

# Customer Testimonial



## Monolec® Turbine Oil (6463)

### Montana Hydro-Electric Operation Turbines

#### Customer Profile

This Montana hydro-electric operation controls more than 11,000 megawatts of generating capacity in the United States, sells energy in key U.S. markets, and delivers electricity to about four million customers.

#### Application

Francis hydro-electric fixed blade runner turbines and L&S governors.

#### Challenge

The operation's previous lubrication system was built with 350-gallon tanks for the turbines and governors and had a 4,000-gallon reservoir. This was a lot more oil than needed; the power generator supervisor and project manager wanted a smaller system.

Knowing that the oil could see temperatures as high as 200°F (93°C) with a new lube system, they also wanted to use a superior turbine oil.

#### LE Solution

The local LE lubrication consultant helped design and install a new lubrication system with a maximum capacity of 150 gallons, reducing the amount of oil needed onsite and reducing the plant's environmental impact.

The LE consultant recommended Monolec® Turbine Oil (6463), which is designed specifically to combat the effects of high temperatures (oxidation), water, contaminants and heavy loads – all of which accelerate wear. Monolec 6463 ensures longer equipment and oil life.

#### Results

Management at the power generator decided to use Monolec 6463 based on performance specifications. Before the oil changeout, the used competitive oil was found to be beyond any useable criteria.



Ryan Dam, Missouri River



One of six turbines at Ryan Dam





Monolec® is a registered trademark of Lubrication Engineers

Based on actual user experience. Individual results may vary. Not intended to supersede manufacturer specifications.

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