



G.T. INLET & EXHAUST MAINTENANCE

Keeping your power assets operating at their peak

www.baltecies.com



ABOUT Baltec IES

Baltec IES has over 30 years' experience designing, manufacturing, installing and after sales support of inlet and exhaust systems for gas turbines up to and including H class.

We partner with plant owners and use our intimate knowledge and expertise in these areas of the plant to enhance plant performance and profitability.

BENEFITS OF IN-DEPTH KNOWLEDGE & EXPERTISE



OUR OBJECTIVE

Enhance plant availability and profitability.



QUALITY SPARES

Provide quality OEM spares.



EFFECTIVE SOLUTIONS

Design & deliver solutions to maintain or improve plant capacity.



MAINTENANCE

Design & implement preventative maintenance to eliminate forced outages.

A GLOBAL COMPANY

Baltec has successfully executed projects and services all over the world thanks to a strong network of international offices & partners. As a result, no site location is too far or too remote for Baltec to handle.





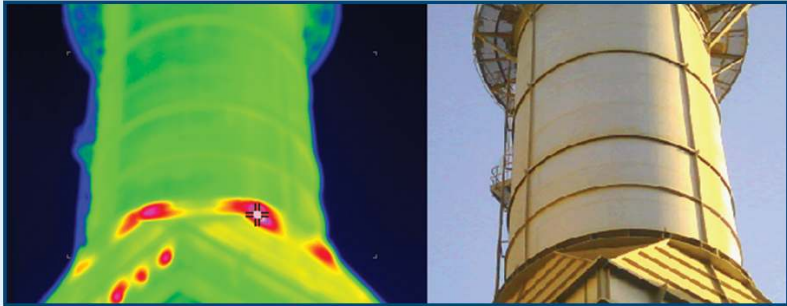
CONDITION INSPECTIONS



Crack identification and repair.



Filter element & filterwall leak & blockage checks.



Duct thermal surveys to identify crack risk and energy loss areas.



Baltec have expert inspectors available to mobilize to your site to undertake a detailed condition inspection and report of findings for:

- ☒ Filters

☒ Cooling Systems

☒ Inlet Ductwork

☒ Electrical Control Systems

☒ Inlet & Exhaust Silencers

☒ Exhaust Plenums

☒ Exhaust Diffusers

☒ Expansion Joints

☒ Exhaust Ductwork

☒ Diverter Dampers

☒ Hydraulic Systems



MAINTENANCE & SERVICE PLANS

Baltec can provide valuable assistance to your operations & maintenance teams to implement and maintain comprehensive Maintenance & Service plans for the critical equipment around the Gas Turbine:

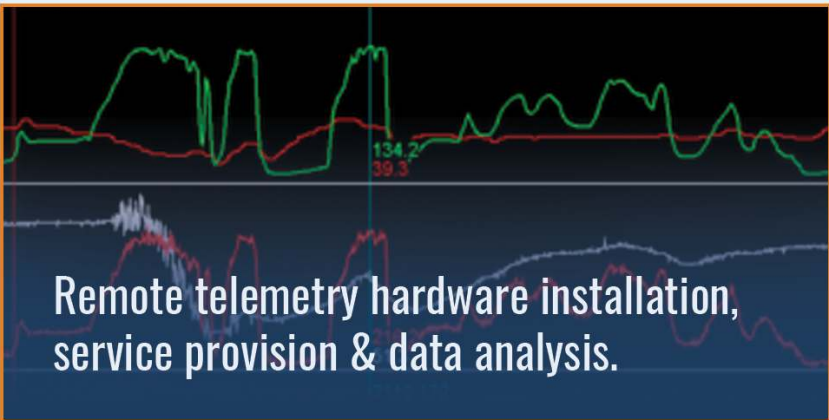
- ☒ Development & execution of comprehensive maintenance checklists.
- ☒ Implementation & provision of remote telemetry systems.
- ☒ Maintenance technician supervision for maintenance activities.



Field service personnel supervision for execution of maintenance programs.

| Maintenance Item | 3 month | 6 month | 12 month | 24 month | Shutdown |
|---|-----------|-----------|-----------|-----------|----------|
| Diverter Damper Blade Cycle Normal Speed | Test | Test | Test | Test | |
| Diverter Damper Fan Current | Inspect | Inspect | Inspect | Inspect | |
| Diverter Damper Fan Bearings | Lubricate | Lubricate | Lubricate | Lubricate | |
| Diverter Damper Air Barrier Pressure | Inspect | Inspect | Inspect | Inspect | |
| Diverter Damper Blade Cycle Emergency Close | | Test | Test | Test | |
| Diverter Damper Air Barrier dP System | | Inspect | Inspect | Inspect | |
| Diverter Damper Fan Vibration | | Inspect | Inspect | Inspect | |
| Hydraulic Cylinder | | Inspect | Inspect | Inspect | |
| Hydraulic Cylinder Bearings | | Lubricate | Lubricate | Lubricate | |
| Diverter Damper Pivot Bearings | | | Inspect | Inspect | |
| Diverter Damper Shaft Seals | | | Inspect | Inspect | |
| Diverter Damper Toggle Bearings | | | Inspect | Inspect | |
| Diverter Damper Casing | | | Inspect | Inspect | |

Inspection & maintenance schedules.



Remote telemetry hardware installation, service provision & data analysis.

FIELD EQUIPMENT REPAIRS

Design and manufacture of modifications to address failure points.

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Design and manufacture of the permanent rectification system.

Removal of failed silencer splitter for re-packing & repairs.

Cracking detected & temporary repair activities conducted.

Scheduled outages are the rare opportunity to undertake much needed repairs on critical equipment to ensure the power plant will operate reliably and efficiently until the next scheduled outage.

Baltec can assist in this critical period by providing:

- ✓ *Field equipment inspections.*
- ✓ *Design of repair methods.*
- ✓ *Manufacture of required parts.*
- ✓ *Technical supervision of repairs.*
- ✓ *Ongoing monitoring of repairs.*



REPLACEMENTS RETROFITS & UPGRADES

Upgrades and retrofits are a necessity to ensure your plant meets or exceeds availability and production targets.

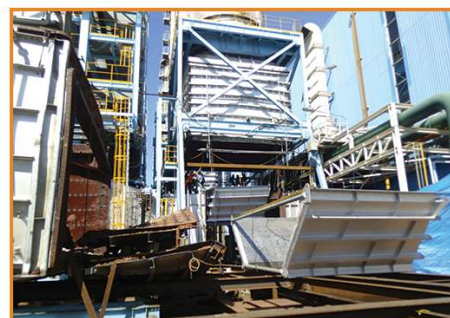
Baltec can assist by ✓

Upgrading, refurbishing or replacing existing:

- ✓ Filter houses
- ✓ Diverter dampers
- ✓ Expansion joints
- ✓ Silencers
- ✓ Control Systems
- ✓ Inlet heating systems
- ✓ Inlet chilling systems
- ✓ Inlet fogging systems
- ✓ Wet compression systems



Gas turbine exhaust plenum flange insulation modification and expansion joint upgrade.



Replacement of diverter damper and silencer inlet transitions.



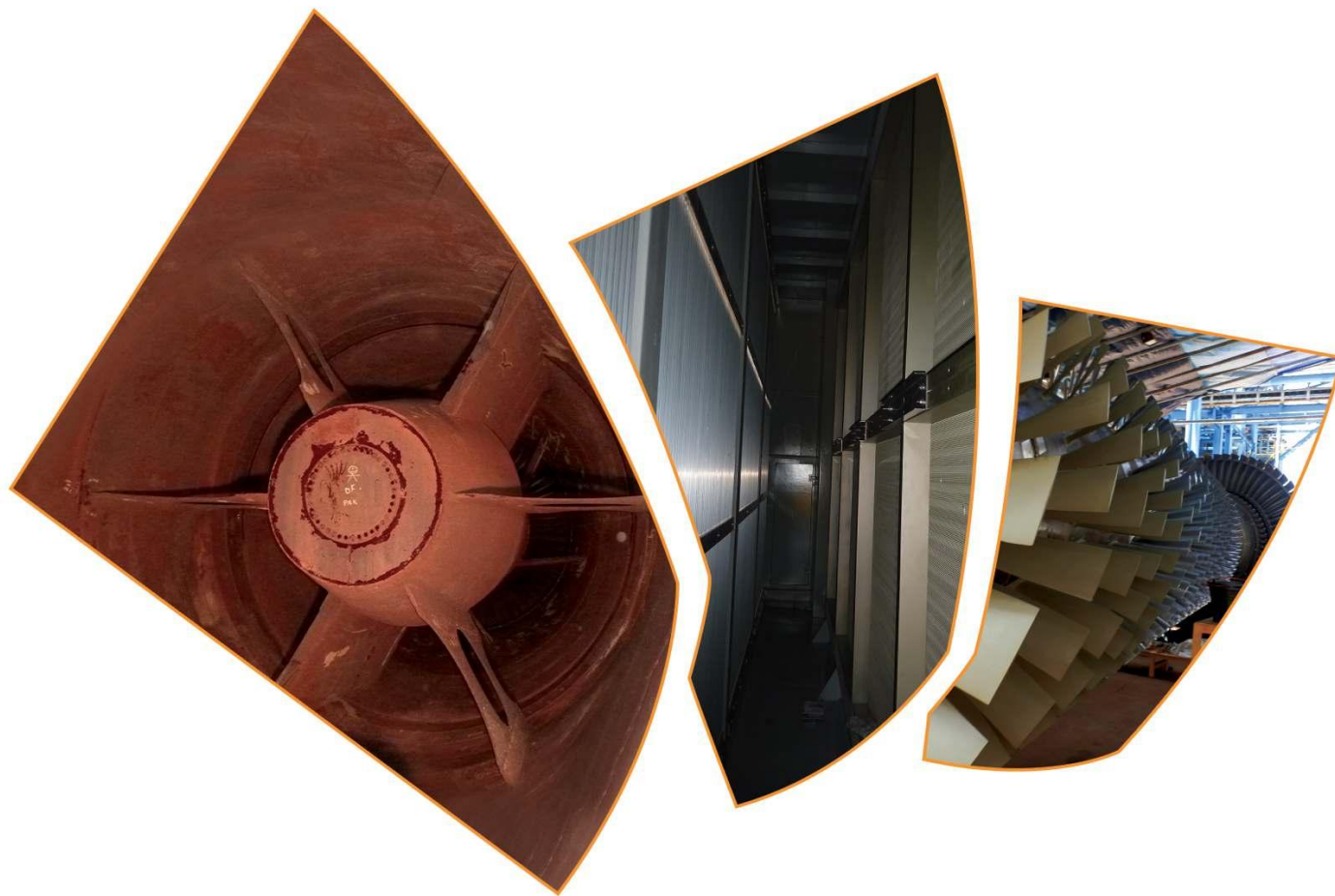
Wet compression system on Siemens SGT5-4000F.

SPARE PARTS

Baltec manufactures and supplies a broad range of original OEM components.

The areas that Baltec frequently supplies parts are:

- ✓ Electrical Control System components
- ✓ Filters & Filterhouse components
- ✓ Exhaust Plenum liners
- ✓ Fogging System components
- ✓ Diverter Bearings
- ✓ Inlet & Exhaust Expansion joints
- ✓ All Exhaust Ductwork components
- ✓ Diverter Drive components
- ✓ Diverter Blade Seals
- ✓ Silencer Splitters and splitter infl
- ✓ Hydraulic System parts



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