



March 26, 2025

Ms. Grace Kapaun  
AIS Compliance Liaison  
Loan & Grant Administration Section Division of Financial Assistance State  
Water Resources Control Board  
1001 "I" Street, 16th Floor, Sacramento, CA 95814

**SRF Project:** CWSRF No. 8372-110 (SFPUC Project No. WW-647R)  
San Francisco Public Utilities Commission Biosolids Digester Facilities Project  
(BDFP)

**Subject:** AIS Availability Waiver Request for PTFE Lined Braided Metal Hose

Dear Ms. Kapaun,

The San Francisco Public Utilities Commission respectfully requests a waiver from the American Iron and Steel (AIS) provisions required by the Clean Water State Revolving Fund loan program for the PTFE Lined Braided Metal Hose specified for the Ferric Chloride service on the Biosolids Digester Facilities Project (BDFP). These Braided Metal Hoses are not currently produced within the United States. Correspondence from the two manufacturers we are aware of that would meet the specification requirements (Exhibit A) – [REDACTED] – indicates there is no manufacturer that can supply these assemblies with an AIS certification.

The Contractor, [REDACTED] documentation includes a construction schedule (Exhibit B) showing Ferric Chloride Pipe Testing being delayed starting March 14, 2025 without the PTFE Lined Braided Metal Hose installed. Also, the completion of the piping installation at Building 913 is currently slated for May 8, 2025, which would be delayed due to the incomplete Ferric Chloride Pipe Testing.

The items listed in EPA's Information Checklist for Waiver Request form are addressed below.

**Daniel L. Lurie**  
Mayor

**Kate H. Stacy**  
President

**Joshua Aroe**  
Vice President

**Avni Jamdar**  
Commissioner

**Steve Leveroni**  
Commissioner

**Dennis J. Herrera**  
General Manager



**General:**

1. Description:

- a. PTFE Lined Braided Metal Hose for Ferric Chloride, see attached Contract Specifications (Exhibit C) and attached P&ID and Mechanical Contract Drawings (Exhibit D) for further information.

2. Unit of Measure/Quantity/Pricing:



3. Time of Delivery or Availability:

- a. 4-6 weeks for waiver approval, plus lead time delivery; Total ETA 12-14 weeks.
- b. Attached Product Data/Shop Drawing for PTFE Lined Braided Metal Hose (Exhibit E).

4. Location of Construction Project:

- a. The project is located at the San Francisco Public Utilities Commission – Biosolids Digester Facilities Project  
1150 Phelps Street, San Francisco, CA 94124.

5. Name and Address of Proposed Supplier:



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.

Subcontractor

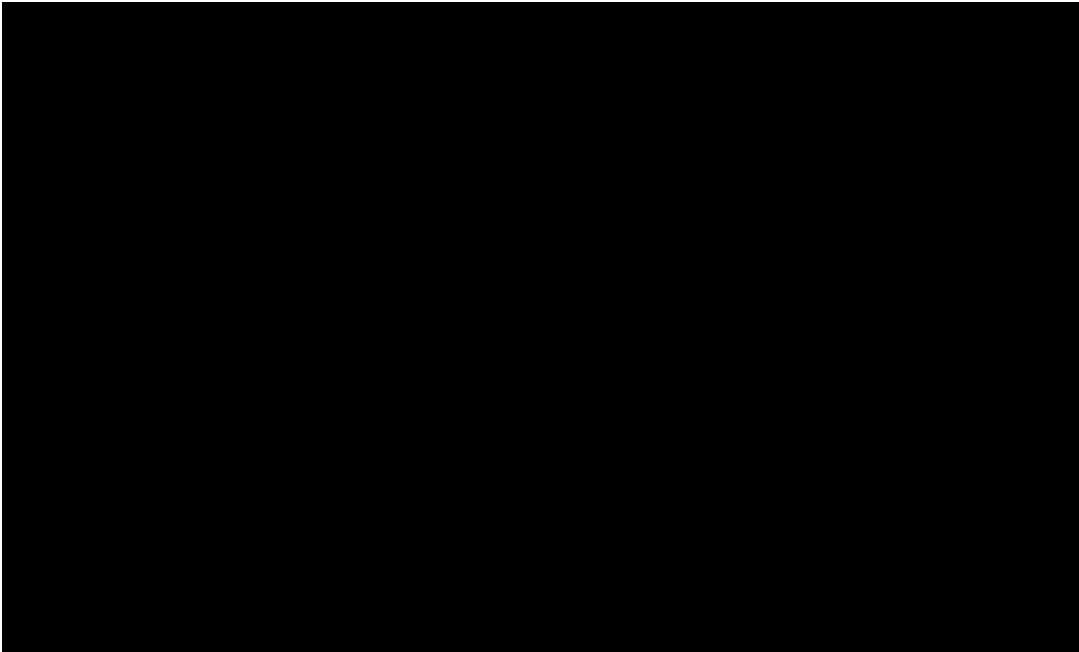


Both suppliers stated they are unable to provide the PTFE Lined Braided Metal Hose with AIS Compliance.

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. Not Applicable
10. Project Schedule:
  - a. See Exhibit B for the project schedule indicating a forecasted completion date of May 2025 and a required installation date of March 2025.
11. Engineering Discussion of PTFE Lined Braided Metal Hose
  - a. PTFE Lined Braided Metal Hose under Specification Section 40 05 06.23 are used as Flexible Metal Hose for the Ferric Chloride Piping System (Exhibit C).





10. For buried installations, install polyethylene sleeve, meeting per ANSI/AWWA C105/A21.5, in accordance with the Supplier's instructions. Refer to the Standard Details for additional requirements.
11. Supplier and Products:

[REDACTED]  
[REDACTED]  
[REDACTED]

## 2.05 FLEXIBLE METAL HOSE

### A. General

1. Flexible metal hose shall be corrugated type 316L or 321 stainless steel with stainless steel fittings and shall be provided with stainless steel single or double braid, unless otherwise specified. End connections shall be attached by the heliarc welding process using stainless steel welding rod. Bronze flexible metal hose shall be provided for copper and brass systems. Length shall be as per standard vendor supply unless otherwise specified.

### B. Braided Type

1. Type A: Type A braided flexible metal hose shall be

[REDACTED]  
[REDACTED]  
[REDACTED]

d. Approved Equal.

2. Type B: Type B braided flexible metal hose shall be

[REDACTED]  
[REDACTED]  
[REDACTED]

d. Approved Equal.

3. Type C: Type C PTFE Lined braided metal hose. PTFE lining shall be smooth bore, stainless steel wire reinforcing.

a. [REDACTED]

b. Approved Equal.

## PART 3 EXECUTION

### 3.01 SHIPMENT AND STORAGE

- A. Equipment shall be shipped and stored in accordance with Section - 01 60 00 - Product Requirements.
- B. Supplier shall provide Contractor with detailed recommendations and instructions for equipment storage.