



NR-COGEN-CM
Construction Management Services for North River
Cogeneration and Electrification
AECOM
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T 212.377.8693

Revised January 24, 2019

Via email to: Timothy P. Burns, P.E.
NYS AIS Coordinator
CWSRFinfo@efc.ny.gov

NYS Environmental Facilities Corporation

Subject: AIS Availability Waiver Request (Lubricated plug valves)
New York City Department of Environmental Protection
North River WWTP, WP-164
Contract NR-38, Cogeneration and Electrification
Registration No. 20171426056
SRF Project No. C2-5234-28-00

Dear Mr. Burns:

Under contract with New York City Department of Environmental Protection (NYC DEP), AECOM provides construction management services for the NYC DEP for the Cogeneration and Electrification program at the North River Wastewater Treatment Plant. I am the Resident Engineer overseeing the performance of work under Construction Contract NR-38.

Under this Contract NR-38 with NYC DEP, Yonkers Contracting Company, Inc. (YCC) is required to furnish and install (in accordance with Detailed Specification 15150G and Contract drawings P12-01001, and P12-1003):

One (1) – 2” Lubricated Plug Valves for Gas Head of Service

One (1) – 6” Lubricated Plug Valves for Gas Head of Service

The Contract includes the New York State Environmental Facilities Corporation contract packet with the American Iron and Steel Requirement for this CWSRF project. Where it is required that all of the iron and steel products used in the project are produced in the United States. The term “iron and steel products” means the listed products made primarily of iron or steel that is permanently incorporated into the public water system or treatment works. Although not specified for the type of service, valves are listed as one of those products.

The AIS requirements section also allows for the submission of a waiver request if:
“Iron and steel products are not produced in the US in sufficient and reasonably available quantities and of a satisfactory quality;”

The following information is provided to the EFC in requesting AIS Waiver for the following item:

One (1) – 2” Lubricated Plug Valves for Gas Head of Service

One (1) – 6” Lubricated Plug Valves for Gas Head of Service



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The contractor initiated the procurement of the **2" and 6" plug valves** listed above, and have found that due to their installation at the gas meter stations, Con Edison will only accept the valves manufactured by Dresser Industries Inc., Nordstrom Valves Inc., or Walworth Company (ref. page 66 of the ConEdison Yellow Book dated 11/26/18). **These manufacturers do not currently manufacture the specified AIS-compliant Lubricated Plug Valves.**

The approximate cost of these valves is \$4,000.

The procurement and installation of the 2" and 6" Lubricated Plug Valves is required for the proper operation of Con Edison Gas Metering Station Nos. 1, and 3. Gas Metering Station No. 1 is for the 2" natural gas pilot line for the North River WWTW Waste Gas Burner. Gas Metering Station No. 3 is for the 6" natural gas line that serves the existing Boilers, existing Main Sewage Pump Engines and the new Cogeneration Engines Generators to be installed under this Contract.

Per the Project Schedule (update #10), the delivery of the 2" and 6" head of service lubricated plug valves needs to occur prior to April 2019. Due to an average of 4 to 6 weeks' fabrication timeframe, the valves need to be released as soon as possible.

As such, we request the waiver be considered and granted.

Sincerely,

Peter Marzziotti, P.E.
Resident Engineer
AECOM

Attachments:

- Letter from Yonkers Contracting Company, Inc. dated June 19, 2018
- Contract Drawing P12-1001, P12-1003
- Excerpts from Detailed Specifications 15150G
- Contractor's submittal for 6" plug valves for gas piping reviewed by the EOR
- Contractor's submittal for 2" plug valves for gas piping reviewed by the EOR
- Letters re: lubricated plug valve AIS compliance
- Latest ConEdison Yellow Book – cover and page 66
- Exerpts from project Schedule update 10

Cc: James Lauria, P.E., BEDC
Frank Giardina, BEDC
Domenick Loschiavo, P.E., Black & Veatch
James Buchok, AECOM
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Some of the attachments to this waiver request (including project diagrams, product descriptions, and supplier correspondence) are in formats that do not meet the Federal accessibility requirements for publication on the Agency's website. Hence, these exhibits have been omitted from this waiver publication. They are available upon request by emailing SRF_AIS@epa.gov

**DETAILED SPECIFICATION 15150G – GAS METER PIPING INSTALLATION
AND ACCESSORIES
CONTRACT NR-38**

- f. Steel body couplings installed underground on plastic pipe shall be factory equipped with anode.

2.03 PIPING SPECIALTIES

- A. Weatherproof Vent Cap: Cast- or malleable-iron increaser fitting with corrosion-resistant wire screen, with free area at least equal to cross-sectional area of connecting pipe and threaded-end connection.

2.04 JOINING MATERIALS

- A. Joint Compound and Tape: Suitable for natural gas.
- B. Welding Filler Metals: Comply with AWS D10.12/D10.12M for welding materials appropriate for wall thickness and chemical analysis of steel pipe being welded.

2.05 MANUAL GAS SHUTOFF VALVES

- A. See Manual Gas Shutoff Valve Schedule for where each valve type is applied in various services.
- B. General Requirements for Metallic Valves, 2 inch and Smaller: Comply with ASME B16.33.
 - 1. CWP Rating: 125 psig
 - 2. Threaded Ends: Comply with ASME B1.20.1.
 - 3. Dryseal Threads on Flare Ends: Comply with ASME B1.20.3.
 - 4. Tamperproof Feature: Locking feature for valves.
 - 5. Listing: Listed and labeled by a testing laboratory acceptable to authorities having jurisdiction for valves 1 inch (25 mm) and smaller.
 - 6. Service Mark: Valves 1-1/4 inches (32 mm) to 2 inch shall have initials "WOG" permanently marked on valve body.
- C. General Requirements for Metallic Valves, 2-1/2 inches and larger: Comply with ASME B16.38.
 - 1. CWP Rating: 125 psig
 - 2. Flanged Ends: Comply with ASME B16.5 for steel flanges.
 - 3. Tamperproof Feature: Locking feature for valves indicated in Manual Gas Shutoff Valve Schedule.
 - 4. Service Mark: Initials "WOG" shall be permanently marked on valve body.
- D. Cast-Iron, Lubricated Plug Valves: MSS SP-78
 - 1. Manufacturers: Dresser Inc., Nordstrom Valves Inc, Walworth Company, or approved equal.

**DETAILED SPECIFICATION 15150G – GAS METER PIPING INSTALLATION
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2. Body: Cast iron, complying with ASTM A 126, Class B.
3. Plug: Bronze or nickel-plated cast iron.
4. Seat: Coated with thermoplastic.
5. Stem Seal: Compatible with natural gas.
6. Operator: Square head or lug type with tamperproof feature where indicated.
7. Pressure Class: 125 psig.
8. Listing: Valves 1 inch and smaller shall be listed and labeled by a testing laboratory acceptable to authorities having jurisdiction.
9. Service: Suitable for natural-gas service with "WOG" indicated on valve body.

2.06 DIAPHRAGM OPERATED GAS SHUTOFF VALVES

A. General

1. Application: Provide tight shutoff of natural gas upon loss of downstream pressure below the setpoint. Downstream pressure shall be sensed via a pilot line, and a control spring shall provide tight shutoff. No external power or compressed air shall be required.
2. Minimum rated pressure: 200 psig.
3. Accuracy: +/- 1 percent of setpoint.
4. Installation orientation: Horizontal.
5. End connections: Flanged.
6. Setpoint range: 7 to 33 psig
7. Valve shall be Fisher "Type OSE Slam-Shut Valve" or approved equal.

B. Materials of Construction

1. Body: Cast iron, ASTM A126 Class B or Ductile iron, ASTM A536.
2. Bonnet: Steel.
3. Valve plug and seat ring: Stainless steel.
4. Seat: Nitrile.
5. Diaphragm: Reinforced Nitrile.
6. Mechanism box: Aluminum.

C. Testing:

1. Test each assembled valve, except control piping, hydrostatically at 1-1/2 times the rated working pressure for a minimum of five minutes.