

 <p>CLAYTON COUNTY Water AUTHORITY</p> <p>70 Oakdale Drive, Stockbridge, GA 30281</p>	W.J. Hooper Water Production Plant Chemical Storage Systems	
	ADDENDUM # 1	
	DATE	Monday, December 19, 2022
	RFB NUMBER	2023-WP-01
RFB OPENING DATE	Tuesday, January 10, 2023, at 10:00 a.m. local time	

QUESTIONS:

- Picture #7 on DD-502 calls for the sealant on each side of the concrete column to be removed and replaced. Today at the site walk through I noticed that it is not a sealant in the vertical location but more of a mortar. Please determine if this mortar is to be removed and replaced with sealant or mortar or left alone. The bottom of the wall did show to be sealant.**

Answer: As indicated in detail 7 on DD-502, all existing joint filler (mortar, sealant, caulk, etc.) is to be removed in noted locations and to extent indicated, the surfaces are to be cleaned and prepared to receive new product, and existing joint filler is to be replaced with new sealant in accordance with spec 09910 High Performance Coating, part 2.04. Install product in accordance with the manufacturer’s printed installation instructions and recommendations for surface preparation.

- 11308 1.04 A. requires spares that are a bit improper for a non-metallic pump. It would be simpler to require a single wet end assembly and an o-ring set for each pump application (four (4) total wet ends and o-ring sets). This allows for a complete repair to be conducted on any pump in short order. Given that all the motors are the same rating you may wish to add one (1) spare motor as well.**

Answer: Section 1.04A.2-4 shall be deleted and replaced with the following:

- 2. All constituent components comprising the entirety of a single pump head assembly shall be provided in fully assembled form, allowing for rapid pump replacement, for each pair of pumps.*
- 3. All constituent components comprising the entirety of a single pump head assembly shall be provided in disassembled form for each pair of pumps.*

- 11308 2.03A.: The paragraph does not address the connection requirements of the pumps as being flanged (150#) or NPT. Please clarify the suction and discharge connection requirements.**

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Answer: Section 2.03.A. Shall be amended to include 2.03.A.6. to read as follows:

“Pump suction and discharge shall provide female NPT connections with a minimum diameter of 1-inch”

4. **11308 2.03 B. 6. Does not specify the material of construction for the pump base plate. I strongly recommend requiring a polymer concrete base plate as it is chemical inert and not subject to corrosion. It can be provided with leveling inserts for ease of installation and grouting. Fiberglass reinforced plastic (FRP) bases require a bolt through fastener design and do not lend themselves to a grouted installation. Metallic bases**

Answer: The following shall be added to the existing text in Section 2.03.B.6.:

“Each pump base plate shall be constructed of a chemically inert, non-metallic material that allows the pump baseplate to be leveled and grouted with a polymeric grout.”

5. **11308 2.03 C. 2. Requires all wetted materials of the pumps to be NSF 61 approved. This only applies to components in direct contact with potable water and not chemicals and March Pumps are not NSF-61 certified nor is Finish Thompson another like manufacturer of chemical transfer pumps. I do not believe that Iwaki is either and “Iwaki” is not listed under the NSF web site as manufacturers of NSF certified manufacturers. You may wish to remove this requirement.**

Answer: Section 2.03.C.2 shall be deleted from the specification in its entirety.

6. **11308 2.05 C.: Pump manufacturers do not typically provide anchorage calculations. Please clarify if the required calculations are required to be from a Georgia P.E. and allow the pump provider to supply these calculations.**

Answer: Anchorage calculations are not required for the transfer pumps specified in Specification 11308.



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7. **11308 2.06 A.:** Requires the equipment to be prepared, primed and finish coated in accordance with Section 09910 High Performance Coating Painting. Schedule on page 8 of 13 of 09910 notes requirements for “exterior pumps”. March pump units are non-metallic in construction and are not typically coated. Iwaki M and MF series pumps are also non-metallic and not typically coated. Can this requirement be clarified as to what surfaces it applies to? Is this meant to also be required of the pump motors which would have a metal casing, though in the 3/4 horsepower rating the motors would be constructed of rolled steel. Cast iron enclosures are not provided until the motor ratings are 1 horsepower or above. I would recommend making changes to 09910 and 11308 2.04 A. to both clarify that NEMA frame motors are required and IEC frame units are not allowed. Clarify if the coating requirement for exterior pumps applies only to any ferrous surface including the motors and further expand on the requirements of 11308 2.04 A. to require a minimum of a one (1) horsepower motor rating and that the motor meet the requirements of IEEE 841.

Answer: Pump units constructed of corrosion resistant non-metallic materials shall not require coating in accordance with Specification 09910. Pump motors shall be designed and manufactured in accordance with the standards of NEMA 4X and meet the characteristics noted in 2.04.A.1-6. IEC frame units will not be allowed.

8. **11308 2.07 A.:** “Functional Test” should be termed as a performance test with at least five (5) points on the pump curve including two (2) points at -5% and +5% of the design point.

Answer: Section 2.07A shall be revised to read as follows:

1. *Functional Test: Perform manufacturer’s standard test on equipment and demonstrate performance in accordance with manufacturer’s pump curve that includes the duty points identified in Section 2.03 Pump Data Sheets.*

9. **3.03 B. 1.:** These pumps are close coupled with a rabbeted fit between the pump and motor. All alignment references should be removed.

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Answer: Alignment references within Section 3.03.B. may be disregarded given that pump assembly demonstrates appropriate fit between pump head and motor and is deemed to exhibit minimal vibration as approved by Engineer.

- 10. 3.03 B. 4.: Pump bearings are internal sleeve type and there is no way of monitoring them. Motor bearings are not equipped with RTDs to monitor them and can at best be monitored by an infrared temperature meter. Please revise the requirement.**

Answer: Section 3.03.B.4. shall be deleted in its entirety.

- 11. 3.04 A.: The responsibilities of the manufacturers representative will be provided by Tencarva Machinery Company personnel well qualified to conduct start-up, field testing and training for the provided pumps. Please note the requirement as such**

Answer: Manufacturer’s representative must be well-qualified to conduct startup, field testing, and training for the provided pumps, however, company affiliation will not be directly specified.

- 12. 11308 1.03.B.7.a: Motors will be provided with the motor manufacturer’s paint system which will comply with NEMA 4X classification. Will this be acceptable?**

Answer: See response to Question #7.

- 13. 11308 2.03.A.1 The Iwaki model MX-400F pumps are existing at the plant and are intended to comply with the specifications and project design. These do not have a back pull-out configuration. Will this be acceptable?**

Answer: This is acceptable.

- 14. 11308 2.03.B.5 If the pump runs with the magnet coupling disconnected, the power of coupling will be decreased. The magnetic coupling should not be used to prevent motor overload.**

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Answer: Section 2.03.B.5. shall be deleted in its entirety.

15. 11308 2.05.A Is the manufacturer’s standard 304SS nameplate acceptable?

Answer: No, nameplate must be of 316SS construction as noted in the Specification. Tag number may be laser etched rather than die-stamped.

16. 11308.2.05.C Can the minimum anchor bolt diameter requirement be changed to 7/16” to comply with the manufacturer’s standard, recommended baseplate dimensions?

Answer: No change permitted at this time for minimum anchor bolt diameter requirements. The specified minimum anchor bolt diameter is the basis of design requirement. If this is an issue for a specific piece of equipment or a product manufacturer cannot accommodate this, we will review these conditions on a case by case basis during submittal reviews.