



CIVIL AVIATION AUTHORITY  
CZECH REPUBLIC

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## AIRWORTHINESS DIRECTIVE

**Number: CAA-AD-004/2003**

Supersedes CAA-AD-137/1999, CAA-AD-087/2000

Date of issue: January 03, 2003

**GENERAL ELECTRIC Comp.**  
CF6-45, -50, -80A, -80C2, -80E1

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### ENGINE - HIGH PRESSURE COMPRESSOR ROTOR - INSPECTION

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**Applicability:** to GE CF6-45, -50, -80A, -80C2, and -80E1 turbofan engines with high pressure compressor rotor (HPCR) stage 3-9 spools with part numbers (P/N's) listed in the following FAA AD - Table 1.

**Effective date:** January 23, 2003

**Compliance:** Required as indicated **FAA AD 2002-25-08**.

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*Remarks: The compliance of this AD must be recorded in Aircraft Logbook, where applicable the requirements of this AD must be integrated into Aircraft Technical Documentation. Address inquiries concerning this AD to: Civil Aviation Authority, Airworthiness Division, Ruzyně Airport, 160 08 Prague 6, Czech Republic, tel.: 420 2 33320922, fax: 420 2 20562270.*

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**Director of Airworthiness Division**  
**CAA CZ**

**2002-25-08 General Electric Company (GE):** Docket No. 2001-NE-26-AD. Supersedes AD 95-18-14, Amendment 39-9361; AD 99-24-15, Amendment 39-11440; and AD 2000-16-12, Amendment 39-11868.

Applicability: This airworthiness directive (AD) is applicable to GE CF6-45, -50, -80A, -80C2, and -80E1 turbofan engines with high pressure compressor rotor (HPCR) stage 3-9 spools with part numbers (P/N's) listed in the following Table 1 installed:

**Table 1**

| Engine model             | HPCR stage 3-9 spool P/N  |
|--------------------------|---|
| CF6-45/50 Series Engines | 9136M89G02, 9136M89G03, 9136M89G06, 9136M89G07, 9136M89G08, 9136M89G09, 9136M89G17, 9136M89G18, 9136M89G19, 9136M89G21, 9136M89G22, 9136M89G27, 9136M89G29, 9253M85G01, 9253M85G02, 9273M14G01, 9331M29G01.   |
| CF6-80A Series Engines   | 9136M89G10, 9136M89G11, 9136M89G20, 9136M89G21, 9136M89G22, 9136M89G27, 9136M89G28  |
| CF6-80C2 Series Engines  | 1333M66G01, 1333M66G03, 1333M66G07, 1333M66G09, 1333M66G10, 1781M52P01, 1781M52P02, 1781M53G01, 1781M53G02, 1781M53G03, 1781M53G04, 1781M53G05, 1781M53G06, 1781M53G07, 1781M53G08, 1781M53G09, 1781M53G10, 1854M95P01, 1854M95P02, 1854M95P03, 1854M95P04, 1854M95P05, 1854M95P06, 1854M95P07, 1854M95P08, 9380M28P05. |
| CF6-80E1 Series Engines  | 1669M22G01, 1669M22G03, 1782M22G01, 1782M22G02, 1782M22G04.   |

These engines are installed on, but not limited to, Airbus A300, A310, and A330 series, Boeing 747 and 767 series, and McDonnell Douglas DC-10 and MD-11 series airplanes.

**Note 1:** This AD applies to each engine identified in the preceding applicability provision, regardless of whether it has been modified, altered, or repaired in the area subject to the requirements of this AD. For engines that have been modified, altered, or repaired so that the performance of the requirements of this AD is affected, the owner/operator must request approval for an alternative method of compliance in accordance with paragraph (p) of this AD. The request should include an assessment of the effect of the modification, alteration, or repair on the unsafe condition addressed by this AD; and, if the unsafe condition has not been eliminated, the request should include specific proposed actions to address it.

*Compliance:* Compliance with this AD is required as indicated, unless already done.

To detect cracks, which can cause separation of the HPCR stage 3-9 spool and possible uncontained engine failure, do the following:

**CF6-45 and -50 16-Inch Billet Spools**

(a) For CF6 HPCR stage 3-9 spool, part numbers (P/N's) 9136M89G02 and 9136M89G06; and for P/N's

9136M89G08, 9253M85G02, 9273M14G01, 9331M29G01 with serial numbers (SN's) listed in the following Table 2, do the following:

**TABLE 2**

|          |          |          |          |          |          |          |
|----------|----------|----------|----------|----------|----------|----------|
| MPOE3486 | MPOE3487 | MPOE3488 | MPOE3489 | MPOE3490 | MPOE3491 | MPOE3492 |
| MPOG3832 | MPOG3833 | MPOG3834 | MPOG3835 | MPOG3836 | MPOG3837 | MPOG3838 |
| MPOG3839 | MPOG3840 | MPOG3841 | MPOG3842 | MPOG3843 | MPOG3844 | MPOG3845 |
| MPOG3846 | MPOG3847 | MPOG3848 | MPOG3850 | MPOG3851 | MPOG5228 | MPOG5230 |
| MPOG5231 | MPOG5232 | MPOG6216 | MPOG6727 | MPOG6728 | MPOG6729 | MPOG6730 |
| MPOG6731 | MPOG6732 | MPOG6733 | MPOG6735 | MPOG6736 | MPOG6738 | MPOG6739 |
| MPOG6740 | MPOG6741 | MPOG6742 | MPOG6743 | MPOG6744 | MPOG6745 | MPOG6746 |
| MPOG7713 | MPOG7714 | MPOG7715 | MPOG7716 | MPOG7717 | MPOG7718 | MPOG7719 |
| MPOG7720 | MPOG7721 | MPOG7722 | MPOG7723 | MPOG7724 | MPOG7725 | MPOG7726 |
| MPOG7727 | MPOG7728 | MPOG7729 | MPOG7730 | MPOG7731 | MPOG7732 | MPOG7733 |
| MPOG7734 | MPOG7735 | MPOG7736 | MPOG7737 | MPOG7738 | MPOG7739 | MPOG7740 |
| MPOG7741 | MPOG7742 | MPOG7743 | MPOG7744 | MPOG7819 | MPOG7820 | MPOG7821 |
| MPOG7822 | MPOG7823 | MPOG7824 | MPOG7825 | MPOG7826 | MPOG7827 | MPOG7828 |
| MPOG7829 | MPOG7830 | MPOG7831 | MPOG7832 | MPOG7833 | MPOG7834 | MPOG7835 |
| MPOG7836 | MPOG7837 | MPOG7838 | MPOG7839 | MPOG8822 | MPOG8823 | MPOG8824 |
| MPOG8825 | MPOG8826 | MPOG8827 | MPOG8828 | MPOG8829 | MPOG8830 | MPOG8831 |
| MPOG8832 | MPOG8833 | MPOG8834 | MPOG8835 | MPOG8836 | MPOG8837 | MPOG9185 |
| MPOG9186 | MPOH0289 | MPOH0290 | MPOH0291 | MPOH0292 | MPOH0293 | MPOH0294 |
| MPOH0295 | MPOH0296 | MPOH0297 | MPOH0298 | MPOH0299 | MPOH0300 | MPOH0301 |
| MPOH0302 | MPOH0303 | MPOH0304 | MPOH0305 | MPOH1805 | MPOH2040 | MPOH2041 |
| MPOH2042 | MPOH2043 | MPOH2044 | MPOH2045 | MPOH2046 | MPOH2047 | MPOH2048 |
| MPOH2049 | MPOH2050 | MPOH2051 | MPOH2052 | MPOH2053 | MPOH2054 | MPOH2055 |
| MPOH2056 | MPOH2057 | MPOH2058 | MPOH2059 | MPOH2060 | MPOH2061 | MPOH2062 |
| MPOH2829 | MPOH2830 | MPOH2831 | MPOH2832 | MPOH2833 | MPOH2834 | MPOH2835 |
| MPOH2836 | MPOH2837 | MPOH2838 | MPOH2839 | MPOH2840 | MPOH2841 | MPOH2842 |
| MPOH2843 | MPOH2844 | MPOH2845 | MPOH2846 | MPOH2847 | MPOH2848 | MPOH2849 |
| MPOH2850 | MPOH2851 | MPOH2852 | MPOH2853 | MPOH2854 | MPOH2855 | MPOH2856 |
| MPOH2857 | MPOH2858 | MPOH4307 | MPOH4308 | MPOH4309 | MPOH4310 | MPOH4311 |
| MPOH4312 | MPOH4313 | MPOH5277 | MPOH5278 | MPOH5279 | MPOH5280 | MPOH5281 |
| MPOH5282 | MPOH5283 | MPOH5520 | MPOH5530 | MPOH5531 | MPOH5532 | MPOH5533 |
| MPOH5534 | MPOH5535 | MPOH5536 | MPOH5537 | MPOH5538 | MPOH5539 | MPOH5540 |
| MPOH5541 | MPOH5542 | MPOH5543 | MPOH5544 | MPOH5545 | MPOH5546 | MPOH5547 |
| MPOH5548 | MPOH5549 | MPOH5550 | MPOH5551 | MPOH5552 | MPOH5553 | MPOH5554 |
| MPOH7020 | MPOH7021 | MPOH7022 | MPOH7023 | MPOH7024 | MPOH7025 | MPOH7026 |
| MPOH7027 | MPOH7028 | MPOH7030 | MPOH7960 | MPOH7965 | MPOH7966 | MPOH7967 |
| MPOH7968 | MPOH7969 | MPOH7970 | MPOH7971 | MPOH7972 | MPOH7973 | MPOH7974 |
| MPOH7975 | MPOH8638 | MPOH8639 | MPOH8640 | MPOH8641 | MPOH8642 | MPOH8643 |
| MPOH8644 | MPOH8645 | MPOH8646 | MPOH8647 | MPOH8648 | MPOH8649 | MPOH8650 |
| MPOH8651 | MPOH8652 | MPOH8653 | MPOH8654 | MPOH8655 | MPOH8656 | MPOH8657 |
| MPOH8658 | MPOH8659 | MPOH8677 | MPOH8678 | MPOH8679 | MPOH8680 | MPOH8682 |
| MPOH8683 | MPOH8684 | MPOJ1796 | MPOJ1797 | MPOJ1798 | MPOJ1799 | MPOJ1800 |
| MPOJ1801 | MPOJ1803 | MPOJ1804 | MPOJ1806 | MPOJ1930 | MPOJ1931 | MPOJ1932 |
| MPOJ1933 | MPOJ1934 | MPOJ1935 | MPOJ1936 | MPOJ1938 | MPOJ1939 | MPOJ1940 |
| MPOJ1941 | MPOJ1942 | MPOJ1943 | MPOJ1944 | MPOJ1945 | MPOJ1946 | MPOJ1947 |
| MPOJ1948 | MPOJ1949 | MPOJ1950 | MPOJ1951 | MPOJ1953 | MPOJ1954 | MPOJ1955 |
| MPOJ1956 | MPOJ1957 | MPOJ1958 | MPOJ2420 | MPOJ2421 | MPOJ2422 | MPOJ2423 |
| MPOJ2424 | MPOJ2425 | MPOJ2426 | MPOJ2427 | MPOJ2428 | MPOJ2429 | MPOJ2430 |
| MPOJ2431 | MPOJ2432 | MPOJ2433 | MPOJ2434 | MPOJ2435 | MPOJ2436 | MPOJ2437 |
| MPOJ2438 | MPOJ2439 | MPOJ2440 | MPOJ2441 | MPOJ2442 | MPOJ2443 | MPOJ2444 |
| MPOJ2445 | MPOJ2446 | MPOJ2447 | MPOJ2448 | MPOJ2449 | MPOJ2450 | MPOJ4173 |
| MPOJ4174 | MPOJ5185 | MPOJ5186 | MPOJ6035 | MPOJ6036 | MPOJ6039 | MPOJ6040 |
| MPOJ6041 | MPOJ6042 | MPOJ6043 | MPOJ6044 | MPOJ6045 | MPOJ6046 | MPOJ6047 |
| MPOJ6048 | MPOJ6049 | MPOJ6050 | MPOJ6051 | MPOJ6052 | MPOJ6053 | MPOJ6054 |
| MPOJ6055 | MPOJ6056 | MPOJ6057 | MPOJ6058 | MPOJ6059 | MPOJ6060 | MPOJ6061 |

|          |          |          |          |          |          |          |
|----------|----------|----------|----------|----------|----------|----------|
| MPOJ6062 | MPOJ6063 | MPOJ6064 | MPOJ6065 | MPOJ6066 | MPOJ6067 | MPOJ6068 |
| MPOJ6500 | MPOJ6501 | MPOJ6502 | MPOJ6503 | MPOJ6505 | MPOJ6506 | MPOJ6507 |
| MPOJ6508 | MPOJ6509 | MPOJ6510 | MPOJ6511 | MPOJ6512 | MPOJ6513 | MPOJ6514 |
| MPOJ6515 | MPOJ6516 | MPOJ6517 | MPOJ7632 | MPOJ7633 | MPOJ7634 | MPOJ7635 |
| MPOJ7636 | MPOJ7637 | MPOJ7638 | MPOJ7639 | MPOJ7640 | MPOJ7641 | MPOJ7642 |
| MPOJ7643 | MPOJ8046 | MPOJ8047 | MPOJ8048 | MPOJ8049 | MPOJ8050 | MPOJ8051 |
| MPOJ9308 | MPOJ9309 | MPOJ9310 | MPOJ9311 | MPOJ9312 | MPOJ9313 | MPOJ9314 |
| MPOJ9315 | MPOK1233 | MPOK1234 | MPOK1235 | MPOK1236 | MPOK1237 | MPOK1238 |
| MPOK1239 | MPOK1240 | MPOK1824 | MPOK1825 | MPOK1826 | MPOK1827 | MPOK1828 |
| MPOK1829 | MPOK1830 | MPOK1831 | MPOK1832 | MPOK2694 | MPOK2695 | MPOK3067 |
| MPOK3068 | MPOK3069 | MPOK3070 | MPOK3071 | MPOK4659 | MPOK4660 | MPOK4661 |
| MPOK4662 | MPOK4663 | MPOK4664 | MPOK4665 | MPOK4666 | MPOK4667 | MPOK5082 |
| MPOK5083 | MPOK5084 | MPOK5085 | MPOK5086 | MPOK5087 | MPOK5088 | MPOK5520 |
| MPOK5521 | MPOK5522 | MPOK5955 | MPOK5956 | MPOK5957 | MPOK5958 | MPOK5959 |
| MPOK5960 | MPOK5961 | MPOK5962 | MPOK5963 | MPOK5964 | MPOK6247 | MPOK6248 |
| MPOK6249 | MPOK6250 | MPOK6251 | MPOK6252 | MPOK6253 | MPOK6254 | MPOK6255 |
| MPOK6256 | MPOK6257 | MPOK6715 | MPOK6716 | MPOK6823 | MPOK6824 | MPOK6825 |
| MPOK6826 | MPOK6827 | MPOK6828 | MPOK6829 | MPOK6830 | MPOK6831 | MPOK7226 |
| MPOK7227 | MPOK7228 | MPOK7229 | MPOK7230 | MPOK7231 | MPOK7232 | MPOK7233 |
| MPOK7234 | MPOM2128 | MPOM2129 | MPOM2130 | MPOM2131 | MPOM2132 | MPOM2133 |
| MPOM2134 | MPOM2135 | MPOM2136 | MPOM2137 | MPOM2138 | MPOM2357 | MPOM2358 |
| MPOM2359 | MPOM2360 | MPOM2361 | MPOM2362 | MPOM2363 | MPOM2364 | MPOM2365 |
| MPOM2366 | MPOM2461 | MPOM2462 | MPOM5521 | MPOM5522 | MPOM5523 | MPOM5524 |
| MPOM5525 | MPOM5526 | MPOM5527 | MPOM5528 | MPOM5529 | MPOM5530 | MPOM5531 |
| MPOM5532 | MPOM5533 | MPOM5534 | MPOM5535 | MPOM5536 | MPOM5537 | MPOM6151 |
| MPOM6152 | MPOM6153 | MPOM6154 | MPOM6155 | MPOM6156 | MPOM6157 | MPOM6158 |
| MPOM6159 | MPOM6160 | MPOM6161 | MPOM6162 | MPOM7087 | MPOM7088 | MPOM7089 |
| MPOM7091 | MPOM7092 | MPOM7093 | MPOM7094 | MPOM7095 | MPOM7096 | MPOM7097 |
| MPOM7098 | MPOM7099 | MPOM7100 | MPOM7101 | MPOM7102 | MPOM7103 | MPOM7104 |
| MPOM7105 | MPOM7106 | MPOM7107 | MPOM7108 | MPOM7109 | MPOM8297 | MPOM8298 |
| MPOM8299 | MPOM8300 | MPOM8301 | MPOM8302 | MPOM9246 | MPOM9257 | MPOM9258 |
| MPOM9259 | MPOM9260 | MPOM9261 | MPOM9262 | MPOM9265 | MPOM9721 | MPOM9722 |
| MPOM9723 | MPON0051 | MPON0052 | MPON0053 | MPON0055 | MPON0056 | MPON0057 |
| MPON0058 | MPON0059 | MPON0060 | MPON0061 | MPON0062 | MPON0063 | MPON0064 |
| MPON0065 | MPON0066 | MPON0067 | MPON0068 | MPON0069 | MPON0073 | MPON0074 |
| MPON0075 | MPON0076 | MPON1077 | MPON1078 | MPON1079 | MPON1080 | MPON1081 |
| MPON1082 | MPON1084 | MPON1085 | MPON1086 | MPON1087 | MPON1088 | MPON1089 |
| MPON1090 | MPON1091 | MPON1092 | MPON1093 | MPON1094 | MPON1095 | MPON1096 |
| MPON1097 | MPON1098 | MPON1099 | MPON1100 | MPON1642 | MPON4250 | MPON4252 |
| MPON4254 | MPON4255 | MPON4256 |          |          |          |          |

*Initial Inspection*

(1) If the spool has not already been inspected using one of the alert service bulletins (ASB's) or service bulletins (SB's) listed in Column A of the following Table 3; OR a combination of one procedure from Column B and one from Column C; OR a combination of one procedure from Column D and one from Column E, inspect hub and bore in accordance with alert service bulletin

(ASB) CF6-50 S/B 72-A1108, Revision 5, dated October 2, 2002, and the following compliance times:

**TABLE 3**

| <b>CF6-45 and -50 SB No.</b>                   | <b>Procedures (70-32-XX) in Standard Practices Manual GEK9250</b> |   |  |  |  |
|--|---|---|--|--|--|
| <b>Column A</b>                                | <b>Column B</b>   | <b>Column C</b>                               | <b>Column D</b>  | <b>Column E</b>                            |  |
| SB 72-888, Revision 3, dated January 31, 1991. | 70-32-09, Revision 71, dated October 1, 1995.                     | 70-32-10, 71, Revision dated October 1, 1995. | 70-32-13, Temporary Re- vision (TR), 70-25, dated August 26, 1996. | 70-32-14, TR 70-26, dated August 26, 1996. |  |

|   |   |   |   |   |
|---|---|---|---|---|
| SB 72-888, Revision 4, dated March 28, 1991.                | 70-32-09, Revision 72, dated November 15, 1996. | 70-32-10, Revision 72, dated November 15, 1996. | 70-32-13, Revision 72, dated November 15, 1996. | 70-32-14, Revision 72, dated November 15, 1996. |
| SB 72-888, Revision 5, dated November 7, 1994.              | 70-32-09, Revision 74, dated May 1, 1998.       | 70-32-10, Revision 74, dated May 1, 1998.       | 70-32-13, Revision 73, dated November 1, 1997.  | 70-32-14, Revision 73, dated November 1, 1997.  |
| SB 72-888, Revision 6, dated December 22, 1995.             |   | 70-32-10, Revision 75, dated December 15, 1998. | 70-32-13, Revision 75, dated December 15, 1998. | 70-32-14, Revision 75, dated December 15, 1998. |
| SB 72-1000, Original dated December 14, 1990.               |   |   | 70-32-13, TR 70-41, dated February 10, 1999.    | 70-32-14, TR 70-42, dated February 10, 1999.    |
| SB 72-1000, Revision 1, dated March 28, 1991.               |   |   | 70-32-13, Revision 76, dated May 15, 1999.      | 70-32-14, Revision 76, dated May 15, 1999.      |
| SB 72-1000, Revision 2, dated September 9, 1993.            |   |   | 70-32-17, TR 70-39, dated December 15, 1998.    | 70-32-18, TR 70-40, dated December 15, 1998.    |
| SB 72-1000, Revision 3, dated December 22, 1995.            |   |   | 70-32-17, Revision 76, dated May 15, 1999.      | 70-32-18, Revision 76, dated May 15, 1999.      |
| SB 72-1108, Original, dated November 6, 1995.               |   |   | 70-32-17, TR 70-47, dated October 28, 1999.     | 70-32-18, TR 70-48, dated October 28, 1999.     |
| SB 72-1108, Revision 1, dated July 29, 1996.                |   |   |   |   |
| ASB 72-A1108, Revision 2, dated October 28, 1999.           |   |   |   |   |
| ASB 72-A1108, Revision 3, dated November 12, 1999.          |   |   |   |   |
| ASB 72-A1108, Revision 4, dated June 6, 2001.               |   |   |   |   |
| ASB CF6-50 S/B 72-A1108, Revision 5, dated October 2, 2002. |   |   |   |   |

(i) For spools with greater than 3,500 cycles-since-new (CSN) on the effective date of this AD, inspect before further flight.

(ii) For spools with 3,500 or fewer CSN, on the effective date of this AD, inspect at the first piece-part exposure (PPE) after 1,000 CSN or before 3,500 CSN, whichever occurs earlier.

(2) For spools that have not been inspected using ASB CF6-50 S/B 72-A1131, Revision 4, dated October 2, 2002, or an earlier revision of ASB CF6-50 S/B 72-A1131 or SB 72-1131, inspect the web and hub- to-web transition areas in accordance with the requirements of ASB CF6-50 S/B 72-A1131, Revision 4, dated October 2, 2002, at the first PPE after 1,000 CSN, but before 4,000 additional cycles in-service (CIS) after the effective date of this AD.

(3) For spools that have not been inspected using ASB CF6-50 S/B 72-A1157, Revision 4, dated October 2, 2002, or an earlier revision of ASB CF6-50 S/B 72-A1157, inspect the stage 3-5 dovetail slot bottoms in accordance with the requirements of ASB CF6-50 S/B 72- A1157, Revision 4, dated October 2, 2002, at the earliest of:

(i) The first PPE after 1000 CSN, or

(ii) The first HPC rotor exposure after 1000 CSN, or

(iii) The next required inspection to ASB CF6-50 S/B 72-A1108, Revision 5, dated October 2, 2002.

**Repetitive Inspection**

(4) For spools that have already been inspected using one of the ASB's or SB's listed in Column A of Table 3; OR a combination of one procedure from Column B AND one from Column C; OR a combination of one procedure from Column D AND one from Column E, reinspect the hub and bore in accordance with the requirements of ASB CF6-50 S/B 72- A1108, Revision 5, dated October 2, 2002, and the stage 3-5 dovetail slot bottoms in accordance with ASB CF6-50 S/B 72-A1157, Revision 4, dated October 2, 2002, at the earliest of:

(i) Each PPE with more than 1,000 cycles-since-last-inspection (CSLI) and 3,500 CSN, or

(ii) From July 29, 2001 through January 27, 2003, before the cycle limits of the following Table 4:

| <b>TABLE 4</b>                |                               |
|-------------------------------|-------------------------------|
|                               |                               |
| <b>CSN at last inspection</b> | <b>Repeat inspection by -</b> |
|                               |                               |
| (A) 6,000 or fewer CSN        | 3,500 CSLI.                   |
| (B) 6,001 to 7,000 CSN        | 9,500 CSN.                    |
| (C) 7,001 to 8,000 CSN        | 2,500 CSLI.                   |
| (D) 8,001 to 8,500 CSN        | 10,500 CSN.                   |
| (E) 8,501 or more CSN         | 2,000 CSLI.                   |

(iii) After January 27, 2003, before the cycle limits of the following Table 5:

| <b>TABLE 5.</b>               |                               |
|-------------------------------|-------------------------------|
|                               |                               |
| <b>CSN at last inspection</b> | <b>Repeat inspection by -</b> |
|                               |                               |
| (A) 5,000 or fewer CSN        | 3,500 CSLI.                   |
| (B) 5,001 to 5,500 CSN        | 8,500 CSN.                    |
| (C) 5,501 to 6,500 CSN        | 3,000 CSLI.                   |
| (D) 6,501 to 7,000 CSN        | 9,500 CSN.                    |
| (E) 7,001 to 8,000 CSN        | 2,500 CSLI.                   |
| (F) 8,001 to 8,500 CSN        | 10,500 CSN.                   |
| (G) 8,501 or more CSN         | 2,000 CSLI.                   |

**Spool Disposition**

(5) If inspection findings equal or exceed the reject limits established by ASB CF6-50 S/B 72-A1108, Revision 5, dated October 2, 2002; or ASB CF6-50 S/B 72-A1131, Revision 4, dated October 2, 2002; or ASB CF6-50 S/B 72-A1157, Revision 4, dated October 2, 2002, replace spool before further flight.

### **CF6-45 and -50 13-inch Billet Spools**

(b) For CF6 HPC Rotor Stage 3-9 Spool, P/N's 9136M89G03, 9136M89G07, 9136M89G09, 9136M89G17, 9136M89G18, 9253M85G01, and for P/N's 9136M89G08, 9253M85G01, 9273M14G01, and 9331M29G01 with serial numbers that are not listed in Table 2, do the following:

#### **Initial Inspection**

(1) If the spool has greater than 7,000 CSN on the effective date of this AD and has not already been inspected using one of the ASB's or SB's listed in Column A of Table 3; OR a combination of one procedure from Column B AND one from Column C; OR a combination of one procedure from Column D AND one from Column E, inspect hub and bore in accordance with ASB CF6-50 S/B 72-A1108, Revision 5, dated October 2, 2002 before further flight.

(2) If the spool has 7,000 or fewer CSN on the effective date of this AD and has not already been inspected using one of the ASB's or SB's listed in Column A of Table 3; OR a combination of one procedure from Column B AND one from Column C; OR a combination of one procedure from Column D AND one from Column E, inspect hub and bore in accordance with ASB CF6-50 S/B 72-A1108, Revision 5, dated October 2, 2002, at the earliest of:

(i) The first PPE after 1,000 CSN, or

(ii) The first engine shop visit (ESV) after 4,000 CSN, or

(iii) From July 29, 2001, through January 27, 2003, before 7,000 CSN, and after January 27, 2003, before 4,000 CSN.

(3) For spools that have not been inspected using ASB CF6-50 S/B 72-A1131, Revision 4, dated October 2, 2002, or an earlier revision of ASB CF6-50 S/B 72-A1131 or SB 72-1131, inspect the web and hub- to-web transition areas in accordance with the requirements of ASB CF6-50 S/B 72-A1131, Revision 4, dated October 2, 2002, at the earlier of:

(i) The first PPE after 1,000 CSN, or

(ii) Within 4,000 additional CIS after the effective date of this AD.

(4) For spools that have not been inspected using ASB CF6-50 S/B 72-A1157, Revision 4, dated October 2, 2002, or an earlier revision of ASB CF6-50 S/B 72-A1157, inspect the stage 3-5 dovetail slot bottoms in accordance with the requirements of ASB CF6-50 S/B 72- A1157, Revision 4, dated October 2, 2002, at the earlier of:

(i) The first PPE after 1,000 CSN, or

(ii) Within 4,000 additional CIS after the effective date of this AD.

#### **Repetitive Inspection**

(5) For spools that have already been inspected using one of the ASB's or SB's listed in Column A of Table 3; OR a combination of one procedure from Column B AND one from Column C; OR a combination of one procedure from Column D AND one from Column E, reinspect the hub and bore in accordance with the requirements of ASB CF6-50 S/B 72- A1108, Revision 5, dated October 2, 2002, at the earliest of:

(i) Each PPE with more than 1,000 CSLI and 4,000 CSN, or

(ii) Each ESV with more than 2,000 CSLI and 4,000 CSN, or

(iii) Before 4,000 CSLI.

## **Spool Disposition**

(6) If inspection findings equal or exceed the reject limits established by ASB CF6-50 S/B 72-A1108, Revision 5, dated October 2, 2002; or ASB CF6-50 S/B 72-A1131, Revision 4, dated October 2, 2002; or ASB CF6-50 S/B 72-A1157, Revision 4, dated October 2, 2002, replace spool before further flight.

## **CF6-45 and -50 9 and 10-Inch Billet Spools**

(c) For CF6 HPCR stage 3-9 spool, P/N's 9136M89G19, 9136M89G21, 9136M89G22 and 9136M89G27, do the following:

### **Initial Inspection**

(1) If the spool has greater than 7,000 CSN on the effective date of this AD and has not already been inspected using one of the ASB's or SB's listed in Column A of Table 3; OR a combination of one procedure from Column B AND one from Column C; OR a combination of one procedure from Column D AND one from Column E, inspect the hub and bore in accordance with ASB CF6-50 S/B 72-A1108, Revision 5, dated October 2, 2002 before further flight.

(2) If the spool has 7,000 or fewer CSN on the effective date of this AD, and has not already been inspected using one of the ASB's or SB's listed in Column A of Table 3; OR a combination of one procedure from Column B AND one from Column C; OR a combination of one procedure from Column D AND one from Column E, inspect the hub and bore in accordance with ASB CF6-50 S/B 72-A1108, Revision 5, dated October 2, 2002, at the earliest of:

(i) The first PPE after 1,000 CSN, or

(ii) The first ESV after 3,000 CSN, or

(iii) From July 29, 2001 through January 27, 2003, before 7,000 CSN, and after January 27, 2003, before 3,500 CSN.

(3) For spools that have not been inspected using ASB CF6-50 S/B 72-A1131, Revision 4, dated October 2, 2002, or an earlier revision of ASB CF6-50 S/B 72-A1131 or SB CF6-50 S/B 72-1131, inspect the web and hub-to-web transition areas in accordance with the requirements of ASB CF6-50 S/B 72-A1131, Revision 4, dated October 2, 2002, at the earlier of:

(i) The first PPE after 1,000 CSN, or

(ii) Within 4,000 additional CIS after the effective date of this AD.

(4) For spools that have not been inspected using ASB CF6-50 S/B 72-A1157, Revision 4, dated October 2, 2002, or an earlier revision of ASB CF6-50 S/B 72-A1157, inspect the stage 3-5 dovetail slot bottom in accordance with the requirements of ASB CF6-50 S/B 72- A1157, Revision 4, dated October 2, 2002, at the earlier of:

(i) The first PPE after 1,000 CSN, or

(ii) Within 4,000 additional CIS after the effective date of this AD.

### **Repetitive Inspection**

(5) For spools that have already been inspected using one of the ASB's or SB's listed in Column A of Table 3; OR a combination of one procedure from Column B AND one from Column C; OR a combination of one procedure from Column D AND one from Column E, reinspect the hub and bore in accordance with the requirements of ASB CF6-50 S/B 72- A1108, Revision 5, dated October 2, 2002, at the earliest of:

(i) Each PPE with more than 1,000 CSLI and 3,500 CSN, or

(ii) From July 29, 2001, through January 27, 2003, before the cycle limits of the following Table 6, or:

| <b>TABLE 6</b>                |                     |
|-------------------------------|---------------------|
| <b>CSN at last inspection</b> | <b>Reinspect by</b> |
| (A) 3,500 or fewer CSN        | 7,000 CSN.          |
| (B) 3,501 to 6,000 CSN        | 3,500 CSLI.         |
| (C) 6,001 to 7,000 CSN        | 9,500 CSN.          |
| (D) 7,001 to 8,000 CSN        | 2,500 CSLI.         |
| (E) 8,001 to 8,500 CSN        | 10,500 CSN.         |
| (F) 8,501 or more CSN         | 2,000 CSLI.         |

(iii) After January 27, 2003, before the cycle limits of Table 5.

### **Spool Disposition**

(6) If inspection findings equal or exceed the reject limits established by ASB CF6-50 S/B 72-A1108, Revision 5, dated October 2, 2002; or ASB CF6-50 S/B 72-A1131, Revision 4, dated October 2, 2002; or ASB CF6-50 S/B 72-A1157, Revision 4, dated October 2, 2002; replace spool before further flight.

### **Spool Reinstallation Limit**

(7) After the effective date of this AD, do not install any engine that has an HPCR stage 3-9 spool, P/N's 9136M89G19, 9136M89G21, 9136M89G22, and 9136M89G27, installed where the spool has 10,500 or more CSN.

### **CF6-45 and -50 8-Inch Billet 2-Piece spools**

(d) For CF6 HPCR stage 3-9 spool, P/N 9136M89G29, do the following:

(1) If the spool has not already been inspected using one of the ASB's or SB's listed in Column A of Table 3; OR a combination of one procedure from Column B AND one from Column C; OR a combination of one procedure from Column D AND one from Column E, inspect hub and bore in accordance with the piece-part level inspection of ASB CF6- 50 S/B 72-A1108, Revision 5, dated October 2, 2002, at the earlier of:

(i) The first PPE after 1,000 CSN, or

(ii) The first ESV after 6,000 CSN.

(2) For spools that have not been inspected using ASB CF6-50 S/B 72-A1131, Revision 4, dated October 2, 2002, or an earlier revision of ASB CF6-50 S/B 72-A1131 or SB 72-1131, inspect the web and hub- to-web transition areas in accordance with the requirements of ASB CF6-50 S/B 72-A1131, Revision 4, dated October 2, 2002, at the earlier of:

(i) The first PPE after 1,000 CSN, or

(ii) The first ESV after 6,000 CSN.

(3) For spools that have not been inspected using ASB CF6-50 S/B 72-A1157, Revision 4, dated October 2, 2002, or an earlier revision of ASB 72-A1157, inspect the stage 3-5 dovetail slot bottom in accordance with the requirements of ASB CF6-50 S/B 72-A1157, Revision 4, dated October 2, 2002, at the earlier of:

(i) The first PPE after 1,000 CSN, or

(ii) The first ESV after 6,000 CSN.

**Spool Disposition**

(4) If inspection findings equal or exceed the reject limits established by ASB CF6-50 S/B 72-A1108, Revision 5, dated October 2, 2002; or ASB CF6-50 S/B 72-A1131, Revision 4, dated October 2, 2002; or ASB CF6-50 S/B 72-A1157, Revision 4, dated October 2, 2002; replace spool before further flight.

**CF6-80A 16-Inch Billet Spools**

(e) For CF6 HPCR stage 3-9 spool, P/N's 9136M89G10 with SN's MPOM0054, MPOM7090, MPOM8303, MPOM8304, MPOM9263, MPOM9264, MPON0054, MPON0071, MPON0072, MPON1643, MPON4251, or MPON4253, do the following:

**Initial Inspection**

(1) If the spool has not already been inspected using one of the ASB's or SB's listed in Column A of the following Table 7; OR a combination of one procedure from Column B AND one from Column C; OR a combination of one procedure from Column D AND one from Column E, inspect hub and bore in accordance with ASB CF6-80A S/B 72-A0678, Revision 5, dated October 2, 2002, and the following compliance times:

| CF6-80A SB No.   | Procedures (70-32-XX) in standard practices manual GEK9250 |   |   |  |
|--|--|---|---|--|
| Column A   | Column B   | Column C  | Column D  | Column E   |
| SB 72-500, Revision 3, dated March 19, 1991.   | 70-32-09, Revision 71, dated October 1, 1995.              | 70-32-10, Revision 71, dated October 1, 1995    | 70-32-13, Temporary Revision (TR), 70-25, dated August 26, 1996. 70-32-13, Revision 72, dated November 15, 1996. 70-32-13, Revision 73, dated November 1, 1997. 70-32-13, Revision 75, dated December 15, 1998. | 70-32-14, TR 70-26, dated August 26, 1996.   |
| SB 72-500, Revision 4, dated July 1, 1991.   | 70-32-09, Revision 72, dated November 15, 1996.            | 70-32-10, Revision 72, dated November 15, 1996. | 70-32-13, TR 70-41, dated February 10, 1999   | 70-32-14, Revision 72, dated November 15, 1996.  |
| SB 72-500, Revision 5, dated November 7, 1994.   | 70-32-09, Revision 74, dated May 1, 1998.                  | 70-32-10, Revision 74, dated May 1, 1998.       | 70-32-13, Revision 76, dated May 15, 1999. 70-32-17, TR 70-39, dated December 15, 1998. 70-32-17, Revision 76, dated May 15, 1999. 70-32-17, TR 70-47, dated October 28, 1999.                                  | 70-32-14, Revision 73, dated November 1, 1997. 70-32-14, Revision 75, dated December 15, 1998. |
| SB 72-500, Revision 6, dated December 22, 1995.  |  | 70-32-10, Revision 75, dated December 15, 1998. |   |  |
| SB 72-583, Original, dated December 20, 1990.  |  |   |   | 70-32-14, TR 70-42, dated February 10, 1999.   |
| SB 72-583, Revision 1, dated March 18, 1991. SB 72-583, Revision 2, dated July 15, 1991.     |  |   |   | 70-32-14, Revision 76, dated May 15, 1999.   |
| SB 72-583, Revision 3, dated July 24, 1991. SB 72-583, Revision 4, dated September 15, 1993. |  |   |   | 70-32-18, TR 70--40, dated December 15, 1998.  |
| SB 72-583, Revision 5, dated December 22, 1995.  |  |   |   | 70-32-18, Revision 76, dated May 15, 1999. 70-32-18, TR 70-48, dated October 28, 1999.         |
| SB 72-678, Original, dated November 6, 1995. SB 72-678.                                      |  |   |   |  |

|  |  |  |  |  |
|--|--|--|--|--|
| Revision 1, dated July 29, 1996. ASB 72-A678, Revision 2, dated October 28, 1999. ASB 72-A678, Revision 3, dated November 12, 1999. ASB 72-A0678, Revision 4, dated June 6, 2001. ASB CF6-80A S/B 72-A0678, Revision 5, dated October 2, 2002. |  |  |  |  |
|--|--|--|--|--|

(i) For spools with greater than 3,500 CSN on the effective date of this AD, inspect before further flight.

(ii) For spools with 3,500 or fewer CSN on the effective date of this AD, inspect at the first PPE after 1,000 CSN or before 3,500 CSN, whichever occurs earlier.

(2) For spools that have not been inspected using ASB CF6-80A S/ B 72-A0691, Revision 5, dated October 2, 2002, or an earlier revision of ASB CF6-80A S/B 72-A0691 or SB 72-0691, inspect the web and hub-to-web transition areas in accordance with the requirements of ASB CF6-80A S/B 72-A0691, Revision 5, dated October 2, 2002, at the earlier of:

(i) The first PPE after 1,000 CSN, or

(ii) Within 4,000 additional CIS accumulated after the effective date of this AD.

(3) For spools that have not been inspected using ASB CF6-80A S/ B 72-A0719, Revision 5, dated October 2, 2002, or an earlier revision of ASB CF6-80A S/B 72-A0719, inspect the stage 3--5 dovetail slot bottom in accordance with the requirements of ASB CF6- 80A S/B 72-A0719, Revision 5, dated October 2, 2002, at the earliest of:

(i) The first PPE after 1,000 CSN, or

(ii) The first HPCR exposure after 1,000 CSN, or

(iii) The next required inspection to ASB

CF6-80A S/B 72-A0678, Revision 5, dated October 2, 2002.

### **Repetitive Inspections**

(4) For spools that have already been inspected using one of the ASB's or SB's listed in Column A of Table 7; OR a combination of one procedure from Column B AND one from Column C; OR a combination of one procedure from Column D and one from Column E, reinspect the hub and bore in accordance with the requirements of ASB CF6-80A S/B 72- A0678, Revision 5, dated October 2, 2002; and the dovetail slot bottoms in accordance with the requirements of ASB CF6-80A S/B 72- A0719, Revision 5, dated October 2, 2002, at the earliest of:

(i) Each PPE with more than 1,000 CSLI and 3,500 CSN, or

(ii) From July 29, 2001 through January 27, 2003 before the cycle limits of Table 4, or

(iii) After January 27, 2003, before the cycle limits of Table 5.

### **Spool Disposition**

(5) If inspection findings equal or exceed the reject limits established by ASB CF6-80A S/B 72-A0678, Revision 5, dated October 2, 2002; or ASB CF6-80A S/B 72-A0691, Revision 5, dated October 2, 2002; or ASB CF6-80A S/B 72-A0719, Revision 5, dated October 2, 2002; replace spool before further flight.

### **Spool Reinstallation Limit**

(6) After the effective date of this AD, do not install any engine that has an HPCR stage 3-9 spool P/N 9136M89G10 with serial numbers (SN's) MPOM0054, MPOM7090, MPOM8303, MPOM8304, MPOM9263, MPOM9264, MPON0054, MPON0071, MPON0072, MPON1643, MPON4251, or MPON4253, installed where the spool has 10,500 or more CSN.

### **CF6-80A 13-Inch Billet Spools**

(f) For all other CF6 HPCR stage 3-9 spools, P/N 9136M89G10, with SN's that are not listed in paragraph (e) of this AD, and P/N 9136M89G11, do the following:

### **Initial Inspection**

(1) If the spool has greater than 7,000 CSN on the effective date of this AD and has not already been inspected using one of the ASB's or SB's listed in Column A of Table 7; OR a combination of one procedure from Column B and one from Column C; OR a combination of one procedure from Column D and one from Column E, inspect hub and bore in accordance with ASB CF6-80A 72-A0678, Revision 5, dated October 2, 2002 before further flight.

(2) If the spool has 7,000 or fewer CSN on the effective date of this AD and has not already been inspected using one of the ASB's or SB's listed in Column A of Table 7; OR a combination of one procedure from Column B and one from Column C; OR a combination of one procedure from Column D and one from Column E, inspect hub and bore in accordance with ASB CF6-80A S/B 72-A0678, Revision 5, dated October 2, 2002, at the earliest of:

(i) The first PPE after 1,000 CSN, or

(ii) The first ESV after 5,000 CSN or

(iii) From July 29, 2001, through January 27, 2003 before 7,000 CSN, and after January 27, 2003, before 5,000 CSN.

(3) For spools that have not been inspected using ASB CF6-80A S/ B 72-A0691, Revision 5, dated October 2, 2002, or an earlier revision of ASB CF6-80A S/B 72-A0691 or SB 72-0691, inspect the web and hub-to-web transition areas in accordance with the requirements of ASB CF6-80A S/B 72-A0691, Revision 5, dated October 2, 2002, at the earlier of:

(i) The first PPE after 1,000 CSN, or

(ii) Within 4,000 additional CIS after the effective date of this AD.

(4) For spools that have not been inspected using ASB CF6-80A S/ B 72-A0719, Revision 5, dated October 2, 2002, or an earlier revision of ASB CF6-80A S/B 72-A0719, inspect the dovetail slot bottom in accordance with the requirements of ASB CF6-80A S/B 72- A0719, Revision 5, dated October 2, 2002, at the earlier of:

(i) The first PPE after 1,000 CSN, or

(ii) Within 4,000 additional CIS after the effective date of this AD.

### **Repetitive Inspection**

(5) For spools installed in CF6-80A1 and CF6-80A3 engines that were inspected using one of the ASB's or SB's listed in Column A of Table 7; OR a combination of one procedure from Column B and one from Column C; OR a combination of one procedure from Column D and one from Column E, reinspect hub and bore in accordance with alert ASB CF6-80A S/B 72-A0678, Revision 5, dated October 2, 2002, at the earliest of:

- (i) Each PPE with more than 1,000 CSLI and 5,000 CSN, or
- (ii) Each ESV with more than 2,000 CSLI and 5,000 CSN, or
- (iii) Within 4,000 CSLI and more than 5,000 CSN.

(6) Spools installed in CF6-80A and CF6-80A2 engines previously inspected using one of the ASB's or SB's listed in Column A of Table 7; OR a combination of one procedure from Column B AND one from Column C; OR a combination of one procedure from Column D AND one from Column E, reinspect hub and bore in accordance with ASB CF6-80A S/B 72-A0678, Revision 5, dated October 2, 2002, at the earliest of:

- (i) Each PPE with more than 1,000 CSLI and 5,000 CSN, or
- (ii) Each ESV with more than 1,500 CSLI and 5,000 CSN, or
- (iii) Within 4,000 CSLI and more than 5,000 CSN.

### **Spool Disposition**

(7) If inspection findings equal or exceed the reject limits established by ASB CF6-80A S/B 72-A0678, Revision 5, dated October 2, 2002; or ASB CF6-80A S/B 72-A0691, Revision 5, dated October 2, 2002; or ASB CF6-80A S/B 72-A0719, Revision 5, dated October 2, 2002; replace spool before further flight.

### **CF6-80A 9 and 10-Inch Billet Spools**

(g) For CF6 HPCR stage 3-9 spools, P/N's 9136M89G20, 9136M89G21, 9136M89G22 and 9136M89G27, do the following:

#### **Initial Inspection**

(1) If the spool has greater than 7,000 CSN on the effective date of this AD and has not already been inspected using one of the ASB's or SB's listed in Column A of Table 7; OR a combination of one procedure from Column B AND one from Column C; OR a combination of one procedure from Column D AND one from Column E, inspect hub and bore in accordance with ASB CF6-80A S/B 72-A0678, Revision 5, dated October 2, 2002 before further flight.

(2) If the spool has 7,000 or fewer CSN on the effective date of this AD and has not already been inspected using one of the ASB's or SB's listed in Column A of Table 7; OR a combination of one procedure from Column B AND one from Column C; OR a combination of one procedure from Column D AND one from Column E, inspect hub and bore in accordance with ASB CF6-80A S/B 72-A0678, Revision 5, dated October 2, 2002, at the earliest of:

- (i) The first PPE after 1,000 CSN, or
- (ii) The first ESV after 3,000 CSN or
- (iii) From July 29, 2001, through January 27, 2003, before 7,000 CSN, and after January 27, 2003, before 5,000 CSN.

(3) For spools that have not been inspected using ASB CF6-80A S/ B 72-A0691, Revision 5, dated October 2, 2002, or an earlier revision of ASB CF6-80A S/B 72-A0691, or SB 72-0691, inspect the web and hub-to-web transition areas in accordance with the requirements of ASB CF6-80A S/B 72-A0691, Revision 5, dated October 2, 2002, at the earlier of:

- (i) The first PPE after 1,000 CSN, or
- (ii) Within 4,000 additional CIS after the effective date of this AD.

(4) For spools that have not been inspected using ASB CF6-80A S/ B 72-A0719, Revision 5, dated October 2, 2002, or an earlier revision of ASB CF6-80A S/B 72-A0719 inspect the dovetail slot bottom in accordance with the requirements of ASB CF6-80A S/B 72- A0719, Revision 5, dated October 2, 2002, at the earlier of:

- (i) The first PPE after 1,000 CSN, or
- (ii) Within 4,000 additional CIS after the effective date of this AD.

**Repetitive Inspection**

(5) For spools that have already been inspected using one of the ASB's or SB's listed in Column A of Table 7; OR a combination of one procedure from Column B AND one from Column C; OR a combination of one procedure from Column D AND one from Column E, reinspect hub and bore in accordance with ASB CF6-80A S/B 72-A0678, Revision 5, dated October 2, 2002, at the earliest of:

- (i) Each PPE with more than 1,000 CSLI and 5,000 CSN, or
- (ii) From July 29, 2001 through January 27, 2003, before the cycle limits of Table 6.
- (iii) After January 27, 2003, before the cycle limits of the following Table 8:

| <b>TABLE 8</b>                |                               |
|-------------------------------|-------------------------------|
| <b>CSN at last inspection</b> | <b>Repeat inspection by -</b> |
| (A) 1,500 or fewer CSN        | 5,000 CSN                     |
| (B) 1,501 to 5,000 CSN        | 3,500 CSLI                    |
| (C) 5,001 to 5,500 CSN        | 8,500 CSN                     |
| (D) 5,501 to 6,501 CSN        | 3,000 CSLI                    |
| (E) 6,501 to 7,000 CSN        | 9,500 CSN                     |
| (F) 7,001 to 8,000 CSN        | 2,500 CSLI                    |
| (G) 8,001 to 8,500 CSN        | 10,500 CSN                    |
| (H) 8,501 or more CSN         | 2,000 CSLI                    |

**Spool Disposition**

(6) If inspection findings equal or exceed the reject limits established by ASB CF6-80A S/B 72-A0678, Revision 5, dated October 2, 2002; or ASB CF6-80A S/B 72-A0691, Revision 5, dated October 2, 2002; or ASB CF6-80A S/B 72-A0719, Revision 5, dated October 2, 2002; replace spool before further flight.

**Spool Reinstallation Limit**

(7) After the effective date of this AD, do not install any engine that has an HPCR stage 3-9 spool, P/N's 9136M89G20, 9136M89G21, 9136M89G22, and 9136M89G27, installed where the spool has 10,500 or more CSN.

**CF6-80A 8-Inch Billet 2-Piece Spools**

(h) For CF6 HPCR stage 3-9 spool, P/N 9136M89G28, do the following:

(1) If the spool has not already been inspected using one of the ASB's or SB's listed in Column A of Table 7; OR a combination of one procedure from Column B and one from Column C; OR a combination of one procedure from Column D and one from Column E, inspect hub and bore in accordance with the piece-part level inspection of ASB CF6- 80A S/B 72-A0678, Revision 5, dated October 2, 2002, at the earlier of:

- (i) The first PPE after 1,000 CSN, or

(ii) The first ESV after 6,000 CSN.

(2) For spools that have not been inspected using ASB CF6-80A S/ B 72-A0691, Revision 5, dated October 2, 2002, or an earlier revision of ASB CF6-80A S/B 72-A0691, or SB 72-0691, inspect the web and hub-to-web transition areas in accordance with the requirements of ASB CF6-80A S/B 72-A0691, Revision 5, dated October 2, 2002, at the earlier of:

(i) The first PPE after 1,000 CSN, or

(ii) The first ESV after 6,000 CSN.

(3) For spools that have not been inspected using ASB CF6-80A S/ B 72-A0719, Revision 5, dated October 2, 2002, or an earlier revision of ASB CF6-80A S/B 72-A0719 inspect the stage 3--5 dovetail slot bottom in accordance with the requirements of ASB CF6-80A S/B 72-A0719, Revision 5, dated October 2, 2002, at the earlier of:

(i) The first PPE after 1,000 CSN, or

(ii) The first ESV after 6,000 CSN.

**Spool Disposition**

(4) If inspection findings equal or exceed the reject limits established by ASB CF6-80A S/B 72-A0678, Revision 5, dated October 2, 2002; or ASB CF6-80A S/B 72-A0691, Revision 5, dated October 2, 2002; or ASB CF6-80A S/B 72-A0719, Revision 5, dated October 2, 2002; replace spool before further flight.

**CF6-80C2 13-Inch Billet Spools**

(i) For CF6 HPCR stage 3-9 spool, P/N's 1781M52P01, 1854M95P02, 1781M52P02, 1854M95P05 and 9380M28P05, do the following:

**Initial Inspection**

(1) If the spool has not already been inspected using one of the ASB's or SB's listed in Column A of the following Table 9; OR a combination of one procedure from Column B and one from Column C; OR a combination of one procedure from Column D and one from Column E, inspect hub and bore in accordance with ASB CF6-80C2 S/B 72-A0812, Revision 4, dated October 2, 2002, and the following compliance times:

**Table 9**

| CF6-80C2 SB No                                  | Procedures (70-32-XX) in standard practices manual GEK9250 |   |  |   |
|---|--|---|--|---|
| Column A  | Column B   | Column C  | Column D   | Column E  |
| SB 72-418, Revision 2, May 14, 1991.            | 70-32-09, Revision 71, dated October 1, 1995.              | 70-32-10, Revision 71, dated October 1, 1995.   | 70-32-13, Temporary Revision (TR), 70-25, dated August 26, 1996. | 70-32-14, TR 70-26, dated August 26, 1996.      |
| SB 72-418, Revision 3, November 7, 1994.        |  | 70-32-10, Revision 72, dated November 15, 1996. | 70-32-13, Revision 72, dated November 15, 1996.                  | 70-32-14, Revision 72, dated November 15, 1996. |
| SB 72-418, Revision 4, December 22, 1995.       | 70-32-09, Revision 72, dated November 15, 1996.            | 70-32-10, Revision 74, dated May 1, 1998.       | 70-32-13, Revision 73, dated November 1, 1997.                   | 70-32-14, Revision 73, dated November 1, 1997.  |
| SB 72-758, Original, dated November 7, 1994.    | 70-32-09, Revision 74, dated May 1, 1998.                  | 70-32-10, Revision 75, dated December 15, 1998. | 70-32-13, Revision 75, dated December 15, 1998.                  | 70-32-14, Revision 75, dated December 15, 1998. |
| SB 72-758, Revision 1, dated December 22, 1995. |  |   | 70-32-13, TR 70-41, dated February 10, 1999.                     | 70-32-14, TR 70-42, dated February 10, 1999.    |
| SB 72-812. Original.                            |  |   | 70-32-13, Revision 76. dated May 15.                             | 70-32-14. Revision                              |

|  |  |  |   |  |
|--|--|--|---|--|
| dated November 6, 1995.<br>SB 72-812, Revision 1, dated January 30, 1998.<br><br>ASB 72-A0812, Revision 2, dated October 28, 1999.<br>ASB 72-A0812, Revision 3, dated June 6, 2001. ASB CF6-80C2 S/B 72-A0812, Revision 4, dated October 2, 2002.. |  |  | 1999.<br><br>70-32-17, TR70-39, dated December 15, 1998.<br><br>70-32-17, Revision 76, dated May 15, 1999.<br><br>70-32-17, TR 70-47, dated October 28, 1999. | 76, dated May 15, 1999.<br><br>70-32-18, TR 70-40, dated December 15, 1998.<br><br>70-32-18, Revision 76, dated May 15, 1999.<br><br>70-32-18, TR 70-48, October 28, 1999. |
|--|--|--|---|--|

(i) For spools with greater than 3,500 CSN on the effective date of this AD, inspect before further flight.

(ii) For spools with 3,500 or fewer CSN on the effective date of this AD, inspect at the first PPE after 1,000 CSN or before 3,500 CSN, whichever occurs earlier.

(2) For spools that have not been inspected using ASB CF6-80C2 S/B 72-A0848, Revision 8, dated October 2, 2002, or an earlier revision of ASB 72-A0848 or SB 72-0848, inspect the web and hub-to-web transition areas in accordance with the requirements of ASB CF6-80C2 S/B 72-A0848, Revision 8, dated October 2, 2002, at the earliest of:

(i) The first PPE after 1000 CSN, or

(ii) The next required inspection to ASB CF6-80C2 S/B 72-A0812, Revision 4, dated October 2, 2002, or

(iii) From July 29, 2001 through January 27, 2003, before 7,000 CSN, and after January 27, 2003, before 3,500 CSN.

(3) For spools that have not been inspected using ASB CF6-80C2 S/B 72-A0934, Revision 4, dated October 2, 2002, or an earlier revision of ASB 72-A0934, inspect the stage 3-5 dovetail slot bottom in accordance with the requirements of ASB CF6-80C2 S/B 72-A0934, Revision 4, dated October 2, 2002, at the earliest of:

(i) The first PPE after 1,000 CSN, or

(ii) The first HPCR exposure after 1,000 CSN, or

(iii) The next required inspection to ASB

CF6-80C2 S/B 72-A0812, Revision 4, dated October 2, 2002.

### **Repetitive Inspection**

(4) For spools that have already been inspected using one of the ASB's or SB's listed in Column A of Table 9; OR a combination of one procedure from Column B AND one from Column C; OR a combination of one procedure from Column D AND one from Column E, reinspect the hub and bore in accordance with ASB 72-A812, Revision 4, dated October 2, 2002; the web and hub-to-web transition areas in accordance with ASB CF6-80C2 S/B 72-A0848, Revision 8, dated October 2, 2002; and the stage 3-5 dovetail slot bottoms in accordance with ASB CF6-80C2 S/B 72-A0934, Revision 4, dated October 2, 2002, at the earliest of:

(i) Each PPE with more than 1,000 CSLI and 3,500 CSN, or

(ii) From July 29, 2001, through January 27, 2003, before the cycle limits of Table 4.

(iii) After January 27, 2003, before the cycle limits of Table 5.

#### *Spool Disposition*

(5) If inspection findings equal or exceed the reject limits established by ASB CF6-80C2 S/B 72-A0812, Revision 4, dated October 2, 2002, or ASB CF6-80C2 S/B 72-A0848, Revision 8, dated October 2, 2002, or ASB CF6-80C2 S/B 72-A0934, Revision 4, dated October 2, 2002; replace spool before further flight.

#### *Spool Reinstallation Limit*

(6) After the effective date of this AD, do not install any engine that has an HPCR stage 3-9 spool, P/N's 1781M52P01, 1781M52P02, 1854M95P02, 1854M95P05, and 9380M28P05, installed where the spool has 10,500 or more CSN.

#### **CF6-80C2 9 and 10-Inch Billet Spools**

(j) For CF6 HPCR stage 3-9 spool, P/Ns 1333M66G01, 1333M66G03, 1333M66G07, 1333M66G09, 1781M53G01, 1781M53G02, 1781M53G03, 1781M53G04, 1781M53G06, 1781M53G07, 1781M53G08, 1781M53G09, 1854M95P01, 1854M95P03, 1854M95P04, 1854M95P06, and 1854M95P07, do the following:

#### **Initial Inspection**

(1) If the spool has greater than 7,000 CSN on the effective date of this AD and has not already been inspected using one of the ASB's or SB's listed in Column A of Table 9; OR a combination of one procedure from Column B AND one from Column C; OR a combination of one procedure from Column D AND one from Column E, or if the spool has not been inspected using ASB CF6-80C2 S/B 72-A0848, Revision 8, dated October 2, 2002, or an earlier revision of ASB 72-A0848 or SB 72-0848, inspect the hub and bore in accordance with ASB CF6-80C2 S/ B 72-A0812, Revision 4, dated October 2, 2002; and the web and hub- to-web transition areas in accordance with ASB CF6-80C2 S/B 72- A0848, Revision 8, dated October 2, 2002, before further flight.

(2) If the spool has 7,000 or fewer CSN on the effective date of this AD, and has not already been inspected using one of the ASB's or SB's listed in Column A of Table 9; OR a combination of one procedure from Column B and one from Column C; OR a combination of one procedure from Column D and one from Column E, inspect the hub and bore in accordance with ASB CF6-80C2 S/B 72-A0812, Revision 4, dated October 2, 2002, at the earliest of:

(i) The first PPE after 1,000 CSN, or

(ii) The first ESV after 3,000 CSN, or

(iii) From July 29, 2001, through January 27, 2003, before 7,000 CSN, and after January 27, 2003, before 3,500 CSN.

(3) If the spool has 7,000 or fewer CSN on the effective date of this AD, and has not already been inspected using ASB CF6-80C2 S/B 72-A0848, Revision 8, dated October 2, 2002, or an earlier revision of ASB 72-A0848 or SB CF6-80C2 72-0848, inspect the web and the web and hub-to-web transition areas in accordance with CF6-80C2 S/B 72- A0848, Revision 8, dated October 2, 2002, at the earliest of:

(i) The first PPE after 1,000 CSN, or

(ii) The first ESV after 3,000 CSN, or

(iii) From July 29, 2001, through July 28, 2003, before 7,000 CSN and after July 28, 2003, before 3,500 CSN.

(4) For spools that have not been inspected using ASB CF6-80C2 S/B 72-A0934, Revision 4, dated October 2, 2002, or an earlier revision of ASB 72-A0934, inspect the stage 3-5 dovetail slot bottom in accordance with the requirements of ASB CF6-80C2 S/B 72-A0934, Revision 4, dated October 2, 2002, at the earlier of:

- (i) The first PPE after 1,000 CSN, or
- (ii) Within 4,000 additional CIS after the effective date of this AD.

### **Repetitive Inspection**

(5) For spools that have already been inspected using one of the ASB's or SB's listed in Column A of Table 9; OR a combination of one procedure from Column B and one from Column C; OR a combination of one procedure from Column D and one from Column E, reinspect the hub and bore in accordance with the requirements of ASB CF6-80C2 S/B 72- A0812, Revision 4, dated October 2, 2002, and the web and hub-to-web transition areas in accordance with ASB CF6-80C2 S/B 72-A0848, Revision 8, dated October 2, 2002, at the earlier of:

- (i) Each PPE with more than 1,000 CSLI and 3,500 CSN, or
- (ii) From July 29, 2001, through January 27, 2003, before the cycle limits of Table 6, and after January 27, 2003, before the cycle limits of Table 5.

### *Spool Disposition*

(6) If inspection findings equal or exceed the reject limits established by ASB CF6-80C2 S/B 72-A0812, Revision 4, dated October 2, 2002, or ASB CF6-80C2 S/B 72-A0848, Revision 8, dated October 2, 2002, or ASB CF6-80C2 S/B 72-A0934, Revision 4, dated October 2, 2002; replace spool before further flight.

### *Spool Reinstallation Limit*

(7) After the effective date of this AD, do not install any engine that has an HPCR stage 3-9 spool, P/N's 1333M66G01, 1333M66G03, 1333M66G07, 1333M66G09, 1781M53G01, 1781M53G02, 1781M53G03, 1781M53G04, 1781M53G06, 1781M53G07, 1781M53G08, 1781M53G09, 1854M95P01, 1854M95P03, 1854M95P04, 1854M95P06 and 1854M95P07, installed where the spool has 10,500 or more CSN.

### **CF6-80C2 8-Inch Billet 2-Piece Spools**

(k) For CF6 HPCR stage 3-9 spool, P/N's 1333M66G10, 1781M53G05, 1781M53G010, and 1854M95P08, do the following:

(1) If the spool has not already been inspected using one of the ASB's or SB's listed in Column A of Table 9; OR a combination of one procedure from Column B and one from Column C; OR a combination of one procedure from Column D and one from Column E, inspect hub and bore in accordance with the piece-part level inspection of ASB 72- A0812, Revision 4, dated October 2, 2002, at the earlier of:

- (i) The first PPE after 1,000 CSN, or
- (ii) The first ESV after 6,000 CSN.

(2) For spools that have not been inspected using ASB 72-A0848, Revision 8, dated October 2, 2002, or an earlier revision of ASB 72- A0848, or SB 72-0848, inspect the web and hub-to-web transition areas in accordance with the requirements of ASB CF6-80C2 S/B 72- A0848, Revision 8, dated October 2, 2002, at the earlier of:

- (i) The first PPE after 1,000 CSN, or
- (ii) The first ESV after 6,000 CSN.

(3) For spools that have not been inspected using ASB CF6-80C2 S/B 72-A0934, Revision 3, dated October 2, 2002, or an earlier revision of ASB 72-A0934, inspect the stage 3-5 dovetail slot bottom in accordance with the requirements of ASB CF6-80C2 S/B 72-A0934, Revision 4, dated October 2, 2002, at the earlier of:

- (i) The first PPE after 1,000 CSN, or
- (ii) The first ESV after 6,000 CSN.

## Spool Disposition

(4) If inspection findings equal or exceed the reject limits established by ASB CF6-80C2 S/B 72-A0812, Revision 4, dated October 2, 2002, or ASB CF6-80C2 S/B 72-A0848, Revision 8, dated October 2, 2002, or ASB CF6-80C2 S/B 72-A0934, Revision 4, dated October 2, 2002; replace spool before further flight.

## CF6-80E1 9&10-Inch Billet Spools

(1) For CF6 HPCR stage 3-9 spool, P/N's 1669M22G01, 1669M22G03, 1782M22G01 and 1782M22G02, do the following:

### Initial Inspection

(1) If the spool has greater than 7,000 CSN and has not already been inspected using one of the ASB's listed in Column A of the following Table 10; OR a combination of one procedure from Column B and one from Column C; OR a combination of one procedure from Column D and one from Column E, OR if the spool has not been inspected using ASB CF6-80E1 S/B 72-A0126, Revision 5, dated October 2, 2002, or an earlier revision of ASB 72-A0126, or SB 72-0126, inspect the hub and bore in accordance with ASB CF6-80E1 S/B 72-A0135, Revision 3, dated October 2, 2002; and the web and hub-to-web transition areas in accordance with ASB CF6-80E1 S/B 72-A0126, Revision 5, dated October 2, 2002, before further flight.

**Table 10**

| CF6-80E1 SB No.<br>Column A                                   | Procedures (70-32-XX) in standard practices manual GEK9250 |   |  |   |
|---|--|---|--|---|
|   | Column B   | Column C  | Column D   | Column E  |
| ASB 72-A0135, dated August 13, 1998.                          | 70-32-09, Revision 71, dated October 1, 1995.              | 70-32-10, Revision 71, dated October 1, 1995.   | 70-32-13, Temporary Revision (TR), 70-25, dated August 26, 1996.                       | 70-32-14, TR 70-26, dated August 26, 1996.  |
| ASB 72-A0135, Revision 1, dated October 28, 1999.             | 70-32-09, Revision 71, dated November 15, 1996.            | 70-32-10, Revision 71, dated November 15, 1996. | 70-32-13, Revision 72, dated November 15, 1996.  | 70-32-14, Revision 71, dated November 15, 1996.   |
| ASB 72-A0135, Revision 2, dated June 6, 2001.                 | 70-32-09, Revision 74, dated May 1, 1998.                  | 70-32-10, Revision 74, dated May 1, 1998.       | 70-32-13, Revision 73, dated November 1, 1997  | 70-32-14, Revision 73, dated November 1, 1997.  |
| ASB CF6-80E1 S/B 72-A0135, Revision 3, dated October 2, 2002. |  | 70-32-10, Revision 75, dated December 15, 1998. | 70-32-13, Revision 75, dated December 15, 1998.  | 70-32-14, Revision 75, dated December 15, 1998.   |
|   |  |   | 70-32-13, TR 70-41, dated February 10, 1999 70-31-13, Revision 76, dated May 15, 1999. | 70-41, TR 70-42, dated February 10, 1999.<br>70-31-14, Revision 76, dated May 15, 1999. |
|   |  |   | 70-31-17, TR 70-39, dated December 15, 1998.   | 70-31-18, TR 70-40, dated December 15, 1998.  |
|   |  |   | 70-31-17, Revision 76, dated May 15, 1999.   | 70-31-18, Revision 76, dated May 15, 1999.  |
|   |  |   | 70-31-17 TR 70-47.   |   |

|  |  |  |                         |  |
|--|--|--|-------------------------|--|
|  |  |  | dated October 28, 1999. | 70-31-18 TR 70-48, dated October 28, 1999. |
|--|--|--|-------------------------|--|

(2) If the spool has 7,000 or fewer CSN and has not already been inspected using one of the ASB's listed in Column A of Table 10; OR a combination of one procedure from Column B and one from Column C; OR a combination of one procedure from Column D and one from Column E, OR if the spool has not been inspected using ASB CF6-80E1 S/B 72- A0126, Revision 5, dated October 2, 2002, or an earlier revision of ASB 72-A0126, or SB 72-0126, inspect the hub and bore in accordance with ASB CF6-80E1 S/B 72-A0135, Revision 3, dated October 2, 2002; and the web and hub-to-web transition areas in accordance with ASB CF6-80E1 S/B 72-A0126, Revision 5, dated October 2, 2002, at the earliest of:

(i) The first PPE after 1,000 CSN, or

(ii) The first ESV after 3,000 CSN, or

(iii) From July 29, 2001, through January 27, 2003, before 7,000 CSN, and after January 27, 2003, before 3,500 CSN.

(3) Spools not previously inspected using ASB CF6-80E1 S/B 72- A0137, Revision 4, dated October 2, 2002, or an earlier revision of ASB 72-0137, or SB 72-0137, inspect stage 3-5 dovetail slot bottoms in accordance with the requirements of ASB CF6-80E1 S/B 72-A0137, Revision 4, dated October 2, 2002, at the earliest of:

(i) The first PPE after 1,000 CSN, or

(ii) The first HPCR exposure after 1,000 CSN, or

(iii) The next required inspection to ASB

CF6-80E1 S/B 72-A0135, Revision 3, dated October 2, 2002.

### **Repetitive Inspection**

(4) For spools that have already been inspected using one of the ASB's listed in Column A of Table 10; OR a combination of one procedure from Column B and one from Column C; OR a combination of one procedure from Column D and one from Column E, inspect the hub and bore in accordance with the requirements of ASB CF6-80E1 S/B 72- A0135, Revision 3, dated October 2, 2002, the web and hub-to-web transition areas in accordance with ASB CF6-80E1 S/B 72-A0126, Revision 5, dated October 2, 2002, and the stage 3-5 dovetail slot bottoms in accordance with ASB CF6-80E1 S/B 72-A0137, Revision 4, dated October 2, 2002, at the earlier of:

(i) Each PPE with more than 1,000 CSLI and 3,500 CSN, or

(ii) From July 29, 2001, through January 27, 2003, before the cycle limits of Table 6, and after January 27, 2003, before the cycle limits of Table 5.

### *Spool Disposition*

(5) If inspection findings equal or exceed the reject limits established by ASB CF6-80E1 S/B 72-A0135, Revision 3, dated October 2, 2002; ASB CF6-80E1 S/B 72-A0126, Revision 5, dated October 2, 2002; and ASB CF6-80E1 S/B 72-A0137, Revision 4, dated October 2, 2002; replace spool before further flight.

### *Spool Reinstallation Limit*

(6) After the effective date of this AD, do not install any engine that has an HPCR stage 3-9 spool, P/N's 1669M22G01, 1669M22G03, 1782M22G01, and 1782M22G02, installed where the spool has 10,500 or more CSN.

### **CF6-80E1 8-Inch Billet 2-Piece Spools**

(m) For CF6 HPCR stage 3-9 spool, P/N 1782M22G04, do the following:

(1) If the spool has not already been inspected using one of the ASB's or SB's listed in Column A of the following Table 9; OR a combination of one procedure from Column B and one from Column C; OR a combination of one procedure from Column D and one from Column E, inspect hub and bore in accordance with the piece-part level inspection of ASB CF6-80E1 S/B 72-A0135, Revision 3, dated October 2, 2002, at the earlier of:

(i) The first PPE after 1,000 CSN, or

(ii) The first ESV after 6,000 CSN.

(2) For spools that have not been inspected using ASB CF6-80E1 S/B 72-A0126, Revision 5, dated October 2, 2002, or an earlier revision of ASB 72-A0126, or SB 72-0126, inspect the web and hub-to- web transition areas in accordance with ASB CF6-80E1 S/B 72-A0126, Revision 5, dated October 2, 2002, at the earlier of:

(i) The first PPE after 1,000 CSN, or

(ii) The first ESV after 6,000 CSN.

(3) For spools that have not been inspected using ASB CF6-80E1 S/B 72-A0137, Revision 4, dated October 2, 2002, or an earlier revision of ASB 72-A0137, or SB 72-0137, inspect the stage 3-5 dovetail slot bottoms in accordance with ASB CF6-80E1 S/B 72-A0137, Revision 4, dated October 2, 2002, at the earlier of:

(i) The first PPE after 1,000 CSN, or

(ii) The first ESV after 6,000 CSN.

#### **Spool Disposition**

(4) If inspection findings equal or exceed the reject limits established by ASB CF6-80E1 S/B 72-A0135, Revision 3, dated October 2, 2002; ASB CF6-80E1 S/B 72-A0126, Revision 5, dated October 2, 2002; and ASB CF6-80E1 S/B 72-A0137, Revision 4, dated October 2, 2002; replace spool before further flight.

#### **Reporting Requirements**

(n) Within five calendar days of inspection, report the results of inspections that equal or exceed the reject criteria to: Engine Certification Office, FAA, Engine and Propeller Directorate, 12 New England Executive park, Burlington, MA 01803-5299; telephone (781) 238-7147; fax (781) 238-7199. Reporting requirements have been approved by the Office of Management and Budget and assigned OMB control number 2120-0056. Be sure to include the following information:

(1) Part Number.

(2) Serial Number.

(3) Spool CSN.

(4) Spool CSLI.

(5) Date and location where inspection was done.

#### **Definitions**

(o) For the purpose of this AD, the following definitions apply:

(1) A module level exposure is a separation of the fan module from the engine.

(2) An HPC rotor exposure is a HPC top or bottom case removal.

(3) A PPE is a disassembly and removal of the stage 3-9 spool from the HPCR structure, regardless of any blades, locking lugs, bolts or balance weights assembled to the spool.

(4) An ESV is the introduction of an engine into the shop where the separation of a major engine flange will occur after the effective date of this AD.

(5) The following maintenance actions, or any combination, are not considered ESV's for requiring repeat inspections:

(i) Introduction of an engine into a shop solely for removal of the compressor top or bottom case for airfoil maintenance or variable stator vane bushing replacement.

(ii) Introduction of an engine into a shop solely for removal or replacement of the Stage 1 Fan Disk.

(iii) Introduction of an engine into a shop solely for replacement of the Turbine Rear Frame.

(iv) Introduction of an engine into a shop solely for replacement of the Accessory and/or Transfer Gearboxes.

(v) Introduction of an engine into a shop solely for replacement of the Fan Forward Case.

**Alternative Methods of Compliance**

(p) An alternative method of compliance or adjustment of the compliance time that provides an acceptable level of safety may be used if approved by the Manager, Engine Certification Office (ECO). Operators must submit their request through an appropriate FAA Principal Maintenance Inspector, who may add comments and then send it to the Manager, ECO.

**Note 2:** Information concerning the existence of approved alternative methods of compliance with this airworthiness directive, if any, may be obtained from the ECO.

**Special Flight Permits**

(q) Special flight permits may be issued in accordance with Sec. Sec. 21.197 and 21.199 of the Federal Aviation Regulations (14 CFR 21.197 and 21.199) to operate the airplane to a location where the requirements of this AD can be done.

**Documents That Have Been Incorporated By Reference**

(r) The inspections must be done in accordance with the following GE Aircraft Engines alert service bulletins (ASB's):

| Document No.                                | Pages | Revision | Date                   |
|---|-------|----------|------------------------|
| ASB CF6-50 S/B 72-A1108.<br>Total pages: 7  | All   | 5        | October 2, 2002.<br>Do |
| ASB CF6-50 S/B 72-A1131<br>Total pages: 43. | All   | 4        | Do                     |
| ASB CF6-50 S/B 72-A1157<br>Total pages: 38  | All   | 4        | Do                     |
| ASB CF6-80A S/B 72-A0678<br>Total pages: 7  | All   | 5        | Do                     |
| ASB CF6-80A S/B 72-A0691<br>Total pages: 43 | All   | 5        | Do                     |
| ASB CF6-80A S/B 72-A0719<br>Total pages: 38 | All   | 5        | Do                     |
| ASB CF6-80C2 S/B 72-A0812<br>Total pages: 6 | All   | 4        | Do                     |
| ASB CF6-80C2 S/B 72-A0848                   | All   | 8        | Do                     |

|  |     |   |    |
|--|-----|---|----|
| Total pages: 43<br>ASB CF6-80C2 S/B 72-A0934 | All | 4 | Do |
| Total pages: 38<br>ASB CF6-80E1 S/B 72-A0126 | All | 5 | Do |
| Total pages: 44<br>ASB CF6-80E1 S/B 72-A0135 | All | 3 | Do |
| Total pages: 6<br>ASB CF6-80E1 S/B 72-A0137  | All | 4 | Do |
| Total pages: 38                              |     |   |    |

This incorporation by reference was approved by the Director of the Federal Register in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Copies may be obtained from General Electric Company via Lockheed Martin Technology Services, 10525 Chester Road, Suite C, Cincinnati, Ohio 45215, telephone (513) 672-8400, fax (513) 672- 8422. Copies may be inspected at the FAA, New England Region, Office of the Regional Counsel, 12 New England Executive Park, Burlington, MA; or at the Office of the

**Effective Date**

(s) This amendment becomes effective on January 23, 2003.