SERVICES

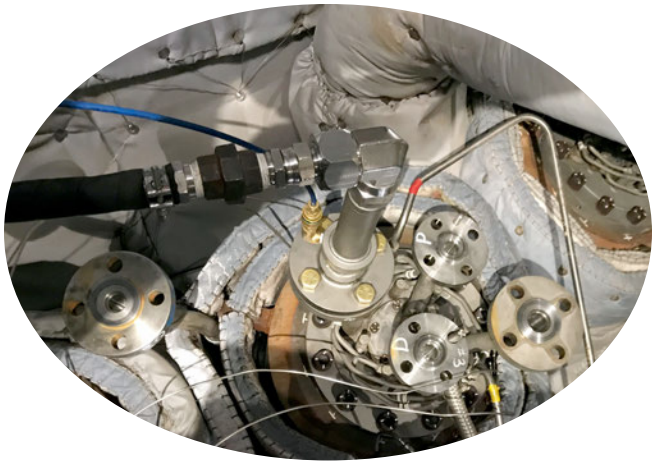
PORTABLE IN-SITU AIR FLOW TEST STAND

Conclusive Data on Gas Turbine Nozzle Performance

An alternative to a complete system nozzle teardown or replacement, this on-site flow analysis pinpoints flow variances for accurate & expedient service decisions and proper resolution.

Our advanced engineering expertise combined with the Portable In-Situ Flow Test Stand results can confirm or deny that a particular nozzle is the cause of non-ideal unit operation. Informed decisions can then be made for nozzle replacement, or for continued gas turbine operation.

GE® 7EA



Siemens® 501 ULN

Overview

During the on-site flow testing process, fuel nozzles can remain attached to the gas turbine end covers. Individual nozzle operation is compared with neighboring nozzles or with available benchmark data.

Informed decisions can then be made for nozzle replacement, or for continued gas turbine operation. The data also serves as a specific foundation for any further investigations either upstream or downstream.

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Results

MD&A experience with the flow testing is often early or mid-cycle between scheduled outages and has also been used for post-startup concerns to determine if a particular nozzle or group is within calibration.

The common goal is an immediate, recorded analysis of air and gas flow issues allowing informed service and operating decisions.

Stay On Schedule

Flow test time and labor are minimal, requiring only one flow-bench operator and one individual for manual task support. Once an area of concern is identified from unit flow charts, testing can normally be completed within one shift.

The cost savings associated with this type of flow test can range from cost avoidance for not having to perform an outage to savings from minimal downtime.

Portable In-Situ Air Flow Test Stand Benefits:

- Cost savings
- Outage and extended downtime can be avoided
- Minimal test time and labor required
- Fuel nozzles can remain attached

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