#### (d) Subject

Joint Aircraft System Component (JASC) Code 2210, Autopilot System.

## (e) Unsafe Condition

This AD was prompted by a report of an un-commanded automatic pitch trim runaway when the autopilot was first engaged. The FAA is issuing this AD to address autopilot software that does not properly handle certain hardware failures of the primary pitch servo. The unsafe condition, if not addressed, could result in un-commanded automatic pitch trim runaway and loss of control of the airplane.

#### (f) Compliance

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

#### (g) Required Action

Within 12 months after the effective date of this AD, update the Garmin GFC 500 Autopilot System software applicable to your airplane to a version that is not 8.01 or earlier for the G5, not version 9.01 or earlier for the G3X Touch, and not version 2.59 or earlier for the GI 275.

Note 1 to paragraph (g): The software update can be done using Garmin Mandatory STC Service Bulletin 22123, Rev A, dated January 3, 2023. This AD also allows the installation of versions other than those listed in Garmin Mandatory STC Service Bulletin 22123, Rev A, dated January 3, 2023, provided those versions are not listed in paragraph (g) of this AD.

#### (h) Installation Prohibition

As of the effective date of this AD, do not install Garmin GFC 500 Autopilot System Software that is version 8.01 or earlier for the G5, version 9.01 or earlier for the G3X Touch, or version 2.59 or earlier for the GI 275, on any airplane.

## (i) Alternative Methods of Compliance (AMOCs)

(1) The Manager, Central Certification Branch, 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 Central Certification Branch, send it to the attention of the person identified in paragraph (j)(1) of this AD. Information may be emailed to wichita-cos® 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.

#### (j) Additional Information

(1) For more information about this AD, contact Christopher Withers, Aviation Safety Engineer, FAA, 1801 S Airport Road, Wichita, KS 67209; phone: (316) 946–4190; email: christopher.d.withers@faa.gov.

(2) For material identified in this AD that is not incorporated by reference, contact Garmin International, Attention: Garmin Aviation Support, 1200 E 151st Street, Olathe, KS 66062; phone: (866) 739–5687; website: *support.garmin.com/en-US/ aviation/.* 

(k) Material Incorporated by Reference None.

Issued on July 10, 2024.

## James D. Foltz,

Deputy Director, Compliance & Airworthiness Division, Aircraft Certification Service. [FR Doc. 2024–15529 Filed 7–15–24; 8:45 am] BILLING CODE 4910–13–P

#### DEPARTMENT OF TRANSPORTATION

## Federal Aviation Administration

#### 14 CFR Part 39

[Docket No. FAA-2024-0763; Project Identifier AD-2023-00924-E; Amendment 39-22785; AD 2024-14-04]

#### RIN 2120-AA64

# Airworthiness Directives; International Aero Engines, LLC

**AGENCY:** Federal Aviation Administration (FAA), DOT. **ACTION:** Final rule.

**SUMMARY:** The FAA is adopting a new airworthiness directive (AD) for all International Aero Engines, LLC (IAE LLC) Model PW1122G-JM, PW1124G1-JM, PW1124G-JM, PW1127G1-JM, PW1127G1A-JM, PW1127G1B-JM, PW1127G–JM, PW1127GA–JM, PW1129G-JM, PW1130G-JM, PW1133G-JM, and PW1133GA-JM engines. This AD was prompted by an in-flight shutdown (IFSD) caused by the fracture of a low-pressure compressor (LPC) 1st-stage integrally bladed rotor (IBR-1). This AD requires removal and replacement of affected LPC key washers and affected LPC IBR-1 and installation of inlet guide vane (IGV) spacers. The FAA is issuing this AD to address the unsafe condition on these products.

**DATES:** This AD is effective August 20, 2024.

#### ADDRESSES:

*AD Docket:* You may examine the AD docket at *regulations.gov* under Docket No. FAA–2024–0763; or in person at Docket Operations between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this final rule, any comments received, and other information. The address for Docket Operations is 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:

Carol Nguyen, Aviation Safety Engineer, FAA, 2200 South 216th Street, Des Moines, WA 98198; phone: (781) 238– 7655; email: *carol.nguyen@faa.gov.* 

## SUPPLEMENTARY INFORMATION:

## Background

The FAA issued a notice of proposed rulemaking (NPRM) to amend 14 CFR part 39 by adding an AD that would apply to all IAE LLC Model PW1122G-JM, PW1124G1-JM, PW1124G-JM, PW1127G1-JM, PW1127G1A-JM, PW1127G1B-JM, PW1127G-JM, PW1127GA-JM, PW1129G-JM, PW1130G-JM, PW1133G-JM, and PW1133GA–JM engines. The NPRM published in the Federal Register on March 25, 2024 (89 FR 20551). The NPRM was prompted by an incident involving an Airbus Model A320neo airplane powered by IAE LLC Model PW1127G-JM engines that experienced an IFSD. A manufacturer investigation determined that the IFSD was caused by a fractured LPC IBR-1, which resulted from an aerodynamic excitation. The most likely cause of the aerodynamic excitation was a misaligned IGV located directly upstream of the IBR-1. As a result, Pratt & Whitney (PW) redesigned the LPC IGV arm assembly by adding a spacer to provide additional torque capability and to prevent a misaligned vane. PW also redesigned the IBR-1 to better withstand an aerodynamic excitation from a misaligned IGV. In the NPRM, the FAA proposed to require removal and replacement of affected LPC key washers and affected LPC IBR-1 and installation of LPC IGV spacers. The FAA is issuing this AD to address the unsafe condition on these products.

## **Discussion of Final Airworthiness Directive**

## Comments

The FAA received comments from four commenters. The commenters were the Air Line Pilots Association, International (ALPA), All Nippon Airways CO., LTD. (ANA), Delta Air Lines, Inc (DAL), and Frontier Airlines (Frontier). ALPA supported the NPRM without change. The following presents the comments received on the NPRM and the FAA's response to each comment.

### **Request To Update Paragraph (g)(1)**

Frontier requested that the FAA update paragraph (g)(1) of the proposed AD to read as follows: "For engines that are pre-PW Service Bulletin (SB) PW1000G-C-72-00-0180-00A-930A-D, Issue No. 001, dated October 10, 2020 (PW SB PW1000G-C-72-00-0180-00A- 930A–D) with installed LPC key washers having P/N 5375416, at the next engine shop visit after the effective date of this AD, remove the affected LPC key washers and replace them with LPC key washers and LPC IGV spacers that are eligible for installation." Frontier noted that tracking installed washers on engines is very difficult since they are not tracked parts, and post service bulletin engines have LPC key washers and LPT IGV spacers that are eligible for installation.

The FAA agrees to update paragraph (g)(1) of this AD to include reference to engines that have not incorporated PW SB PW1000G–C–72–00–0180–00A–930A–D.

## Request To Update Paragraph (g)(2)

Frontier requested that the FAA update paragraph (g)(2) of the proposed AD to read as follows: "For engines that are pre-service bulletin SB PW1000G– C-72-00-0189-00A-930A–D, with an installed LPC IBR–1 having PN 5373831, at the next piece-part exposure after effective date of this AD, remove the affected LPC IBR–1 and replace with an LPC IBR–1 eligible for installation."

The FAA disagrees with the request because the LPC IBR-1 is a tracked lifelimited part, so adding qualifying language for "pre-PW SB PW1000G-C-72-00-0189-00A-930A-D" engines is unnecessary. The FAA did not change this AD as a result of this comment.

## Request To Add "Credit for Previous Actions" Paragraph

DAL requested that the FAA add a "Credit for Previous Actions" paragraph to the proposed AD to allow credit for the actions required by paragraph (g)(1)if PW SB PW1000G-C-72-00-0180-00A-930A-D was previously accomplished. ANA also requested that accomplishment of PW SB PW1000G-C-72-00-0180-00A-930A-D be accepted as credit for paragraph (g)(1) of the proposed AD, and accomplishment of PW SB PW1000G-C-72-00-0189-00A-930A, Issue 001, dated January 26, 2022, PW SB PW1000G-C-72-00-0189-00A-930A, Issue 002, dated March 15, 2022, and PW SB PW1000G-C-72-00-0189-00A-930A, Issue 003, dated November 28, 2022, be accepted as credit for paragraph (g)(2) of the proposed AD if these actions were performed before the effective date of the proposed AD. DAL noted that because the proposed AD does not provide credit for installing the post-SB spacers and washers, operators must

physically verify that all 61 spacers are present and all 61 washers are post-SB on all engines, regardless of whether or not the engine records show accomplishment of PW SB PW1000G– C-72–00–0180–00A–930A–D. DAL also noted that this is a very manual, timeintensive task that should be avoided considering PW SB PW1000G–C-72– 00–0180–00A–930A–D installs key washers P/N 5375416 and LPC spacers P/N 5375433, and those parts comply with the "part eligible for installation" definitions listed in paragraphs (h)(3) and (h)(4) of the proposed AD.

The FAA disagrees with the request to add a "Credit for Previous Actions" paragraph to this AD. This AD references affected engines with specific P/Ns installed in paragraph (g) of this AD, and if the service bulletins related to this AD have already been performed on the engine, then the affected P/Ns are no longer installed and the AD is no longer applicable to those engines. Therefore, previous credit is not necessary because the engine no longer has an affected P/N installed. The FAA notes that paragraph (g)(1) of this AD has been changed to reference PW SB PW1000G-C-72-00-0180-00A-930A-D and to reduce the burden on operators. The FAA did not change this AD as a result of this comment.

# Request To Clarify Meaning of "At the Next Piece-Part Exposure"

ANA requested that the FAA clarify the meaning of "at the next piece-part exposure" in paragraph (g)(2) of the proposed AD. ANA asks if LPC IBR–1 is already separated from the LPC module and assembly has already begun by the effective date of this AD, should the requirement of paragraph (g)(2) not be performed in this shop visit? ANA also wondered about the same scenario if the assembly had not begun by the effective date of this AD.

To clarify, the FAA's meaning of "at the next piece-part exposure" covers both cases. Paragraph (h)(2) of this AD defines a "piece-part exposure" as when the LPC IBR-1 is separated from the LPC module. The FAA considers the "next" exposure to include any separation of the LPC IBR-1 from the LPC module after the effective date of this AD. If the LPC IBR-1 is assembled into the module on the effective date of this AD, then it is not a "piece-part exposure." If the LPC IBR-1 is separated from the LPC module after the effective date of the AD, then paragraph (g)(2) of this AD will need to be performed

because it will meet the definition of "piece-part exposure". The FAA is not concerned if the assembly of the LPC module has started or not.

The FAA did not change this AD as a result of this comment.

# Request To Clarify "Major Mating Engine Flanges"

ANA requested that the FAA clarify if "major mating engine flanges" referenced in paragraph (h)(1) of the proposed AD are considered as flanges E through P.

To clarify, the FAA considers the major mating engine flanges referenced in paragraph (h)(1) of this AD as flanges E through P, inclusive. The FAA did not change this AD as a result of this comment.

# Request To Clarify "Induction of an Engine"

ANA requested that the FAA clarify the meaning of "induction of an engine" in paragraph (h)(1) of the proposed AD. ANA asked if an engine is already inshop for maintenance involving the separation of pairs of major mating engine flanges at the effective date of this AD, does paragraph (g)(1) need to be performed in this shop visit?

To clarify, the FAA's meaning of "induction of an engine" when using the example provided by ANA is: "if the engine was already at an engine shop visit on the effective date of this AD, the requirements of paragraph (g)(1) would apply at the next engine shop visit after the effective date of this AD." The FAA did not change this AD as a result of this comment.

## Conclusion

The FAA reviewed the relevant data, considered any comments received, and determined that air safety requires adopting this AD as proposed. Accordingly, the FAA is issuing this AD to address the unsafe condition on these products. Except for minor editorial changes, and any other changes described previously, this AD is adopted as proposed in the NPRM. None of the changes will increase the economic burden on any operator.

## **Costs of Compliance**

The FAA estimates that this AD affects 215 engines installed on airplanes of U.S. registry.

The FAA estimates the following costs to comply with this AD:

## ESTIMATED COSTS

Action	Labor cost	Parts cost	Cost per product	Cost on U.S. operators
Replace LPC IBR-1 Replace IGV key washers and install IGV spac- ers.	1 work-hours × \$85 per hour = \$85 20 work-hours × \$85 per hour = \$1,700	\$36,350 4,392	\$36,435 6,092	\$7,833,525 1,309,780

## 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.

The FAA is 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) Will not affect intrastate aviation in Alaska, and

(3) 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.

#### 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:

2024–14–04 International Aero Engines, LLC: Amendment 39–22785; Docket No. FAA–2024–0763; Project Identifier AD– 2023–00924–E.

### (a) Effective Date

This airworthiness directive (AD) is effective August 20, 2024.

#### (b) Affected ADs

None.

## (c) Applicability

This AD applies to International Aero Engines Model PW1122G–JM, PW1124G1– JM, PW1124G–JM, PW1127G1–JM, PW1127G1A–JM, PW1127G1B–JM, PW1127G–JM, PW1127GA–JM, PW1129G– JM, PW1130G–JM, PW1133G–JM, and PW1133GA–JM engines.

## (d) Subject

Joint Aircraft System Component (JASC) Code 7230, Turbine Engine Compressor Section.

## (e) Unsafe Condition

This AD was prompted by an in-flight shutdown caused by the fracture of a lowpressure compressor (LPC) 1st-stage integrally bladed rotor (IBR-1). The FAA is issuing this AD to prevent the failure of the LPC IBR-1. The unsafe condition, if not addressed, could result in damage to the engine, damage to the airplane, and possible loss of the airplane.

## (f) Compliance

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

#### (g) Required Actions

(1) For affected engines that have not incorporated Pratt & Whitney Service Bulletin PW1000G-C-72-00-0180-00A-930A-D (initial issue or any revision), and with installed LPC key washers having part number (P/N) 5375416, at the next engine shop visit after the effective date of this AD, remove the affected LPC key washers and replace them with LPC key washers and LPC inlet guide vane (IGV) spacers that are eligible for installation. (2) For affected engines with an installed LPC IBR-1 having P/N 5373831, at the next piece-part exposure after the effective date of this AD, remove the affected LPC IBR-1 and replace with an LPC IBR-1 eligible for installation.

#### (h) Definitions

For the purposes of this AD: (1) An "engine shop visit" is the induction of an engine into the shop for maintenance involving the separation of pairs of major mating engine flanges, except that the separation of engine flanges solely for the purposes of transportation without subsequent engine maintenance does not constitute an engine shop visit.

(2) A "piece-part exposure" is when the LPC IBR-1 is separated from the LPC module.

(3) "LPC key washers eligible for installation" are any LPC key washers having P/N 5375434 or later-approved P/N.

(4) "LPC IGV spacers eligible for installation" are any LPC IGV spacers having P/N 5375433 or later-approved P/N.

(5) An "LPC IBR–1 eligible for installation" is any LPC IBR–1 having P/N 5373841 or later-approved P/N.

## (i) Alternative Methods of Compliance (AMOCs)

(1) The Manager, AIR-520 Continued Operational Safety Branch, 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 AIR-520 Continued Operational Safety Branch, send it to the attention of the person identified in paragraph (j) of this AD and email to: *AMOC@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.

## (j) Additional Information

For more information about this AD, contact Carol Nguyen, Aviation Safety Engineer, FAA, 2200 South 216th Street, Des Moines, WA 98198; phone: (781) 238–7655; email: carol.nguyen@faa.gov.

#### (k) Material Incorporated by Reference

None.

Issued on July 10, 2024. **Peter A. White,** Deputy Director, Integrated Certificate Management Division, Aircraft Certification Service. [FR Doc. 2024–15466 Filed 7–15–24; 8:45 am]

BILLING CODE 4910-13-P

## DEPARTMENT OF TRANSPORTATION

## Federal Aviation Administration

## 14 CFR Part 71

[Docket No. FAA-2024-1088; Airspace Docket No. 24-AWA-2]

## RIN 2120-AA66

## Amendment of Class C Airspace; Fayetteville Regional/Grannis Field and Pope AFB, Fayetteville, NC

**AGENCY:** Federal Aviation Administration (FAA), DOT. **ACTION:** Final rule.

**SUMMARY:** This action amends the Fayetteville Regional/Grannis Field and Pope AFB, NC, Class C airspace descriptions to update the geographic coordinates of each airport reference point (ARP) and update the Pope AFB airport name to match the FAA's National Airspace System Resources (NASR) database information. Additionally, this action amends the airspace description by updating the header format. This action does not change the boundaries, altitudes, or operating requirements of the Class C airspace areas.

**DATES:** Effective date 0901 UTC, October 31, 2024. The Director of the Federal Register approves this incorporation by reference action under 1 CFR part 51, subject to the annual revision of FAA Order JO 7400.11 and publication of conforming amendments.

**ADDRESSES:** A copy of this final rule and all background material may be viewed online at *www.regulations.gov* using the FAA Docket number. Electronic retrieval help and guidelines are available on the website. It is available 24 hours each day, 365 days each year.

FAA Order JO 7400.11H, Airspace Designations and Reporting Points, and subsequent amendments can be viewed online at *www.faa.gov/air\_traffic/ publications/.* For further information, you can contact the Rules and Regulations Group, Federal Aviation Administration, 800 Independence Avenue SW, Washington, DC 20591; telephone: (202) 267–8783.

**FOR FURTHER INFORMATION CONTACT:** Brian Vidis, Rules and Regulations Group, Office of Policy, Federal Aviation Administration, 800 Independence Avenue SW, Washington, DC 20591; telephone: (202) 267–8783.

## SUPPLEMENTARY INFORMATION:

## Authority for This Rulemaking

The FAA's authority to issue rules regarding aviation safety is found in Title 49 of the United States Code. 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. This rulemaking is promulgated under the authority described in Subtitle VII, Part A, Subpart I, Section 40103. Under that section, the FAA is charged with prescribing regulations to assign the use of the airspace necessary to ensure the safety of aircraft and the efficient use of airspace. This regulation is within the scope of that authority as it updates the information in the Fayetteville Regional/Grannis Field and Pope AFB, NC, Class C airspace descriptions.

## History

During a review of the Fayetteville Regional/Grannis Field and Pope AFB, NC, Class C airspace descriptions, the FAA identified the need to update the name of the Pope AFB, update ARP geographic coordinates for the Fayetteville Regional/Grannis Field, Gray's Creek airport, and Pope AFB, and to update the text header format for the Fayetteville Regional/Grannis Field and Pope AFB Class C airspace descriptions as published in FAA Order JO 7400.11H.

#### **Incorporation by Reference**

Class C airspace areas are published in paragraph 4000 of FAA Order JO 7400.11, Airspace Designations and Reporting Points, which is incorporated by reference in 14 CFR 71.1 on an annual basis. This document amends the current version of that order, FAA Order JO 7400.11H, dated August 11, 2023, and effective September 15, 2023. FAA Order JO 7400.11H is publicly available as listed in the **ADDRESSES** section of this document. These amendments will be published in the next update to FAA Order JO 7400.11.

FAA Order JO 7400.11H lists Class A, B, C, D, and E airspace areas, air traffic service routes, and reporting points.

## The Rule

This action amends 14 CFR part 71 by amending the Fayetteville Regional/ Grannis Field and Pope AFB, NC, Class C airspace descriptions as published in FAA Order JO 7400.11H, Airspace Designations and Reporting Points. In the description of Fayetteville Regional/Grannis Field the ARP geographic coordinates for the Fayetteville Regional/Grannis Field are updated from "lat. 34°59′29" N, long. 78°52′48″ W'' to "lat. 34°59′28″ N, long. 078°52′49″ W.'' The ARP geographic coordinates for the Gray's Creek Airport are updated from "lat. 34°53′04″ N, long. 78°50′08″ W'' to "lat. 34°53′37″ N, long. 078°50′37″ W'' which matches the FAA's NASR database information. Additionally, the airport name is removed from the first line in the text header of the description leaving the city and state which align with the current formatting standard.

In the description of Pope AFB, the name "Pope AFB" is changed to "Pope AAF" to match the Airport Master Record database. The ARP geographic coordinates are updated from "lat. 35°10'16" N, long. 79°00'52" W" to "lat. 35°10'15" N, long. 079°00'52" W'' which matches the FAA's NASR database information. Additionally, the airport name is removed from the first line in the text header of the description leaving the city and state which align with the current formatting standard. In the body of the Class C description, the name "Pope AFB" is changed to "Pope AAF.'

This action consists of administrative changes only and does not affect the boundaries, altitudes, or operating requirements of the airspace. Therefore, notice and public procedure under 5 U.S.C. 553(b) is unnecessary.

## **Regulatory Notices and Analyses**

The FAA has determined that this regulation only involves an established body of technical regulations for which frequent and routine amendments are necessary to keep them operationally current. It, therefore: (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); and (3) does not warrant preparation of a regulatory evaluation as the anticipated impact is so minimal. Since this is a routine matter that only affects air traffic procedures and air navigation, it is certified that this rule, when promulgated, does not have a significant economic impact on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

#### **Environmental Review**

The FAA has determined that this action of amending the Fayetteville Regional/Grannis Field and Pope AFB, NC, Class C airspace descriptions to update geographic coordinates of the