

Flygt Dry Pit Submersible for Trenton, MI Ensures Reliability



EXISTING PUMP PRIOR TO REPLACEMENT



NEW FLYGT PUMP WITH HIGH CHROME IMPELLER

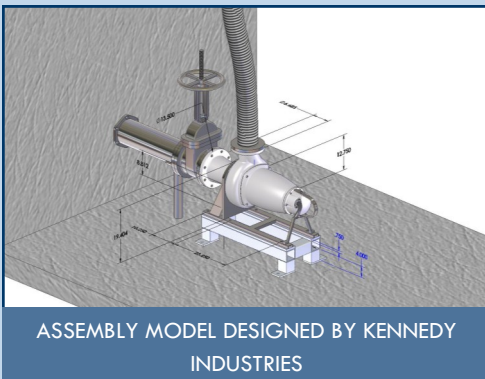
PROBLEM: Power Plant’s existing pump suffered chronic failures. The dry runs, dead heads, worn packing sleeves and contaminated bearings from the existing pump called for very time consuming and expensive maintenance. The customer had to continually adjust or replace packing, grease motor and pump bearings, align sheaves, adjust drive belts, and clean out the discharge valve. The discharge valve was located on top of the pump, with an open vertical header above it, allowing sludge to accumulate when the pump was idle. The sludge would then settle on the valve, resulting in dead head during start-up.

SOLUTION: In January of 2012, Kennedy Industries redesigned the system by relocating the discharge valve from the top of the vertical header, to prevent sludge settling. Precise laser measurements of the station were then taken in order to accurately model the installation of a new Flygt, dry pit submersible, pump. The proposed installation also involved Kennedy Industries designing and manufacturing a fabricated base so that the new pump could be retrofitted into the existing footprint without piping modification. No cutting, welding, or fabrication was required at the job site. An abrasion resistant hose and a valve hand wheel chain kit were also provided. To further improve reliability, Kennedy Industries also provided a Mini-Cas temperature and leak detection relay to provide advanced warning in the event of a problem.

KEY PERFORMANCE

FEATURES:

- **Zero maintenance hours due to non-clog design**
- **No seal leak mess to clean up**
- **Submersible enclosure that is flood proof**
- **Reduction in energy cost due to improved pump efficiency**
- **“Plug and Play” no drive shaft or packing**



ASSEMBLY MODEL DESIGNED BY KENNEDY INDUSTRIES