EAST BAY MUNICIPAL UTILITY DISTRICT LIQUID CARBON DIOXIDE STORAGE TANK AND VAPORIZER SYSTEMS REQUEST FOR QUOTATION NO. 2117

Questions and Answers June 23, 2021

Question and Answer No. 1

<u>Section 01 33 00-11</u> – Subsection 2.8 – no calculations will be submitted except for PE seismic anchorage calcs. Please confirm that this is what is expected.

Answer - Correct, only seismic anchorage calculations, stamped by a California PE is required.

Question and Answer No. 2

<u>Section 01 81 02</u> – Seismic criteria – the sds values for Orinda and Walnut creek are high (Lafayette is ok). Tanks will require redesign for higher cost/lead-time if we cannot lower the sds values for a STD tank for those two sites.

Answer - S_{DS} values cannot be changed. These sites are near actively seismic faults.

Question and Answer No. 3

<u>Section 43 08 0, Subsection 2.1.B</u> – Exception for Tank dimensions – Our STD Tanks differ in size (shorter, but larger in diameter by a little more than 2 ft). Please change the specification to allow larger diameter tanks.

Answer - A 2' larger diameter tanks are acceptable to the District. The District will issue an addendum to cover this change.

Question and Answer No. 4

<u>Section 43 08 01, Subsection 2.1.C.</u> – Exception for Doghouse door width – STD doghouse door width is larger than specified – will be 2.33ft actual width. Please change the door width to be 2.33 ft. or less.

Answer – A Doghouse door with width of 2.33 ft is acceptable. The District will issue an addendum to cover this increase in door size.

Question and Answer No. 5

<u>Section 43 08 01, Subsection 2.4.B.3.b</u> – Exception for <u>outer tank</u> material – STD material is CS, painted with 1 coat primer AMERCOAT 370 two part epoxy at 5 mils NDFT; 1 coat top coat RAL 9016 high gloss white AMERCOAT 450H two part urethane at 3 mils NDFT. Non-STD SS tank will incur additional cost. The Chart standard for the outer tank is Carbon

Steel. There is a significant cost increase to use stainless steel. If Carbon Steel is acceptable, please change the specifications.

Answer – Carbon steel with a minimum of Dry Film Thickness (DFT) coating system of 12 mils is acceptable. The District will issue an addendum to cover this change.

Question and Answer No. 6

<u>Section 43 08 01, Subsection 2.4.B.3.a</u> – Exception – Tank Insulation type is a proprietary insulated foil, not composite. Please modify the specs. to allow insulated foil.

Answer – Insulated foil for tank installation is acceptable. The District will issue an addendum to cover this change.

Question and Answer No. 7

<u>Section 43 08 01</u> – Exception – <u>CO2 tank-mounted piping</u> is SCH10, not SCH 80. All Piping in Doghouse to be SCH10. Non-STD piping will incur additional cost. Valves do not go by SCH 80 criteria. Interconnecting piping not under consideration at this time. Please change the specifications to allow SCH 10 ss for the CO2 Tank mounted piping.

Answer – No exception, all CO2 tank-mounted piping need to be SCH 80.

Question and Answer No. 8

<u>Section 43 08 01-Subsection 2.4.B.9.e</u> – Exception – Spec indicates install location of recondensing unit to be outside of doghouse. Our tank assemblies have condensing units inside doghouse. Also, Enclosure is CS, painted - complies with Heatcraft standard equipment. Please change the specifications to allow the recondensing unit to be inside the doghouse.

Answer – The recondensing unit need to be inside the doghouse. Carbon steel enclosure with high-build epoxy coating is acceptable. The District will issue an addendum on this change.

Question and Answer No. 9

<u>Section 43 08 01</u> – Clarification – Remote fill Terminal specified for Orinda WTP only? There is indication of one needed at Walnut Creek (per the drawing). Please Clarify – need to know which (if not all) locations is to have a Remote Fill Terminal. Please clarify which locations will require Remote Fill.

Answer – Only Orinda WTP has a remote fill terminal.