



City of Tacoma

## Questions and Answers No. 2

### CTP Aerobic Digesters Quad A Restoration and Improvements RFB Specification No. ES24-0017F

All interested parties had the opportunity to submit questions in writing by email to Stan Rowden II by July 7, 2025. The answers to the questions received are provided below and posted to the City's website at [www.TacomaPurchasing.org](http://www.TacomaPurchasing.org). Navigate to [Current Contracting Opportunities / Public Works and Improvements Solicitations](#), and then click *Questions and Answers* for this Specification. This information IS NOT considered an addendum. Respondents should consider this information when submitting their proposals.

**1. Question: Is onsite power (480v 3ph) and water available, such as the hydrant across from Quad A?**

Answer: Water is available. 120V power is available. 480V 3ph power is not available at this location.

**2. Question: The 09 96 02 concrete coating spec calls out two prime coats of Raven 175/Raven 405 followed by a 2<sup>nd</sup> coat of Raven 405. Is the intention to prime one coat of Raven 175 at 8 mils, followed by two coats of Raven 405 at 125 mils each coat or one coat at 250 mils? Is it a two or three coat system??**

Answer: The contractor may choose between a single 250 mil coat or two 125 mil coats of Raven 405. The final installation must be 250 mils of Raven 405 over 8 mils of Raven 175.

**3. Question: For the digester interiors, the drawings call out one prime coat of Raven 175 at 8 mils and one coat of Raven 405 at 250 mils. Is it one or two coats of Raven 405?**

Answer: The contractor may choose between a single 250 mil coat or two 125 mil coats of Raven 405. The final installation must be 250 mils of Raven 405 over 8 mils of Raven 175.

**4. Question: 09 96 00 Rather than abrasive blast surface prep for the exterior metal painting (handrail, clips, angle supports), would the owner allow hand/power tool prep in order to avoid installing containment on top of the structure? Please confirm coating system for the existing exposed metal (handrail, clips, angle supports) is Raven 405 or a Machine Gray Urethane finish??**

Answer: 09\_96\_00 spec section is only for the distribution box coating as shown on Sheets 18 and 19 and not the handrail, clips, and angle supports. Coating requirements for the handrail, clips, and angle supports are per Sheet 11. The Contractor may use power tool cleaning for metal preparation, and it needs to be in accordance with SSPC-SP3 *Power Tool Cleaning* and SSPC-SP11 *Power Tool Cleaning to Bare Metal*. Containment still needs to be provided to collect removed materials and prevent overspray. The coatings on Sheet 2 should be ANSI 61 Machine Grey color but utilize one of the two products listed under Note P-3 on Sheet 11.



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- 5. Question: Sheet 11 of 20 Notes P-1, P-2, P-3 indicate a coating system not in the specifications. Where is this system supposed to be installed? Is this for the existing metal (handrail, clips, angle supports)?**

**Answer:** The coating requirements listed on Sheet 11 is for the coating work identified on Sheets 7 through 17.

- 6. Question: #4 and #5 above seem to contradict each other, please clarify which coating system is to be applied for exterior metal surfaces exposed to atmosphere and which system for submerged metal surfaces?**

**Answer:** 09\_96\_00 spec section is only for the distribution box coating as shown on Sheets 18 and 19 and not the handrail, clips, and angle supports. Coating requirements for the handrail, clips, and angle supports are per Sheet 11. The coatings on Sheet 2 should be ANSI 61 Machine Grey color but utilize one of the two products listed under Note P-3 on Sheet 11.

- 7. Question: Please verify/confirm coating system on each substrate coating system:**

**a. Concrete Interiors:**

- i. ICRI CSP 3-5 surface preparation**
- ii. One prime coat of Raven 175 @ 8 mils DFT**
- iii. One or Two coats of Raven 405 to a total system thickness of 200-250 mils DFT**

**b. Sludge box Interiors:**

- i. SP10 surface preparation (spec says 1.5-2.5 mil profile, PDS for Raven 405 states 3-5 mil surface profile, please confirm)**
- ii. Unknown primer coat at 10-15 mils (Raven 175 is for concrete only)**
- iii. One or Two coats of Raven 405 to a total system thickness of 200-250 mils DFT**
- iv. Would the owner accept an alternate thin film system? It is hard to install plural applied material in such a tight area as typically you aren't supposed to trigger on/off with the gun when applying this type of material, and that's exactly what you would be doing for such a small area**

**c. Misc Steel (Handrails, clips, angle supports – exposed to atmosphere)**

- i. Abrasive blasting or hand/power tool prep for metals exposed to atmosphere?**
- ii. Unknown system, please clarify. Would prefer to use a hand/power tool prep and apply some sort of epoxy/urethane system for ease of application**

**d. Misc Steel (Handrails, clips, angle supports - submerged)**

- i. Would prefer to use a hand/power tool prep**
- ii. Raven 405?**

**Answer:** Concrete Interiors preparation and coating should follow Specification Section 09\_96\_02.

The Distribution Box preparation and coating should follow Specification Section 09\_96\_00 except the surface preparation profile should be 3-5 mil to match the manufacturer's PDS. The Raven 175 primer can be omitted for the distribution



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box steel. Provide two 125 mil coats of Raven per Sheets 18 and 19 to ensure proper placement of fiberglass.

The Miscellaneous Steel preparation and coating should follow the requirements on Sheet 11. The Contractor may use power tool cleaning for metal preparation, and it needs to be in accordance with SSPC-SP3 *Power Tool Cleaning* and SSPC-SP11 *Power Tool Cleaning to Bare Metal*.

- 8. Question: Sheet 20, Detail 5 indicates some concrete equipment pads to be demolished and repair surfaces, yet it was not mentioned on the walk through. Is this still part of the solicitation?**

Answer: Yes, this work is still included in the project and the area still matches what is shown in the pictures on Sheet 20. Some of the wall patches were shown during the walkthrough but the interior of the building was not included.

- 9. Question: Regarding cleaning and coating of the guardrails at the top of the digester tanks, the plans show removing/replacing the light post support struts only, what about all the other equipment that is attached to the handrail. Is that all to be removed as well for the coating? The items could be masked off, but is going to increase costs**

Answer: Other material not designated for replacement should be removed and temporarily supported while the recoating is performed.

- 10. Question: Is there a specification for the new 6" ball valves as there does not appear to be on in the specifications?**

Answer: The four new valves should American Valve Model 4000 Cast Iron Flanged Ball Valves to match the existing valves.

- 11. Question: I see the project has the FYFE FRP system specified and allows for alternate systems. The maximum service temperature listed is 150°, and our system is rated for a service temperature of 160°. ACI 440.2R recommends  $T_g > 17^\circ$  over the service temperature and our system's  $T_g$  is 187°. Please see the links below for more information. Can the Simpson Strong-Tie Composite Strengthening System – CSS V-Wrap - be used on this project?**

Fabric Datasheet: <https://ssttoolbox.widen.net/view/pdf/09yblfodai/T-R-VWRAPC220HM.pdf?t.download=true&u=cjmyin>

Epoxy Datasheet: <https://ssttoolbox.widen.net/view/pdf/le8jevexna/T-R-VWRAP770.pdf?t.download=true&u=cjmyin>

ICC Code Report:

[https://ssttoolbox.widen.net/view/pdf/psrlhfdnpy/ICCES\\_ESR4930.pdf?t.download=true&u=cjmyin](https://ssttoolbox.widen.net/view/pdf/psrlhfdnpy/ICCES_ESR4930.pdf?t.download=true&u=cjmyin)

IAPMO Code Report:

[https://ssttoolbox.widen.net/view/pdf/t4d6in7v09/IAPMO\\_UES\\_ER836.pdf?t.download=true&u=cjmyin](https://ssttoolbox.widen.net/view/pdf/t4d6in7v09/IAPMO_UES_ER836.pdf?t.download=true&u=cjmyin)



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Answer: The proposed product with a Tg of 187° is acceptable provided all other properties that are listed in Specification Section 06\_84\_10 (particularly the strength v strain) are also met.

**12. Question: Section 01\_35\_44 -3 indicates that heavy metals, lead, chromium, asbestos, & silica will be encountered. Should we include this cost to abate heavy metals, lead, chromium, asbestos, and silica items in our bid? Or will this cost be negotiated after additional testing is performed?**

Answer: Specification Section 01\_35\_44 1.06A indicates that some samples from the distribution box supports contained Chromium in excess of 5.0 PPM. Contractor shall perform the testing and safe handling practices identified in Specification Section 01\_35\_44 1.06 for the distribution box angle supports. The cost for abating these known contaminants should be included in the contractor's bid. If additional hazardous materials are encountered at other locations, the contractor should follow Specification Section 01\_35\_44 1.05. See Specification Section 01\_35\_44 1.05E for how costs for abating unanticipated hazardous materials will be addressed.