LOUIS ALLIS Saves Paper Mill Almost $500,000 by Modifying Existing Spare Motor

CHALLENGE

This paper mill is running four 2000 HP synchronous refiner motors manufactured by GE. The motors are vitally important and as such the mill requires a spare motor on hand in the event of any failures. Because of the critical nature of the spare needed they contacted LOUIS ALLIS for a solution. Through conversations with the mill it was discovered that they once had a spare but it was dimensionally different than the motors in service. After receiving information on the motors, LOUIS ALLIS found that the mill had given the spare motor to a local repair vendor. LOUIS ALLIS flew to the mill site to look at the existing application and spare motor. LOUIS ALLIS concluded that, with modifications, the once discarded spare motor could be used as the bolt-in spare motor the mill required. This unique solution saves the customer nearly HALF A MILLION DOLLARS by not having to purchase a new spare motor.

SOLUTION

LOUIS ALLIS proposed modifying the spare motor by machining a new shaft to match the existing GE output shaft. The base rails (motor feet) will be re-positioned to obtain proper shaft height. The enclosure will be converted from Open Drip to WPII. Provisions will be made for air filters. By utilizing an essentially scrapped spare motor, the mill saved $474,301.00.