REQUEST FOR A WAIVER FROM THE AMERICAN IRON AND STEEL REQUIREMENT

This request for a waiver from the American Iron and Steel requirement was completed by The Fort Wayne City Utilities and its consultants to document a need to use foreign made iron/steel component and verify that the conditions of Section 436 are met.

This waiver request is necessary due to (highlight):

- Public Interest (complete sections A and B below)
- Availability (complete sections A and C below)
- Cost (complete sections A and D below)

Section A – General

The City of Fort Wayne closed a loan in the amount of $25,000,000 with the IFA on December 23, 2024 (with Non-Equivalency/ Non-Federal funding). This financing includes the Renewable Natural Gas Facilities project, to improve the existing Methane Use system. When complete the system will be able to remove CO2 and other contaminants from the biogas to provide a high-quality natural gas, used to reduce overall energy costs.

The Renewable Natural Gas Facilities project includes the installation a packaged biogas membrane separation system, media, and all appurtenances. The valve specified for this system is a dual-disc, spring-loaded 4" check valve which is to be installed on the natural gas line serving a 1.5 MW generator. The purpose of the valve is to prevent Renewable Natural Gas backflow into gas service lines at the facility.

Section B – Public Interest (N/A)

Why is the use of the product in the public interest? For example, is the use of a foreign made iron/steel component necessary because of compatibility with existing components in the wastewater system or other reason?

Section C – Availability

Describe requirements in the project plans, specifications or permits which describe the required quantity and quality of the product:

- Product requirements: Specifications for the check-valve are included in this document.
- The project is currently planning on being operational by October 2026.
- The contractor reached out to four separate vendors ([redacted]). All stated they could not meet the AIS requirement for the specified valve.
- Quantity: One dual-disc, spring-loaded 4" check valve
- Domestic product timelines:
  - *n/a*
- Nondomestic product Timeline 4-6 weeks
  - [redacted]

Section D – Cost (N/A)

Cost of project with domestic components $_____

Cost of project with foreign made components $_____

Will the use of domestic components increase the project cost by more than 25%?

___Yes ____No

If No, cost is not a valid basis. If Yes, attach a detailed cost comparison of the domestic and foreign made options.

[redacted] [redacted]

SECTION 400565.23 - SWING CHECK VALVES

PART 1 - GENERAL

1.1 DESCRIPTION

A. Section Includes: Swing check valves.

1.2 MEASUREMENT AND PAYMENT

A. This item is to be included in overall Project cost and not bid as a separate Work item.

1.3 REFERENCES

A. Related Requirements:

1. Section 099679 "Atmospheric Protection and Plant Service Areas Coatings" Coating and touchup of shop-primed surfaces with primer.
2. Section 400551 "Common Requirements for Process Valves": Basic materials and methods related to valves commonly used for process systems.

B. Coordination:

1. Section 400551 "Common Requirements for Process Valves."
2. Coordinate Work of this Section with piping and equipment connections as specified in other Sections and as indicated on Drawings.

1.4 QUALITY ASSURANCE (NOT USED)

1.5 SUBMITTALS

A. Action Submittals - Comply with Section 400551 "Common Requirements for Process Valves".

1. Product Data: Submit manufacturer's catalog information, indicating materials of construction and compliance with indicated standards.
2. Shop Drawings (NOT USED).
3. Samples (NOT USED).
4. Delegated Design Submittals (NOT USED).

B. Informational Submittals:

1. Certificates:

a. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.

2. Test and Evaluation Reports (NOT USED).
3. Manufacturer's Instructions (NOT USED).
4. Source Quality-Control Submittals: Indicate results of factory tests and inspections and provide required certifications.
5. Field Quality-Control Submittals: Indicate results of Contractor-furnished tests and inspections.
6. Qualifications Statement:

    a. Submit qualifications for manufacturer.
    b. American Iron and Steel (AIS): Submit certification indicating compliance with AIS requirements.

7. Manufacturer Reports (NOT USED).
8. Sustainable Design Submittals (NOT USED).
9. Special Procedure Submittals (NOT USED).

C. Closeout Submittals:

1. Operational and Maintenance Data (NOT USED).
2. Project Record Documents: Record actual locations of piping, valves and other appurtenances, connections, and centerline elevations.
3. Training Material (NOT USED).
4. Warranty Documentation.
5. Software (NOT USED).
6. Bonds (NOT USED).
7. Maintenance Contracts (NOT USED).
8. Sustainable Design Closeout Documentation (NOT USED).

D. Maintenance Material Submittals

1. Spare Parts (NOT USED).
2. Extra Stock Materials (NOT USED).
3. Tools (NOT USED).

1.6 QUALIFICATIONS

A. Manufacturer: Company specializing in manufacturing products specified in this Section with minimum five years' experience.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Comply with Section 400551 "Common Requirements for Process Valves".

B. Inspection: Accept materials on Site in manufacturer's original packaging and inspect for damage.

C. Store materials according to manufacturer instructions.

D. Protection:

[redacted] [redacted]

1. Protect materials from moisture and dust by storing in clean, dry location remote from construction operations areas.
2. Protect valves and appurtenances by storing off ground.
3. Protect valve ends from entry of foreign materials by providing temporary covers and plugs.
4. Provide additional protection according to manufacturer instructions.

PART 2 - PRODUCTS

2.1 SWING CHECK VALVES 4-INCH AND LARGER

A. Manufacturers:

[redacted]

6. or approved equal.

B. Description:

1. Comply with AWWA C508.
2. Size: 4 inches and larger.
3. Type: Swing, metal disc, with hinge shaft extended from body, sealed with stuffing box, packing and gland. Furnish outside lever and control specified below.
4. Working Pressure: 175 psig 4 to 12-inch diameter
5. Maximum Fluid Temperature: 150 deg F.
6. Disc Controller:

    a. Adjustable weight.

7. Mounting: Horizontal or vertical.
8. End Connections: Flanged, ASME B16.1.

C. Materials:

1. Body and Cover: Ductile iron, ASTM A536.
2. Disc: Ductile iron, ASTM A536.
3. Seat: Field replaceable, Type 304 stainless steel.
4. Cover hardware: 316 stainless steel.
5. Chamber and Plunger: Bronze, ASTM B62.
6. Hinge Shaft and Key: Stainless steel
7. Hinge Shaft Gland: A582 Type 416 Stainless Steel.
8. Packing and O-Ring: Buna N.
9. Grease Fittings: 316 stainless steel.
10. Rubber Components: Buna-N.
11. Connecting Hardware: Type 304 stainless steel.

[redacted] [redacted]

D. Finishes: As specified in Section 400551 "Common Requirements for Process Valves".

2.2 SWING CHECK VALVES 3-INCH AND SMALLER

A. Manufacturer:

1. [redacted]
2.

B. Description:

1. Comply with MSS SP-71, 80.

C. Finishes: As specified in Section 400551 "Common Requirements for Process Valves".

2.3 SOURCE QUALITY CONTROL

A. Section 400551 "Common Requirements for Process Valves".

B. Testing:

1. Hydrostatically test check valves at twice rated pressure according to AWWA C508.
2. Permitted Leakage at Indicated Working Pressure: None.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that field dimensions are as indicated on Drawings.

B. Inspect existing flanges for nonstandard bolt-hole configurations or design and verify that new valve and flange mate properly.

3.2 PREPARATION

A. Thoroughly clean valves before installation.

B. Surface Preparation:

1. Touch up shop-primed surfaces with primer as specified in Manufacturer's standard.
2. Solvent-clean surfaces that are not shop primed.
3. Clean surfaces to remove loose rust, mill scale, and other foreign substances by power wire brushing.
4. Prime surfaces as specified in Manufacturer's standard.

3.3 INSTALLATION

A. According to AWWA C508 and manufacturer instructions.

B. Dielectric Fittings: Provide between dissimilar metals.

3.4 FIELD QUALITY CONTROL

A. Inspection:

1. Inspect for damage to valve lining or coating and for other defects that may be detrimental as determined by Architect/Engineer.
2. Repair damaged valve or provide new, undamaged valve.
3. After installation, inspect for proper supports and interferences.

B. Pressure Testing: As indicated in piping schedule.

3.5 CLEANING

A. Keep valve interior clean as installation progresses.

B. After installation, clean valve interior of soil, grit, loose mortar, and other debris.

END OF SECTION 400565.23