



Council Presentation September 12, 2017

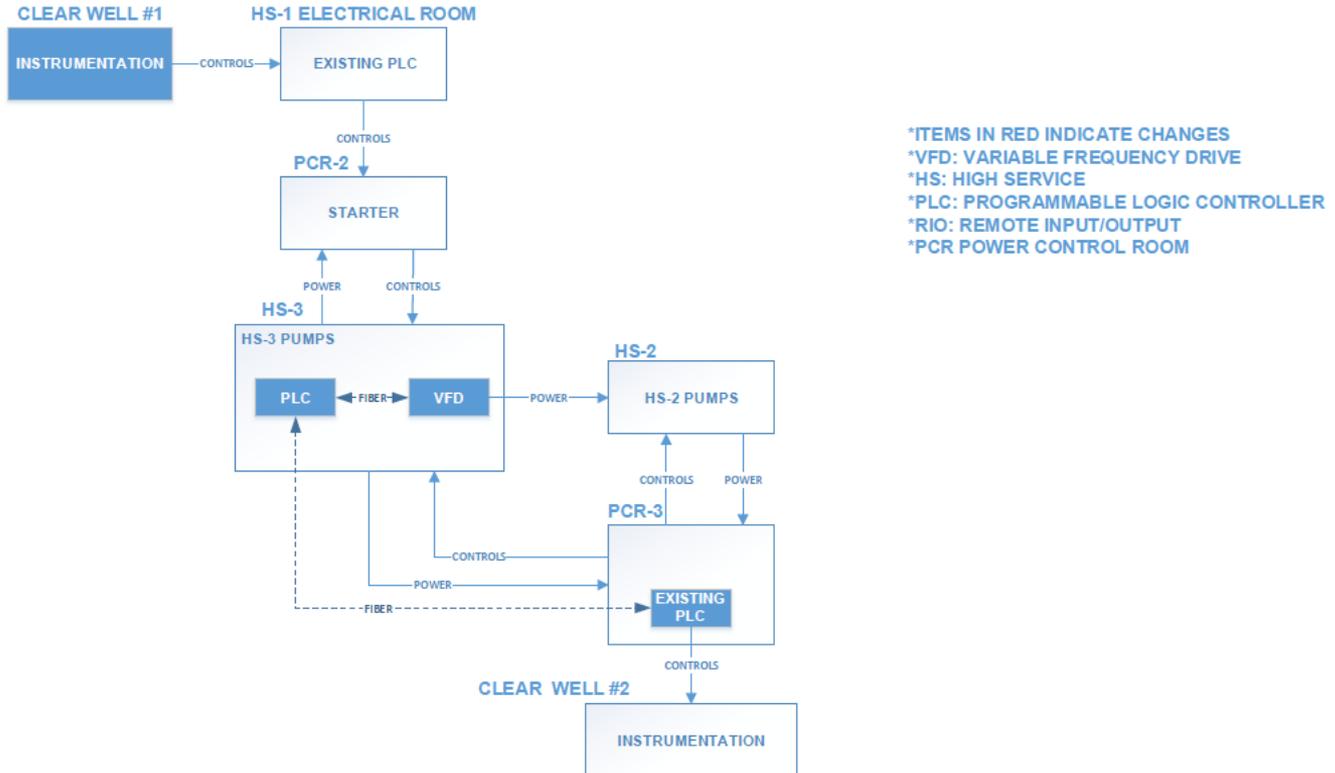


Background

- Project E11066 – ONSWTP High Service Pump Building No.3 under construction
 - City’s competitive sealed bidding process for construction made the construction contract value \$1.85 Million lower than OPCC.
 - During the Design Phase, considering project budget constraint and cost saving, it was decided to fully make use of the existing control system and equipment.
 - Although current design met the requirements of codes and specifications, and provided operational and reliable control system for HS#3, it may result in increased complexity of operations, maintenance, and reduced reliability in a long-term vision.
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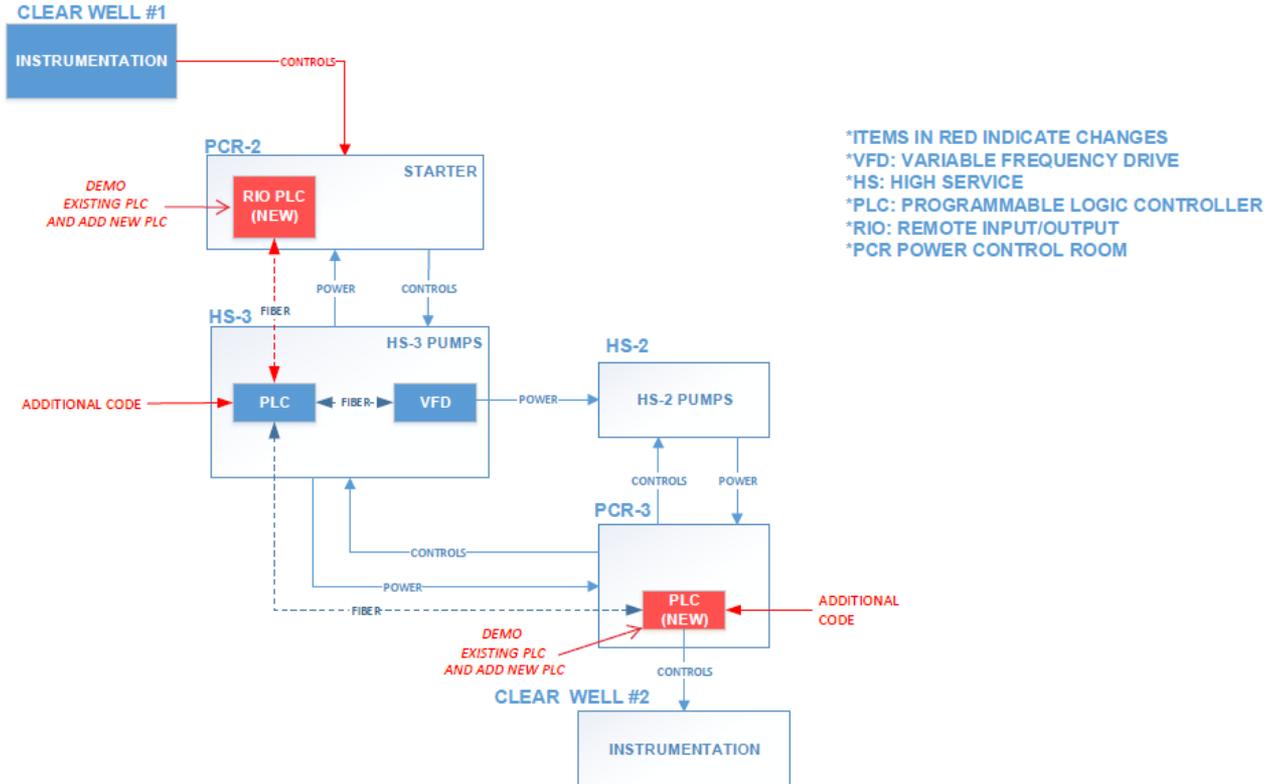


Current Controls Design





Proposed Controls Design





Recommendation

- Final construction contract price for project (\$21,650,000)
 - Engineer's Opinion of Probable Construction Cost (\$23,500,000)
 - As a result of the final construction contract price being lower than the Engineer's Opinion of Probable Construction Cost, the Utilities Department would like to propose an upgrade to the current control network through a construction change order.
 - The proposed upgrades include new remote input/output control system to replace old control systems for a long-term O&M considerations.
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Benefits from Upgrades

Control system will be;

- more reliable
- more maintainable
- less complex



Schedule Impact

- Current Completion Date: Sept. 3rd, 2019
 - It is the Engineer's Opinion that the current construction schedule for the project should not be impacted due to these changes if professional services contract can be awarded in the next 2 months (by Sept. 15th) so that the design can be executed by end of 2017
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Motion Request

Obtain authority to administratively proceed with Control System Upgrade for ONSWTP High Service Pump Building No.3 through

- A Professional Service Contract Amendment (NOT to exceed \$50,000)
- A Construction Change Order (NOT to exceed \$200,000)