

Siemens-Westinghouse W501F

Advanced Repairs available only from Liburdi Turbine Services

The Liburdi Advanced Repair Program offers:

- Extended Reliable Service Life
- Reduced Maintenance Expenses
- Upgraded Components that Eliminate Design Deficiencies

The Advanced Repairs Program developed by Liburdi has been proven in power generation applications around the world. These repairs, available only from Liburdi Turbine Services, fully restore critical turbine components at a fraction of the cost of new replacement parts; maintaining or improving component integrity while creating significant savings for the operator.



Advanced “F Class” Repairs for W501F (SGT6-5000F) Blades

Row 1 Blades – Full-Life Refurbishment and Upgrade

- Superior tip weld alloy reduces burn-back and maintains performance for full service interval
- FSR® Rejuvenation heat treatment avoids scheduled blade retirement
- Full coating replacement
 - External Options: NiCoCrAlY, or NiCoCrAlY plus LSR® aluminide, or Sintered Strain Tolerant TBC

Row 2 Blades – Upgrade and Extend Service Life

- Full chemical coating removal
- Trailing Edge and platform crack repairs
- FSR® Rejuvenation heat treatment process restores alloy strength
- Dimensional repair and reprofile of tip for improve efficiency
- Sintered Strain Tolerant TBC available

Row 3 and 4 Blades – Restore and Upgrade

- Restore tip and shroud Z-notch surfaces and dimensions
- FSR® Rejuvenation heat treatment process restores alloy strength
- Upgrade with overlay or LSR® diffusion aluminide airfoil coating, customize for service conditions

Advanced “F Class” Repairs for W501F (SGT6-5000F) Vanes

Row 1 and Row 2 Vanes – Extended Life Repairs

- High strength LPM® process for heavy crack repairs – outperforms conventional welding
- Advanced internal coatings and external TBC to improve nozzle durability
- Eliminate local hot spots with cooling modifications



Row 3 and Row 4 Vanes – Extended Life Repairs

- Low distortion, HAZ crack free LPM® for crack repairs
- Downstream lean distortion correction with precision machining
- Available new advanced LSR® aluminide or overlay coating options

Liburdi’s engineering team leads the industry in the development and application of component upgrades that address original design deficiencies and yield improved durability and increased power and efficiency.

LPM® is a patented process of Liburdi Engineering Limited. LPM® has achieved a proven track record over the past decade and is approved by OEMs for both repair and the manufacturing of new parts.

Liburdi’s extensive experience with rejuvenation heat treatment processes, combined with its unique stripping and coating capabilities, ensures that every repaired component meets or exceeds the original equipment performance and durability requirements in future service.

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