



[4910-13-P]

**DEPARTMENT OF TRANSPORTATION**

**Federal Aviation Administration**

**14 CFR Part 39**

**[Docket No. FAA-2018-0788; Product Identifier 2018-NM-004-AD]**

**RIN 2120-AA64**

**Airworthiness Directives; Airbus SAS Airplanes**

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

**ACTION:** Notice of proposed rulemaking (NPRM).

**SUMMARY:** We propose to adopt a new airworthiness directive (AD) for certain Airbus SAS Model A330-200, -200F, and -300 series airplanes. This proposed AD was prompted by a revision of the airworthiness limitations section (ALS), which provides new and more restrictive maintenance requirements and airworthiness limitations for airplane structures and systems. This proposed AD would require revising the maintenance or inspection program to incorporate new maintenance requirements and airworthiness limitations. We are proposing this AD to address the unsafe condition on these products.

**DATES:** We must receive comments on this proposed AD by [INSERT DATE 45 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER].

**ADDRESSES:** You may send comments, using the procedures found in 14 CFR 11.43 and 11.45, by any of the following methods:

- Federal eRulemaking Portal: Go to <http://www.regulations.gov>. Follow the instructions for submitting comments.
- Fax: 202-493-2251.
- Mail: U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE., Washington, DC 20590.
- Hand Delivery: Deliver to Mail address above between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

For service information identified in this NPRM, contact Airbus SAS, Airworthiness Office – EAL, Rond-Point Emile Dewoitine No: 2, 31700 Blagnac Cedex, France; phone: +33 5 61 93 36 96; fax: +33 5 61 93 45 80; email: [airworthiness.A330-A340@airbus.com](mailto:airworthiness.A330-A340@airbus.com); Internet: <http://www.airbus.com>. You may view this service information at the FAA, Transport Standards Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206-231-3195.

### **Examining the AD Docket**

You may examine the AD docket on the Internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2018-0788; 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 NPRM, the regulatory evaluation, any comments received, and other information. The street address for Docket Operations (phone: 800-647-5527) is in the ADDRESSES section. Comments will be available in the AD docket shortly after receipt.

**FOR FURTHER INFORMATION CONTACT:** Vladimir Ulyanov, Aerospace Engineer, International Section, Transport Standards Branch, FAA, 2200 South 216th St., Des Moines, WA 98198; phone and fax: 206-231-3229.

**SUPPLEMENTARY INFORMATION:**

**Comments Invited**

We invite you to send any written relevant data, views, or arguments about this proposal. Send your comments to an address listed under the ADDRESSES section. Include “Docket No. FAA-2018-0788; Product Identifier 2018-NM-004-AD” at the beginning of your comments. We specifically invite comments on the overall regulatory, economic, environmental, and energy aspects of this NPRM. We will consider all comments received by the closing date and may amend this NPRM because of those comments.

We will post all comments we receive, without change, to <http://www.regulations.gov>, including any personal information you provide. We will also post a report summarizing each substantive verbal contact we receive about this NPRM.

**Discussion**

The European Aviation Safety Agency (EASA), which is the Technical Agent for the Member States of the European Union, has issued EASA AD 2017-0228, dated November 21, 2017 (referred to after this as the Mandatory Continuing Airworthiness Information, or “the MCAI”), to correct an unsafe condition for all Airbus SAS Model A330 and A340 series airplanes. The MCAI states:

The airworthiness limitations are currently defined and published in the Airbus A330 and A340 Airworthiness Limitations Section (ALS) documents. The airworthiness limitations applicable to the System Equipment Maintenance Requirements, which are approved by EASA, are specified in Airbus A330 and A340 ALS Part 4. Failure to comply with these instructions could result in an unsafe condition.

EASA issued AD 2016-0011 [which corresponds to FAA AD 2017-05-10, Amendment 39-18821 (82 FR 13379, March 13, 2017) (“AD 2017-05-10”)] to require the actions as specified in Airbus A330 and A340 ALS Part 4 at Revision 05 and Revision 04, respectively.

Since this [EASA] AD was issued, Airbus published Revision 06 and Revision 05, respectively, of Airbus A330 and A340 ALS Part 4, which introduce new and more restrictive maintenance requirements and/or airworthiness limitations.

For the reason described above, this [EASA] AD retains the requirements of EASA AD 2016-0011, which is superseded, and requires accomplishment of the actions specified in Airbus A330 ALS Part 4 Revision 06, or A340 ALS Part 4 Revision 05, as applicable.

The unsafe condition is reduced control of the airplane due to the failure of system components.

You may examine the MCAI in the AD docket on the Internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2018-0788.

#### **Relationship Between Proposed AD and AD 2017-05-10**

This NPRM would not propose to supersede AD 2017-05-10. Rather, we have determined that a stand-alone AD would be more appropriate to address the changes in the MCAI. This NPRM would require revising the maintenance or inspection program to incorporate new maintenance requirements and airworthiness limitations.

Accomplishment of the proposed actions would then terminate all of the requirements of AD 2017-05-10.

**Related Service Information under 1 CFR part 51**

Airbus SAS has issued A330 Airworthiness Limitations Section (ALS) Part 4, System Equipment Maintenance Requirements (SEMR), Revision 06, dated September 18, 2017. This service information describes preventative maintenance requirements and associated airworthiness limitations applicable to aircraft systems susceptible to aging effects. 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.

**FAA’s Determination**

This product has been approved by the aviation authority of another country, and is approved for operation in the United States. Pursuant to our bilateral agreement with the State of Design Authority, we have been notified of the unsafe condition described in the MCAI and service information referenced above. We are proposing this AD because we evaluated all the relevant information and determined the unsafe condition described previously is likely to exist or develop on other products of the same type design.

**Proposed Requirements of this NPRM**

This proposed AD would require revising the maintenance or inspection program to incorporate new maintenance requirements and airworthiness limitations.

### **Differences Between this Proposed AD and the MCAI or Service Information**

EASA AD 2017-0228, dated November 21, 2017, specifies that if there are findings from the ALS inspection tasks, corrective actions must be accomplished in accordance with Airbus SAS maintenance documentation. However, this proposed AD does not include that requirement. Operators of U.S.-registered airplanes are required by general airworthiness and operational regulations to perform maintenance using methods that are acceptable to the FAA. We consider those methods to be adequate to address any corrective actions necessitated by the findings of ALS inspections required by this proposed AD.

This proposed AD does not include Model A340 series airplanes in the Applicability. AD 2014-23-17, Amendment 39-18033 (79 FR 71304, December 2, 2014), currently addresses the identified unsafe condition for Model A340 series airplanes. We have also added EASA AD 2017-0228, dated November 21, 2017, to the required airworthiness action list (RAAL) for Model A340 series airplanes.

### **Airworthiness Limitations Based on Type Design**

The FAA recently became aware of an issue related to the applicability of ADs that require incorporation of an ALS revision into an operator's maintenance or inspection program.

Typically, when these types of ADs are issued by civil aviation authorities of other countries, they apply to all airplanes covered under an identified type certificate (TC). The corresponding FAA AD typically retains applicability to all of those airplanes.

In addition, U.S. operators must operate their airplanes in an airworthy condition, in accordance with 14 CFR 91.7(a). Included in this obligation is the requirement to perform any maintenance or inspections specified in the ALS, and in accordance with the ALS as specified in 14 CFR 43.16 and 91.403(c), unless an alternative has been approved by the FAA.

When a TC is issued for a type design, the specific ALS, including revisions, is a part of that type design, as specified in 14 CFR 21.31(c).

The sum effect of these operational and maintenance requirements is an obligation to comply with the ALS defined in the type design referenced in the manufacturer's conformity statement. This obligation may introduce a conflict with an AD that requires a specific ALS revision if new airplanes are delivered with a later revision as part of their type design.

To address this conflict, the FAA has approved alternative methods of compliance (AMOCs) that allow operators to incorporate the most recent ALS revision into their maintenance/inspection programs, in lieu of the ALS revision required by the AD. This eliminates the conflict and enables the operator to comply with both the AD and the type design.

However, compliance with AMOCs is normally optional, and we recently became aware that some operators choose to retain the AD-mandated ALS revision in their fleet-wide maintenance/inspection programs, including those for new airplanes delivered with later ALS revisions, to help standardize the maintenance of the fleet. To ensure that operators comply with the applicable ALS revision for newly delivered airplanes

containing a later revision than that specified in an AD, we plan to limit the applicability of ADs that mandate ALS revisions to those airplanes that are subject to an earlier revision of the ALS, either as part of the type design or as mandated by an earlier AD.

This proposed AD therefore would apply to Airbus SAS airplanes identified in paragraph (c) of this proposed AD with an original certificate of airworthiness or original export certificate of airworthiness that was issued on or before the date of the ALS revision identified in this proposed AD. Operators of airplanes with an original certificate of airworthiness or original export certificate of airworthiness issued after that date must comply with the airworthiness limitations specified as part of the approved type design and referenced on the TC data sheet.

### **Costs of Compliance**

We estimate that this proposed AD affects 104 airplanes of U.S. registry.

We have determined that revising the maintenance or inspection program takes an average of 90 work-hours per operator, although we recognize that this number may vary from operator to operator. In the past, we have estimated that this action takes 1 work-hour per airplane. Since operators incorporate maintenance or inspection program changes for their affected fleet(s), we have determined that a per-operator estimate is more accurate than a per-airplane estimate. Therefore, we estimate the total cost per operator to be \$7,650 (90 work-hours x \$85 per work-hour).

### **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.

This proposed AD is issued in accordance with authority delegated by the Executive Director, Aircraft Certification Service, as authorized by FAA Order 8000.51C. In accordance with that order, issuance of ADs is normally a function of the Compliance and Airworthiness Division, but during this transition period, the Executive Director has delegated the authority to issue ADs applicable to transport category airplanes to the Director of the System Oversight Division.

### **Regulatory Findings**

We determined that this proposed AD would not have federalism implications under Executive Order 13132. This proposed AD would 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 this proposed regulation:

1. Is not a “significant regulatory action” under Executive Order 12866;
2. Is not a “significant rule” under the 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.

**The Proposed Amendment**

Accordingly, under the authority delegated to me by the Administrator, the FAA proposes to amend 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):

**Airbus SAS:** Docket No. FAA-2018-0788; Product Identifier 2018-NM-004-AD.

**(a) Comments Due Date**

We must receive comments by [INSERT DATE 45 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER].

**(b) Affected ADs**

This AD affects AD 2017-05-10, Amendment 39-18821 (82 FR 13379, March 13, 2017) (“AD 2017-05-10”).

**(c) Applicability**

This AD applies to Airbus SAS Model A330-201, A330-202, A330-203, A330-223, A330-243, A330-223F, A330-243F, A330-301, A330-302, A330-303, A330-321, A330-322, A330-323, A330-341, A330-342, and A330-343 airplanes, certificated in any category, with an original certificate of airworthiness or original export certificate of airworthiness issued on or before September 18, 2017.

**(d) Subject**

Air Transport Association (ATA) of America Code 05, Time Limits/Maintenance Checks.

**(e) Reason**

This AD was prompted by a revision of the airworthiness limitations section (ALS), which provides new and more restrictive maintenance requirements and airworthiness limitations for airplane structures and systems. We are issuing this AD to prevent reduced airplane control due to the failure of system components.

**(f) Compliance**

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

**(g) Maintenance Program Revision**

Within 90 days after the effective date of this AD, revise the maintenance or inspection program, as applicable, by incorporating Airbus A330 Airworthiness

Limitations Section (ALS) Part 4, System Equipment Maintenance Requirements (SEMR), Revision 06, dated September 18, 2017. The initial compliance times for the actions specified in Airbus A330 Airworthiness Limitations Section (ALS) Part 4, System Equipment Maintenance Requirements (SEMR), Revision 06, dated September 18, 2017, are within the applicable compliance times specified in Airbus A330 Airworthiness Limitations Section (ALS) Part 4, System Equipment Maintenance Requirements (SEMR), Revision 06, dated September 18, 2017, or within 90 days after the effective date of this AD, whichever occurs later, except as required by paragraph (h) of this AD.

**(h) Exceptions to Initial Compliance Times**

(1) Where Airbus A330 Airworthiness Limitations Section (ALS) Part 4, System Equipment Maintenance Requirements (SEMR), Revision 06, dated September 18, 2017, defines a calendar compliance time for elevator servo-controls having part number (P/N) SC4800-2, SC4800-3, SC4800-4, SC4800-6, SC4800-7, or SC4800-8 as “August 31, 2004,” the calendar compliance time is June 13, 2007 (34 months after August 13, 2004 (the effective date of AD 2004-13-25, Amendment 39-13707 (69 FR 41394, July 9, 2004))).

(2) Where Airbus A330 Airworthiness Limitations Section (ALS) Part 4, System Equipment Maintenance Requirements (SEMR), Revision 06, dated September 18, 2017, defines a calendar compliance time for spoiler servo-controls (SSCs) having P/N 1386A0000-01, 1386B0000-01, 1387A0000-01, or 1387B0000-01 as “December 31, 2003,” the calendar compliance time is November 19, 2005 (13 months

after October 19, 2004 (the effective date of AD 2004-18-14, Amendment 39-13793 (69 FR 55326, September 14, 2004))).

(3) Where Airbus A330 Airworthiness Limitations Section (ALS) Part 4, System Equipment Maintenance Requirements (SEMR), Revision 06, dated September 18, 2017, defines a calendar compliance time for elevator servo-controls having P/N SC4800-73, SC4800-93, SC4800-103, and SC4800-113 as “June 30, 2008,” the calendar compliance time is September 16, 2009 (17 months after April 16, 2008 (the effective date of AD 2008-06-07, Amendment 39-15419 (73 FR 13103, March 12, 2008; corrected April 15, 2008 (73 FR 20367)))).

(4) The initial compliance time for replacement of the retraction brackets of the main landing gear (MLG) having a part number specified in paragraphs (h)(4)(i) through (h)(4)(xvi) of this AD is before the accumulation of 19,800 total landings on the affected retraction brackets of the MLG, or within 900 flight hours after April 9, 2012 (the effective date of AD 2012-04-07, Amendment 39-16963 (77 FR 12989, March 5, 2012)), whichever occurs later.

(i) 201478303.

(ii) 201478304.

(iii) 201478305.

(iv) 201478306.

(v) 201478307.

(vi) 201478308.

(vii) 201428380.

(viii) 201428381.

(ix) 201428382.

(x) 201428383.

(xi) 201428384.

(xii) 201428385.

(xiii) 201428378.

(xiv) 201428379.

(xv) 201428351.

(xvi) 201428352.

(5) Where Airbus A330 Airworthiness Limitations Section (ALS) Part 4, System Equipment Maintenance Requirements (SEMR), Revision 06, dated September 18, 2017, defines a calendar compliance time for the modification of SSCs on three hydraulic circuits having P/N MZ4339390-01X, MZ4306000-01X, MZ4339390-02X, MZ4306000-02X, MZ4339390-10X, or MZ4306000-10X as “March 5, 2010,” the calendar compliance time is April 14, 2011 (18 months after October 14, 2009 (the effective date of AD 2009-18-20, Amendment 39-16017 (74 FR 46313, September 9, 2009) (“AD 2009-18-20”))).

(6) Where Note (17) of Sub-Part 1, “Life Limits,” of Section 3, “Systems Life-Limited Components,” of Airbus A330 Airworthiness Limitations Section (ALS) Part 4, System Equipment Maintenance Requirements (SEMR), Revision 06, dated September 18, 2017, defines a calendar date of “September 5, 2008,” as a date for the

determination of accumulated flight cycles since the airplane's initial entry into service, the date is October 14, 2009 (the effective date of AD 2009-18-20).

(7) Where Note (17) of Sub-Part 1, "Life Limits," of Section 3, "Systems Life-Limited Components," of Airbus A330 Airworthiness Limitations Section (ALS) Part 4, System Equipment Maintenance Requirements (SEMR), Revision 06, dated September 18, 2017, defines a calendar compliance time as "March 5, 2010," for the modification of affected servo controls, the calendar compliance time is April 14, 2011 (18 months after October 14, 2009 (the effective date of AD 2009-18-20)).

**(i) No Alternative Actions or Intervals**

After accomplishing the revision required by paragraph (g) of this AD, no alternative actions (e.g., inspections) or intervals may be used unless the actions or intervals are approved as an alternative method of compliance (AMOC) in accordance with the procedures specified in paragraph (k)(1) of this AD.

**(j) Terminating Actions for the Requirements of AD 2017-05-10**

Accomplishing the actions required by paragraph (g) of this AD terminates all requirements of AD 2017-05-10.

**(k) Other FAA AD Provisions**

The following provisions also apply to this AD:

**(1) Alternative Methods of Compliance (AMOCs):** The Manager, International Section, Transport Standards 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 International

Section, send it to the attention of the person identified in paragraph (1)(2) of this AD. Information may be emailed to: 9-ANM-116-AMOC-REQUESTS@faa.gov. 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.

**(2) Contacting the Manufacturer:** For any requirement in this AD to obtain corrective actions from a manufacturer, the action must be accomplished using a method approved by the Manager, International Section, Transport Standards Branch, FAA; or the European Aviation Safety Agency (EASA); or Airbus SAS's EASA Design Organization Approval (DOA). If approved by the DOA, the approval must include the DOA-authorized signature.

**(1) Related Information**

(1) Refer to Mandatory Continuing Airworthiness Information (MCAI) EASA AD 2017-0228, dated November 21, 2017, for related information. This MCAI may be found in the AD docket on the Internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2018-0788.

(2) For more information about this AD, contact Vladimir Ulyanov, Aerospace Engineer, International Section, Transport Standards Branch, FAA, 2200 South 216th St., Des Moines, WA 98198; phone and fax: 206-231-3229.

(3) For service information identified in this AD, contact Airbus SAS, Airworthiness Office – EAL, Rond-Point Emile Dewoitine No: 2, 31700 Blagnac Cedex, France; phone: +33 5 61 93 36 96; fax: +33 5 61 93 45 80; email: airworthiness.A330-A340@airbus.com; Internet: <http://www.airbus.com>. You may view this service information at the FAA, Transport Standards Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206-231-3195. Issued in Des Moines, Washington, on August 22, 2018.

James Cashdollar,  
Acting Director,  
System Oversight Division,  
Aircraft Certification Service.

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