



October 31, 2016

Mr. Martin Taylor
 Davis-Bacon Compliance
 AIS Liaison
 Loan & Grant Administration Section
 Division of Financial Assistance
 State Water Resources Control Board
 1001 "I" Street, 16th Floor, Sacramento, CA 95814

RE: San Francisco Public Utilities Commission

SRF Project: CWSRF No. 8111-110 (SFPUC Project No. WD-2798) San Francisco Westside Recycled Water Pipeline

Subject: AIS Availability Waiver Application for TR Flex and Tyton Fittings

Dear Mr. Taylor:

The purpose of this application is to obtain an AIS availability waiver for the specified TR Flex and Tyton ductile iron fittings in sizes ranging from 3" to 16". These fittings are not produced within the United States (ref exhibit A). The objective of the project is to furnish and install approximately 7.7 miles of 8-inch and 16-inch ductile iron pipe on the west side of San Francisco for the transmission of recycled water, and replacement of approximately 1,510 linear feet of 12-inch VCP sewers. Work also includes paving and earthwork to resurface/repair street pavement and to reconstruct sidewalks and curb ramps on subject streets. Our application will generally follow the Information Checklist for Waiver Request form in appendix A:

General:

1. Description:
 - a. TR Flex and Tyton ductile iron fittings in sizes ranging from 3" to 16," See attached exhibit 'A' from U.S. Pipe for further description.

Edwin M. Lee
 Mayor

Anson Moran
 President

Ike Kwon
 Vice President

Ann Moller Caen
 Commissioner

Francesca Vietor
 Commissioner

Vince Courtney
 Commissioner

Harlan L. Kelly, Jr.
 General Manager



2. Unit of Measure/Quantity/Pricing:

16" DIP (TR-Flex)	11.25	22.5	45	90
Measure	EA	EA	EA	EA
Quantity	23	12	16	1
\$/EA	76	76	93	111
8" DIP (TYTON Pipe)	11.25	22.5	45	90
Measure	EA	EA	EA	EA
Quantity	84	43	37	14
\$/EA	76	76	93	111

3. Time of Delivery or Availability:

- a. 6 weeks for waiver approval, plus 8-12 weeks delivery; Total ETA 14-18 weeks.

4. Location of Construction Project:

- a. The project is located throughout the west side of the city of San Francisco.

5. Name and Address of Proposed Supplier:

- a. U.S. Pipe
Collin J Bryant
Outside Sales Representative
Two Chase Corporate Drive, Suite 200
Birmingham, AL 35244
(530) 521-8081
cbryant@uspipe.com
- b. American Cast Iron Pipe
Rosemary Smud
Sales Representative
1852 W 11th Street
Suite 326
Tracy, CA 95376
678-770-6575
rsmud@american-usa.com

c. McWane Ductile
Paul Diamond
Sales Representative
1201 Vanderbilt Road
Birmingham, AL 35234
916-826-2872
mcwaneductile.com

6. Supporting documentation including that the Contractor made a reasonable survey of the market, such as a description of the process for identifying suppliers and a list of contacted suppliers.
 - a. The project engineer has contacted three major ductile iron pipe suppliers requesting the availability of the type and quantity of ductile iron pipe fittings required for the project.
7. Supplier information or pricing information from a reasonable number of domestic suppliers indicating availability/delivery date for construction materials:
 - a. See attached Exhibit A
8. Contractor and/or supplier to provide a statement confirming the non-availability of the domestic construction material which is sought:
 - a. See attached Exhibit A
9. Has the State received other waiver requests for the materials described in the request for comparable projects?
 - a. We have attached three approved availability waivers for the TR Flex product. Please reference Exhibits B, C, and D.
10. Project Schedule:
 - a. The affected project engineer's estimate is approximately \$28,000,000-\$32,000,000 with the project's completion date currently on 6/01/18. Time is of the essence on the procurement of these fittings as there are time constraints in which the contractor can construct certain portions of the project.
11. Engineering Discussion Re: TR Flex:
 - a. The standard for ductile iron pipe used in the City's water distribution system is TR-Flex pipe for diameters greater than 12" and Tyton pipe for diameter's under 12".
 - b. The Agency acknowledges that there are other methods of restraining pipe joints that use products other than the TR Flex

push on fittings. However, the design engineer is following the City standard in the use of TR Flex and Tyton fittings. Requiring the applicant use other methods of restraining pipe joints would result in significant redesign of the project, which in turn would cause delays in the project construction. In addition the new system would not be compatible with the rest of the City's system.

- c. The buried piping on this project was designed to allow maximum deflection at the joints to accommodate differential settlement between the unsupported pipes and the pier/pile supported structures which they span between. Numerous existing pipes at the facility have experienced differential settlement that resulted in leaking at the joints because they were not designed with adequate allowable deflection. TR Flex joints provide adequate allowable deflections and also offer restraint at the joint. Unrestrained mechanical joints offer similar allowable deflections to TR flex, but restraining a mechanical joint limits its allowable deflection. TR Flex's unique design provides restraint (to prevent lateral movement of the piping system) without sacrificing deflection. Substituting restrained mechanical joint fittings would introduce a significant redesign, would be significantly more expensive, and cause a significant delay in the project schedule. This is mainly due to the piles that would be required to be designed and installed under each pipe to support them and prevent differential settlement. To avoid pile installation under pipes, saving design and construction time and money, TR Flex fittings were chosen for this design.

Sincerely,



Joseph Buitrago P.E.
SFPUC - Engineering Management Bureau
525 Golden Gate Ave, 12th Floor
San Francisco, CA 94102
Tel: (415)551-4862
jbuitrago@sfgwater.org



cc: Cheryl Muñoz, Water Resources Division, SFPUC
Barbara Palacios, Project Management Bureau, SFPUC