**Customer Testimonial**

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**Monolec® R & O Compressor / Turbine Oil (6401)**

*Orange Water & Sewer Authority – Chapel Hill, N.C.*

*Westinghouse 450 HP Pump*

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- **Saves $1,599 annually in electrical energy costs**

**Customer Profile**

The Orange Water & Sewer Authority produces drinking water for a 3-city area in and around Chapel Hill, North Carolina. They have been an LE customer since 1991.

**Application**

The main pump used to supply drinking water for the area is a 450 hp Westinghouse.

**Challenge**

In order to supply the tri-city area with fresh drinking water, the Orange Water & Sewer Authority maintains 260 miles of water main and 7.5 million gallons of water is pumped each day. It is essential that the pumps be kept in good operating condition.

**LE Solution**

In January of 1991, the local LE lubrication consultant recommended Monolec® R & O Compressor / Turbine Oil (6401) for this pump. Prior to converting to Monolec 6401, amperage readings were taken on the pump and measured at 81.5. After installing Monolec 6401, a 1 amp drop was achieved.

**Results**

The following formula is used to find the cost of a unit’s electrical consumption. This is the same formula used by the local utility company.

\[ \text{Volts} \times \text{Amperes Saved} \times 1.73 \times \frac{1}{\text{Conversion Factor for a 3-Phase Source}} = \text{kW Savings} \]

\[ \text{kW Savings} \times \text{Hours of Operation Per Year} = \text{Annual kWh Savings} \]

\[ \text{Annual kWh Savings} \times \text{Electrical Rate} = \text{Annual Electrical Savings} \]

\[ \frac{2.30 \times 1 \times 1.73}{3.979} = 3.979 \]

\[ 3.979 \times 8,736 = 34,760.54 \]

\[ 34,760.54 \times 0.046 = 1,598.98 \]

Monolec R & O Compressor / Turbine Oil (6401) saves $1,599 annually in electrical energy costs.

*Thank you to Doug Terry, superintendent, and to Jeff Boyles, LE lubrication consultant (pictured), for providing the information used in this report.*