

South Central Connecticut Regional Water Authority

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<http://www.rwater.com>

Date: June 10, 2026

Subject: Hamden, CT Chemical Improvements at the Lake Whitney Water
Treatment Plant AIS Availability Waiver Request for ½” and 2”
Stainless Steel Swing Check Valves

To Whom it May Concern:

South Central Connecticut Regional Water Authority (RWA) would like to request a waiver from the AIS requirements for the DWSRF funded project Chemical Improvements at the Lake Whitney Water Treatment Plant project. The waiver is requested for seven ½” and one 2” stainless steel swing check valves on the basis that a product is not produced in the US in sufficient and reasonably available quantities and of satisfactory quality to satisfy the project design specifications for which the EPA has the authority to issue waivers in accordance with section 1452(a)(4)(C)(ii) of the Safe Drinking Water Act.

The Chemical Improvements at the Lake Whitney Water Treatment Plant projects consists of the upgrade of two chemical feed systems; the sodium hydroxide system and the potassium permanganate system. The sodium hydroxide system uses 316 stainless steel piping and valves. The stainless-steel components, included the check valves for which this waiver is requested, are required to withstand corrosive wear. The original design of the project included 316 stainless steel ball check valves. Since awarding the project the design was updated from ball style check valves to swing style check valves to standardize their other chemical feed systems. The original specification for ball check valves and the updated paragraph for swing check valves can be found in Attachment A. A piping and instrumentation diagram for the sodium hydroxide system showing where the valves will be installed in the system can be found in Attachment B. The overall project is scheduled to be completed by December 18, 2026. To meet this schedule the sodium hydroxide system needs to be fully operational by July 10, 2026.

The prime contractor and engineer have made extensive efforts to source an AIS compliant product. They have contacted the following suppliers and vendors. Attachment C contains excerpts from emails with the vendors. Some contacted by phone without a written record.

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

[REDACTED]

This good faith effort did not identify a single domestic manufacturer capable of providing a product conforming with the specification for 316 stainless steel swing check valves. Additionally, none of the manufactures asked can provide an AIS compliant 316 stainless steel ball check valves.

Several foreign manufactured swing check valve products were identified. Of these vendors, [REDACTED] was identified as being the most readily available valve that met the specification. The other foreign manufacturers did not provide lead-times. Evaluated swing check valves are summarized in Table 1 and the [REDACTED] valves the waiver is being request for are summarized in Table 2.

Table 1: SUMMARY OF MARKET AVAILABLE ½” AND 2” FLANGED SWING CHECK VALVES

Manufacturer	Model	Meets Spec	Price	AIS Compliant	Lead Time
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	N/A	No	N/A	No	N/A
[REDACTED]	N/A	No	N/A	unknown	N/A
[REDACTED]	N/A	No	N/A	unknown	N/A
[REDACTED]	N/A	No	N/A	unknown	N/A
[REDACTED]	N/A	No	N/A	unknown	N/A
[REDACTED]	N/A	No	N/A	No	N/A
[REDACTED]	N/A	No	N/A	No	N/A

T	N/A	No	N/A	unknown	N/A
	NA	No	NA	unknown	NA

Table 2: SUMMARY OF MATERIALS REQUESTED FOR WAIVER OF AIS REQUIREMENTS

Description	Stainless Steel Flanged Swing Check Valve	
Size	½-inch	2-inch
Unit of Measure	Each	Each
Quantity	7	1
Price		
Lead Time	Both sizes are immediately available	
Location of Project	Lake Whitney WTP 900 Whitney Ave Hamden, CT 06517	
Justification	Availability. Refer to attached excerpt project specifications (Attachment A) and P&ID for the chemical system (Attachment B).	

The check valves [REDACTED]
[REDACTED]
[REDACTED]

Sincerely,



Orville Kelly,
Manager of Design and Construction
South Central Connecticut Regional Water Authority

Enclosures

- Attachment A - Specification Sections
- Attachment B - Piping And Instrumentation Diagram - Sodium Hydroxide System
- Attachment C - Vendor Correspondence Excerpts

Updated Specification for Swing Check Valves

Stainless Steel Swing Check Valves (sodium hydroxide) – Check valves for stainless steel pipe shall be 316 stainless steel or A351 Grade CF8M. Valves shall be bolted cover, swing type, integral seat with flanged ends. Valve seals shall be PTFE or other material compatible with sodium hydroxide as recommended by Manufacturer. Valves shall be rated for 275 psi at 100°F. Valves

This waiver request was submitted to the EPA by the state of Connecticut and applies only to the project in the subject line. All supporting correspondence and/or documentation from contractors, suppliers or manufacturers included as a part of this waiver request was done so by the recipient to provide an appropriate level of detail and context for the submission. There may be documents with project diagrams, schedules, and supplier correspondence 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 DWSRFWaiver@epa.gov.