



SAN ANTONIO WATER SYSTEM
DSP Clayton Tank Replacement Project
SAWS Job No. 14-6101
Solicitation No. CO-00028

RESPONSE TO CONTRACTOR QUESTIONS

The following are Contractor Question's submitted during the Q&A period of the project.

Question 1	
<i>Question:</i>	
<i>“PPG Industries is listed as an approved Coating Company for the majority of SAWS tanks coating specification (see Freese & Nichols coating specs attached), however we are not listed in the above project coating specification. We want to be included in this specification as an approve Coating Company.”</i>	
Response:	
Per Revised Section 09900, Paragraph 2.04.B, substitute manufactures may be allowed subject to approval of the OWNER.	

Question 2	
<i>Question:</i>	
<i>“If we are awarded, The asbestos report would be used to submit with our TX EPA demolition notification, will this be acceptable/ allowed?”</i>	
Response:	
The CONTRACTOR shall develop their own asbestos, lead and other required reports for the project as no cost to the OWNER.	

Question 3

Questions:

“My questions are in regards to the water tank demolitions.

Previously, we have dismantled the following towers for SAWS.

-2011Lackland AFB, TX - completed 6/28 & 6/29/11—(It was painted with lead based paint)

-2015-San Antonio, TX - Dos Rios tank completed 6/12/15 - Dos Rios wastewater treatment plant (it was painted with lead based paint)

-Scheduled for Nov/Dec 2015- Not completed yet –San Antonio - New world tank - New world Dr. – (Has LBP on it)

**** None of these required paint abatement prior to torch cutting.**

*-Section 02050, page 6 of 7, C.5—Says we can’t torch cut steel members. Is this a generic statement for buildings, etc., or does it also pertain to the “tank demolitions”? **Can we torch cut the water tanks?***

*Various sections of the specs” infer” that we need to abate the paint prior to torch cutting. Are you expecting paint abatement prior to torch cutting, **or will we be allowed to torch cut through the existing lead/cadmium/chromium based paint (on the 100,000 gallon elevated water tower) per OSHA & EPA Regs (as we have done for the previous SAWS tank demolitions)?***

*Since OSHA (1926.62) or the EPA do not require paint abatement prior to torch cutting, we do not spend the time or expense, to train our employees for paint abatement (OSHA 1926.62 only requires that we at least give “in house” awareness training, not State approved “lead abatement training”). If SAWS will allow us to torch cut through the lead based paint (as before), **will we need to have our employees trained for lead abatement** (it hasn’t been required in the past)?*

Do you expect us to test the elevated tank for cadmium & chromium? If so, why? The same procedures that will deal with the lead based paint will take care of the cadmium & chrome (torch cutting through it per OSHA 1926.62 while wearing respirators (w/HEPA filters)).

*Do you expect us to test the two ground tanks for cadmium & chrome? If so, what do you expect if the tests come back showing cadmium & chrome is in the paint? Will you expect paint abatement prior to torch cutting? Will we be allowed to torch cut through it (per OSHA)? The same respiratory protection & procedures that are required for torching through lead based paint will take care of any cadmium or chrome. **Is it acceptable if we just assume that all of the tanks have lead/cadmium/chrome on them and dismantle them per OSHA 1926.62 (this was acceptable for the previous tank demolitions)? This will adhere to OSHA & the EPA and save money in “not doing unnecessary testing”.***

Response:

- 1. The Contractor shall comply with Section 02065 “Storage Tank Demolition” and with all Federal, State, and Local rules and regulations in the demolition of the storage tanks.**
- 2. Please review revised Section 02503 – Removal of Protective Coatings That May Contain Regulated Material and Section 02504 – Asbestos Containing Material Removal for recommendations on heavy metals abatement. Contractor shall comply with all Federal, State, and Local rules and regulations in the removal of site contaminants.**

Question 4	
<p><u>Question:</u></p> <p><i>“Is it the intent of the bid documents to allow additional tank contractors to quote as a subcontractor on the 1.5 million gallon prestressed concrete tank on this project?</i></p> <p><i>The specifications in section 13000, 1.2 B 2 list three companies as prequalified. The first two, DN Tanks, Inc. and DYK, Incorporated are the same company. Preload, Inc. does no longer bid as we understand it.</i></p> <p><i>The specifications are written to preclude any other experienced tank builder from bidding. A close reading of the specifications in paragraph 1.2 will show that the listed prequalified companies do not meet the requirements.</i></p> <p><i>Precon has been building prestressed concrete tanks that meet the industry standard for over 30 years. During that time we have constructed over 200 tanks that are larger than the proposed tank for this project which are now giving satisfactory service. We think we build the best quality prestressed tank on the market. There will be a benefit to SAWS from competitive pricing.</i></p> <p><i>What should we do to be prequalified as a tank builder?”</i></p>	
<p>Response:</p> <p>DYK, Incorporated is a division of DN Tanks, Inc. Preload, Inc. is now Preload, LLC.</p> <p>Qualifications and experience requirements of the tank builders are shown in Section 13000 sub-section 1.2.A of the Contract Documents.</p>	

Question 5	
<p><u>Question:</u></p> <p><i>“With regards to the referenced project, please address the following question in the next addendum: Specification Section 02050 & Symbol Note 7 on Sheet C-CPS-5 require the plugging of 4 existing abandoned wells.</i></p> <p><i>In order to estimate the costs involved, please provide data for each well (i.e. depth, diameter, approximate water level, what aquifer it draws from).”</i></p>	
<p>Response:</p> <p>Limited data is available for the existing wells. Available well data sheets are included in Addendum No. 5 for reference only.</p>	

Question 6	
<p><u>Questions 6-1:</u></p> <p><i>“1. From what I understand the existing DI pipe for proposed connection was installed less than 18 months ago. It is apparent that SAWS wants to go to steel pipe inside the fence line, but this will make repairs more costly and complex as they will have two types of pipe to deal with underground. Additionally the specifications for the buried steel pipe and fittings will cost about 10x more than DI Pipe and Fittings. Will you consider DI Pipe and Fittings as an alternate for the underground waterlines?”</i></p>	
<p>Response:</p> <p>Yard piping shall be as specified on the drawings and technical specifications.</p>	
<p><u>Question 6-2:</u></p> <p><i>“2. Specification 02510 reads like a pipe specification for a large diameter - greater than 30” - trunk line with 10,000’ of pipe. It is not cost effective or practical for a small diameter steel project with less than 500’ of pipe on it. Please consider changing the steel specification to something like those that were used on Evans Pump Station or New World Pump Station.”</i></p>	
<p>Response:</p> <p>Specifications Section 02510 and Section 15072 have been removed and replaced in their entirety as part of Addendum No. 4.</p>	
<p><u>Question 6-3:</u></p> <p><i>“3. Specification 02510-1.04B.2 asks for an affidavit that the fittings be certified by the manufacturer. Due to the smaller diameters of steel on the project the manufacturer of the pipe will not be the same as those making the fittings. Please consider revising those requirements as specified.”</i></p>	
<p>Response:</p> <p>Refer to Response to Question 6-2 above.</p>	
<p><u>Question 6-4:</u></p> <p><i>“4. Spec 02510-1.04.E.1.f – indicates an independent agency to certify the pipe. Who is responsible to pay for this certification?”</i></p>	
<p>Response:</p> <p>Refer to Response to Question 6-2 above.</p>	
<p><u>Question 6-5:</u></p> <p><i>“5. Spec 02510-1.05.A.1.a – There doesn’t appear to be a steel manufacturer/fabricator who meets these requirements (NW Pipe, Hanson, Ameron, and American each indicated that they cannot meet the specification as written). Regardless, due to the small diameter size and small scope of length of the project none of the above are interested in providing a quote for the project. Please advise which steel manufacturer is pre-approved for the project?”</i></p>	
<p>Response:</p> <p>Refer to Response to Question 6-2 above.</p>	

Question 6-6:

“6. Will a separate fabricator be allowed to weld the pipe from a manufacturer who can supply pipe that meets the qualifications of 1.05.A.1.b – d”

Response:

Refer to Response to Question 6-2 above.

Question 6-7:

“7. Spec 02510-1.05.D – details a 1 week onsite requirement for the steel manufacturer. This seems excessive as the manufacturer’s pipe will have been cut up into shorts and fabricated into specials. Will the manufacturer really be required to be on site for 1 week?”

Response:

Refer to Response to Question 6-2 above.

Question 6-8:

“8. Spec 02510-1.07.D.3 – Will the contractor be able to get paid for material on hand that has been fabricated but cannot be sent to the job site to do scheduling?”

Response:

Material that has been purchased and is stored at a remote secure site owned by the contractor shall be considered materials on hand once the site, security and material is inspected by the owner. Owner reserves the right to inspect the materials at the remote site twice monthly or more frequently upon request.

Question 6-9:

“9. Spec 02510-2.03.A.2 – the intent of AWWA C208 is to give guide lines to fabricate large diameter fittings (typically fittings over 24”). Will wrought steel fittings meeting ASTM A234 be acceptable for fittings 24” and smaller? The plans call out for 12” long radius 90 bends, is the intent to have miter fittings at that size?”

Response:

Refer to Response to Question 6-2 above.

Question 6-10:

“10. Due to the small diameters of pipe, field welding pipe joints will not be an option as the internal welds are inaccessible for touchups. Is it SAWS intent to have flange joints or dresser couplings with harness restraints at all connecting pieces?”

Response:

Refer to Response to Question 6-2 above.

Question 6-11:

“11. Spec 02510 2.12.F – Will SAWS be paying for the inspector to be at the fabricators, coater, and liners site?”

Response:

Refer to Response to Question 6-2 above.

Question 6-12:

“12. Spec 02510 3.01.B – Will this be required as we don’t have any runs on the project longer than 300’?”

Response:

Refer to Response to Question 6-2 above.

Question 6-13:

*“13. Spec 02510 3.04 – the use of heat shrink sleeves on flange joints will only work where two pipe flanges connect. A heat shrink sleeve will not work where dresser couplings, butterfly valves, or and non-standard flange connection is made. **Is there an alternate system proposed to protect those connections?”***

Response:

Refer to Response to Question 6-2 above.

Question 7

Question:

“Hallmark Industrial is a SPFA Certified pipe fabricator working on SAWS projects currently and also have provided fabricated piping in the past. We plan on providing our services to GCs’ bidding the Clayton GST project. We are concerned with the specifications (02510) for steel pipe.

- *Section 1.05. (A). (1). (a). requires all pipe manufacturing, lining, coating operations to be done in one place. This cannot be achieved as the FBE lining is a specialized lining and is done by a few specialized applicators. Hallmark provides pipe, fabrication, testing, lining and coating per contract documents. We would like to request acceptance of fabricator based on 1.05 (A). 1. b.*
- *The spec. section 1.06 (B).6. needs the pipe fabricator to account for deflection of pipe as a result of settlement of the GST. Typically this is addressed by the Design Engineer. If we are required to address deflection and settlement, kindly advise us the settlement of tank with respect to the embedded pipe so we can incorporate the same in our consideration.*
- *The spec. section 2.05 if for Thermal Control Joints. This is for welded joints for pipe laid over 250ft typically. This pipe is FBE lined all joints will be either Flanged or Restrained Coupled. Kindly advise if this section would apply, if so where on the job site.*

Kindly approve Hallmark Industrial as an acceptable fabricator of piping under, 02510-1.05 (A). 1. b. and advise on the other concerns at your earliest.”

Response:

Refer to Response to Question 6-2 above.

Question 8	
<u>Question:</u>	
<p><i>“Ref: Sheets C-SPS-11, 12, M-SPS-3, Valve schedules. M-SPS-4 Control Station #3. The valve schedules call for 12” Butterfly Valves for control Station #3, but the drawing indicates Gate Valves. Which is the correct valve to use?”</i></p>	
Response:	
<p>Gate Valves are to be used at Control Station #3. Valve schedule on Sheet M-SPS-3 has been revised per Addendum No. 4.</p>	

Question 9	
<u>Questions 9-1:</u>	
<p><i>“1. Typical Post Tension Tanks require 6” of #67 stone within +/- half-inch of grade. Please reflect this requirement on sheet T-SPS-4?”</i></p>	
Response:	
<p>Tank Manufacturer shall provide foundation base requirements per Section 13000.</p>	

<u>Question 9-2:</u>	
<p><i>“2. Specification Section 01120 requires the Construction of the 1.5 MG GST within 165 days of NTP. Per SAWS specifications contractor cannot mobilize onsite until submittals for SAWS general specifications 902 and 903 are approved. Contract documents require 30 days for review of all submittals. After submittals are approved contractor will require the following: 5 days for mobilization, 5 days will be required to locate existing utilities, 5 days for Installation of SWPPP measures, 5 days for excavation and backfill of the tank subgrade, 5 days for installation of piping, 5 days for subgrade prep, 100 days for tank construction, 5 days for tank lightning protection and electrical installation. Total days listed are 165 days. This does not take into account fabrication and delivery of materials for the pre-stressed tank after submittals for section 13000 are approved. Construction of the tank will be during the rainy time of year which SAWS has clearly identified allowably rain days. The 165 days previously mentioned does not allow for any rain days during construction. Would SAWS please consider that phase 1 completion be pushed to 200 Days from NTP due to aforementioned scheduling constraints? Please clarify why the proposed water tank is required to be built in 165 calendar days?”</i></p>	

Response:	
<p>Construction Sequence provided in Section 01120 is the suggested construction sequence. Contractor to provide construction phasing and schedule for review and approval by OWNER. Contractual Final Completion is 425 days from NTP.</p>	

<u>Question 9-3:</u>	
<p><i>“3. Specification section 02510 calls for steel pipe fittings to be fabricated to AWWA C208 dimensions. Drawing M-SPS-4 does not appear to show the fittings per the AWWA requirements. Please change the drawings to reflect the correct fitting size and ensure that fittings, valves, ect will fit the pad dimensions?”</i></p>	

<p>Response:</p> <p>Control Station #3 concrete pad is adequately sized for the fittings, valves, etc. All fabricated steel fittings shall be manufactured per AWWA C208 dimensions per Section 02510 and Section 15072.</p>
<p><u>Question 9-4:</u></p> <p><i>“4. Sheets C-SPS-23, 24 show thrust blocks at buried pipe fitting. Specification section 02510 C.1 states thrust blocks are not allowed. Please clarify?”</i></p>
<p>Response:</p> <p>Refer to Response to Question 6-2 above.</p>
<p><u>Question 9-5:</u></p> <p><i>“5. The location of the butterfly valve shown on C-SPS-23 is not the same location as shown on T-SPS-2. Please clarify the location of the butterfly valve and reaction block?”</i></p>
<p>Response:</p> <p>Installation of buried butterfly valve shall be as shown on Sheet C-SPS-23.</p>
<p><u>Question 9-6:</u></p> <p><i>“6. Is the CPS Design complete and all easements obtained? Drawings note that the power for the resident needs to be relocated within 2 months of NTP.”</i></p>
<p>Response:</p> <p>SAWS has started the process of coordination with CPS Energy regarding this task. The coordination is still on-going.</p>
<p><u>Question 9-7:</u></p> <p><i>“7. Could SAWS provide as-built drawings of the Clayton site items that will be demolished? Looking in particular for the electrical items.”</i></p>
<p>Response:</p> <p>Available as-built site plans are provided for reference in Addendum No. 5.</p>
<p><u>Question 9-8:</u></p> <p><i>“8. Does SAWS want any salvage rights to the tank steel that will be demolished?”</i></p>
<p>Response:</p> <p>Per Section 02050 – Demolition, Cutting and Patching, the OWNER shall retain salvage rights to all material and equipment.</p>
<p><u>Question 9-9:</u></p> <p><i>“9. Does the existing water dispenser need to remain active during construction of the new dispenser?”</i></p>

Response:
No. Clayton Facility water dispenser needs to remain active until the proposed Somerset Pump Station water dispenser is operational and accepted by the OWNER.
<u>Question 9-10:</u>
<i>“10. Please define the limits of the proposed curb shown on C-SPS-21? Drawing has a note that points to two locations, wondering if that is all that is required.”</i>
Response:
Proposed curb for the Somerset Facility is located around the new water dispenser station.
<u>Question 9-11:</u>
<i>“11. Is there any sequencing required for the demo at Clayton tank site?”</i>
Response:
There is not an engineering requirement for specific sequencing for the demolition of this site.
<u>Question 9-12:</u>
<i>“12. Sht 19, C-SPS-15, calls out connection detail on C-SPS-22. However C-SPS-24 appears to be the correct detail. Please confirm?”</i>
Response:
Correct. C-SPS-24 is the correct connection detail sheet.

Question 10	
<u>Question:</u>	
<i>“For the existing wells that are to be abandoned and capped, Please provide the well head, casing size and well depth.”</i>	
Response:	
Refer to Response to Question 5 above.	
Question 11	
<u>Question:</u>	
<i>“Ref: Sheets T-SPS-3, 4, and M-SPS-9 Is the tank underdrain piping 4” or 6”? Ref: Proposal Quote Form Item 003. Is there any wastewater service relocation required and if so, what is the extent and where is it?”</i>	
Response:	
The tank perimeter drain is 4” piping. The 6” drain is a separate drain from the Chlorine Building that outfalls at the overflow box.	

There is no known wastewater connection at this location.

Question 12

Question:

“Pre the detail on sheet 27 of 99 welding 24" pipe in the field is not a practical connection. The welding and the field patch of the fusion lining are not practical on this size of pipe. Please provide an alternate method of field joints.”

Response:

Field welding is to be performed as stated in specifications Section 02510 and Section 15072.

Question 13

Question:

*“Second sentence of Specification Section 02510 1.05 A 1 a states:
Pipe manufacturing operations (pipe, lining, and coating) shall be performed at one location. All pipes shall be new and not supplied from inventory.*

Many pipe fabricators do not have the capability to perform fusion bonded epoxy lining in house. Is it acceptable for pipe manufacturers to have outside companies perform fusion bonded epoxy lining?”

Response:

Refer to Response to Question 6-2 above.

Question 14

Question:

“Please see below for our questions related to the bid documents:

Specifications

- *Section 13000, Page 4, Article 1.2.D.3.h, the seismic design values that differ from those provided in the geotechnical report. Please confirm the Ss and S1 values.*

Plans

- *Sheet T-SPS-3, Please confirm the material for the exterior dome handrail.”*

Response:

Ss and S1 values stated in Section 13000, Page 4, Article 1.2.D.3.h should read the following per the Geotechnical Report:

Ss = 0.083g

S1 = 0.026g

Material for the exterior dome handrail shall be stainless steel as noted on Sheet T-SPS-3.

Question 15	
<u>Question:</u>	
<p><i>“In regards to our financial statement, it appears to not be requested in the normal spot in the RFP from previous SAWS proposals, nor is it on the Checklist, but then it is referenced in a couple places in the RFP (below). Should it be included with the original copy or not included at all?”</i></p> <p>2. Proposals shall be a MAXIMUM OF FIFTY (50) PRINTED PAGES. The cover, table of contents, divider sheets, financial statement, Good Faith Effort Plan, Price Proposal, and any other required documents will <u>not</u> count as printed pages.</p> <p>9. Proposals shall include one copy on compact disc (CD) in .pdf format in addition to the required number of hard copies. The CD shall contain the entire proposal package as submitted, excluding the financial statement and Price Proposal, and should be encased in a paper CD envelope, clearly marked with the RFCSP information.</p>	
Response:	
Based on the details of this project, the Financial Statement is not required for this solicitation.	

Question 16	
<u>Question:</u>	
<p><i>“The Specification calls for a 2” overhead dispenser and a 3/4” faucet dispenser which the user selects with a 2 position switch. The specification call s for a 3” MS1000 meter and a 3” RAF On/Off Solenoid valve. The line from the chlorination building is a 2”. Can the Meter and Valve be a 2” sized?”</i></p> <p><i>Where is the meter and On/Off Valve for the water dispenser to be installed?</i></p> <p><i>Is there a 3/4” or 1” On/Off Valve for the line 3/4”?</i></p> <p><i>If the Overhead water line is to be encased in a 4” pipe, does this line need to drain for winter operation?</i></p> <p><i>If the PRV is on the water dispenser line only, does this need to be 3” or can it be a 2”</i></p> <p><i>The Payment Terminal at the front of water dispenser. Is this flush mounted to the wall or is there a rear access to the wall that will allow for connections and coin retrieval?”</i></p>	
Response:	
The following responses are in sequential order based on the questions above.	
Yes, the meter and valve may be 2” in size.	
The meter and On/Off Valve are to be installed behind the water dispenser within the facility perimeter fencing.	
The On/Off Valve is to be ¾”	
The 4” encasement pipe shall be insulated.	

The water dispenser PRV may be 2”.

There shall be a rear access to the wall for connections and coin retrieval.

Question 17

Questions 17-1:

“1. Sheet 60: NDB-1 – NDB-13 is illustrated for New Duct Bank. Referencing Sheet 70 & 75, the power conduits are sized at 3” regardless of content. Instrumentation conduits are sized at 4” with no content shown. Specifications call for Long Radius, PVC coated Aluminum/Steel Rigid Conduit transitions and bends greater than 10 degrees. 3” LR 90 = \$550.00/each, 4” LR 90 = \$750.00/each. Review sizes for cost saving for SAWS and necessity. Estimated cost savings if reduced to actual size needed for most raceways, 1” LR 90 = \$150.00/each.”

Response:

Adjust size of conduits as needed to meet NEC standards. Minimum size of ductbanks is 1-1/2”C.

Question 17-2:

“2. Sheet 60: In relation to question 1, (2) #10, (1) #10G is shown for all power conduits, with the exception of PI-2, P-20, MCCA-1. Review for accuracy in relation to the Over-Current- Protection and connected loads. Majority of the circuits may be reduced to #12.”

Response:

Engineer Design Standards state minimum size is #10AWG Wire. Obtain written permission from SAWS for deviation approval.

Question 17-3:

“3. Sheet 70: NDB- X (I) noted as instrumentation. Will the sections need to be separated by earth?”

Response:

No, just a physical separation between power and instrumentation ductbanks.

Question 17-4:

“4. Sheet 60: NOTE 12; specification 16450 and NEC provide no information for fence grounding in relation to this project. Please provide details to help reduce RFI/RFP during construction due to minimal inclusions and details.”

Response:

Please see NEC 2014 Article 250.194.

Question 17-5:

“5. Sheet 60: NOTE 16; provide detail for lighting to be installed in the area noted. Fixture type and quantity?”

Response:

Please see sheet E-SPS-15, Detail E4, Note #7.

Question 17-6:

“6. Sheet 60: NOTE 17; No illustration. No detail. Provide further information for rack, location, and instrumentation. What is LS#3?”

Response:

Please see Sheet E-SPS-15 for rack details. Please see drawing E-SPS-15 Detail E4 for rack details. LS#3 is referring to Control Station #3.

Question 17-7:

“7. Sheet 60: NOTE 19; see question #4.”

Response:

Please see NEC 2014 Article 250.194.

Question 17-8:

“8. Sheet 60: NOTE 20; this note is illustrated with no detail referencing an instrument, mount, or control cabinet. Please provide details.”

Response:

It is panel CB-01 located on drawings I-SPS-2. Connect to circuit P1-17.

Question 17-9:

“9. Sheet 60: NOTE 21; is illustrated to be by the existing main switchgear, to feed the area. Provide further detail for location, raceways, and mounting.”

Response:

Field locate the location of the mini power zone in the existing switchgear room.

Question 17-10:

“10. Sheet 60 NOTE 28; what leak detectors are being referenced? What work is pending location of leak detectors? What is needed at each leak detectors location?”

Response:

Leak detection is to be provided for chlorine gas inside the chlorine building. Please coordinate exact location of the leak detection with instrumentation drawings and SAWS Construction Manager. The leak detection system for the double containment in the yard has been removed per Addendum No. 4.

Question 17-11:

“11. Sheet 60: Fixture labeled “L(X)”, are they to be fixture “C” from the Lighting Fixture Schedule?”

Response:

Fixture labeled “L(X)” was not found on Sheet 60.

Question 17-12:

“12. Sheet 61: NOTE 1; 1-1/2 conduit exceeds slab thickness in relation to cover and double rebar matting. Please clarify if the raceways will need to be installed in a ductbank styled installation with Long Radius transitions. If so this will roughly require a full excavation to accommodate the many raceway and intersecting areas under the foundation footprint. Allowing above ground raceways with sch. 80 PVC should eliminate issues not only in relation to electrical raceway installation, there is sub-base for bldg foundation to consider. Please advise.”

Response:

Install conduits in a first class workmanship style using best practices and local codes. This is a new building installation, please place conduit underground prior to slab being poured.

Question 17-13:

“13. Sheet 61: NOTE 3; please see question #12.”

Response:

Refer to Response to Question 12 above.

Question 17-14:

“14. Sheet 61: NOTE 8; what is the source and destination of the 2-1/2” conduits? P-33 is a 20A, 1-phase circuit, how many detectors will be connected and what is their locations?”

Response:

Refer to Response to Question 17-10 above.

Question 17-15:

“15. Sheet 61: Symbol NOTE 9; how many pumps and are they 1 or 3 phase? The amounts conflict in the documents.”

Response:

The Owner has requested removal of the backup water supply line for the chlorine building per Addendum 4. The booster pump that was required for the backup water supply line has been removed as well.

Question 17-16:

“16. Sheet 61: Symbol NOTE 16; what does this note have to do with electrical?”

Response:

Refer to Response to Question 17-10 above.

Question 17-17:

“17. Sheet 62: This sheet needs to be reviewed for accuracy. Instrument, raceways, and conductors do not match interconnect diagram. Equipment and instrumentation not illustrated complete. Please coordinate and correct.”

Response:

Instrumentation wire/equipment tags listed on the drawings have been accounted for.

Question 17-18:

“18. Sheet 63: NOTE 2; there is no fixture “AE” illustrated on E-SPS-10. Please clarify what is needed.”

Response:

Delete AE reference and replace with Type X fixture.

Question 17-19:

“19. Sheet 63: Symbol NOTE 2; see E-SPS-15, Lithonia #DMW232120 OR EQUAL is not listed on the Lighting Fixture Schedule. Does this note pertain to Canopy and Racks? Please clarify.”

Response:

The fixture is listed in the detail for the rack (Detail E4, Sheet E-SPS-15) and will not be found on the lighting fixture schedule.

Question 17-20:

“20. Sheet 64: NOTE 2; where and how many downleads are needed? Assume minimal requirements per codes?”

Response:

Coordinate existing number of down leads and provide minimal requirements per code.

Question 17-21:

“21. Sheet 66: “H1” SCHEDULE; EHU-01 & -02 are shown as 1 # of poles, however, SHEET 61: NOTE 6; says to provide 3-phase disconnect. Please clarify.”

<p>Response:</p> <p>Provide EHU-01 and EHU-02 with 3 Phase circuits on panel H1.</p>
<p><u>Question 17-22:</u></p> <p><i>“22. Sheet 66: “P-1” & “P” please verify NEMA rating and if “P” is 200A or 225A.”</i></p>
<p>Response:</p> <p>Provide Nema 4X rating for panel P/P-1. Provide 225 amp panel for panel P and 100 amp sub feed for panel P1.</p>
<p><u>Question 17-23:</u></p> <p><i>“23. Sheet 68: Please review equipment tags and conduit & conductor tags for accuracy. Previously noted areas do not illustrate or correctly illustrate what is to be provided and where.”</i></p>
<p>Response:</p> <p>Instrumentation wire/equipment tags listed on the drawings have been accounted for. Please clarify which items are in question.</p>
<p><u>Question 17-24:</u></p> <p><i>“24. Sheet 69: Please review this drawing for purpose and relevance. Information is incomplete.”</i></p>
<p>Response:</p> <p>This is the existing ductbank schedule. It is shown for reference only.</p>
<p><u>Question 17-25:</u></p> <p><i>“25. New Chemical Building is to be installed using PVC coated Aluminum Rigid Conduit (ARC) above AFF, and Long Radius PVC coated Steel or PVC coated ARC sweeps for transitions from underground to AFF. All underground raceways to be 1-1/2” minimum, transitioning to different sizes to the source and destination. All raceways to be sealed in and out of chemical areas. This style of installation has a drastic impact on cost of construction. SAWS typically require Sch. 80 PVC conduit and fitting for these areas and conduits to be sized according to contents. Please review and consider cost impact to the owner.”</i></p>
<p>Response:</p> <p>Size conduits according to NEC. Minimum conduit size is 1-1/2”C. Please provide written permission from Owner stating that the above mentioned deviation is acceptable.</p>
<p><u>Question 17-26:</u></p> <p><i>“26. In relation to question 25, please verify seals are to be provided for raceways entering and exiting the area in reference?”</i></p>

Response:

Yes, seals are necessary to prevent the transfer of gasses between areas via conduit.

Question 17-27:

“27. Line Item #3; “Residential Electric Overhead Power, Existing Water Service & Existing Wastewater Service Relocation and Reconnection.” Please consider an allowance for this bid item. CPS Energy will not provide cost until work order is issued. Please clarify if the existing will be removed and temporary power to be provided during transition.”

Response:

Refer to Addendum No. 4 for revised price proposal and Section 01200 Measurement and Payment.

Question 18

Question:

“Drawing M-SPS-10 (Sheet 54 of 99) shows an “existing” spool piece with a 4” flanged connection in Detail “A” to be rotated down 45-degrees from horizontal (or 315-degrees). The spool piece does not exist. The pipe support also does not exist. Please clarify how the chlorine injection is to occur at Control Station No. 1.”

Response:

Plans prepared by others for the Somerset Facility High Service Pump Upgrades Project shows the location for the existing chlorine injection at Control Station No. 1. Control Station No. 3 is shown on Sheet M-SPS-10.

Question 19

Question:

*“Ref: Spec 02510
Could the welding of the 24” buried steel pipe be done outside rather than inside? The fusion bonded epoxy will be difficult to patch and inspect in the 24” piping. Could flanged pipe or ductile iron pipe be an option?
Ref: Sheets C-SPS-19, 20, M-SPS-9, 10.
Please confirm that there are 10 concrete polymer pull boxes, and 8 concrete polymer leak detection boxes required for the project. Please provide the sizes of these boxes and the location of the leak detection boxes.
Will the 12” casing in the roadways need to be incorporated into the leak detection boxes?”*

Response:

**Refer to Response to Question 6-2 above.
Leak detection system has been removed from the project per Addendum No. 4.**

Question 20	
<u>Question:</u>	
<p>“Ref: Sheets C-SPS-11, 12, M-SPS-3, Valve schedules. M-SPS-4 Control Station #3. The valve schedules call for 12” Butterfly Valves for control Station #3, but the drawing indicates Gate Valves. Which is the correct valve to use?”</p>	
Response:	
<p>Refer to Response to Question 8 above.</p>	

Question 21	
<u>Question:</u>	
<p>“General Conditions, Page 29, Article 5.8.1 requires that all materials that come in indirect contact with potable water must conform to ANSI/NSF 61. This requirement (NSF 61 Certification) is impractical for many of the components of the prestressed concrete ground storage tank, such as the (a) concrete and shotcrete, (b) interior stainless steel ladders, (c) wall man-ways, and (d) internal safety railings. TCEQ regulations (Chapter 290, Subchapter D, Rule §290.43 Water Storage) state that all newly installed coatings must conform to ANSI/NSF 61 and be certified. This same requirement was in the same article in an earlier version of the SAWS General Conditions contained in the Bid Documents for the Old Pearsall Road Pump Station Phase I project (SAWS Job No. 13-8610-220) bid in September of 2014. Prior to the bid on that project, the following question was asked: Can clarification on this article be provided that, in regards to the prestressed concrete ground storage tank, the only ANSI/NSF requirements are those contained in the TCEQ regulations? SAWS’ response to that question, set forth in Addendum No. 3, Question/Answer No. 12 (copy attached) was the following: The intent of the General Conditions is to cover protective coatings. The components listed above are not coated and thus are not included under this article. Only ANSI/NSF requirements contained in TCEQ regulations are relevant to the tank.</p> <p><u>Question:</u> Can confirmation please be provided that the intent of the General Conditions is as what was stated by addendum on the aforementioned SAWS job, that is to cover protective coatings and that only ANSI/NSF requirements contained in TCEQ regulations are relevant to the tank?</p> <p>Section 13000, Page 2, Paragraph 1.2.B.2 lists Preload, Inc. as a prequalified tank manufacturer. We have changed our form of business entity from a corporation to a limited liability company. Therefore, can “Preload, Inc.” please be changed to “Preload, LLC”?”</p>	
Response:	
<p>As stated above, The intent of the General Conditions is to cover protective coatings. The components listed above are not coated and thus are not included under this article. Only ANSI/NSF requirements contained in TCEQ regulations are relevant to the tank.</p> <p>Preload, LLC shall be considered as a prequalified tank manufacturer.</p>	

Question 22	
<i>Question:</i>	
<p>“For the SAWS-DSP Clayton Tank project, there are (2) specifications in regards to steel pipe, Spec #2510 and #15072. Please confirm we are to comply with spec #02510, which appears to be the main specification in regards to the steel pipe for this project. Please confirm all of the 24" Steel pipe for this project must have at least a 24.00" inside diameter based on spec 2510/2.01/C.”</p>	
Response:	
<p>Refer to Response to Question 6-2 above. Section 02510 refers to buried pipe while Section 15072 refers to above ground pipe. Per Section 02510, the listed pipe diameter is the inside diameter.</p>	

Question 23	
<i>Question:</i>	
<p>The contract drawings do not detail what needs to be done with existing electrical panels and GenSet on South side of Somerset Pump Station. Should we assume that this equipment is still in service since it has a meter connected? Should it be taken out of service since a new 24" pipe runs directly under it? Should the Genset and equipment be demolished or unhooked and turned over to owner?</p>	
Response:	
<p>The existing electrical panel and GenSet on the Southside of Somerset Pump Station is scheduled to be removed by the existing construction contract. It will need to be removed prior to construction of the 24" yard piping and Control Station No. 3.</p>	

Question 24	
<i>Question:</i>	
<p><i>Duct Banks:</i> NDB-9 through NDB-13 Are not shown in the duct bank details on sheet E-SPS-14. What are the requirements for these duct banks? Please Advise.</p>	
Response:	
<ul style="list-style-type: none"> • NDB-9 :Please Provide NDB-9 with the same items that are in NDB-3(I). • NDB-10: Please provide duct bank NDB-10 with (2) 2" C (1- for circuit P1-14. 1-Spare) for Power and (2) 2" C for instrumentation. • NDB -11 through NDB-13 are shown on Sheet E-SPS-19 	

Question 25*Question:*

- 1) *Sheet 75 shows a motor starter to be provided by the fan supplier with exhaust fans 01-04 capable of 2-speed operation controlled by a 2stage thermostat. The HVAC Sequence of Operation on sht 55 and the fan schedule on sht 56 is very different than the electrical plans. Sheet 56 Fan Schedule control notes C1 & C2 (shown as another C1 but assumed to be C2) say On-Off switched control is by the electrical contractor and is to be a variable 0-10Vdc signal from a room temp sensor. Please clarify the responsible division for EF starters/VFDs, the proper thermostats needed, and the intended sequence of operation.*
- 2) *The overhead power line relocation is not fully identified on the electrical plans. Note 25 on sht E-SPS-4 indicates a power pole is to be relocated but does not show all the other electrical line relocation & pole demolition work shown on sht C-SPS-5. Please provide additional information on the electrical plans.*
- 3) *Note 26 on sht E-SPS-4 indicates that a 480V mini power zone is to be installed at the entry gate location. There is no duct bank routing shown from new panel H1 to the entry gate for this power feed. A suggestion for this is:
 - a. *Show the 480V power feed to the gate area for the mini power zone OR*
 - b. *There are spare circuits in new panels P & P1 for any gate power area needed. Eliminate the power zone and feed the gate area equipment from panels H1, P or P1 as needed.**
- 4) *Spec section 16722 - CCTV Surveillance & Security System and section 17930 - Security & Access Control System appear to cover the same or very similar scopes. The acceptable and/or pre-approved contractors listed in each section are also different. Please clarify what spec section is to be followed and what companies/contractors are acceptable for this scope of work.*

Follow up on the question Marcus Grace submitted earlier today, we would like to include the following in the above list of questions:

- 5) *The contract drawings do not detail what needs to be done with existing electrical panels and GenSet on South side of Somerset Pump Station. Should we assume that this equipment is still in service since it has a meter connected? Should it be taken out of service since a new 24" pipe runs directly under it? Should the Genset and equipment be demolished or unhooked and turned over to owner?*

Response:

- 1) **The fan supplier is to supply the starter and installed by the electrical contractor. The thermostat needed is the one stated by the HVAC drawings(Sheets 55 and 56. And the sequence of operation is as stated in the HVAC drawings.**
- 2) **Over head electric power line relocation is to be coordinated with CPS Energy as specified in Addendum No. 4. Sheet C-SPS-5 shows the relocation of one existing power pole.**
- 3) **Note 26 also says to provide a direct buried conduit for panel H1 to mini power zone.**

Field route location of direct buried conduit.

The mini power zone is being supplied to power to the gate and all of the items associated with the gate. Trying to run wire directly from the panels in the building to the gate area will result in a voltage drop of more than 3% which is not acceptable per NEC code 210.19(A).

- 4) Spec Section 17930 is correct.**
- 5) See response to Contractor Question No. 23.**

Question 26

Question:

Adm #4 adds reference to ACMs at the Somerset Facility Site, specifically pointing to the Chlorine Bldg Window Glaze with revisions to Dwg C-SPS-6 Note 12.

Adm#5 removed the reference to Asbestos Containing Materials (ACM) at the Somerset Facility Site, per the changes to the Spec 02504. The Spec changes appear to indicate that ACMs are only found at the Clayton Facility Site (19845 Clayton St) in the Window Glaze.

Adm#6 deletes reference to the ACMs at the Clayton Facility Site on Dwg C-CPS-5, with revisions to Note 9 which deleted reference to ACMs.

All the while, the Dios Dada Environmental Reports dated Nov 5, 2014 have identified Asbestos Containing Materials (ACM) at both the Clayton Facility Site (in Window Glaze) and at the Somerset Facility Site (CMU/ Grout at Chlrn Bldg).

This all might simply be a mix up of the two facility addresses. Please confirm where ACMs are to be abated by the Contractor.

Response:

The identified asbestos material is as specified in Section 02504 in Addendum No. 5. No buried piping at the Clayton Facility was checked for asbestos coating. Asbestos material at Somerset PS was initially located around the opening for piping within the chlorine building. It appears that the piping and the previously identified asbestos material has been removed.

In Addendum No. 4 Sheet C-SPS-6 Note 12, delete all references to asbestos.

END OF CONTRACTOR QUESTIONS