipment will be evaluated during the design phase of the project. Preference will be given towards equipment with a well-established local/regional presence.
7. Q: Will Digester Gas Conditioning system plans be made available?
A: Plans have not been completed. All appropriate plans will be provided as needed to complete project.
8. Q: Will structural investigation during design and construction be necessary?
A: Structural review was completed on secondary digester and determined it was acceptable to support a fixed cover. Ancillary review to ensure structural design is the same between tanks should be completed during design. Site visit by structural engineer to ensure conditions have not changed should be included during construction administration.
9. Q: Should NACE certified inspector be used during construction?
A: Yes.
10. Q: Should certified welding inspectors be used during construction?

A: Yes.

11. Q: Will the Revit model of the digester complex be provided?

A: Not at this time. The Revit model was developed pro-bono at an additional cost to the consultant. The City will review the benefit of acquiring this and making it available.

Additional Information:

1. Digester 2 - is out of round - field measurement/survey of all tanks is necessary during design.

Amendment 1:

As part of the proposed Primary Digester Mixing System and Cover Replacement project the consultant is to assume the following the modification shall be completed to de-classify the digester control electrical room to meet NFPA 820. Electrical room shall be classified as physically separated. The work is described below and shown in the attached "Amendment 1 – Attachment A" display shall be included in a new task under Task Series 2 – Design Services.

1. Provide new wall 5' from primary digester tank #1 to provide physical separation.
2. Provide new exterior door on north wall, 10 foot from primary digester tank #1 wall. Relocate low voltage panel, transformer, and miscellaneous electrical equipment to allow installation of new exterior door. Modification will require conduits in slab to be reworked or J-Box in slab to be added.
3. Remove existing doors and frames and infill to match existing wall to physically separate electrical room from hallway and heat exchanger room.
4. MCC-12A & B shall be replaced with new, new MCC shall be sized to handle new mixing equipment for primary digesters. All efforts shall be made to allow MCC to be expanded.
 - o Remove MCC-12B for all new installation. Temporarily install MCC-12B to operate required digester equipment (temp in center of room), while new MCC-12B is being installed against new wall located main 12" off north wall. Transfer load from old MCC-12B.
 - o Once new MCC-12B is installed, relocated MCC-12A and temporarily install to operate digester equipment (Temp in center of room). Install new MCC-12A.
 - o Extend 4" conduits from below to new location of MCC-12B, core drill through floor and come up directly below MCC. Provide seal-off to keep electrical room unclassified.
 - o Install 2 sets of 3-500MCM, #1 GND in existing conduits from Switchboard in Energy recovery electrical room to new MCC-12B.
5. Remove existing air handling unit and exterior condenser, provide new roof top unit (RTU) sized to handle new room load. RTU shall be located in a non-classified space.

For informational purposes only: The work described below, will be completed under the Digester Gas Conditioning project currently under design and to be constructed in late 2016,

early 2017. The work described below will not be a part of the Primary Digester Cover and Mixing System Project.

- A new switchboard will be located in the energy recovery electrical room. This switchboard will re-feed equipment connected to SB-1200:
- Dewatering Building MCC 14A & B will be provided with new conductors from switchboard to junction box located below where SB-1200 is located. This junction box will have terminal strips for splicing 4 sets of 3#500MCM, #1 GND. Conduits shall be reworked to connect into existing conduit routed to dewatering building. Also conduit coming from transformers T-12 & T-14 will be used for new feed into tunnel.
- Energy recovery MCC 13A & B will be re-fed, MCC-13A & B are located in the same room as new switchboard location, conduits shall be exposed in room.
- Digester Building MCC 12A will be re-fed from switchboard similar to Dewatering building. Only MCC-12A will be connected with new conductors under this project (2 sets of 4"-3#500, #1GND). Two spare 4" conduits shall be routed from switchboard to just below existing SB-1200 location for connection to new MCC under the Primary Digester Mixing System and Cover Replacement project. MCC-12B shall have main breaker in open position and tie breaker shall be closed.
- Gravity Thickening/Sludge Pumping will be re-fed from new switchboard similar to Dewatering Building.