

SGT-A65 Power Push

66 MW Rating Upgrade

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Increase Gas Turbine Output Power up to 66 MW

Product Overview

SGT-A65 Gas Generator and package modifications are available for retrofit to existing in-service units to allow increased power output up to 66 MW whilst maintaining component overhaul lives and overall unit reliability.

Technical Description

The increased power modifications may affect several Gas Turbine hot and cold section components depending on the desired power output profile and current engine configuration.

An option to extend power increased at higher ambient temperatures is available through introduction of Inlet Spray Intercooling (ISI). This requires a supply of Demineralised water.

Package medications are also provided to enable higher power ratings as required.

Features and Benefits

Baseline power rating of up to 66 MW at ISO conditions for WLE units.

Hot ambient temperature power output increase of up to 10 MW when adding Inlet Spray Intercooling (ISI).

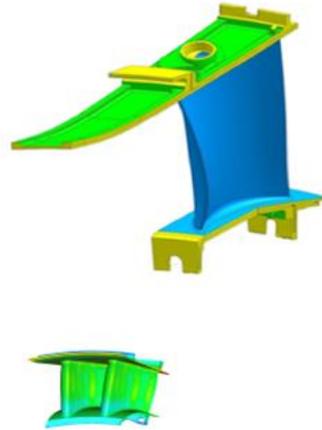
Actual power increases are subject to current gas generator and package configurations, site ambient condition as well as any driven equipment limitations.



Applicability

Siemens Energy SGT-A65 Gas Turbines with Ph III or Ph IV packages rated at 58 MW or 64 MW respectively (A65-B and A65-C rated Gas Turbines).

It is mandatory that the Control System is the FT-125 model (either installed as a datum feature or through the FT-125 Controls Upgrade offering).



Scope of work

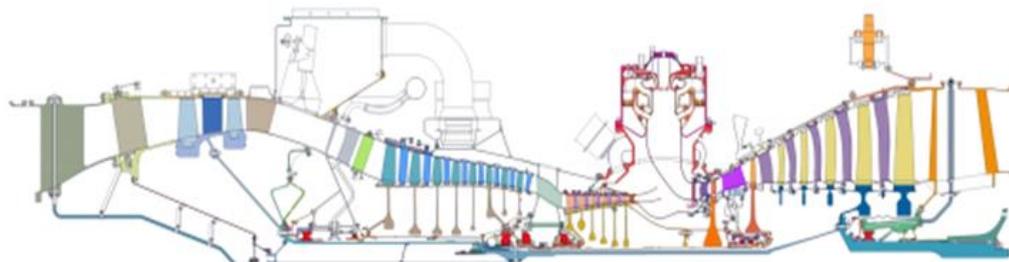
Depending on the output power requirements and current Gas Turbine and Package configuration, required modifications may include the following:

- Udimet HP Turbine Disc and supercooled HP turbine Blades.
- Latest combustion hardware and Discharge Nozzles for DLE units.
- Package related modifications. (May vary depending on current package standard and configuration).
- Engine and Package control Software changes to accommodate new power capability.
- Modifications to the driven equipment and related package Hardware and Software (if required).

Embodiment

Required Gas Turbine modifications shall be undertaken at a Siemens Energy authorized Maintenance, Repair and Overhaul Centre.

Package related modifications to be completed at site during an outage.



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