Alert Service Bulletin 777–32A0082, dated December 9, 2010. Do all applicable related investigative and corrective actions before further flight.

(h) Definition

For the purposes of this AD, chicken-wire cracks are defined as cracks that occur when stress created in the chrome deposit during plating are relieved. The cracks are evident in the deposited chrome when viewed from a perpendicular plane as a pattern similar to chicken wire. Crack size can vary with plating conditions.

(i) Exceptions to Service Information

- (1) Where Boeing Alert Service Bulletin 777–32A0082, dated December 9, 2010, specifies a compliance time after the original issue date of that service bulletin, this AD requires compliance within the specified compliance time after the effective date of this AD.
- (2) Where Boeing Alert Service Bulletin 777–32A0082, dated December 9, 2010, specifies use of Royco 11MS grease for the lubrication required by paragraph (g) of this AD, this AD also allows use of MIL–PRF–32014 grease.

(j) Optional Actions for Compliance With Paragraph (g) of This AD

(1) Doing the detailed and magnetic particle inspections in accordance with Part 2 of the Accomplishment Instructions of Boeing Special Attention Service Bulletin 777–32–0080, dated July 10, 2008; or Boeing Special Attention Service Bulletin 777–32–0080, Revision 1, dated April 16, 2009; is considered acceptable for compliance with the inspections of the center axle of the MLG required by paragraph (g) of this AD.

(2) Accomplishment of all applicable actions specified in and in accordance with the Accomplishment Instructions of Boeing Service Bulletin 777–32–0085, dated April 14, 2011, is considered acceptable for compliance with the requirements of paragraph (g) of this AD.

(k) Special Flight Permit

Special flight permits may be issued in accordance with sections 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 airplane can be modified (if the operator elects to do so), if the flight is operated as a non-revenue flight.

(l) Alternative Methods of Compliance (AMOCs)

- (1) The Manager, Seattle Aircraft Certification Office (ACO), FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. In accordance with 14 CFR 39.19, send your request to your principal inspector or local Flight Standards District Office, as appropriate. If sending information directly to the manager of the ACO, send it to the attention of the person identified in the Related Information section of this AD. Information may be emailed to: 9-ANM-Seattle-ACO-AMOC-Requests@faa.gov.
- (2) Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager

of the local flight standards district office/certificate holding district office.

(3) An AMOC that provides an acceptable level of safety may be used for any repair required by this AD if it is approved by the Boeing Commercial Airplanes Organization Designation Authorization (ODA) that has been authorized by the Manager, Seattle ACO, to make those findings. For a repair method to be approved, the repair must meet the certification basis of the airplane and the approval must specifically refer to this AD.

(m) Related Information

For more information about this AD, contact Melanie Violette, Aerospace Engineer, Airframe Branch, ANM–120S, FAA, Seattle Aircraft Certification Office (ACO), 1601 Lind Avenue SW., Renton, WA 98057–3356; phone: 425–917–6422; fax: 425–917–6590; email: Melanie.violette@faa.gov.

(n) Material Incorporated by Reference

- (1) The Director of the Federal Register approved the incorporation by reference (IBR) of the service information listed in this paragraph under 5 U.S.C. 552(a) and 1 CFR part 51.
- (2) You must use the following service information to do the actions required by this AD, unless the AD specifies otherwise.
- (i) Boeing Alert Service Bulletin 777–32A0082, dated December 9, 2010.
- (ii) Boeing Service Bulletin 777–32–0085, dated April 14, 2011.
- (iii) Boeing Special Attention Service Bulletin 777–32–0080, dated July 10, 2008.
- (iv) Boeing Special Attention Service Bulletin 777–32–0080, Revision 1, dated April 16, 2009.
- (3) For service information identified in this AD, contact Boeing Commercial Airplanes, Attention: Data & Services Management, P. O. Box 3707, MC 2H–65, Seattle, WA 98124–2207; phone: 206–544–5000, extension 1; fax: 206–766–5680; Internet https://www.myboeingfleet.com.
- (4) You may review copies of the referenced service information at the FAA, Transport Airplane Directorate, 1601 Lind Avenue SW., Renton, WA. For information on the availability of this material at the FAA, call 425–227–1221.
- (5) You may also review copies of the service information that is incorporated by reference at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202–741–6030, or go to http://www.archives.gov/federal-register/cfr/ibr-locations.html.

Issued in Renton, Washington, on September 19, 2012.

Ali Bahrami.

Manager, Transport Airplane Directorate, Aircraft Certification Service.

[FR Doc. 2012-23790 Filed 10-2-12; 8:45 am]

BILLING CODE 4910-13-P

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2012-0060; Directorate Identifier 2012-NE-02-AD; Amendment 39-17123; AD 2012-14-09]

RIN 2120-AA64

Airworthiness Directives; Pratt & Whitney (P&W) Division Turbofan Engines

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule.

SUMMARY: We are adopting a new airworthiness directive (AD) for certain P&W PW4000 series turbofan engines. This AD was prompted by reports of 3rd and 4th stage vane fractures in the lowpressure turbine (LPT) of certain PW4000-94" and PW4000-100" turbofan engines. This AD requires dimensional inspections of LPT 3rd stage vanes and the rear turbine case, inspection of LPT 4th stage vanes at the next LPT overhaul and removal of vanes with non-conforming airfoil fillet radii and vanes with more than one strip and recoat repair. This AD also requires disassembly and reassembly of the 2nd stage high-pressure turbine (HPT) rotor and 3rd stage LPT rotor at the next HPT and LPT overhauls. We are issuing this AD to prevent 3rd and 4th stage vane fractures in the LPT, damage to the LPT rotor, uncontained engine failure, and damage to the airplane.

DATES: This AD is effective November 7,

ADDRESSES: For more information about this AD, contact James Gray, Aerospace Engineer, Engine Certification Office, FAA, Engine & Propeller Directorate, 12 New England Executive Park, Burlington, MA; phone: 781–238–7742; fax: 781–238–7199; email: james.e.gray@faa.gov.

Examining the AD Docket

You may examine the AD docket on the Internet at http:// www.regulations.gov; or in person at the Docket Management Facility between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this AD, the regulatory evaluation, any comments received, and other information. The address for the Docket Office (phone: 800-647-5527) is Document Management Facility, U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE., Washington, DC 20590.

FOR FURTHER INFORMATION CONTACT:

James Gray, Aerospace Engineer, Engine Certification Office, FAA, Engine & Propeller Directorate, 12 New England Executive Park, Burlington, MA; phone: 781–238–7742; fax: 781–238–7199; email: james.e.gray@faa.gov.

SUPPLEMENTARY INFORMATION:

Discussion

We issued a notice of proposed rulemaking (NPRM) to amend 14 CFR part 39 to include an AD that would apply to the specified products. That NPRM published in the **Federal** Register on March 2, 2012 (77 FR 12755). That NPRM proposed to require dimensional inspections of 3rd stage vanes and the rear turbine case. That NPRM also proposed to require inspection of 4th stage vanes at the next LPT overhaul and removal of vanes with non-conforming airfoil fillet radii and vanes with more than one strip and recoat repair. That NPRM also proposed to require disassembly and reassembly of the 2nd stage HPT rotor and 3rd stage LPT rotor at the next HPT and LPT overhauls.

Comments

We gave the public the opportunity to participate in developing this AD. The following presents the comments received on the proposal and the FAA's response to each comment.

Agreement With the Proposed AD

Two commenters, Boeing and FedEx, agreed with the intent of the proposed AD.

Request To Change Compliance Time for the 4th Stage Vanes

One commenter, China Cargo Airlines, requested that we change the inspection compliance time for the LPT 4th stage vanes from "next LPT overhaul" to "next engine overhaul." The commenter stated that LPT overhauls are typically performed every other shop visit, which could be in sixto-eight years. The commenter thought that the risk of having a 4th stage vane failure during that time was too high.

We do not agree. We determined that performing the inspections at the next LPT overhaul after the effective date of the AD provides an acceptable level of safety, and that we do not need to reduce the interval. We did not change the AD.

Request for Credit for Prior Compliance

FedEx requested that a statement be included authorizing credit for prior compliance as they have already been performing the requirements of the proposed AD.

We do not agree. Paragraph (e) of the proposed AD already allows credit for prior compliance. That paragraph states to comply with the AD within the compliance times specified, unless already done. We did not change the AD.

Request To Reference Pratt & Whitney Special Instruction No. 17F-09

One commenter, Martinair Holland, requested that we add a reference to Pratt & Whitney Special Instruction No. 17F–09 as an alternate method of compliance (AMOC) for paragraph (e)(1)(iii). The commenter stated that they have been checking the 3rd stage vanes for adequate engagement using that Special Instruction.

We do not agree. The AD requires dimensional inspections that are not included in Special Instruction No. 17F–09. Also, we do not include AMOCs in the requirements of an AD. You may, however, seek an AMOC using the procedures specified in the AD. We did not add that Special Instruction reference to the AD.

Request To Add Service Bulletins as Alternate Methods of Compliance

Martinair Holland, United Airlines, and Onur Air, requested that we add references to Pratt & Whitney Service Bulletins (SBs) PW4ENG 72–798, PW4ENG 72–804, and PW4G–100–72–221, as alternate methods of compliance to paragraph (e)(1)(v). The commenters stated that they have been inspecting the LPT 4th stage vanes using these SBs.

We do not agree. Paragraph (e) of the proposed AD states to comply with the AD within the compliance times specified, unless already done. If you have already done the proposed actions, then no further action is required to comply with paragraph (e)(1)(v). Also, as noted above, we do not include AMOCs in the requirements of an AD. We did not change the AD.

Request To Include the Part Numbers (P/Ns) of the LPT 4th Stage Vanes

Pratt & Whitney requested that we include the P/Ns of the LPT 4th stage vanes that are subject to the one-time strip and recoat requirement. The commenter stated that it is possible that future designs of LPT 4th stage vanes would not be restricted to a single strip and recoat requirement.

We agree. We listed the P/Ns of the affected LPT 4th stage vanes in the AD.

Request To Define the Word "Guidance"

United Airlines requested that we define the word "guidance" which we used in paragraph (g) of the proposed AD, or, that we revise the wording to specifically detail the inspection/build procedure to be used. The commenter states that using the term "guidance" does not denote a specific requirement and only suggests a general direction to be followed.

We agree. Use of the word "guidance" in this AD may have caused confusion. We deleted the "guidance" paragraphs listed under Related Information from the AD.

Request To Update Guidance Service Information

Pratt & Whitney and United Parcel Service Co. (UPS) requested that we add the words "or later" after the service information date references in paragraph (g) of the proposed AD. They also requested that we clarify that the referenced service information could be updated, and compliance to that updated service information would be acceptable. One of the commenters was concerned that service information listed as guidance would be controlled in the same way as service information that is incorporated by reference in the AD.

We do not agree. We do not know how documents will be revised in the future. This AD, however, was revised to remove references to related service information, and therefore the comment no longer applies. We did not change the AD.

Request To Remove the Term "Overhaul"

United Airlines and UPS requested that we remove the term "overhaul," such as "LPT overhaul" and "HPT overhaul" from the proposed AD compliance, as the term "overhaul" is not industry standard and therefore subjective. The commenters suggested a few alternatives to use instead of the term "overhaul."

We partially agree. We do not agree that the term "overhaul" should be removed, but we do agree that it should be defined. We added a definition paragraph which states that, for the purpose of this AD, an overhaul is when all disks in the rotor are removed from the engine and the blades are removed.

Request To Clarify Approved Methods of Compliance

UPS requested that we clarify that the service information listed under Related Information are approved methods of compliance to the proposed AD. They further stated that, as-written, it is not clear that they are approved methods of compliance.

We agree that the AD should be clarified. We revised the AD by

removing references to related service information.

Request To Duplicate the Strip and Recoat Requirements

United Airlines requested that we duplicate the strip and recoat requirements and make them part of Inspection/Check-01 or Inspection/Check-03 of the PW4000 Engine Cleaning Inspection and Repair (CIR) Manual. The commenter stated that the strip and recoat limits are currently located in repair-14 of the PW4000 CIR Manual, but repair-14 is not always required to return a vane cluster to service. The commenter stated that the strip and recoat requirements need to be part of the normal inspection process.

We do not agree. The AD mandates that the inspection be performed once, at the next LPT overhaul. That inspection will purge the fleet of LPT 4th stage vanes that have had more than one strip and recoat repair. After that inspection, LPT 4th stage vanes are not allowed to have more than one strip and recoat repair, as specified in the installation prohibition paragraph (f). Revising the engine manuals to relocate the inspection requirements is unnecessary. We did not change the AD.

Request To Remove Reference to 4th Stage Vanes With an Unknown Number of Strip and Recoat Repairs

United Airlines stated that there is no way to identify vanes with an unknown number of strip and recoat repairs. The commenter stated that if there were no markings on the vane, it would indicate that no strip and recoat repairs were performed. This could lead to scrapping vanes that could otherwise be repaired and returned to service.

We agree. We changed the AD to eliminate the reference to LPT 4th stage vanes with an unknown number of strip and recoat repairs.

Request To Make the CIR Inspections More Specific

United Airlines requested that in proposed AD paragraph (e)(1)(iv) we make the CIR inspections more specific for the LPT case dimensions. The commenter stated that there are different ways to perform the measurements and it is not clear whether the dimension to measure is based on an average or an individual diametric dimension.

We do not agree. A specific measurement technique is not defined because multiple measurement techniques exist that are acceptable. The only diametric dimensional inspection required by the AD is index 24, which would be acceptable to measure based

on an average dimension. We did not change the AD.

Request To Change "Ensure Adequate Engagement"

United Airlines requested that in proposed AD paragraphs (e)(1)(iii) and (e)(1)(iv), we change "ensure adequate engagement" to "dimensionally inspect the applicable LPT case slot serviceable dimensions and 3rd stage vane serviceable dimensions per the appropriate CIR." The commenter also requested that we list the specific dimensions to inspect by index number. The commenter stated that no mechanic can deduce what an adequate engagement is because it is not specific enough.

We agree. We changed paragraph (e)(1)(iii) to "dimensionally examine index 13 through index 34 of the LPT 3rd stage vane cluster assembly." We also changed paragraph (e)(1)(iv) to "dimensionally examine index 23 and index 24 of the vane engagement slots on the rear turbine case, where the 3rd stage vane is installed." We also listed the specific dimensions to inspect by index number, and included the supporting figures in this AD.

Request To Eliminate Paragraphs

United Airlines requested that we eliminate paragraphs (e)(1)(ii) through (e)(1)(iv) and (e)(2). The commenter stated that these paragraphs are related to procedures that are in the engine manual that operators are already performing. If they are left in the AD, they will add a significant burden in the amount of time and paperwork required to manage and verify compliance to the AD.

We do not agree. The actions in the paragraphs the commenter wants eliminated from the AD represent changes to the manuals that were specifically incorporated to address 3rd and 4th stage vane failures. Although air carriers operating under 14 Code of Federal Regulations (CFR) Part 121 are likely using the most current versions of the engine manuals, not all operators, for example, part 91 operators, may be required to incorporate the latest versions of the engine manuals. Therefore, we must maintain these requirements in the AD to ensure that all operators comply to resolve the unsafe condition. We did not change the

Revision to Cost of Compliance

In reviewing the cost of compliance estimate made in the NPRM (77 FR 12755, March 2, 2012), we determined that we were unable to substantiate our prorated cost estimate for limiting the

number of strip and recoat repairs since we do not know how many vanes are operating with more than one strip and recoat repair. We, therefore, removed the estimate of the useful part life expectancy and only included the replacement parts cost. The total cost estimate changed from \$32,147,170 to \$9,214,170.

Conclusion

We reviewed the relevant data, considered the comments received, and determined that air safety and the public interest require adopting the AD with the changes described previously. We have determined that these changes:

- Are consistent with the intent that was proposed in the NPRM (77 FR 12755, March 2, 2012) for correcting the unsafe condition; and
- Do not add any additional burden upon the public than was already proposed in the NPRM (77 FR 12755, March 2, 2012).

We also determined that these changes will not increase the economic burden on any operator or increase the scope of the AD.

Costs of Compliance

We estimate that this AD affects 807 engines installed on airplanes of U.S. registry. We estimate that it will take 2 work-hours per engine to perform the LPT 3rd stage vane cluster assembly and rear turbine case inspections. The average labor rate is \$85 per work-hour. We expect that about 1,870 LPT 4th stage vane cluster assemblies will be found with the non-conforming casting identification. Replacement parts cost about \$4,854. Based on these figures, we estimate the cost of the AD on U.S. operators to be \$9,214,170.

Authority for This Rulemaking

Title 49 of the United States Code specifies the FAA's authority to issue rules on aviation safety. Subtitle I, section 106, describes the authority of the FAA Administrator. Subtitle VII: Aviation Programs, describes in more detail the scope of the Agency's authority.

We are issuing this rulemaking under the authority described in Subtitle VII, Part A, Subpart III, Section 44701: "General requirements." Under that section, Congress charges the FAA with promoting safe flight of civil aircraft in air commerce by prescribing regulations for practices, methods, and procedures the Administrator finds necessary for safety in air commerce. This regulation is within the scope of that authority because it addresses an unsafe condition that is likely to exist or develop on

products identified in this rulemaking action.

Regulatory Findings

This AD will not have federalism implications under Executive Order 13132. This AD will not have a substantial direct effect on the States, on the relationship between the national government and the States, or on the distribution of power and responsibilities among the various levels of government.

For the reasons discussed above, I certify that this AD:

- (1) Is not a "significant regulatory action" under Executive Order 12866,
- (2) Is not a "significant rule" under DOT Regulatory Policies and Procedures (44 FR 11034, February 26, 1979),
- (3) Will not affect intrastate aviation in Alaska, and
- (4) Will not have a significant economic impact, positive or negative, on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

List of Subjects in 14 CFR Part 39

Air transportation, Aircraft, Aviation safety, Incorporation by reference, Safety.

Adoption of the Amendment

Accordingly, under the authority delegated to me by the Administrator, the FAA amends 14 CFR part 39 as follows:

PART 39—AIRWORTHINESS DIRECTIVES

■ 1. The authority citation for part 39 continues to read as follows:

Authority: 49 U.S.C. 106(g), 40113, 44701.

§ 39.13 [Amended]

■ 2. The FAA amends § 39.13 by adding the following new airworthiness directive (AD):

2012-14-09 Pratt & Whitney Division:

Amendment 39–17123; Docket No. FAA–2012–0060; Directorate Identifier 2012–NE–02–AD.

(a) Effective Date

This AD is effective November 7, 2012.

(b) Affected ADs

None.

(c) Applicability

This AD applies to the following Pratt & Whitney Division turbofan engines:

(1) PW4000–94" engine models PW4050, PW4052, PW4056, PW4152, PW4156, PW4650, PW4060, PW4060A, PW4060C, PW4062, PW4062A, PW4156A, PW4158, PW4160, PW4460, and PW4462 including models with any dash number suffix.

(2) PW4000–100" engine models PW4164, PW4164C, PW4164C/B, PW4168, PW4168A, PW4164–1D, PW4164C–1D, PW4164C/B–1D, PW4168–1D, PW4168–1D, and PW4170.

(d) Unsafe Condition

This AD was prompted by reports of 3rd and 4th stage vane fractures in the low-pressure turbine (LPT) of certain PW4000–94" and PW4000–100" turbofan engines. These fractures caused an uncontained engine failure and an LPT case puncture, and resulted in multiple in flight shutdowns. We are issuing this AD to prevent 3rd and 4th stage vane fractures in the LPT, damage to the LPT rotor, uncontained engine failure, and damage to the airplane.

(e) Compliance

Comply with this AD within the compliance times specified, unless already done.

- (1) At the next LPT overhaul, do the following:
- (i) Remove LPT 4th stage vanes that have a P/N listed in Table 1 to paragraph (e) of this AD from service if more than one strip and recoat repair has been performed.

TABLE 1 TO PARAGRAPH (e)—AFFECTED LPT 4TH STAGE VANE P/NS

50N474-01 50N474-001	50N774-01 5- 50N774-001 5-	1N174-002 1N174-003	51N674-01 52N274-01	52N574–01 52N674–01 51N774–01 52N774–01
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(ii) Re-assemble the 3rd stage LPT rotor blades by alternating heavy blades next to light blades and balancing blades of similar weights 180 degrees across the rotor. (iii) Dimensionally examine index 13 through index 34 of the LPT 3rd stage vane cluster assembly. Use Table 2 to paragraph (e) of this AD and Figure 1, Figure 2, and

Figure 3 to paragraph (e) of this AD to determine whether the vane is eligible for installation.

Table 2 to Paragraph (e)—Determination of Vane Eligibility

Inspect:	Eligible for installation limits:
13	
14	
15	3.200 inches (81.280 mm) Basic.
16	0.900 inch (22.860 mm) Basic.
17	0.365 inch (9.271 mm) Basic.
18	,
19	,
20	,
21	
22	gin on Plane S Basic.
23	
24	Angle from Plane S to Plane SL 3°4'37" Basic.
25	Angle from Plane S to Plane SM 6°9′14″ Basic.
26 27:	
Distance from rear foot outer diameter surface to airfoil section along Planes S, SL, an	

TABLE 2 TO PARAGRAPH (E)—DETERMINATION OF VANE ELIGIBILITY—Continued

Inspect:	Eligible for installation limits:	
For Section E–E: For Section J–J:	3.181 inches (80.797 mm). 1.935 inches (49.149 mm).	
Airfoil chord at Section J–J (1.935 inches (49.149 mm) from rear foot outer diameter surface a Planes S, SL, and SM).	1.346 inches (34.188 mm) minimum.	
At Section E-E (3.181 inches (80.797 mm) from rear foot outer diameter surface at Planes S SL, and SM).	1.314 inches (33.376 mm) minimum.	
At Section B-B (5.241 inches (133.121 mm) from rear foot outer diameter surface at Planes S SL, and SM).	1.188 inches (30.175 mm) minimum.	
29: Airfoil thickness at Section J–J (1.935 inches (49.149 mm) from rear foot outer diameter surface at Planes S, SL, and SM).	, ,	
At Section E–E (3.181 inches (80.797 mm) from rear foot outer diameter surface at Planes S SL, and SM). At Section B–B (5.241 inches (133.121 mm) from rear foot outer diameter surface at Planes S SL, and SM).		
30: Distance to trailing edge measurement	0.062 inch (1.575 mm).	
31: Airfoil trailing edge thickness	0.030 inch (0.762 mm) minimum.	
Dimension	0.315-0.324 inch (8.001-8.230 mm) diameter.	
33: Dimension	6.785–6.795 inches (172.34–172.59 mm).	
34: Dimension	0.692-0.714 inch (17.58-18.14 mm).	

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Figure 1 to Paragraph (e) - Determination of Vane Eligibility

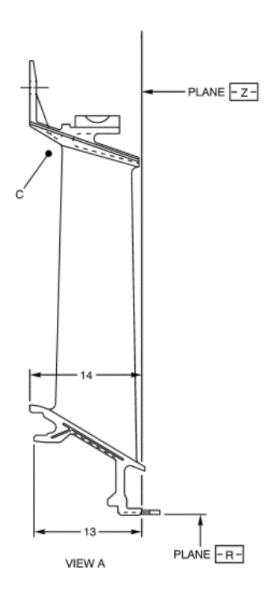
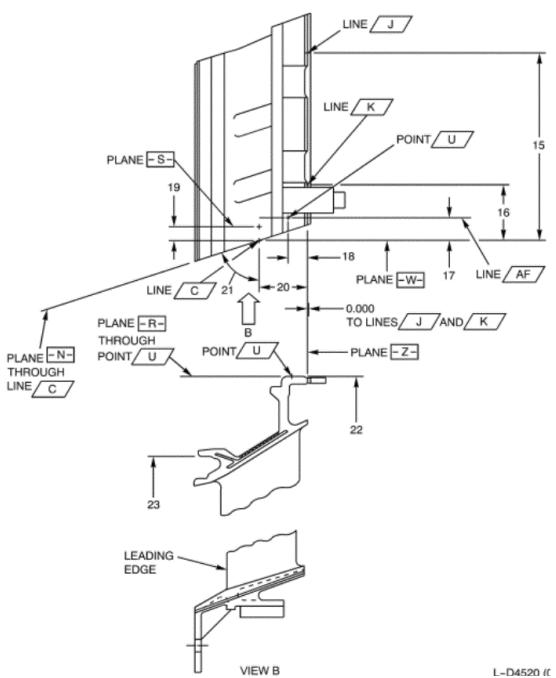


Figure 2 to Paragraph (e) - Determination of Vane Eligibility



27 27 27 27 29 31 SECTION (J-J, E-E AND B-B) (TYPICAL AIRFOIL SECTION)

PLANE -L
PLANE -K
PLANE -M
PLANE -W
32

VIEW D

Figure 3 to Paragraph (e) - Determination of Vane Eligibility

BILLING CODE 4910-13-C

(iv) Dimensionally examine index 23 and index 24 of the vane engagement slots on the rear turbine case, where the 3rd stage vane is installed. Use Table 3 to paragraph (e) of this AD and Figure 4 to paragraph (e) of this AD to determine whether the case is eligible for installation.

TABLE 3 TO PARAGRAPH (e)—
DETERMINATION OF CASE ELIGIBILITY

Inspect:	Eligible for installation limits:
23	1.875 inch (47.625 mm) minimum.

TABLE 3 TO PARAGRAPH (e)—DETERMINATION OF CASE ELIGIBILITY—Continued

Inspect:	Eligible for installation limits:
24	0.097 inch (2.464 mm) minimum.

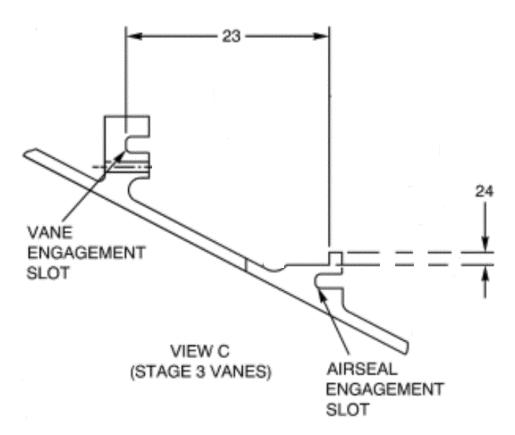


Figure 4 to Paragraph (e) - Determination of Case Eligibility

- (v) Inspect the 44 LPT 4th stage vane cluster assemblies P/N 52N774–01 for casting identification "51N554AT 1447 2S1C1" and P/N 52N674–01 for casting identification "51N454AT 655 2S1C1." Remove the vane cluster assembly from service if either of these casting identifications is found.
- (2) At the next high-pressure turbine (HPT) overhaul, re-assemble the 2nd stage HPT rotor blades by alternating heavy blades next to light blades and balancing blades of similar weights 180 degrees across the rotor.

(f) Installation Prohibition

After the effective date of this AD, do not install or reinstall into any engine any LPT 4th stage vanes with a P/N listed in Table 1 to paragraph (e) of this AD that are at piecepart exposure and have had more than one strip and recoat repair.

(g) Definitions

- (1) For the purpose of this AD, an HPT or LPT overhaul occurs when all disks in the rotor are removed from the engine and the blades are removed.
- (2) For the purpose of this AD, piece-part exposure means that the part is removed from the engine and completely disassembled.

(h) Alternative Methods of Compliance (AMOCs)

The Manager, Engine Certification Office, FAA, may approve AMOCs for this AD. Use the procedures found in 14 CFR 39.19 to make your request.

(i) Related Information

For more information about this AD, contact James Gray, Aerospace Engineer, Engine Certification Office, FAA, Engine & Propeller Directorate, 12 New England Executive Park, Burlington, MA; phone: 781–238–7742; fax: 781–238–7199; email: james.e.gray@faa.gov.

(j) Material Incorporated by Reference

None.

Issued in Burlington, Massachusetts, on September 20, 2012.

Diane M. Cook,

Acting Manager, Engine & Propeller Directorate, Aircraft Certification Service. [FR Doc. 2012–23791 Filed 10–2–12; 8:45 am]

BILLING CODE 4910-13-P

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2011-1411; Directorate Identifier 2011-NM-074-AD; Amendment 39-17206; AD 2012-19-11]

RIN 2120-AA64

Airworthiness Directives; The Boeing Company Airplanes

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule.

SUMMARY: We are adopting a new airworthiness directive (AD) for certain The Boeing Company Model 737 airplanes. This AD was prompted by a report of a flightcrew not receiving an aural warning during a lack of cabin pressurization event. This AD requires incorporating design changes to improve the reliability of the cabin altitude warning system by installing a redundant cabin altitude pressure switch, replacing the aural warning module (AWM) with a new or reworked AWM, and changing certain wire bundles or connecting certain previously capped and stowed wires as