

DuPont Reliability

Krytox® Technology Improves Steam Turbine Governor Control and Reliability



The Problem

Turbine cam shaft or valve lift bar anti-friction bearings, bushings and gears using conventional lubricants wear, fail or lock up over time. This causes excessive clearance, rough response and potential seizing of the governor control resulting in:

- Operational Issues
 - Turbine downtime
 - Loss of steam feed control
- Maintenance Issues
 - Increased maintenance effort and cost
 - Frequent relubrication
 - Employee exposure to extreme component temperatures
 - Failed bearings
 - Oxidation of the conventional lubricant
 - Increased turnaround time to clean, break apart and replace components

The Solution

DuPont Krytox® lubrication technology for turbine governors has been demonstrated to provide the best available equipment performance and lowest available life cycle cost. Krytox® grease will not oxidize or break down. The benefits include:

- Operational Benefits
 - Improved turbine uptime
 - Improved turbine control
 - Reduced operating expense
- Maintenance Benefits
 - Extended component life
 - Extended relubrication interval
 - Safer work environment
 - Reduced effort and cost
- DuPont Reliability
 - Demonstrated in field use for over 7 years
 - Ongoing support to deliver performance and savings
 - Krytox® TG grease is formulated to lubricate and protect turbine governor cams, anti-friction bearings, bushings, linkages and gears
 - Krytox® TG takes the heat without breaking down
 - Krytox® TG protects components from vibration and fretting wear



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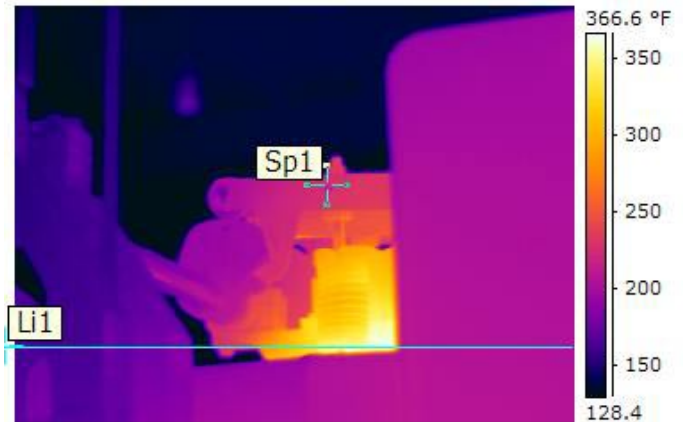
OEM Specifications

Krytox® is specified for use by SiemensWestinghouse for mechanical components requiring lubrication in high temperature environments on Steam Turbine, Gas Turbine, and Generator systems. Refer to Siemens Specifications M-Spec 53701Y6, M-Spec 537001TT and M-Spec 53701VH.

Demonstrated Solutions

For over 20 years, Krytox(r) technology has provided state-of-the-art performance for mechanical systems under harsh conditions. From gearboxes, bearings and chains — to seals, actuators, valves and more — Krytox® serves the specialized needs of:

- Pulp and paper mills and converting plants
- Automotive components
- Military and commercial aircraft
- Chemical plants
- Power plants
- Turbine generators and other critical industrial applications.



Steam turbine governor control

For more information or technical assistance, call DuPont:
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