

Meefog™ Project Profile

Gas Turbine Inlet Air Fogging

8 x Diesel Generators - Kabul, Afghanistan



Project Summary:

The U.S. Embassy in Kabul, Afghanistan needed to cool two large rooms that house the diesel generators that power the embassy. They installed eight MeeFog™ systems to provide 36°F of evaporative cooling for each of the eight air inlet serving the 2-MW diesel generator. Each inlet has a fog system consisting of a 1000-psi fog pump unit, staging valves, interconnecting feedlines and a fog nozzle array.

Project Conditions:

- Location: Kabul, Afghanistan
- Hot day conditions: 93.5 °F and 11% RH
- Model: Diesel Generators
- Elevation: 6,000 feet
- Mee's scope of work: Equipment supply
- Max cooling per Generator: 36°F

Fog System Design:

- Cooling Stages: 8
- Operating Pressure: 1,000 psig
- Fog Droplet Size: 10 microns (D32)
- MeeFog™ Nozzle Count: 780
- Nozzle Flow Rate: 0.013 gpm
- Max. Skid Water Flow: 6.9 gpm
- Max. Power Requirement: 10 HP