

Poughkeepsies' Water Treatment Facility

MEMORANDUM

November 6, 2020

To: Poughkeepsies' Joint Water Board
From: Randy J. Alstadt, Water Plant Administrator
Subject: **UV Design Contract**

Tighe & Bond Engineering is requesting a change in scope to their design contract in the amount of \$54,600 (increase from \$395,000 to \$449,600: 14%) to add a retaining wall and new UPS Building which was not included within their scope.

Background

During preparation of contract scope it was determined that the new UPS would be located within the existing room, in a building located in the front of the Operations or adjacent to the Liquid Oxygen Tank currently occupied by our Carbon Dioxide System. Upon reviewing the options significant concerns were identified.

Replace UPS in existing room

1. UPS must be maintained throughout construction. Replacement in current location is not acceptable.
2. UPS Batteries have the ability to release sulfuric acid gas and could create a fire.

Add Building in Front of Operations Building

1. Space is a concern. Often we have visitors that need the front parking.

Locating a new building in the vicinity of the Liquid Oxygen Tank occupied by the Carbon Dioxide System

1. In the event of a leak Liquid Oxygen is extremely flammable. This would make a hazard during construction
2. The Carbon Dioxide System, although currently not used, was installed to reduce pH for enhanced coagulation and should be kept for future use when necessary.
3. There is not sufficient space in this area.

Because of limited space at our facility the recommendation is to remove the rocks located to the west of the Filter Building then install retaining wall to support transition and construct the UPS building in that location.

Attached, find Task Order for this change.