

2002. Group 1 airplanes may comply with the replacement specified in paragraph (g) of this AD in lieu of the inspection in this paragraph, provided that the replacement per paragraph (g) of this AD is accomplished within the compliance time specified in this paragraph.

**Note 2:** For the purposes of this AD, a general visual inspection is defined as: "A visual examination of an interior or exterior area, installation, or assembly to detect obvious damage, failure, or irregularity. This level of inspection is made from within touching distance unless otherwise specified. A mirror may be necessary to enhance visual access to all exposed surfaces in the inspection area. This level of inspection is made under normally available lighting conditions such as daylight, hangar lighting, flashlight, or droplight and may require removal or opening of access panels or doors. Stands, ladders, or platforms may be required to gain proximity to the area being checked."

(1) If no bolt is missing, before further flight, do a general visual inspection for a gap between the nut and surrounding structure or between shim and joint (which would indicate a loose bolt), per Part 2 or Part 8, as applicable, of the Accomplishment Instructions of the service bulletin. If no bolt is missing and no gap is found, no further action is required by this paragraph.

(2) If any bolt is missing, before further flight, do paragraph (b) of this AD. In lieu of paragraph (b) of this AD, airplanes in Group 1 may comply with paragraph (g) of this AD.

#### *Group 1 and 2 Airplanes: Missing Bolts or Gaps—Follow-On Actions*

(b) For Group 1 or 2 airplanes as listed in Boeing Alert Service Bulletin 767-27A0176, Revision 1, dated June 6, 2002: If any bolt is missing or any gap is found during the inspections per paragraph (a) or (f) of this AD, before further flight, remove all of the bolts in the subject area and replace them with new or serviceable bolts, per Figure 6, 7, or 8 of the service bulletin, as applicable. For any attachment hole where the bolt was missing, install a new or serviceable bolt made from the same material as the other bolts, per the Accomplishment Instructions of the service bulletin.

(1) An existing bolt may be reinstalled if a fluorescent dye penetrant inspection for cracking is done per Part 5 of the Accomplishment Instructions of the service bulletin, and the bolt is found to be free of any crack.

(2) Do not intermix BACB30MR\*K\* bolts with BACB30LE\*K\* or BACB30US\*K\* bolts in the joints subject to this AD.

#### *Model 767-400ER Series Airplanes: Initial Inspection and Corrective Actions*

(c) For Model 767-400ER series airplanes: Within 90 days after August 27, 2002, do a one-time general visual inspection to determine if any bolt is missing from the inboard and outboard support of the inboard main flap, and do a detailed inspection for a gap between the nut and surrounding structure or between shim and joint (which would indicate a loose bolt), per Figure 2 of Boeing Alert Service Bulletin 767-27A0176, revision 1, dated June 6, 2002.

(1) If no bolt is missing and no gap is found: No further action is required by this paragraph.

(2) If any bolt is missing or any gap is found: Do paragraphs (c)(2)(i) and (c)(2)(ii) of this AD.

(i) Before further flight, repair per a method approved by the Manager, Seattle Aircraft Certification Office (ACO), FAA; or per data meeting the type certification basis of the airplane approved by a Boeing Company Designated Engineering Representative who has been authorized by the Manager, Seattle ACO, to make such findings. For a repair method to be approved as required by this paragraph, the approval must specifically refer to this AD.

(ii) Within 10 days after the inspections: Submit a report of inspection findings to the Manager, Boeing Certificate Management Office, FAA, Transport Airplane Directorate, 2500 East Valley Road, Suite C2, Renton, Washington 98055; fax (425) 227-1159. The report must include the airplane's serial number, the total number of flight cycles and flight hours on the airplane, the number and specific location of discrepant bolts, and the nature of the discrepancy (*i.e.*, missing bolt or gap found). Information collection requirements contained in this AD have been approved by the Office of Management and Budget (OMB) under the provisions of the Paperwork Reduction Act of 1980 (44 U.S.C. 3501 *et seq.*) and have been assigned OMB Control Number 2120-0056.

#### *Previously Accomplished Inspections and Bolt Replacements*

(d) Inspections and bolt replacements accomplished before the effective date of this AD per Boeing Alert Service Bulletin 767-27A0176, dated November 16, 2001, are acceptable for compliance with the corresponding actions required by this AD.

#### *Group 1 and 2 Airplanes: One-Time Inspection for Missing or Loose Bolts*

(e) Within 90 days after November 14, 2002 (the effective date of AD 2002-22-07, amendment 39-12932): Do the one-time general visual inspection required by paragraph (a) of this AD to determine if any bolt is missing from the inboard support of the inboard main flap, per Part 2 or Part 8, as applicable, of the Accomplishment Instructions of Boeing Alert Service Bulletin 767-27A0176, Revision 1, dated June 6, 2002. Group 1 airplanes may comply with the replacement specified in paragraph (g) of this AD in lieu of the inspection in this paragraph, provided that the replacement per paragraph (g) of this AD is accomplished within the compliance time specified in this paragraph.

#### **New Requirements of This AD**

##### *Group 1 Airplanes: Follow-on Actions*

(f) For Group 1 airplanes as listed in Boeing Alert Service Bulletin 767-27A0176, Revision 1, dated June 6, 2002: If no bolt is missing and no gap is found during the inspections required by paragraphs (a), (a)(1), and (e) of this AD, prior to the accumulation of 5,000 total flight cycles, or within 24 months after the effective date of this AD, whichever is later, perform a general visual

inspection to find any gap between the nut and surrounding structure or between shim and joint (which would indicate a loose bolt), per Part 3 of the Accomplishment Instructions of the service bulletin.

(1) If no gap is found, before further flight, do a torque check per Part 4 of the Accomplishment Instructions of the service bulletin.

(i) If, during the torque check, the nut does not turn, remove the nut, clean the bolt and threads, and reinstall the nut per Part 4 and Figure 4 of the service bulletin. Do paragraph (g) of this AD at the time specified in that paragraph.

(ii) If the nut turns, do paragraph (b) of this AD. Then, do paragraph (g) of this AD at the time specified in that paragraph.

(2) If any gap is found, do paragraph (b) of this AD. Then, do paragraph (g) of this AD at the time specified in that paragraph.

#### *Group 1 Airplanes: Replacement of Titanium Bolts*

(g) For Group 1 airplanes as listed in Boeing Alert Service Bulletin 767-27A0176, Revision 1, dated June 6, 2002: Prior to the accumulation of 10,000 total flight cycles, or within 48 months after the effective date of this AD, whichever is later, replace all subject titanium bolts with new steel bolts per Part 6 of the Accomplishment Instructions of the service bulletin. This action is acceptable for compliance with paragraphs (a), (e), and (f) of this AD and eliminates the need for the inspections required by those paragraphs. This action is acceptable for compliance with paragraph (b) of this AD, provided that the replacement of bolts per this paragraph is accomplished at the time specified in paragraph (b) of this AD. Do not intermix BACB30MR\*K\* bolts with BACB30LE\*K\* or BACB30US\*K\* bolts in the joints subject to this AD.

#### *Alternative Methods of Compliance*

(h)(1) 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, Seattle ACO. Operators shall submit their requests through an appropriate FAA Principal Maintenance Inspector, who may add comments and then send it to the Manager, Seattle ACO.

(2) Alternative methods of compliance, approved previously in accordance with AD 2002-16-05, amendment 39-12844, and AD 2002-22-07, amendment 39-12932, are approved as alternative methods of compliance for the requirements of paragraphs (b) and (c)(2)(i) of this AD.

(3) Alternative methods of compliance, approved previously in accordance with paragraph (c) of AD 2002-16-05, amendment 39-12844, and AD 2002-22-07, amendment 39-12932, are approved as alternative methods of compliance for the requirements of paragraph (g) of this AD.

**Note 3:** Information concerning the existence of approved alternative methods of compliance with this AD, if any, may be obtained from the Seattle ACO.

#### *Special Flight Permits*

(i) Special flight permits may be issued in accordance with sections §§ 21.197 and