

Kennedy Industries Quickly Removes, Rebuilds, & Installs

The Removal of Mill Water Pump #7 by
Kennedy Industries Field Service Department



Problem: Mill Water Pump #7 was originally purchased as an emergency Y2K pump. However, the pump wasn't installed until several years later. When the pump was finally put into service it was discovered that the motor thrust bearing was undersized and could only last 1,500-2,000 hours. Installing a large thrust bearing in the motor was cost prohibitive, the pump was seldom in operation and only used in emergency situations.

Solution: Kennedy Industries was contacted and the customer asked what options were available to them. The customer's goal was to get the pump into normal rotation, increase the pump service life, and get the maximum flow and head without overloading their emergency generator.

After careful consideration, it was determined the best course of action was to replace the existing 720RPM, 1250HP motor with a new 880RPM 1500HP motor. By doing this, the customer would be able to

maximize pump capacity and stay under the generators maximum output. They could also increase motor bearing life by specifically ordering a motor with 500% extra thrust capacity. Since the motor speed was being increased it necessitated the need to trim the massive impellers to maximize performance while not overtrading the new motor.

"The pump was rebuilt, painted and returned to the customer in one week."

Kennedy Industries Field Service Department was hired to remove and reinstall the pump and motor. Upon removal, the pump was placed on a flat bed from the Kennedy Industries truck fleet and transported back to the Kennedy Industries Repair Facility. The pump was then disassembled, blasted, cleaned and thoroughly inspected. The impellers were trimmed and balanced, stiffeners were installed on head and a maintenance friendly coupling guard was installed, at the request of the customer. The pump was rebuilt, painted and returned to the customer in one week. Kennedy Industries Field Service Department reinstalled the pump and motor, provided updated startup reports and service manuals.

Newly Rebuilt Mill Water Pump #7 Installed

