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From: [REDACTED]
To: [REDACTED]
Cc: [REDACTED]
Subject: AIS Availability Waiver Request Cedar Rapids CS1921069 01 Temperature Control Valves
Date: Wednesday, August 26, 2026 11:02:06 AM
Attachments: [232100 - Hydronic Specialties \(1\).pdf](#)
[082 Drawings \(1\).pdf](#)

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The following checklist and attachments were submitted by the borrower to me. I am passing them along for official availability waiver submittal. Please let me know if there is anything else you require to complete the waiver request.

Following the order of the checklist:

This Availability waiver request for the Cedar Rapids Water Pollution Control Facility Solids Processing Improvements Contract 2 Project, SRF #CS1921069-01.

The project is located in Cedar Rapids, Iowa

The availability waiver request is for Three-Way Temperature Control Valves. There are a total of Three (3) of these valves on this project, as shown on the attached drawing.

Also attached is the relevant project specification, with the section covering the three-way temperature control valves highlighted.

BV has contacted the following manufacturers, and they have indicated they cannot provide valves that are AIS compliant.

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

The Project schedule is as follows. The valves in question are part of Area 082, which is part of Milestone No. 3.

Milestone No. 1 Area 026 New Ash Lagoon Completion: February 28, 2025 (Complete)

Milestone No. 2 New 84in RCP SAN operational and Existing Lagoon Demolition Complete: February 28, 2026 (Complete)

Milestone No. 3 Substantial Completion of Areas 024, ~~036~~, 081, **082**, 084, and 085: February 29, 2028 (Area 036 removed by change order).

Milestone No. 4 Substantial Completion of All Project Work (Milestone No. 3 plus sitework, Odor Control, and AGS facilities 074, 075, and 076): August 31, 2028 (Sitework and Areas 074 and 075 in Progress, Area 076 starting soon.)

Milestone No. 5 Final Completion: February 28, 2029

It appears EPA has granted project waivers for similar valves on a few projects:

- [SFPUC Oceanside Water Pollution Control Plant, March 2022.](#)
- [SFPUC Biosolids Digester Facilities Project, November 2022.](#)
- [Bergen County Utility Authority Sludge Digester Improvements Project, April 2026.](#)

Please let me know if you need any additional information to submit this request to EPA.

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4. Design: Temperature range 32 DEGF to 120 DEGF and a working pressure of up to 150 PSI.
 5. Meter registers shall totalize flow through the meter.
 6. Meter register and lid shall be constructed of synthetic polymer.
- O. Pressure Sustaining Valve:
1. Quantity: 1
 2. Tag number: VPS-82801.
 3. Type: pilot operated.
 4. Ends: flanged.
 5. Body: ductile iron, epoxy coated.
 6. Trim: bronze.
 7. Elastomers and seals: [REDACTED]
 8. Design flow:
 - a. Minimum: 30 GPM
 - b. Maximum: 810 GPM
- P. Three-Way Temperature Control Valves:
1. Type: Three way, mixing type valves complete with electric actuators, temperature probe and controller suitable for stand-alone thermostatic temperature control.
 2. Size: 4 IN.
 3. Quantity: 3
 4. Tag numbers: VTW-82811, VTW-82821, VTW-82831
 5. Design Flow: 400 GPM.
 6. Outlet Temperature Setpoint: 150 DEGF.
 7. Material: Cast iron body and bronze seat plugs.
 8. Temperature: up to 225°DEGF.
 9. Flanged ANSI 125.
 10. Temperature sensors: 3-wire RTD type.
 11. 120V AC power to actuator and controller.

2.3 FABRICATION

- A. Fabricate pumps complete with motor and pump as one unit.

2.4 SOURCE QUALITY CONTROL

- A. Pump Impeller Trimming:
1. Trim impellers to a diameter to provide design flow to each terminal with minimum pump power consumption for each pump.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install hydronic specialty items where indicated or required.
- B. Install at high point in closed water systems and at high point of coil headers an automatic relief vent.
1. Install shut-off valve ahead of each vent.
 2. Extend relief tubing from vent to drip pan or drain.
- C. Install flexible connectors at pump suction and discharge and where indicated.
- D. Install pipe guides in accordance with EJMA Standards.
1. Space at 4 and 14 pipe diameters from expansion joints.
 2. Install at expansion loops as indicated.

3.2 FIELD QUALITY CONTROL

- A. See Section 23 05 93.