ENG 3. 2ND STAGE FAN BLADES INSP

MAINT	RII/INSP

Execution / Start Date:	
End Date:	

ENG 3. 2ND STAGE FAN BLADES INSP

	MAINT	RII/INSP

Nr.	Hardtime	Task	Spec.	Related Documents
1.		E4 S	INS	MMS–328 723004 A0103 rev 03/04/00 SAB 72–256 rev .

Check: B

Zones: 453

Access:

ENG 3. 2ND STAGE FAN BLADES:

1. INSPECT L.E. OF 2ND STAGE FAN BLADES WITH A BOROSCOPE TO DETECT NICKS, DENTS AND / OR CRACKS.
   ALL NICKS, DENTS AND / OR CRACKS WILL BE BLENDED PER LIMITS OF PWA JT3D–7 MM. CHAPTER 72–0 PAGE 603 & FIG.601 PAGE 604.
   NO MORE CRACKS ALLOWED AFTER BLENDING.

NOTE: INSPECT FAN BLADES BEFORE WATER WASH ENGINE.

2. PERFORM WATER WASH ENGINE (SEE MM.JT3D–7 CHAPTER 72–00PG 711 & 712 PARAGRAPH C) WITH WATER IN ORDER TO CLEAN THE 2ND STAGE FAN BLADES.

   A. CONDITIONS:

   1. Eng. shut down & allow at least 30 min. for eng. to cool.

   B. PROCEDURE:

   1. Pull IGNITION CB's for eng being washed.
   2. Disconnect GENERATOR COOLING INLET (AFT) SUPPLY DUCT.
      Install red cap for protection on disconnected duct.
   3. Ensure that start lever for eng. being washed is in "OFF" pos.
   4. Ensure that all anti–ising air shut–off, fuel de–icing heater shut–off & airframe bleed extraction shut–off valves (except eng. bleed valves) are CLOSED.
   5. Check N2 rotation is completely stopped, then engage starter & allow eng. to reach full starting rpm. Do not exceed starter duty cycle.
   6. Spray clean potable water into eng. inlet at 35–45 psi for 30 sec while motering eng. with starter. Spray should be directed toward center of eng. inlet but not directly at nose cone. Approximately 40 – 50 gallons of water may be discharged into eng. in 30 sec period.

ENG 3. 2ND STAGE FAN BLADES INSP

MAINT	RII/INSP

7. Turn water off & release starter.

8. Allow eng. to drain for +/– 5 min.

9. Repeat steps 5 to 8 as desired (generally 2 to 4 times) to obtain incremental improvements in eng. surge margin & performance, based on operator's experience.

10. Inpect inlet guide vanes to ensure that they are undamaged.

11. Reset IGNITION CB's FOR WASHED ENG.

12. Remove plug from fuel control Pb tube moisture trap & check for entrapped water.

13. Remove protection cap & reconnect generator cooling duct.

14.– If eng. is to remain inoperative for 4 hours or more, after washing, start eng. & run at idle for 5 min. Operate anti–icing air shut–off, fuel de–icing heater shut–off & applicable airframe bleed extraction shut–off valves.

–Shut down eng. & recheck fuel control Pb tube mixture trap for water.