

**ATLANTIC GAS TURBINE CENTER, INC.**  
3505 NW 153<sup>rd</sup> Street  
Miami Gardens, Florida 33054

February 6, 2013

Aircraft Engine Management Services, Inc.

Attn: Mike Maier

Dear, Mike

Atlantic Gas Turbine Center, Inc. is pleased to quote the repair of your JT8D-7B Engine serial Number 654373

Details are as follows:

**Workscope**

**PRE-INDUCTION**

- a) Inspect & inventory engine external parts. Provide customer with listing.
- b) Perform all repairs in accordance with P&W EM P/N 481672- latest revision
- c) Minimum build will be 2,000 Cycles / 4,000 hours

**ENGINEGENERAL**

- a) Inspect all exposed bearings, seals and gears.
- b) All exposed bearing/ oil system compartments to be flushed and continue time inspected
- c) Any bearings that fails inspection will be routed for outside vendor for overhaul

**FAN**

- a) Module to be inspected for continue time service
- b) C1 and C2 Fan Blades to be inspected and repaired, as required insitu.
- c) Check balance

**LPC**

- a) Do not disassemble, visually inspect for continue time

**INTERMEDIATE CASE**

- a) Do not disassemble, continue time inspect

**HPC**

- a) Remove high pressure compressor and de-stack the high pressure compressor disk

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- b) De-blade all disks.
- c) The C7, C8, C9, C10, C11, C12 and C13 disks will be stripped, repaired/overhauled and coated for completion of AD 2003-12-07 (P&W S/B 6431, 6426 & 6468)
- d) Check compliance with AD 2006-17-07
- e) All HPC blades to be installed in overhauled condition
- f) The stators will be inspected, repaired as required
- g) Compressor will be re-assembled, static and dynamic balanced.

#### **HOT SECTION / DIFFUSER / NOZZLE CASE MODULE**

- a) Perform HSI, all Fuel Nozzles to be installed in serviceable condition
- b) T1 Nozzle guide vanes to be installed in overhauled condition
- c) T1 outer air seal to be installed in serviceable condition
- d) Combustion Chamber Support assembly will be visually inspected.
- e) Install serviceable Combustion Chambers per AD 86-09-02
- f) The OCC will have an ultrasound inspection performed after build as per AD 96-23-14

#### **HPT**

- a) Remove and inspect T1 disk/ Shaft assembly. Check balance
- b) Inspect No.5 bearing housing, seal housing and all bearing/oil related parts.
- c) No.5 carbon seal will be flow checked
- d) Assemble module to be balanced to serviceable limits and re-installed

#### **LPT**

- a) Disassemble and inspect and re-class T2 NGV's.
- b) Visually inspect T2, T3 & T4 disk/blade assembly
- c) Visually inspect all spacers, airseals and shrouds
- d) Visually inspect all remaining parts.
- e) Assemble and check balance LPT module.

#### **EXHAUST CASE**

- a) Exhaust case will be removed. Check #6 brg hsg. for concentricity
- b) Install serviceable thermocouples and EGT harness

#### **GEARBOX**

- a) Gearbox to be visually inspected and pressure checked.

**ACCESSORIES-** Functionally all accessories check during test run.

**BEARINGS-** Visually inspect all exposed bearings. Install #3 bearing in overhauled condition.

#### **FINAL SERVICES**

- a) Upon completion of repairs, the engine to be reassembled and sent for full performance Type III test cell run.
- b) Cross Bleed check to be performed for No.2 position B-727 aircraft.
- c) The oil & fuel system to be preserved for long term storage
- d) Records package including FAA form 337, FAA 8130-3, Airworthiness Directive, Disk sheet and complete test cell run to be furnished to customer upon completion of repairs. The final package (travelers, repair tags etc...) will be available within 7 working days of engine delivery

**Budgetary**

Labor	65,000.00
Expendables	12,500.00
Consumables	8,500.00
Outside Vendors	38,000.00
Remove & Re-install QEC	10,000.00
Parts	90,000.00
Test Cell	13,000.00
<b>Total (Fixed rate not to exceed)</b>	<b><u>\$ 237,000.00</u></b>

Terms: 50% of repair estimate upon acceptance, balance after test.

Shipping charges from Stambaugh Aviation, Inc. will be billed separately.

Standard warranty for work performed by Atlantic Gas Turbine Center, Inc. is (12) Months, 1,000 hours or 1,000 cycles whichever occurs first.

Turn Time: 35-40 Days from initial signed acceptance and deposit received.

Please feel free to contact me with any questions you may have with regards to this estimate, or any other matter that may arise.

Cordially,

Edward J. Annoual Jr.  
Cell: [REDACTED]

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Accepted and approved by

