

## DLN 1+ Combustion System for Frame 6B

To help satisfy revised government regulations and business requirements that demand cleaner emissions, GE has enhanced the Dry Low NO<sub>x</sub> (DLN) technology on 6B turbines. This enhanced product builds upon years of GE leadership and experience in the area of combustion technology to reduce NO<sub>x</sub> levels. As part of the new DLN 1+ combustion system available for the 6B gas turbine fleet, GE provides a guarantee to achieve up to 5ppm (10mg/Nm<sup>3</sup>) NO<sub>x</sub>.

This upgraded combustion system helps you to comply with local regulations requiring NO<sub>x</sub> reductions or to enhance a unit's turndown capability. It can be installed during a combustion, hot gas path, or major inspection and is designed to increase the combustion inspection interval to 24,000 hours, based on natural gas operation.

### Features

- Patented combustion system
- Liner dilution design based on proprietary performance, emissions, and reliability data from the fleet of 6B DLN 1 units
- Unique independently controlled pilot fuel optimizes emissions and stability
- Control system optimizes emissions across ambient and load range
- Wear resistant materials and coatings for extended intervals
- Proven and patented sealing technology for tighter performance and longer intervals, leveraged from "F" class system
- Design compatible with existing DLN 1 endcovers
- Compatible with all present and planned 6B improvements, such as Evolution Compressor and new stage 3 components
- Optimized hot gas temperature profile without negative impact to hot gas path component life or performance
- Steam injection and H<sub>2</sub> fuel capable
- Control system feedback loop for ambient variations (such as, temperature or humidity)

### Benefits

- Improved gas turbine emissions: guaranteeing up to 5 ppm (10mg/Nm<sup>3</sup>) with CO levels up to 25 ppm (30mg/Nm<sup>3</sup>) or lower across load and ambient range
- Improved revenue potential from growing NO<sub>x</sub> credit trading markets in the US and Europe
- Reduced maintenance costs due to 24,000 hour combustion inspection intervals
- Eliminates water usage and associated cost by converting to a dry system
- Multi-fuel capability
- Eliminates the need for costly, complex, and large SCR systems

Note: NO<sub>x</sub> values are corrected to 15% O<sub>2</sub>



### Applicability

This offering is applicable to 6B gas turbines with firing temperatures of 2020° F (1100° C) and above.



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