[redacted]

Hello –

Please find below all relevant information for a project-specific AIS waiver for 6" high pressure class check valves for a DWSRF project in Killington, VT. Vermont ANR Water Infrastructure Division (WID) have reviewed the information submitted on behalf of the Owner by the consulting Engineer and concur with the request for a project-specific waiver for this material specifically due to lack of production in any US facility.

Project Description:

The project includes a new water source, storage, and piping system for the Town of Killington, VT, and is the initial phase of a larger water system project. One of the major purposes of this project is to provide safe drinking water to existing public water systems which have water quality concerns. The water system improvements are designed to be capable of providing both domestic and fire flow demands in the near- and long-term.

The current phase of work includes a high service pump station that will convey water from an in-building clearwell to the water storage tank. The raw water and finished water transmission mains are 16-inch diameter ductile iron, a total of 19,800 feet. Specialty high-pressure ductile iron water main is required for the first 3,000 ft of main from the pumps' discharge due to a 700-psi operating pressure. **Of special note: there are existing previous approvals of Project-Specific AIS waiver-requests for the 16" DI piping as well as 16" high pressure butterfly valves.**

- Description of the foreign and domestic construction materials: ***Foreign manufactured 6" high pressure (1000 psi) drink water stainless steel check valves with class 600 flanges***
- Unit of measure: ***each***
- Quantity: ***four (4) Foreign Manufactured***
- [redacted]
- Time of delivery or availability: [redacted] ***domestic manufacturer not available.***
- Location of the construction project: ***Killington, VT***
- [redacted]
- A detailed justification for the use of foreign construction materials: ***To our knowledge and research, that a domestic vendor is not available that can produce the 6" high pressure (1000 psi) drinking water stainless check valves with class 600 flanges as specified.***

Availability:
The Consultant, on behalf, of the Owner has provided the above summary relative to efforts to source this material domestically. Also please find attached the specification for this part from the project specifications manual

The State (VT) has not received or reviewed a request for this material previously, however the project has received AIS waivers for similar high-pressure pipe and butterfly valves that were not available as domestically sourced material, so believe that this is likely an extension of that availability (or lack thereof).

Please let me know if you have any additional questions or if an element of this request appears to be absent. I look forward to your response on behalf of the stakeholders in this project.

Sincerely,

Don

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For your convenience: my daily schedule is mainly composed of a teleworking environment allowing me to be available by phone or email during any normal business hours, as well as in-person meetings by request.

D. Check Valve: 250 psi rating

1. Check valves larger than 2-inch diameter shall be of the globe silent closing type.
2. End configurations shall be flanged and drilled in accordance with AWWA C110 Class 125.
3. Valve body and all internal parts shall be specifically designed for a minimum working pressure of 250 psi.
4. Valve body shall be epoxy coated ductile iron ASTM A536.
5. Valve plug shall be center guided at both ends with a through integral shaft.
6. Valve spring shall be a coil spring, Type 316 stainless steel with the ends ground flat for true perpendicular closing force.
7. Valve seat and plug shall be replaceable in the field for ease of maintenance. Resilient seated valves shall be drip tight.
8. Flow area through the body shall be equal to or greater than the cross-sectional area of the equivalent pipe size.

E. Check Valve High Pressure

1. High pressure check valves shall be a retainerless wafer double flange valve and sized as shown on the Drawings. Valve body shall be 316 stainless steel ASME 600 minimum. Valve body and all internal parts shall be rated for minimum 1,000 psi. Seat shall be integral metal to metal. Check valve shall be [redacted], or equal.

F. [redacted] Check Valve:

1. [redacted] check valve shall be furnished with an integral elastomer flange as part of the valve.
2. The flange shall be drilled in accordance with AWWA C110 Class 125.
3. Valve shall be furnished with 3/8-inch thick 316 stainless steel back-up rings for installation.
4. Rubber [redacted] valve shall be EPDM.

G. Float Valve:

1. Float valve shall be non-modulating to fully open and close drip tight.
2. End configurations shall be flanged and drilled in accordance with AWWA C110 Class 125.
3. Valve shall have a minimum pressure rating of 250 psi.
4. The body and cover shall be ductile iron in accordance with ASTM A536.
5. The main valve trim, seat, stem, nut, spring, internal trim parts and other wetted metallic parts shall be stainless steel.
6. Valve shall have a fusion bonded epoxy coating on the interior and exterior in accordance with AWWA C116.