

inspection, and oversight across the executive branch.

The CUI rule identifies NARA as the Executive Agent responsible for implementing E.O. 13556 and overseeing agency actions to ensure compliance with the E.O., the CUI rule, and the CUI registry. The CUI registry is an online repository located on the NARA website (<https://www.archives.gov/cui>) which, among other information, identifies all approved CUI categories, provides general descriptions for each, identifies the basis for controls, establishes markings, and includes guidance on handling procedures. The categories within the CUI registry serve as the exclusive designations for identifying CUI.

The CUI program at the NRC will replace the SUNSI program and will also include, within its scope, Safeguards Information (SGI) and Safeguards Information—Modified Handling. Section 147 of the AEA, as amended, provides NRC with the statutory authority to prohibit the unauthorized disclosure of SGI. Even though SGI is a form of CUI under the CUI rule, specific controls found in part 73 of title 10 of the *Code of Federal Regulations*, “Physical Protection of Plants and Materials,” continue to apply to SGI.

The NRC recognizes that the CUI rule could alter how information is shared between the agency and external parties, including licensees, applicants, Agreement and non-Agreement States, and others. The NRC is committed to avoiding unintended consequences that unnecessarily increase the burden on external stakeholders while also maintaining adequate protective measures for CUI.

The CUI program is separate from the Classified National Security Information program. While the two programs may share similar language and some similar requirements, the CUI program’s requirements for designating, protecting, accessing, sharing, and decontrolling information, as well as the repercussions for misuse, differ from those for the Classified National Security Information program.

The CUI program does not change NRC policy and practices in responding to a Freedom of Information Act (FOIA) request. Marking and designating information as CUI does not preclude information from release under the FOIA or preclude it from otherwise being considered for public release. The staff must still review the information and apply FOIA exemptions appropriately.

While the NRC transitions to the CUI program, all elements of the NRC’s SUNSI program will remain in place. If NRC employees or contractors receive CUI before the implementation of the CUI program at the NRC, they will continue to follow current NRC guidance to protect sensitive information.

#### *Key Elements of the CUI Program*

(1) *The NRC’s CUI Program Office:* The NRC’s CUI Senior Agency Official (SAO) is responsible for planning, directing, and overseeing the implementation of a comprehensive, coordinated, integrated, efficient, and cost-effective NRC CUI program, consistent with applicable laws, regulations, and Commission direction and policies. The SAO’s duties are assigned to the Director, Governance and Enterprise Management Services Division, in the Office of the Chief Information Officer.

(2) *Applicability:* This policy applies to all NRC employees and contractors. The CUI rule also may apply indirectly through information-sharing agreements to persons or entities that are provided access to information that has been designated as CUI.

In accordance with the CUI rule, the NRC’s CUI program will contain the following elements:

- Safeguarding standards, including for marking, physical protection, and destruction;
- Information technology and cybersecurity control standards;
- Access and dissemination standards, including, where feasible, agreements with external parties for sharing information;
- Training;
- Processes for decontrolling information, issuing waivers, managing incidents, and challenging designations of information as CUI; and
- A self-inspection and corrective action program.

Management Directive 12.6, “NRC Controlled Unclassified Information Program,” will provide detailed guidance to NRC staff and contractors for the handling, marking, protecting, sharing, destroying, and decontrolling of CUI.

Dated: November 4, 2021.

For the Nuclear Regulatory Commission.

**Annette Vietti-Cook,**  
*Secretary of the Commission.*

[FR Doc. 2021–24543 Filed 11–10–21; 8:45 am]

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## DEPARTMENT OF TRANSPORTATION

### Federal Aviation Administration

#### 14 CFR Part 39

[Docket No. FAA–2021–0620; Project Identifier 2019–SW–074–AD; Amendment 39–21766; AD 2021–21–06]

RIN 2120–AA64

#### **Airworthiness Directives; Hélicoptères Guimbal Helicopters**

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

**ACTION:** Final rule.

**SUMMARY:** The FAA is adopting a new airworthiness directive (AD) for Hélicoptères Guimbal (HG) Model Cabri G2 helicopters with certain part-numbered aluminum cooling fans (cooling fan) installed. This AD was prompted by a report of an occurrence of an in-flight shutdown due to a crack and subsequent failure of the cooling fan. This AD requires removing certain part-numbered cooling fans from service, or modifying certain part-numbered cooling fans before exceeding a certain total hours time-in-service (TIS), and installing newly designed cooling fans. This AD also prohibits installing any affected cooling fan on any helicopter. The FAA is issuing this AD to address the unsafe condition on these products.

**DATES:** This AD is effective December 17, 2021.

The Director of the Federal Register approved the incorporation by reference of a certain document listed in this AD as of December 17, 2021.

**ADDRESSES:** For service information identified in this final rule, contact Hélicoptères Guimbal, Basile Ginel, 1070, rue du Lieutenant Parayre, Aéroport d’Aix-en-Provence, 13290 Les Milles, France; telephone 33–04–42–39–10–88; email [basile.ginel@guimbal.com](mailto:basile.ginel@guimbal.com); web <https://www.guimbal.com>. You may view the referenced service information at the FAA, Office of the Regional Counsel, Southwest Region, 10101 Hillwood Pkwy., Room 6N–321, Fort Worth, TX 76177. For information on the availability of this material at the FAA, call (817) 222–5110. Service information that is incorporated by reference is also available at <https://www.regulations.gov> by searching for and locating Docket No. FAA–2021–0620.

#### **Examining the AD Docket**

You may examine the AD docket at <https://www.regulations.gov> by searching for and locating Docket No.

FAA–2021–0620; 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, the European Union Aviation Safety Agency (EASA) AD, any comments received, and other information. The street 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:**

Andrea Jimenez, Aerospace Engineer, COS Program Management Section, Operational Safety Branch, Compliance & Airworthiness Division, FAA, 1600 Stewart Ave., Suite 410, Westbury, NY 11590; telephone (516) 228–7330; email [andrea.jimenez@faa.gov](mailto:andrea.jimenez@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 Hélicoptères Guimbal (HG) Model Cabri G2 helicopters with a cooling fan part number P/N G52–00–000; or P/N G52–00–001 or P/N G52–04–100, if it is or has previously been mounted on a 12-hole engine pulley P/N G52–10–100 or P/N G52–10–101, installed. The NPRM published in the **Federal Register** on August 9, 2021 (86 FR 43449). In the NPRM, the FAA proposed to require removing from service any affected part-numbered cooling fan. As an alternative for certain part-numbered cooling fans, modifying the cooling fan before it exceeds a certain total hours TIS was proposed.

The NPRM was prompted by a series of EASA ADs beginning with EASA AD 2014–0038, dated February 14, 2014 (EASA AD 2014–0038), issued by EASA, which is the Technical Agent for the Member States of the European Union, to correct an unsafe condition for Hélicoptères Guimbal Model Cabri G2 helicopters. EASA advised of a report of an in-flight engine shutdown caused by a failure of the cooling fan. EASA further advised the failure of the cooling fan was caused by a crack in the fan external ring. After EASA AD 2014–0038 was issued, an occurrence was reported of an in-flight failure caused by failure of the cooling fan, which was determined to be caused by a crack on the cooling fan front flange.

Accordingly, EASA issued EASA AD 2014–0196, dated September 2, 2014 (EASA AD 2014–0196), which retained the modification requirements of EASA AD 2014–0038 and required repetitive inspections of the engine cooling fan

front flange and corrective actions depending on the findings. After EASA issued EASA AD 2014–0196, further analysis determined the crack propagation depends mainly on the engine start/stop (ESS) cycles. Therefore, EASA superseded EASA AD 2014–0196 with EASA AD 2016–0033, dated February 24, 2016 (EASA AD 2016–0033), which retained the inspection and modification requirements of EASA AD 2014–0196 and depending on the findings, required replacement of the affected part pending approval of the newly designed part.

After EASA issued EASA AD 2016–0033, HG developed a newly designed engine cooling fan P/N G52–04–101, which consists of composite materials having improved structural strength. Accordingly, EASA superseded EASA AD 2016–0033 with EASA AD 2017–0039, dated February 24, 2017 (EASA AD 2017–0039), which retained the requirements of EASA AD 2016–0033 and required replacing the affected cooling fans with the newly designed cooling fan which terminated the repetitive inspections from EASA AD 2016–0033.

Since EASA issued EASA AD 2017–0039, HG issued a revision to its service bulletin requiring a life limit requirement for the replacement of the affected cooling fans. Accordingly, EASA superseded EASA AD 2017–0039 with EASA AD 2019–0187, dated July 31, 2019, and corrected August 2, 2019 (EASA AD 2019–0187). EASA AD 2019–0187 retains some of the requirements in EASA AD 2017–0039 and requires a new compliance time and life limit for the replacement of the affected part. EASA AD 2019–0187 also removes the modification and inspection requirements which are covered by EASA AD 2019–0025, dated February 4, 2019.

The unsafe condition described in the EASA ADs, if not addressed, could result in failure of the cooling fan and subsequent engine in-flight shut-down and reduced control of the helicopter.

**Discussion of Final Airworthiness Directive**

**Comments**

The FAA received comments from one commenter. The following presents the comment received on the NPRM and the FAA's response.

**Request To Change the Summary Paragraph**

Hélicoptères Guimbal requested the FAA revise the references made to the amount of in-flight shut-down occurrences; the commenter stated that

there were not two engine shutdowns due to fan failure but one. The FAA agrees that there was only one occurrence of an in-flight shut-down, and one occurrence of an in-flight failure. Therefore, the FAA has revised this final rule accordingly.

**Conclusion**

The FAA reviewed the relevant data 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, including the changes described above, this AD is adopted as proposed in the NPRM. These changes do not increase the scope of the AD.

**Related Service Information Under 1 CFR Part 51**

The FAA reviewed Guimbal Service Bulletin SB 16–021 E, dated August 27, 2019. This service information specifies instructions for retrofitting the cooling fan with the new front flange, aft ring, and 24-hole pulley. This service information also specifies that upon completion of all the required actions, the cooling fan assembly P/N G52–00–000, P/N G52–00–001, and P/N G52–04–100 become P/N G52–04–101.

This service information is reasonably available because the interested parties have access to it through their normal course of business or by the means identified in the **ADDRESSES** section.

**Other Related Service Information**

The FAA also reviewed Guimbal Service Bulletin SB 16–021 D, dated May 20, 2019, which specifies procedures for accessing the cooling fan and removing it from service; modifying, applying adhesive and torquing the rear flange; installing the improved cooling fan, and additional actions.

**Differences Between This AD and EASA AD 2019–0187**

EASA AD 2019–0187 allows certain cooling fans with certain total hours TIS to be retrofitted before exceeding their life limit, whereas this AD requires removing these cooling fans from service or as an alternate to removing them from service, modifying the cooling fan before exceeding the total hours TIS. EASA AD 2019–0187 allows a compliance time in months TIS to replace certain part-numbered cooling fans, whereas this AD only allow hours TIS.

EASA AD 2019–0187 retains the compliance time of March 10, 2017, which is the effective date of EASA AD 2017–0039. This AD requires

compliance within the effective date of this AD. The FAA has determined that these compliance times are adequate to address the identified unsafe condition.

### Costs of Compliance

The FAA estimates that this AD affects 32 helicopters of U.S. Registry. Labor rates are estimated at \$85 per work-hour. Based on these numbers, the FAA estimates the following costs to comply with this AD.

Removing the affected cooling fan from service and installing the newly designed cooling fan takes about 16 work-hours and parts cost about \$4,600 for an estimated cost of \$5,960 per replacement and \$190,720 for the U.S. fleet.

### 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 helicopters 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:

#### 2021-21-06 Hélicoptères Guimbal:

Amendment 39-21766; Docket No. FAA-2021-0620; Project Identifier 2019-SW-074-AD.

#### (a) Effective Date

This airworthiness directive (AD) is effective December 17, 2021.

#### (b) Affected ADs

None.

#### (c) Applicability

This AD applies to Hélicoptères Guimbal (HG) Model Cabri G2 helicopters, certificated in any category, the following aluminum cooling fan (cooling fan) part number (P/N) installed:

(1) P/N G52-00-000,

(2) P/N G52-00-001 or P/N G52-04-100, if it is or has previously been mounted on a 12-hole engine pulley P/N G52-10-100 or P/N G52-10-101.

#### (d) Subject

Joint Aircraft Service Component (JASC) Code: 7100, Powerplant System.

#### (e) Unsafe Condition

This AD was prompted by a report of an in-flight engine shutdown due to a crack and subsequent failure of the cooling fan. The FAA is issuing this AD to prevent failure of the cooling fan. This condition, if not addressed, could result in an in-flight engine shut-down and loss of control of the helicopter.

#### (f) Compliance

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

#### (g) Required Actions

(1) For Model Cabri G2 helicopters with cooling fan P/N G52-00-000 installed, within 150 hours time-in-service (TIS) after the effective date of this AD:

(i) Remove the cooling fan from service by following the Required Actions, Cooling Fan Removal, paragraphs (a) through (g), of Guimbal Service Bulletin SB 16-021 E, dated

August 27, 2019 (SB 16-021 Rev E), except you are not required to discard any parts.

(ii) Install the improved cooling fan P/N G52-04-101 by following the Required Actions, Cooling Fan Installation, paragraphs (a) through (j), of SB 16-021 Rev E.

(2) For Model Cabri G2 helicopters with a cooling fan P/N G52-00-001 or P/N G52-04-100 that is mounted or was previously mounted on a 12-hole engine pulley P/N G52-10-100 or P/N G52-10-101, and with 1,500 or more total hours TIS, since first installation on a helicopter, within 150 hours TIS after the effective date of this AD:

(i) Remove the cooling fan from service by following the Required Actions, Cooling Fan Removal, paragraphs (a) through (g), of SB 16-021 Rev E, except you are not required to discard any parts, or remove the cooling fan by following the Required Actions, Cooling Fan Removal, paragraphs (a) through (g), of SB 16-021 Rev E and modify the cooling fan by following the Required Actions, Cooling Fan Retrofit, paragraphs (a) through (h) of SB 16-021 Rev E.

(ii) Install the improved cooling fan P/N G52-04-101 by following the Required Actions, Cooling Fan Installation, paragraphs (a) through (j), of SB 16-021 Rev E.

(3) For Model Cabri G2 helicopters with a cooling fan P/N G52-00-001 or P/N G52-04-100 that is mounted or was previously mounted on a 12-hole engine pulley P/N G52-10-100 or P/N G52-10-101 and with 500 total hours TIS but with less than 1,500 total hours TIS, since first installation on a helicopter, within 500 hours TIS after the effective date of this AD, perform the actions required by paragraphs (g)(2)(i) and (ii) of this AD.

(4) For Model Cabri G2 helicopters with a cooling fan P/N G52-00-001 or P/N G52-04-100 that is mounted or was previously mounted on a 12-hole engine pulley P/N G52-10-100 or P/N G52-10-101 and with less than 500 total hours TIS since first installation on a helicopter, within 1,000 hours TIS after the effective date of this AD, perform the actions required by paragraphs (g)(2)(i) and (ii) of this AD.

(5) As of the effective date of this AD, do not install any cooling fan listed in paragraph (c) of this AD on any helicopter.

#### (h) Credit for Previous Actions

This paragraph provides credit for the actions specified in paragraph (g) of this AD, if those actions were performed before the effective date of this AD using Guimbal Service Bulletin SB 16-021 D, dated May 2019.

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

(1) The Manager, International Validation 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 International Validation Branch, send it to the attention of the person identified in paragraph (j)(1) of this AD. Information may be emailed to: 9-AVS-AIR-730-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) Related Information**

(1) For more information about this AD, contact Andrea Jimenez, Aerospace Engineer, COS Program Management Section, Operational Safety Branch, Compliance & Airworthiness Division, FAA, 1600 Stewart Ave., Suite 410, Westbury, NY 11590; telephone (516) 228-7330; email [andrea.jimenez@faa.gov](mailto:andrea.jimenez@faa.gov).

(2) Guimbal Service Bulletin SB 16-021 D, dated May 20, 2019, which is not incorporated by reference, contains additional information about the subject of this AD. This service information is available at the contact information specified in paragraphs (k)(3) and (4) of this AD.

(3) The subject of this AD is addressed in European Union Aviation Safety Agency (EASA) AD 2019-0187, dated July 31, 2019. You may view the EASA AD at <https://www.regulations.gov> in Docket No. FAA-2021-0620.

**(k) Material Incorporated by Reference**

(1) The Director of the Federal Register approved the incorporation by reference of the service information listed in this paragraph under 5 U.S.C. 552(a) and 1 CFR part 51.

(2) You must use this service information as applicable to do the actions required by this AD, unless the AD specifies otherwise.

(i) Guimbal Service Bulletin SB 16-021 E, dated August 27, 2019.

(ii) [Reserved]

(3) For service information identified in this AD, contact Hélicoptères Guimbal, Basile Ginel, 1070, rue du Lieutenant Parayre, Aérodrôme d'Aix-en-Provence, 13290 Les Milles, France; telephone 33-04-42-39-10-88; email [basile.ginel@guimbal.com](mailto:basile.ginel@guimbal.com); web <https://www.guimbal.com>.

(4) You may view this service information at the FAA, Office of the Regional Counsel, Southwest Region, 10101 Hillwood Pkwy., Room 6N-321, Fort Worth, TX 76177. For information on the availability of this material at the FAA, call (817) 222-5110.

(5) You may view this 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, email: [fr.inspection@nara.gov](mailto:fr.inspection@nara.gov), or go to: <https://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued on November 4, 2021.

**Ross Landes,**

*Deputy Director for Regulatory Operations, Compliance & Airworthiness Division, Aircraft Certification Service.*

[FR Doc. 2021-24541 Filed 11-10-21; 8:45 am]

**BILLING CODE 4910-13-P**

**DEPARTMENT OF TRANSPORTATION**

**Federal Aviation Administration**

**14 CFR Part 39**

[Docket No. FAA-2021-0577; Project Identifier AD-2021-00470-E; Amendment 39-21787; AD 2021-22-14]

**RIN 2120-AA64**

**Airworthiness Directives; Pratt & Whitney Division Turbofan Engines**

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

**ACTION:** Final rule.

**SUMMARY:** The FAA is superseding Airworthiness Directive (AD) 2021-05-16 for certain Pratt & Whitney Division (PW) PW4164, PW4164-1D, PW4168, PW4168-1D, PW4168A, PW4168A-1D, and PW4170 model turbofan engines. AD 2021-05-16 required initial and repetitive replacements of the low-pressure turbine (LPT) 4th-stage air sealing ring segment assemblies with parts eligible for installation. AD 2021-05-16 also required initial and repetitive dimensional inspections of the LPT case for bulging and, depending on the results of the dimensional inspections, repair or replacement of the LPT case. This AD was prompted by notification to the FAA of an inadvertent omission in the LPT 4th-stage air sealing ring segment assembly part numbers. This AD requires initial and repetitive replacements of the LPT 4th-stage air sealing ring segment assemblies with parts eligible for installation. This AD also requires initial and repetitive dimensional inspections of the LPT case for bulging and, depending on the results of the dimensional inspections, repair or replacement of the LPT case. The FAA is issuing this AD to address the unsafe condition on these products.

**DATES:** This AD is effective December 17, 2021.

The Director of the Federal Register approved the incorporation by reference of a certain other publication listed in this AD as of May 7, 2021 (86 FR 17287, April 2, 2021).

**ADDRESSES:** For service information identified in this final rule, contact Pratt & Whitney Division, 400 Main Street, East Hartford, CT 06118; phone: (800) 565-0140; email: [help24@pw.utc.com](mailto:help24@pw.utc.com); website: <https://fleetcare.prattwhitney.com>. You may view this service information at the Airworthiness Products Section, Operational Safety Branch, FAA, 1200 District Avenue, Burlington, MA 01803. For information on the availability of this material at the

FAA, call (781) 238-7759. It is also available at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2021-0577.

**Examining the AD Docket**

You may examine the AD docket at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2021-0577; 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, ECO Branch, FAA, 1200 District Avenue, Burlington, MA 01803; phone: (781) 238-7655; fax: (781) 238-7199; email: [carol.nguyen@faa.gov](mailto:carol.nguyen@faa.gov).

**SUPPLEMENTARY INFORMATION:**

**Background**

The FAA issued a notice of proposed rulemaking (NPRM) to amend 14 CFR part 39 to supersede AD 2021-05-16, Amendment 39-21459 (86 FR 17287, April 2, 2021), (AD 2021-05-16). AD 2021-05-16 applied to certain PW PW4164, PW4164-1D, PW4168, PW4168-1D, PW4168A, PW4168A-1D, and PW4170 model turbofan engines with LPT 4th-stage air sealing ring segment assemblies, part number (P/N) 50N463-01 or P/N 50N526-01, installed. The NPRM published in the **Federal Register** on July 23, 2021 (86 FR 38941). The NPRM was prompted by notification from a manufacturer of parts manufacturer approval (PMA) parts that AD 2021-05-16 should include affected PMA part numbers because the unsafe condition also applies to those parts. AD 2021-05-16 resulted from six reports from the manufacturer concerning LPT 4th-stage vane cluster assemblies leaning back and notching into rotating LPT 4th-stage blades, causing some blades to fracture and release. These incidents resulted in an aborted takeoff, air turnbacks, engine surges, high vibrations, and unplanned engine removals. The incidents were attributed to the LPT 4th-stage air sealing ring segment assemblies moving into the LPT 4th-stage blades knife edge seals, resulting in damage to the ring segment assemblies. In the NPRM, the FAA proposed to require initial and repetitive replacements of the LPT 4th-stage air sealing ring segment assemblies with parts eligible for installation. In the