LONG-TERM REPLACEMENT COMPONENT COSTS

Application Sheet #19

SITUATION

- A customer operates 400 Sirius chemical pumps in their field:
  1. Approximately 340 pumping methanol at 750 psi and 50 to 100 L/day (Q/day),
  2. And 60 pumping Corrosion Inhibitor at 750 psi and 10-20 L/day (Q/day)
  3. 26 of the units above operate as 5 point multi-point systems, where the pump duty cycle is 5 times that of the individual applications.
- The customer wanted to understand the on-going cost of replacement parts.

SOLUTION

- An analyses was performed to identify the cost of replacement pump components.

RESULTS

- The top graph depicts dollars spent on replacement parts per pump in any given year. In 2013 a fleet of service kits was sold to the customer, resulting in the numbers being artificially high in that year but lower in the following 2-3 years.
- The lower graph depicts the customers pump acquisition and accumulated service time over a seven-year period. At the end of the period, the fleet had accumulated 1797 pumping years of service. A pump in service for 5 years represents 5 pumping years.
- The customers total cost of replacement parts divided by the total accumulated fleet pumping time amounted to $97/pump per pumping year.

Replacement Parts Per Pump

Cost per Pumping Year is $97 per Pump