

## 6401/6402 MONOLEC® R&O COMPRESSOR/TURBINE OILS

### FUNCTIONS OF A BOILER FEED PUMP IN POWER PLANTS

Boiler Feed Pump • SIC 4911 Electric Services

CUSTOMER TESTIMONIAL

The function of Boiler Feed Pumps in Power Plants is to feed water into the boiler to produce steam. This water is fed into the boiler under extreme pressure. A typical problem experienced by many power plants is water contamination in the oil. The water/oil mixture will then emulsify in the boiler feed pump. The water thins the thickness of the oil film and weakens the strength of the oil.

Listed below are how some power plants have solved this problem by changing to LE's MONOLEC® R&O Compressor/Turbine Oil. Since LE's MONOLEC® R&O Compressor/Turbine Oil is ideal for all steam-turbo generators, small industrial turbines, gear and bearing applications and circulating systems, it is the preferred choice for modern power plants today. It offers excellent oxidation resistance and excellent water separation characteristics, thus preventing corrosive wear. In addition, it is extremely long-lasting in service. Best of all, it contains MONOLEC®, LE's exclusive wear-reducing additive, to give long equipment life.

**PSE&G Kearney Generating Station**, located in Kearney, NJ, was using a commercial grade turbine oil in Worthington boiler feed pumps. Because the oil was emulsifying, they had to change the oil every five to seven days. LE's 6402

MONOLEC® R&O Compressor/Turbine Oil (ISO 46) was recommended because of its excellent water separation characteristics. Now, using LE's 6402, the oil has lasted one year and the water can be drained off while the pumps are running. This offers considerable cost savings, considering that each pumps holds 30 gallons of oil. Pumps that formerly would fail every year or two have ran for ten years without a failure.

**Orange & Rockland Utilities, Inc.**, located in Tompkins Cove, NY, was using a commercial grade turbine oil and experiencing emulsification problems and shorter drain intervals. In addition, they felt the bearing wear was higher than normal. Since changing to LE's 6401, their Pacific DeLaval boiler feed pumps are now drained once a year and all lubricant related problems have been eliminated. Even with 10% water mixed with the oil, thrust bearings last from outage to outage.

**Wyeth Ayerst**, located in Pearl River, NY were having problems with accumulation of water in their pump reservoir. The water was degrading the oil causing premature pump bearing failures. Since changing to LE's 6451 ten years ago, they have experienced no pump failures. On a daily basis, the operators drain pure water from the bottom of the reservoir while the pumps are still running.

We wish to thank LE Representative Dave O'Connor (pictured) and the personnel located at the various power plants for providing the information to prepare this report.



Based on actual user experience. Individual results may vary. Product used not intended to supersede manufacturer's specifications.

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