AD/CFM56/10 Amdt 1 — Stage 1-2 Spool HPC and No.3 Bearing Aft Stationary Air/Oil Seal — 10/98

Applicability: CFM International (CFMI) CFM56-2 and CFM56-3, -3B and -3C model turbofan engines.

Requirement:

1. CFM 56-2: Remove from service HPC stage 1-2 spool, part number 9992M60G07 having rubbing marks and with serial numbers as listed in manufacturers' Service Bulletin CFM56-2 No. 72-825, dated 23 January 1998 in accordance with the provisions of Service Bulletin CFM56-2, 72-825, and replace with a serviceable part.

2. CFM56-3, -3B, -3C: Remove from service HPC stage 1-2 spool part number 1589M66G02 with serial numbers listed in Service Bulletin CFM56-3/-3B/-3C 72-856 dated 23 January 1998, in accordance with the provisions of Service Bulletin CFM56-3/3B/3C 72-856, and replace with a serviceable part.

3. CFM56-3,-3B, -3C: Engines with serial numbers 856692, 856709, 856713, 856799, 856673, 856691, 856694, 856696, 856697, 856746, 856780, 857669, 857685, 857686, 857704 and 859115 carry out the following actions:

   a. Remove from service the No. 3 bearing aft stationary oil seal part number 1663M91G03 and replace with a serviceable part, and

   b. Install a No.3 bearing aft air/oil serial retention bushing in accordance with Service Bulletin CFM56-3/3B/3C No. 72-855 dated 23 June 1997.

Note: For the purposes of this Airworthiness Directive, the following definitions apply:

(1) A serviceable spool is defined as a HPC1-2 spool without a rub or scratch indication.

(2) A serviceable seal is defined as a **new** No. 3 bearing aft stationary air/oil seal part number 1663M91G03 **without** one of the following serial numbers**:**

CTD81631, CTD81907, CTD81908, CTD81998, CTD82004, CTD82132, CTD82208, CTD82210, CTD82212, CTD82213, CTD82271, CTD82295, CTD82297, CTD82298, CTD82300, CTD82304, CTD82457, CTD82759, CTD82766, CTD82767, CTD82788, CTD82817, CTD82822, CTD82854, CTD82855, CTD82856, CTD82857, CTD82859, CTD82962, CTD83232, CTD83474, CTD83837, CTD83839, CTD84100, CTD84138, CTD84140, CTD84141, CTD84143, CTD84144, CTD84145, CTD84148, CTD84203, CTD84206, CTD84207, CTD84258, CTD84262, CTD84360, CTD84363, CTD84604, CTD84712, CTD84741, CTD85147, CTD85148, CTD85149, CTD85161, CTD85162, CTD85166, CTD85168, CTD85169, CTD85170, CTD85172, CTD85348, CTD85349, CTD85351, CTD85352, CTD85353, CTD85354, CTD85355.

Compliance:

1. At the next exposure of the spool after the effective date of this directive, but prior to accumulating 2000 cycles since the last shop visit associated with the rub event.

2. As per 1 above.

3. Prior to 1 May 1998.

Note: DGAC AD 98-080(B)R1 dated 17 June 1998 refers.

This amendment does not effect the compliance requirements of the initial issue.

This amendment becomes effective on 10 September 1998.

Background: Several separations of No. 3 bearing aft stationary air/oil seal have been experienced in service, resulting in rubbing on the disk of high pressure compressor spool stage 1-2. To prevent the effects due to seal separation and rubbing, this directive mandates the removal and replacement of certain spools and seals. This revision is to correct some typing errors in Requirement paragraph 3b, note (2).

The original issue of this airworthiness directive became effective on 1 April 1998.