Applicable to all SGT-A35 C, G and GT units
SGT-A35 (Industrial RB211) gas generator is a consistently reliable aeroderivative gas turbine from Siemens with application across the entire value chain of oil and gas including offshore and onshore. SGT-A35 has RT62 power turbine closed coupled to the rear of the gas generator. In its 40-year evolution, the SGT-A35 has accumulated over 38 million equivalent operating hours across a global fleet of more than 400 units. It’s lightweight, compact, modular package design to maximize power density as well as adaptability to seasonal operations makes it a great fit for various applications.

RT62X Product Overview
The RT62X power turbine is designed as an upgrade of the legacy RT62 power turbine installed on over 400 Siemens SGT-A35 C, G and GT units. The RT62X provides the key major benefits:
• Efficiency increase
• Power output increase
• Time between overhaul (TBO) increase

Moreover, as each benefit is independent of the other, the RT62X provides flexibility to our customers by allowing customization of benefit selection to meet their operating needs.

Technical Design Improvement
For optimum performance, key components within the power turbine were reevaluated and redesigned. Key changes are as such:
• **Turbine blades (1st and 2nd stage):** Revised 3-D aerodynamic design resulting in decreased blade profile losses
• **Nozzle guide vanes (1st and 2nd stage):** Revised 3-D aerodynamics and decreased trailing edge thicknesses for improved efficiency and for life extension
• **Honeycomb tip seals:** Improved tip seal design resulting in decreased tip seal leakage and better control on tip clearances
Features and Benefits

- Up to 1% increase in cycle efficiency resulting in significant fuel savings
- Higher production via power increase of up to
  - 2% for C/G/GT units at 132,000 hours TBO
  - 4% for G units at 100,000 hours TBO
  - 6% for GT units at 100,000 hours TBO
  - 8% for GT units at 50,000 hours TBO
- Power increase for G and GT beyond 2% achieved through throttle push.
- 32,000 hours life extension for increased availability
- Independent benefits allow for customization to fit customers specific requirement

Applicability
All Siemens RT62 power turbines installed on all SGT-A35 C, G and GT units

Support Services and Implementation
Implementation of the RT62X upgrade is done via a Zero Hour scope. The scope is similar to the Zero Hour scope for a legacy RT62 power turbine which is undertaken at an 100,000-hour interval.

It is recommended to plan for the upgrade at least 1.5-years prior to your next 100,000-hour interval. Please contact your Siemens Sales Representative for further information or via Siemens myAdvisor page at siemens.com/myAdvisor

Scope of work
The Zero Hour scope for the RT62X upgrade involves replacement of key hot gas path components, supplied in pre-assembled kits.

Undertaken
Assembly of kits is done at Siemens authorized facility

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