

## Remote DLN Tuning F-Class Gas Turbines

### Latest Tuning Technology Significantly Improves Unit Availability

Designed to reduce pollutants from gas turbines, Dry Low NO<sub>x</sub> (DLN) combustion systems require periodic tuning to account for changes in ambient conditions, fuel conditions and normal component wear. Traditional tuning services are performed onsite, using field engineers and temporary tuning instrumentation. While effective, this process can be both labor and time intensive, requiring up to four days to accomplish the tuning service and resulting in lost turbine generation.

Using GE Energy's new Remote Services Center, GE can now continuously monitor a DLN system and respond to a tuning need within one-to-three hours, significantly improving our customers' turbine availability and reliability. Designed for F-Class turbines equipped with DLN 2.6 and 2.0 combustion systems, GE's remote services provide same-day response with experts prepared to deliver tuning service typically within hours of receiving a customer request. This unique service offering eliminates the need for on-site temporary tuning kits and a DLN field engineer, reducing the time required for tuning from one-to-three days down to one-to-three hours.

### Service Features

GE's Remote DLN Tuning service offers customers:

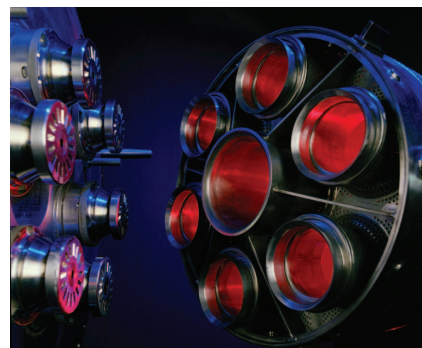
- Remote monitoring and tuning of the combustion system's performance
- Continuous, 24/7 monitoring and diagnostics to identify the need for system tuning
- Fast turnaround – typically conducted in hours instead of days
- Access to GE's DLN tuning experts and equipment in its Atlanta-based Remote Services Center
- Flexibility to schedule tuning during planned and unplanned outages

### Customized Service Offering

GE's remote services are customized to meet the operating and business needs of our customers. The remote DLN tuning service requires a multi-year contract and technology sharing agreement. To allow for this fully remote service, sites must have a T1 connection capability and a MKV or MKVI HMI turbine control system with continuous emissions data.

### GE's Expanded Remote Service Portfolio

GE's Remote DLN Tuning service is just one of several offerings available through GE's Remote Services Center. To provide expert tuning and diagnostic services within minutes of a customer need, GE relies on operational data gathered through its Monitoring and Diagnostics Center, which is currently monitoring more than 1,000 generating units worldwide. GE's Remote Services Center provides this data to its group of highly experienced, remote-certified GE field engineers to produce real-time expert diagnostic and tuning services. The Remote Services portfolio is expanding to include remote Control Diagnostics, Excitation Diagnostics, and Performance Diagnostics services. These remote services enable customers to quickly and cost-effectively augment their operating staff with on-demand expert services.



## Typical Benefits

- Improves unit availability by up to three days
- Decreases tuning time and dedicated resources
- Provides real-time diagnostics through continuous monitoring
- Allows for more frequent tuning, achieving greater performance and operational flexibility
- Eliminates time-consuming installation and removal of temporary tuning kits
- Minimizes complications associated with on-site temporary tuning kits
- Ensures services are provided by remote-certified GE field engineers
- Enables future GE value-added remote services

## GE Remote Services

- Turbine Monitoring
- Combustion Dynamics Monitoring
- DLN Tuning
- Control Diagnostics
- Excitation Diagnostics
- Performance Diagnostics



For more information about GE's remote services platform, contact your GE Energy sales representative or visit [gepower.com/airquality](http://gepower.com/airquality).