DLE Upgrade

Applicable fleet SGT-300, SGT-200, SGT-100

Life-Cycle Cost | Availability | Reliability | Efficiency | CO_2-savings | Flexible Operations

Reduction in Emission

25 ppmv of CO,NOx and less than 10 ppmv on HC.

Product Overview

Since its first release over thirty years ago, the field proven DLE combustor has delivered reliable clean combustion with low emissions over a wide operating range.

Dry Low Emissions (DLE) is a method of reducing emissions of Oxides of Nitrogen (NOx) and Carbon Monoxide (CO) from the gas turbine without utilizing steam or water injection.

Improved Features

Upgrading to the gas and liquid fuel DLE combustion system not only drastically reduces the emissions, it also provides greater control over the engine combustion which results in a more reliable starting philosophy and generally improved operational capabilities.

Benefits

- Reduced NOx, CO and smoke emissions (Less than 25 ppmv relative to 15% O2 -dependent on engine type and rating)
- Reduced smoke and unburned hydrocarbon (UHC) emissions (Typically less than 10 ppmv relative to 15% O2 -dependent on engine type and rating)
- Low smoke emissions, < Bacharach 1 (no visible plume)
- Improved starting
- Improved response and controllability

Scope of work & Implementation

- Service Exchange DLE Gas Generator and Power Turbine
- Fuel System Upgrade
- Control System Upgrade
- Electric Variable Guide Vane Actuator Upgrade