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From: Devine, Gregory (DEP)
To: CWSRFWaiver
Cc: [redacted]
Subject: Product Availability Claim - Waiver Request [Massachusetts SRF: Massachusetts Water Resources Authority - MA CWSRF No. 6822]
Date: Thursday, December 21, 2023 11:52:25 AM
Attachments: Attachment_1_GCLetter_December2023.pdf
Attachment_2_VendorCommunication.pdf
Attachment_3_ProductSpecification_Conformed.pdf
Attachment_4_Product_CatalogSheets.pdf
Attachment_5_ProductPricing_Estimate_June2023.pdf
Attachment_6_ProjectDrawings.pdf
Attachment_7_ProjectCriticalPath_Narrative_December2023.pdf

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Good Morning,

On behalf of the Massachusetts Water Resources Authority (MWRA), the Massachusetts SRF program respectfully submits a claim for product availability associated with the procurement and installation of 3-inch diameter stainless steel double offset butterfly valves. The MWRA has engaged a project team consisting of a consultant engineer and general contractor to complete the Clarifier Rehabilitation Phase II project at its Deer Island Wastewater Treatment Facility. The butterfly valves are necessary components to the delivery and regulation of low pressure, compressed air for mixing of wastewater flow within the four (4) primary clarifier influent channels. As a SRF funding recipient, the MWRA and its current project are subject to the requirements of the standing American Iron & Steel provisions. The project team has not identified a supplier-manufacturer team capable of delivering the specified AIS compliant devices, in the necessary quantity, to the project site. Therefore, the MWRA seeks relief from the requirements to offset gaps in current domestic manufacturing and avoid impacts to the project schedule.

Summary Information:
Product: 3-inch stainless steel double offset wafer butterfly valves

- See refer to contract specification section, "15100 Valves" (*attached*)
- See refer to [redacted] product catalog sheets (*attached*)

Product Function: "Low pressure compressed air is utilized to provide mixing of the wastewater flow in the four (4) primary clarifier influent channels. The proposed stainless steel air valves are used to shut off the air flow to the submerged air diffuser grids to adjust the air in the channel and to take diffuser grids out of service."
Total Project Cost: [redacted]
Total Materials Cost: [redacted]
Anticipated Product Cost: approx. [redacted]

We have provided the necessary documents and information in support of this claim, attached hereto; and the Massachusetts SRF and the project team are available to provide additional detail and/or supplement the evidence as needed:

- Attachment 1 – General Contractor Request Letter (*December 12, 2023*);
- Attachment 2 – Vendor Communication (*multiple*)
- Attachment 3 – Project Specification Section 15100 (*conformed*);
- Attachment 4 – Product Material Catalog Sheets (*Pratt HP Series*);
- Attachment 5 – Product Pricing Estimate (*June 2023*);
- Attachment 6 – Project Drawings (*valve installation locations*);
- Attachment 7 – Project Narrative & Critical Path (*Narrative update December 11, 2023*)

Thank you for your continued support of important infrastructure improvements across the Commonwealth. The MWRA's Deer Island Clarifier Rehabilitation Phase II Project is a vital and operationally significant upgrade to its wastewater treatment facility; providing reliable, consistent treatment for numerous communities in Eastern Massachusetts. We look forward to a favorable response in the near future.

Respectfully,
Greg

Gregory Devine, P.E. (he/him/his)
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designed to meet an appropriate MSS or ISO standard to allow mounting to secondary gear reducer. Ring gear shall ride on ball bearings. Stem nut shall be bronze alloy, shouldered, and ride on needle bearings. Housing components shall be O-ring sealed to exclude moisture and dirt, constructed of Type 316 stainless steel. Gear housing bodies for thermoplastic valves may be cast aluminum or fabricated steel to reduce weight. Manual operator input effort to the hand wheel shall be a maximum of 40 lbs for operating the valve from full open to full close, under any conditions. Maximum hand wheel size shall be 24-in diameter.

L. Additional valve actuator requirements are included with the individual valve types and as noted in Paragraph 1.02 above.

M. Position indication and direction of opening arrows shall be embossed, stamped, engraved, etched, or raised castings. Decals or painted indications shall not be allowed.

N. Unless otherwise noted, valves larger than 3-in nominal diameter shall be provided with position indicators at the point of operation.

2.04 BUTTERFLY VALVES: TAG TYPE NOTED BELOW

A. Butterfly Valves for Air Service: Tag Type V40.

1. Butterfly valves and operators for low pressure air piping shall conform to AWWA C504, except as specified herein. Valves shall be wafer style. Valves for dead end service shall be threaded to accept bolts on both sides. Valve body shall be Type 316 stainless steel. Disc shall be bronze, semi steel or ductile iron ASTM A536 with a disc edge of Monel, Type 316 stainless steel, or welded nickel machined to a smooth surface. Valve shall have an air profile (undercut) disc. Resilient seats shall be reinforced EPDM.

2. Air butterfly valves shall be suitable for 250 degree F continuous and 300 degree F intermittent operation.

3. All valves shall be furnished with self-lubricated bearings of TFE coated stainless steel. Shaft seals shall be provided to prevent air leakage and to protect bearings from internal or external corrosion. Use EPDM or Buna N O-rings or self-adjusting packing.

4. Shafts shall be one piece and shall be of Type 316 stainless steel. Shafts shall be finish ground and polished to minimize bearing and shaft seal wear. Shafts of 8-in and larger valves shall have a non-adjustable thrust collar.

5. Valves 8-in and smaller with manual operators shall have 10 position levers. All manually actuated valves 10-in and larger shall be operated using a geared actuator. All units shall have adjustable open and closed position stops with provision to prevent accidental adjustment changes. Operating shaft shall be supported axially and radially at input end by permanently lubricated bronze thrust and sleeve bearings. Actuators for throttling service shall conform to AWWA C504.

6. Butterfly valves for air service shall meet ANSI B16.104 and MSS SP 67, except as modified herein. They shall be manufactured by:

[redacted]

[redacted]
d. Or equal.

B. Butterfly Valves for Water Service: Tag Type V40/V41.

1. Butterfly valves and operators up to 72-in diameter shall conform to AWWA C504, Class B, except as specified herein. Manufacturer shall submit an affidavit of compliance stating that valves have been manufactured and tested in accordance with AWWA C504 and specifically listing all exceptions. Valves shall have a minimum 150 psi pressure rating or higher as noted on Drawings or in this Section and be manufactured by:

[redacted]
d. Or equal.

2. Butterfly valves for above grade service shall be flanged end with face to face dimensions in accordance with Table 2 of AWWA C504 for short-body valve. Valves for dead end shut off service shall be flanged type.

3. Valve seats shall be full resilient seats retained in body or on disc edge in accordance with AWWA C504. Valve discs shall be constructed of cast iron, ASTM A 48, Class 40; Ni-resist, ASTM A 436, Type 1; or ductile iron, ASTM A 536, Grade 65-45-12.
   a. When resilient seats are attached to body, discs shall have Type 316 stainless steel seating edges. When resilient seat is attached to disc, it shall be fastened with a one piece Type 316 stainless steel retaining ring, Type 316 stainless steel self-locking set screws and a mating Type 316 stainless steel ring shall be installed in valve body. Resilient seats shall be EPDM. Seats shall be fully adjustable and replaceable with valves in place using no special tools.

4. Valve body shall be constructed of close grain cast iron per ASTM A 126, Class B with integrally cast hubs for shaft bearing housings of through boss-type. Permanently self-lubricating body bushings shall be provided and shall be sized to withstand bearing loads. Stuffing box of liberal dimensions shall be provided at operator end of vane shaft.
   a. Packing shall be of self-compensating V-type. A sealing element utilizing O-rings shall also be acceptable for up to and including 24-in valves.
   b. Packing shall be held in place by a bolted corrosion resistant retainer plate or gland; retainer clips are not acceptable.
   c. Replacement of seals, for all size butterfly valves, shall not require removal of valve from the line.

5. Valve shaft shall be of Type 316 stainless steel and designed for both torsional and shearing stresses when valve is operated under its greatest dynamic or seating torque. No reductions of shaft diameter will be allowed except at operator connection. Any reduction shall have a full radius fillet.

6. Butterfly valve actuator shall conform to requirements of AWWA C504, insofar as applicable and as specified herein. Gearing for actuators where required shall be totally enclosed in a gear case in accordance with AWWA C504. Actuators shall have permanent indicators with raised or engraved marks to show position of valve disc.
   a. Where noted on the Drawings, limit switches shall be provided on the valve actuators to provide valve position indication to the PICS. Switch shall be adjustable to trip at