

CITY OF YUBA CITY
STAFF REPORT

Date: October 5, 2021
To: Honorable Mayor & Members of the City Council
From: Public Works Department
Presentation by: Diana Langley, Public Works Director

Summary

Subject: Water Treatment Plant (WTP) Membrane Filter Replacement – Phase 2

Recommendation: Adopt a Resolution authorizing the purchase of 800 Memcor S10N membrane filtration modules and related appurtenances from DuPont Water Solutions in the amount of \$750,904.99, with the finding that it is in the best interest of the City, and adoption of a Class 1 (Existing Facilities) Categorical Exemption per CEQA

Fiscal Impact: \$750,904.99 – Account No. 971289 (Membrane Replacement)

Purpose:

To provide reliable water service for City residents and businesses through maintaining water treatment processes in a state of good repair.

Background:

In 2007, the City supplemented its existing granular media filters at the Water Treatment Plant (WTP) with new submerged membrane filters as part of a plant expansion project. The membrane filters consist of thousands of hollow fibers contained in cylinders called modules. Suction pressure pulls raw water through the fiber walls, which collect turbidity and suspended solids. Clean water passes through the hollow core of the fibers.

Siemens Industry, Inc. (Siemens) S10V membrane modules were initially installed. By the summer of 2009, the City notified Siemens of excessive membrane fiber breakage. Siemens evaluated the problem and eventually replaced the S10V membrane modules with stronger S10N ultrafiltration membrane modules in May 2013 after multiple pilot studies and NSF testing. DuPont Water Solutions has since acquired the S10N membrane module line, which is now referred to as Memcor S10N membrane filtration modules.

In October 2019, the State Water Resources Control Board Division of Drinking Water amended the City's permit to include the Memcor S10N membrane filtration modules. These membrane filters are an integral repair part compatible with existing equipment and manufactured exclusively by DuPont Water Solutions. There are no other suppliers of these integral repair parts.

Analysis:

The WTP has two cells consisting of 800 membrane filtration modules each. On November 17, 2020, Council authorized the sole-source purchase of 800 modules for Cell No. 1 in response to the modules reaching the end of their 10-year expected service life and WTP staff having spent 920 labor hours in 2020 “pinning” modules that had deteriorated. In spring of 2021, WTP staff completed the replacement of modules in Cell No. 1.

Staff recommends replacing all 800 modules in Cell No. 2 and all work will be performed by WTP staff.

Fiscal Impact:

DuPont Water Solutions has provided a quote of \$750,904.99 to supply 800 Memcor S10N membrane filtration modules and related appurtenances.

Capital Improvement Program (CIP) Account No. 971289 (Membrane Replacement) was established in the Fiscal Year 2020/21 CIP budget specifically for this purchase. This account has a current balance of \$800,000.

Alternatives:

There is no reasonable alternative to replacing the modules. Additional “pinning” of the modules will eventually prevent them from being able to meet water demands.

Recommendation:

Adopt a Resolution authorizing the purchase of 800 Memcor S10N membrane filtration modules and related appurtenances from DuPont Water Solutions in the amount of \$750,904.99, with the finding that it is in the best interest of the City, and adoption of a Class 1 (Existing Facilities) Categorical Exemption per CEQA.

Attachments:

1. Resolution – Purchase Authorization

Prepared by:

/s/ Kevin Bradford
Kevin Bradford
Deputy Public Works Director – Engineering

Submitted by:

/s/ Dave Vaughn
Dave Vaughn
City Manager

Reviewed by:

Department Head

DL

City Attorney

SLC by email

ATTACHMENT 1

RESOLUTION NO. _____

**RESOLUTION OF THE CITY COUNCIL OF THE CITY OF YUBA CITY
AUTHORIZING THE SOLE SOURCE PURCHASE OF 800 MEMBRANE FILTRATION
MODULES AND RELATED APPURTENANCES FROM DUPONT WATER SOLUTIONS, A
RELATED BUDGET TRANSFER, AND ADOPTION OF A CLASS 1 (EXISTING FACILITIES)
CATEGORICAL EXEMPTION PER CEQA**

WHEREAS, in 2007, the City supplemented its existing granular media filters at the Water Treatment Plant (WTP) with new submerged membrane filters as part of a plant expansion project; and

WHEREAS, the membrane filters consist of Memcor S10N membrane filtration modules, which are an integral repair part compatible with existing equipment and manufactured exclusively by DuPont Water Solutions; and

WHEREAS, the City will be purchasing the Memcor S10N membrane filtration modules directly from the manufacturer with no third-party vendor markup; and

WHEREAS, the State Water Resources Control Board Division of Drinking Water has amended the City's permit to include the Memcor S10N membrane filtration modules; and

WHEREAS, the City has met the requirements to sole source the equipment pursuant to Public Contract Code section 3400(c) and City Purchasing Policies section 8-8.4.2; and

WHEREAS, the City Council now desires to authorize the sole source purchase of 800 Memcor S10N membrane filtration modules and related appurtenances from DuPont Water Solutions.

NOW, THEREFORE, be it resolved by the City Council of the City of Yuba City as follows:

1. The City Council finds that all of the facts set forth in the recitals above are true and correct and incorporated herein.
2. The City Council finds and determines that this project falls within the Class 1 Categorical Exemption set forth in CEQA Guidelines Section 15301, as this contract is to allow for the repair and operation of an existing public water treatment plant facility, involving the replacement of existing membrane filtration modules that will involve negligible or no expansion of the existing facility. Further, none of the exceptions to Categorical Exemptions set forth in CEQA Guidelines Section 15300.2 apply to this project.
3. The City Council finds that a sole source award is appropriate on grounds including that DuPont Water Solutions is the sole manufacturer of Memcor S10N membrane filtration modules, that the City will be purchasing the Memcor S10N membrane filtration modules directly from the manufacturer with no third-party vendor markup, that Memcor S10N membrane filtration modules are an integral repair part compatible with existing equipment, and that Memcor S10N membrane filtration modules are integral to the City's State Water Resources Control Board Division of Drinking Water permit. As such, the City Council finds that it is in the best interest of the City to make a sole source award to DuPont Water Solutions for 800 Memcor S10N membrane filtration modules and related appurtenances.

4. The City Council hereby authorizes the purchase of 800 Memcor S10N membrane filtration modules and related appurtenances from DuPont Water Solutions in the amount of \$750,904.99.
5. This Resolution shall become effective immediately.

The foregoing Resolution was duly and regularly introduced, passed, and adopted by the City Council of the City of Yuba City at a regular meeting thereof held on the 5th day of October, 2021.

AYES:

NOES:

ABSENT:

Marc Boomgaarden, Mayor

Ciara Wakefield, Deputy City Clerk

APPROVED AS TO FORM
COUNSEL FOR YUBA CITY:

Shannon Chaffin, City Attorney
Aleshire & Wynder, LLP