

Pumping System Becomes More Efficient And Easier To Operate

PS75 VFD (Variable Frequency Drive) Features:

- Sensorless pump protection (dry-run, dead-head, shut-off, minimum flow, and run-out).
- Patent-pending PumpSmart Torque-Based Pump Protection
- PID (Proportional-Integral-Derivative) process control and sleep function
- Integrated process control (built in, no external controller required)
- Soft-start and stop providing more controlled operation



Problem: A Michigan pharmaceutical company delivered a steam turbine-boiler feed pump into Kennedy Industries for repair. The repair of the boiler feed pump required an extensive amount of work to bring it back to as new condition. The customer voiced concern about the on-going issues with the governor sticking, causing their pressures to swing erratically. Their pumping system also required extensive maintenance and was not efficient, as it

consumed a constant supply of expensive city water to keep the mechanical seals cooled. The process to bring the steam turbine online was also extremely complicated, requiring a list of procedures that would consume precious operations and maintenance funds. A better solution was needed to end this cycle.

Solution: Kennedy Industries was entrusted to research and provide the customer with a much more user-friendly and efficient system that would resolve their headaches. Kennedy Industries provided a vertical multi-stage pump that was capable of handling the higher heat load of the system without the use of external seal cooling water, saving the customer huge amounts of expensive city water. The new pump had a much smaller footprint than the existing system increasing valuable floor space in their plant. Utilizing a PumpSmart VFD and a pressure transmitter, the system is now ready immediately with just the simple push of a button.

Newly Installed PS75 VFD & Pump



Pressure swings that were previously present were completely eliminated as the VFD controls the motor speed based on process demand. The pump now operates based on the system pressure required and no longer requires seal water saving the customer time & money.

Inefficient Pumping System

