

Airworthiness Directive

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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

Amendment 39-6411; AD **89-20-01** R1

GENERAL ELECTRIC COMPANY Model CF6-6 Series Engines

PDF Copy (If Available):

▼ Preamble Information

AGENCY: Federal Aviation Administration, DOT

DATES: Effective December 12, 1989.

▼ Regulatory Information

89-20-01 R1 GENERAL ELECTRIC COMPANY: Amendment 39-6337 as revised by Amendment 39-6411.

Applicability: General Electric Company (GE) CF6-6 series turbofan engines installed in McDonnell Douglas DC10-10 aircraft.

Compliance: Required as indicated, unless already accomplished.

To detect the existence of metallurgical imperfections in Stage 1 fan disks which could

adversely affect Stage 1 fan disk service life, ultrasonic inspect all Stage 1 fan disks in accordance with the Appendix to this AD, and the following schedule:

(a) All Stage 1 fan disks with those serial numbers listed in TABLE 1 of this AD, immersion ultrasonic inspect no later than October 27, 1989.

(b) All Stage 1 fan disks identified by those serial numbers listed in TABLE 2 of this AD, as follows:

(1) Remove fan rotor spinner cone and contact ultrasonic inspect the installed fan disk no later than November 21, 1989.

(2) Immersion ultrasonic inspect within the next 500 cycles in service after accomplishing the contact ultrasonic inspection requirements of paragraph (b)(1) above, or at the next shop visit after October 7, 1989, or no later than April 1, 1990, whichever comes first.

(c) All Stage 1 fan disks identified by serial numbers listed in TABLE 3 of this AD, as follows:

(1) Remove fan rotor spinner cone and contact ultrasonic inspect the installed fan disk no later than February 4, 1990, and reinspect at intervals not to exceed 500 cycles since the last contact ultrasonic inspection until the immersion ultrasonic requirement of paragraph (c)(2) has been accomplished.

(2) Immersion ultrasonic inspect at the next shop visit after October 7, 1989, but no later than December 31, 1990.

(d) All Stage 1 fan disks identified by those serial numbers listed in TABLE 2A of this AD, as follows:

(1) Remove fan rotor spinner cone and contact ultrasonic inspect the installed fan disk no later than January 23, 1990.

(2) Immersion ultrasonic inspect within the next 500 cycles in service after accomplishing the contact ultrasonic inspection requirements of paragraph (d)(1) above, or at the next shop visit after December 12, 1989, or no later than June 5, 1990, whichever comes first.

(e) All Stage 1 fan disks identified by serial numbers listed in TABLE 3A of this AD, as follows:

(1) Remove fan rotor spinner cone and contact ultrasonic inspect the installed fan disk no later than April 10, 1990, and reinspect at intervals not to exceed 500 cycles since the last contact ultrasonic inspection until the immersion ultrasonic requirement of paragraph (e)(2) has been accomplished.

(2) Immersion ultrasonic inspect at the next shop visit after December 12, 1989, but no later than March 5, 1991.

NOTES: (1) Disks which have been previously immersion ultrasonic inspected in accordance with GE Commercial Engine Memorandum No. 98, Rev. 2, dated October 5, 1989, are considered to be in compliance with the immersion ultrasonic inspection requirements of paragraphs (a), (b), (c), (d), and (e) above.

(2) For the purpose of this AD, "shop visit" is defined as the induction of the engine into the shop for any reason.

(3) Accomplishment of the immersion ultrasonic inspection requirements of paragraphs (b)(2), (c)(2), (d)(2), and (e)(2) above relieves the requirements for contact ultrasonic inspections of paragraphs (b)(1), (c)(1), (d)(1), and (e)(1) above.

(f) Remove from service, prior to further flight, fan disks inspected in accordance with paragraphs (a), (b), (c), (d), and (e) which do not meet the acceptance criteria of the Appendix to this AD and replace with a serviceable part. Report all inspection findings in writing within 10 days of the inspection to the Manager, Engine Certification Office, ANE-140, Engine and Propeller Directorate, Aircraft Certification Service, 12 New England Executive Park, Burlington, Massachusetts, 01803; Telex No. 949301 FAANE BURL.

Information collection requirements contained in this regulation (Section 39.13) have been approved by the Office of Management and Budget under the provisions of the Paperwork Reduction Act of 1980 (Pub. L. 96- 511) and have been assigned OMB Control Number 2120-0056.

(g) Aircraft may be ferried in accordance with the provisions of FAR 21.197 and 21.199 to a base where the AD can be accomplished.

(h) Upon submission of substantiating data by an owner or operator through an FAA Airworthiness Inspector, an alternate method of compliance with the requirements of this AD or adjustments to the compliance schedules specified in this AD may be approved by the Manager, Engine Certification Office, Engine and Propeller Directorate, Aircraft Certification Service, Federal Aviation Administration, 12 New England Executive Park, Burlington, Massachusetts 01803.

TABLE 1

MP000382	MP000383	MP000384	MP000386	MP000387	MP000388
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TABLE 2

MP000352	MP000363	MP000374	MP000390	MP000407	MP0A0117
MP000354	MP000364	MP000375	MP000393	MP000411	MP0A0133

MP000357	MP000365	MP000376	MP000395	MP0A0108	MP0A0136
MP000358	MP000368	MP000377	MP000397	MP0A0109	MP0A0140
MP000359	MP000370	MP000378	MP000398	MP0A0110	MP0A0141
MP000360	MP000371	MP000379	MP000399	MP0A0111	MP0A0142
MP000361	MP000372	MP000380	MP000402	MP0A0112	MP0A0143
MP000362	MP000373	MP000389	MP000404	MP0A0113	MP0A0145
				MP0A0115	

TABLE 2A

MP0A0135	MP0A0182				
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TABLE 3

MP000150	MP000188	MP000222	MP000251	MP000284	MP000319
MP000151	MP000189	MP000223	MP000253	MP000285	MP000320
MP000152	MP000190	MP000224	MP000254	MP000286	MP000321
MP000153	MP000191	MP000225	MP000255	MP000289	MP000322
MP000154	MP000193	MP000226	MP000257	MP000290	MP000323
MP000155	MP000194	MP000228	MP000258	MP000291	MP000325
MP000156	MP000195	MP000229	MP000260	MP000292	MP000326
MP000158	MP000196	MP000230	MP000263	MP000293	MP000331
MP000159	MP000197	MP000231	MP000264	MP000295	MP000334
MP000160	MP000198	MP000232	MP000265	MP000297	MP000336
MP000161	MP000199	MP000233	MP000266	MP000298	MP000337
MP000162	MP000200	MP000234	MP000267	MP000299	MP000338
MP000163	MP000204	MP000235	MP000268	MP000300	MP000339
MP000168	MP000205	MP000236	MP000270	MP000302	MP000340
MP000171	MP000206	MP000237	MP000271	MP000303	MP000341
MP000172	MP000207	MP000238	MP000272	MP000304	MP000342
MP000173	MP000208	MP000240	MP000273	MP000305	MP000343
MP000175	MP000209	MP000241	MP000274	MP000308	MP000346
MP000177	MP000212	MP000243	MP000276	MP000311	MP000348
MP000178	MP000213	MP000244	MP000277	MP000312	MP000349
MP000179	MP000214	MP000245	MP000278	MP000313	MP000350
MP000180	MP000215	MP000246	MP000279	MP000314	MP0A0137
MP000181	MP000216	MP000247	MP000280	MP000315	MP0A0139

MP000182	MP000217	MP000248	MP000281	MP000316	MP0A0207
MP000184	MP000218	MP000249	MP000282	MP000317	MP0A0439
MP000185	MP000219	MP000250	MP000283	MP000318	
MP000186	MP000220				
MP000187	MP000221				

TABLE 3A

MP000618	MP000139	MP000103	MP000011	MP0C2744	MP0A0376
MP000436	MPOOO136	MP000102	MP000010	MP0C0321	MP0A0291
MP000353	MP000113	MP000078	MP000009	MP0A0880	MP0A0284
MP000351	MP000111	MP000016	MP000005	MP0A0810	MP0A0206
MP000294	MP000109	MP000015	MP000004	MP0A0801	MP0A0200
MP000174	MP000108	MP000014	MP000003	MP0A0736	MP0A0139
MP000149	MP000107	MP000013	MP000002	MP0A0662	MP0A0138
MP000141	MP000104	MP000012	MP0H3844	MP0A0481	MP0G2753

The ultrasonic inspections shall be done in accordance with the Appendix to this AD.

This AD revises Amendment 39-6337 (54 FR 38814; September 21, 1989), AD **89-20-01**, which became effective on October 7, 1989.

This amendment (39-6411, AD **89-20-01** R1) becomes effective on December 12, 1989.

89-20-01 R1 Appendix

The applicable General Electric Service Bulletin (CF6-6) 72-947, Revision 2, dated November 21, 1989, and the following General Electric Manufacturing and Field Quality Procedures may be obtained from General Electric Company, Technical Publications Department, 1 Neuman Way, Cincinnati, Ohio 45215, or may be examined in the Regional Rules Docket (Docket #89-ANE-35), FAA, New England Region, Office of Assistant Chief Counsel, 12 New England Executive Park, Burlington, Massachusetts 01803.

(A) General Electric Manufacturing and Field Quality Technology Procedure No. 391, issued September 15, 1989, Rev. 1, dated September 28, 1989.

(B) General Electric Manufacturing and Field Quality Technology Procedure No. 384, issued September 15, 1989, Rev. 2, dated October 5, 1989.

(C) General Electric Manufacturing and Field Quality Technology Procedure No. 385, issued September 14, 1989, Rev. 2, dated October 5, 1989.

(D) General Electric Manufacturing and Field Quality Technology Procedure No. 389, issued September 14, 1989, Rev. 2, dated October 3, 1989.

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