NOTE:
This waiver submission may include references to proprietary items and brand name products. These references have been retained in order to provide context for the waiver submission. EPA does not evaluate a waiver based on a proprietary item but reviews the performance-based specifications for the project/products. As such, any references to brand or proprietary items are reviewed on an "or equal" basis by EPA.

Items and pages may have been intentionally redacted or excluded by the EPA. Contact CWSRFWaiver@epa.gov for more information if necessary.

July 29, 2024

Re: AIS Waiver for a Knife Gate Valve (KGV) – SRF WW180431

Palm Coast WWTF No.2 Expansion

Attached are the relevant communications pertaining to the KGV. Based on the current shipping date of November 2024, the valve's delivery would impede the timely commencement and completion of the project. To ensure uninterrupted progress and adherence to our project timeline, we respectfully request an AIS waiver for this valve. Thank you for your assistance on this matter.

A. All valves shall be of standard manufacture and of highest quality materials and workmanship.

B. It is the intent of these Specifications that all valves of a particular type shall be the product of one manufacturer regularly engaged in the continuous production of that size and type of valve.

C. Valves shall be suitable for safe working pressure as required in each application. Manufacturer's name, service, and pressure marking shall be cast into the body.

D. Unless otherwise indicated or specified, all valves two inches and smaller shall be all stainless steel; valves over two inches shall be iron body, fully bronze or bronze mounted.

E. Valves referred to as "standard" shall be used for services up to 150 psi. Valves referred to as "extra heavy" shall be constructed for services greater than 150 psi and less than 250 psi.

F. Where required for satisfactory operation of valves, provide valve operators, extension stems, stem guides, cast iron valve boxes, floor boxes, chain wheel with chain, handwheels, operator floor stands, position indicators, and other valve appurtenances. Extension stems shall be complete with guide bearings, wrench nut, and tee handle wrench. All machinery stuffing boxes shall be packed with material selected for the service intended. Maintain all packing until final acceptance by the OWNER. Valve operator location shall be as required for easy access and operation shall be subject to approval by the ENGINEER.

G. Valves shall be installed in all pipe ahead of fixtures, appliances and equipment not furnished with stops, and elsewhere as required for proper control and isolation of sections of systems for maintenance purposes.

H. See Appendix A - City of Palm Coast Approved Manufacturers' List.

2.02 GATE VALVES

A. Gate Valves Two and One-Half Inches and Smaller

Standard gate valves 2½" and smaller shall be [redacted] or equal. Standard gate valves 2½" inches and smaller for copper pipe shall be [redacted] or equal. Extra heavy gate valves 2½" and smaller shall be [redacted], or equal.

B. Gate Valves Three Inches and Larger

Gate valves 3" and larger shall conform to AWWA C509. The valves shall be iron body, resilient seated non-rising stem with O-ring seals and end connections as indicated on the Drawings. Valves shall open counterclockwise.

C. Knife Gate Valves (KGV)

1. Knife gate valves shall be resilient seated, full, round port design for high flow capacity and minimal pressure drop. The valve body port area shall not be less than eighty percent (80%) of the nominal pipe diameter. Valves shall be designed for positive drip-tight shutoff at 150 psi. All materials of construction shall be as specified herein and shall be suitable for use with raw wastewater. The valves shall be equipped with a floor stand operator with handwheel and extensions where shown on the Contract Drawings. Provide bevel gear actuators for valves fourteen (14) inches and larger.

2. Body and Gate

a. The body material shall be carbon steel ASTM A-36 with a liner of Type 316 stainless steel ASTM A-240.

b. The body shall have a lugged design drilled tapped in accordance with ANSI 150 standards.

c. The gate shall be constructed of Type 316 stainless steel in accordance with ASTM A-240, finish ground on each side to prevent packing or seat damage.

2.03 GLOBE VALVES

A. Globe and Angle Valves

Globe and angle valves shall be of suitable design to provide the full pipe area through all parts of the valve and to operate with pressure on either side of the seat. Valves shall be of the inside-screw-type seat yoke to ensure square seating of the disc.

B. Standard Globe Valves