## Meefog<sup>™</sup> Project Profile Gas Turbine Inlet Air Fogging

2 x GE 7FB.04 Gas Turbines - Wisconsin



New MeeFog<sup>™</sup> Skid



Typical OEM-supplied fog skid

## **Project Summary:**

Two existing OEM-supplied fog systems were replaced with MeeFog<sup>™</sup> systems. The original systems had five pumps that required excessive maintenance and a winterization procedure that took days to accomplish. The MeeFog<sup>™</sup> system has one water lubricated pump located inside a heated pump shelter. Staging valves provide 16 cooling stages. A VFD slows the pump down as staging valves close to maintain 2,000 psi discharge pressure. Winterization is automatic, drain valves open when the ambient temperature falls below a setpoint. The fog controls were integrated into the Ovation DCS.

## **Project Conditions:**

Location: Wisconsin

• Hot day conditions: 89 °F and 52% RH

Model: GE 7FB.04

Elevation: 658 feet

Mee's scope of work: Turnkey including

installation

Max power boost per GT: 14.50 MW

## Fog System Design:

Cooling Stages: 16

• Operating Pressure: 2,000 psi

• Fog Droplet Size: 19 microns (Dv90)

• MeeFog<sup>™</sup> Nozzle Count: 780

Nozzle Flow Rate: 0.045 gpm

• Max. Skid Water Flow: 35 gpm

• Max. Power Requirement: 60 HP





