

# Liburdi Turbine Services - Component Repair Newsletter



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## New Repairs Introduced to Recover RB211 Compressor Stators

The Mod 1275 Stage 5 RB211 HP Compressor Stators (P/N UL25370) are prone to cracking and separation of the inner rail locating tabs and in the past have required replacement and extra cost to the turbine operator. Working with TransCanada Turbines (TCT), Liburdi has engineered a unique weld repair that restores the tab and upgrades the brazed-on hardface with a hardface weld alloy for durability in future service. This unique repair is now available through TCT as LTS09492 – the repair number assigned to Liburdi by Rolls-Royce.

Repair of these components can achieve significant savings at the time of each overhaul – avoiding the cost of new replacement parts which can be in the order of \$45,000. USD.



In addition to the Mod 1275 Stage 5 Stator repair Liburdi is developing new repairs Stage 4 and Stage 5 standard HP Compressor Stators that will upgrade the brazed-on hardface wear tabs with a secure welded hardface.

Liburdi is also repairing the side abutments that wear in service for IP Compressor Stage 1, 2, 3, and 4 Stators so that these parts can also be returned to service instead of installing new parts.

Experience is demonstrating that the parts repaired using the advanced techniques are more likely to be repairable at the next maintenance interval than the standard repairs.

Liburdi has introduced advanced repairs for RB211 HPT and IPT Turbine Blades, NGVs, and Seal Segments in the past ten years which are able to extend the number of service intervals for these parts – the net savings to the operator can range between \$400,000 to \$1,000,000 during an overhaul depending on how many of the Liburdi Advanced Repairs are employed.

## TransCanada Turbines experience with Advanced Repairs

TransCanada Turbines (TCT), a Global OEM authorised, Maintenance Repair and Overhaul facility (MROC), has been employing the OEM approved advanced repairs from Liburdi on both RB211 and Avon overhauls for several years.

The addition of the latest RB211 Compressor Vane repairs will now join the advanced repairs from Liburdi that they offer for turbine blades and nozzle guide vanes.

Dave Lympany (TCT) says “We have been working together with Liburdi and some of our key operator customers to identify new approved repair opportunities for their Rolls-Royce engines. This creates opportunities to reduce current and future maintenance costs, while restoring reliability for their engines.”

For further information on the full range of services offered by TCT,  
**Please contact Dave Lympany**  
[dave\\_lympany@tcturbines.com](mailto:dave_lympany@tcturbines.com)  
or go to our web site at [www.tcturbines.com](http://www.tcturbines.com)

For further information on these and other exciting repairs offered by Liburdi,

**Please Call Tony Brough or Lloyd Cooke 905-689-0734**

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