

MeeFog™ Project Profile

Gas Turbine Inlet Air Fogging

1x LM-2500 Gas Turbine - Hawkins, Texas



Project Summary:

This MeeFog™ System was installed in 1997 on an LM-2500 that drives air compressors at a gas plant. It was designed for evaporative cooling and overspray (wet compression). According to the operator, the system has been used every summer for over 23 years with no negative impact to the gas turbine.

Project Conditions:

- Location: Hawkins, Texas
- Hot day conditions: 100 °F and 32% RH (75 °F wet bulb)
- Model: LM-2500 Gas Turbine
- Elevation: 410 feet
- Mee's scope of work: Design, build, supervise installation
- Max power boost per GT: 2.6 MW

Fog System Design:

- Cooling Stages: 3
- Operating Pressure: 2,000 psi
- Fog Droplet Size: 19 micron (DV 90)
- MeeFog™ Nozzle Count: 225
- Nozzle Flow Rate: 0.045 gpm per nozzle
- Max. Water Flow: 10.2 gpm
- Max. Power Requirement: 15 HP