



AGENDA MEMORANDUM
for the City Council Meeting of October 10, 2017

DATE: July 06, 2017
TO: Margie C. Rose, City Manager
FROM: Clarence Wittwer, Director of Water
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UPDATE TO CITY COUNCIL

Control Network Architecture Upgrade for
ONSWTP High Service No.3

STAFF PRESENTER(S):

<u>Name</u>	<u>Title/Position</u>	<u>Department</u>
1. Clarence Wittwer	Director of Water	Water Utilities
2. Dan Grimsbo	Executive Director of Water Utilities	Water Utilities
3. Rafael Martinez	Water Plant Manager	Water Utilities

OUTSIDE PRESENTER(S):

<u>Name</u>	<u>Title/Position</u>	<u>Organization</u>
1.		

BACKGROUND :

The existing High Service Pump Bldg. No.1 (HSPB #1) at the O.N. Stevens Water Treatment Plant (ONSWTP) was placed into service over 60 years. It is experiencing severe deterioration impacting the reliability and capacity for the TCEQ approved Alternate Capacity Requirement (ACR) plan and future demands. In October 2013, the City awarded an AE contract for designing a new High Service Pump Bldg. No.3 to replace the HSPB#1. The design work was accomplished in late 2015. The construction of the ONSWTP HSPB#3 project is on-going and scheduled to completion in September 2019.

During the design phase and considering project budget constraint and potential cost savings, the City staff and the Design Engineer decided to make full use of the existing control system and equipment. Although the current design met the requirements of codes and specifications, and provided operational and reliable control system for HSPB#3, it may result in increased complexity of operations, maintenance, and reduced reliability.

With the City's competitive sealed bidding process for construction, the final construction contract price is \$21,650,000 which is much lower than the Engineer's Opinion of Probable Construction Cost of \$23,500,000.

With the significant construction cost saving, the City staff is proposing an AE contract amendment and construction change order to upgrade the current control network architecture design. The proposed upgrades will make the control system more reliable, more maintainable, and less complex.

The purpose of this briefing memo is to notify the City Council the City staff will proceed with an AE contract amendment (NOT to exceed \$50,000), and a construction change order (NOT to exceed \$200,000) for upgrading the current control network architecture.

LIST OF SUPPORTING DOCUMENTS:

PowerPoint