

Solar® Turbines

A Caterpillar Company

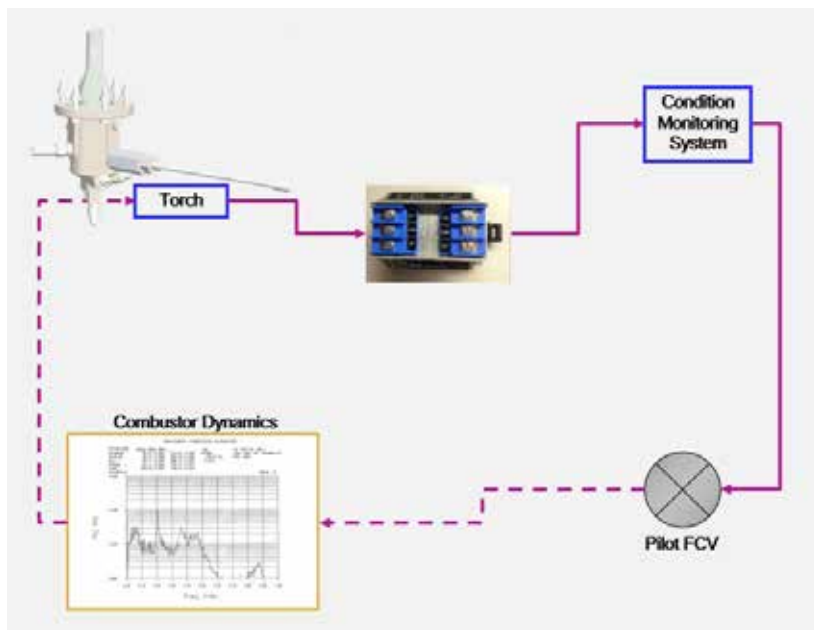
Powering the Future Through Sustainable, Innovative Energy Solutions

BAM WITH ACTIVE CONTROL

Burner Acoustic Monitoring (BAM) with Active Control is the newest solution to prevent damaging combustion rumble and oscillation. When hazardous conditions are observed, it automatically adjusts the fuel system to protect your equipment, prevent costly repairs, and eliminate nuisance alarms.

BACKGROUND

Operations with high levels of combustor pressure oscillations can affect the emissions performance and durability of SoLoNOx™ engines. Combustor pressure fluctuations are detected by a dynamic pressure sensor mounted directly to the engine torch, output through a signal conditioner, and then converted into four frequency bands through the condition monitoring system.



Feature

Benefits

Active Control

- Automatic Equipment Protection
- Reduced Turbine Shutdowns & Maintenance Interventions
- Elimination of nuisance BAM alarms

Improved Sensor

- Reduced Instrument Maintenance
- Improved Reliability

The BAM with Active Control logic calculates and tracks the maximum combustor dynamic pressure amplitude per hour and the cumulative time above Solar-identified amplitude limits. Unbalances in the system such as low ambient temperatures, changes in fuel composition, or fuel deposits can cause combustor instability. BAM with Active Control detects instability and automatically adjusts the pilot fuel control setpoint to prevent possible engine damage while allowing the unit to continue running safely.

This product provides the same customer experience offered with other Solar Turbines products – exceptional support throughout the equipment's entire life cycle.

Additional Information

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