



Capital Business Case

Henry St. Pumping Station Pump Panel Replacement

2023 Budget

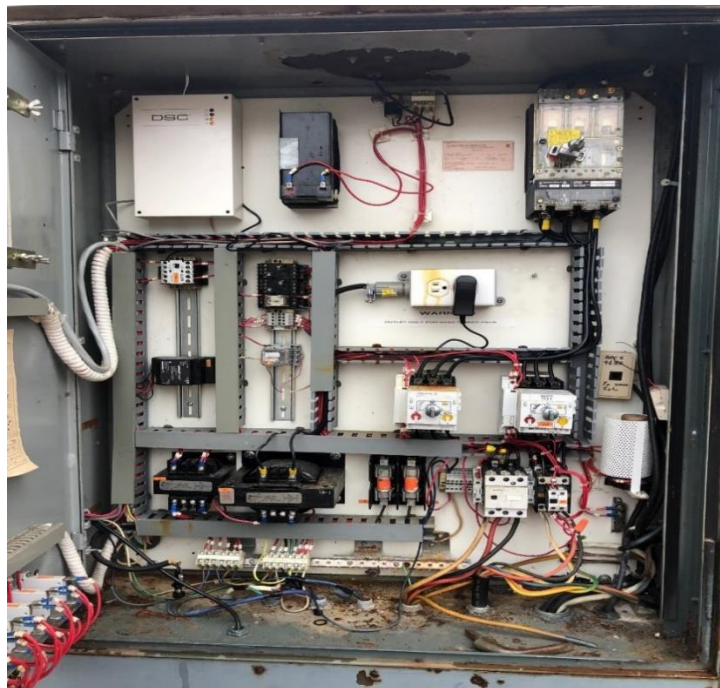
Henry Street Pumping Station Pump Panel Replacement

Executive Summary

The Henry Street Pumping Station has been in operation since 1993. The existing Flygt pump panel is approximately 30 years old. The pump panel is composed of relay switches, pump starters and a variety of electrical components necessary to run and stop two Flygt pumps. The panel is aging. Temporary fixes to mitigate rusting and replacement of relays have been completed to prolong the lifespan of the pump panel.

Business Need

To replace an aging pump panel with a newer direct replacement. Below is a picture showing the internal components of the panel.



Options or Solutions Analysis

To purchase a replacement pump panel from Xylem Canada at a cost of \$30,719.35. Contract IECBL to install the pump panel at a cost of: \$10,605.50. The lead time is 2-4 weeks to receive submittals and 16-24 weeks for delivery. Due to supply chain shortages the lead time is unpredictable. Xylem Canada is the lead supplier for Flygt pump systems.

IECBL will fabricate a starter and utilize a secondary power source from Cogen plant to run one pump during the replacement of the pump panel. This will avoid sub-contracting a bypass of the pumping station to James Street. E/S has a good working relationship with IECBL for both emergency and planned instrumentation/control work.

Financial and/or Non-Financial Benefits

Upgrading an aging pump panel will reduce the likelihood of costly emergency repairs.

Risk Analysis

Failure to replace aging equipment will increase the likelihood of unplanned emergencies and potential service disruptions. Prolonged and more frequent bypass events to the St. Lawrence River may also occur.

Recommendation

Purchase a new pump panel from Xylem Canada and contract IECBL to install.

Implementation Plan

Contract Xylem to purchase and commission the start-up of the pump panel. Coordinate with IECBL to install panel.

Documentation

2022 Quotations attached.

Acceptance Sign-off

Lead Department

Prepared By: [Eric Wemerman, Chief Water/Sewer Operator]

Date: 01-16-2023

Signature: *Eric Wemerman*

Approved By: Sean Nicholson, Treasurer

Date: 01-30-2023

Signature: *Sean Nicholson*

Approved By: Dave Grant, CAO

Date: 01-30-2023

Signature: *Dave Grant*