

MARINA COAST WATER DISTRICT

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August 3, 2017

Mr. Martin Taylor
Davis Bacon Compliance/AIS Liason
Division of Financial Assistance
State Water Resources Control Board
1001 I Street
Sacramento, CA 95814

SUBJECT: Request for Waiver of American Iron and Steel Requirement for Large Diameter, High Pressure Butterfly Valves for Clean Water State Revolving Fund Project No. C-06-8184-110, Marina Coast Water District - Regional Urban Water Augmentation Project

Dear Mr. Taylor:

The purpose of the Marina Coast Water District (MCWD) Regional Urban Water Augmentation Project (RUWAP) is to convey advanced treated water from Monterey One Water's (formerly called the Monterey Regional Water Pollution Control Agency) advanced water treatment plant for urban irrigation within the MCWD service area as well as direct injection into the groundwater basin for indirect potable reuse. The project is located in Monterey County, California. RUWAP will alleviate the long standing water supply challenges in coastal Northern Monterey County including seawater intrusion and excessive surface water diversions.

MCWD is requesting a project specific waiver of the American Iron and Steel (AIS) requirements for large diameter, high pressure butterfly valves specified on the MCWD RUWAP project because no known domestic manufacturers produce an alternate that meets the project's technical specifications. The entire 7.5 mile pipeline and pipeline appurtenances are designed for a high working pressure, up to 350 psi. The purpose of the butterfly valves is to isolate flow in the pipeline. The butterfly valves are required to be designed and constructed per AWWA C504¹ for a working pressure of 350 psi, certified by the manufacturer, and have a minimum 10 years of documented installations.

The specific bid item affected by this waiver request includes:

Bid Item	Description	Quantity	Unit
7	24-inch Butterfly Valves	35	EA

¹ American Water Works Association C504: Rubber-Seated Butterfly Valves, 3 in. (75 mm) through 72 in.

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The project bid documents included a provision for compliance with AIS requirements, which are included as Attachment 1.

During the bidding process, it was discovered there are only two manufacturers (Henry Pratt and Mueller Company) that make AWWA C504, 24-inch butterfly valves designed and constructed for a 350 psi working pressure that meet the technical requirements. Both of these manufacturers make the butterfly valves outside the United States and are not AIS compliant. The AIS waiver request is for use of these butterfly valves. The Contractor has selected Henry Pratt as the butterfly valve manufacturer.

Industrial style double or triple offset butterfly valves can be designed and constructed for a working pressure of 350 psi and were reviewed for applicability during the bidding process. However, these butterfly valves were found unsuitable because they do not meet the technical requirement to be constructed to AWWA C504, are made outside the United States, and not AIS compliant.

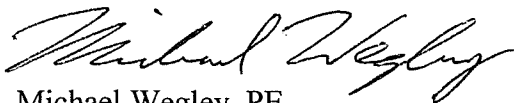
Dezurick was consulted with during bidding about providing the AWWA C504 butterfly valve (because Dezurik produces butterfly valves made in the United States), but found to only design and construct 24-inch butterfly valves rated for working pressures of 250 psi. Dezurik offered to factory test the 250 psi rated butterfly valve to 350 psi. However the technical requirements do not allow the use of butterfly valves rated for less than 350 psi if they are factory tested to 350 psi. The butterfly valves must be designed and constructed with the intended operating pressure of 350 psi.

The project technical specification for butterfly valves is included as Attachment 2.

AWWA C504 butterfly valve cut sheets from Henry Pratt, Mueller Company, and Dezurik are included as Attachment 3.

If you have further questions, please contact me at (831) 883-5925 or mwegley@mcwd.org.

Sincerely,



Michael Wegley, PE
District Engineer

Attachments:

1. AIS compliance form from bid documents
2. Project butterfly valve technical specification
3. Manufacturer butterfly valve cut sheets

c: Jody Hack, SWRCB
Keith Van Der Maaten, MCWD