

Water closet type	Maximum flush rate (gpf (Lpf))	
	Manufactured after January 1, 1994	Manufactured after January 1, 1997
(1) Gravity flush tank water closet .....	1.6 (6.0)	1.6 (6.0)
(2) Flushometer tank water closet .....	1.6 (6.0)	1.6 (6.0)
(3) Electromechanical hydraulic water closet .....	1.6 (6.0)	1.6 (6.0)
(4) Blowout bowl water closet .....	3.5 (13.2)	3.5 (13.2)
(5) Flushometer valve water closets, other than those with blowout bowls .....	.....	1.6 (6.0)

\* \* \* \* \*

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**DEPARTMENT OF TRANSPORTATION**

**Federal Aviation Administration**

**14 CFR Part 25**

[Docket No. FAA-2014-1076; Special Conditions No. 25-607A-SC]

**Special Conditions: Dassault Aviation Model Falcon 6X, Limit Pilot Forces—Side-Stick Controller**

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

**ACTION:** Final special conditions; amendment.

**SUMMARY:** These special conditions are issued for the Dassault Aviation (Dassault) Model Falcon 6X airplane. This airplane will have a novel or unusual design feature when compared to the state of technology envisioned in the airworthiness standards for transport-category airplanes. This airplane is equipped with an electronic flight-control system that includes pilot controls through a side stick instead of through a conventional wheel or control stick. The applicable airworthiness regulations do not contain adequate or appropriate safety standards for this design feature. These special conditions contain the additional safety standards that the Administrator considers necessary to establish a level of safety equivalent to that established by the existing airworthiness standards.

**DATES:** This action is effective on Dassault on March 23, 2022.

**FOR FURTHER INFORMATION CONTACT:** Todd Martin, Materials and Structural Properties Section, AIR-621, Technical Innovation Policy Branch, Policy and Innovation Division, Aircraft Certification Service, Federal Aviation Administration, 2200 South 216th Street, Des Moines, Washington 98198; telephone and fax 206-231-3210; email [todd.martin@faa.gov](mailto:todd.martin@faa.gov).

**SUPPLEMENTARY INFORMATION:**

**Background**

On July 1, 2012, Dassault Aviation applied for a type certificate for their new Model Falcon 5X airplane. Special conditions were issued for that design on January 27, 2016 (81 FR 4579). However, Dassault has decided not to release an airplane under the model designation Falcon 5X, instead choosing to change that model designation to Falcon 6X.

In February of 2018, due to engine supplier issues, Dassault extended the type certificate application date for their Model Falcon 5X airplane under new Model Falcon 6X. This amendment to the original special conditions reflects the model-name change. This airplane is a twin-engine business jet with seating for 19 passengers and a maximum takeoff weight of 77,460 pounds. The Dassault Model Falcon 6X airplane design remains unchanged from the Model Falcon 5X in all material respects other than different engines.

**Type Certification Basis**

Under the provisions of 14 CFR 21.17, Dassault must show that the Model Falcon 6X airplane meets the applicable provisions of part 25, as amended by Amendments 25-1 through 25-146.

If the Administrator finds that the applicable airworthiness regulations (*i.e.*, 14 CFR part 25) do not contain adequate or appropriate safety standards for the Dassault Model Falcon 6X airplane because of a novel or unusual design feature, special conditions are prescribed under the provisions of § 21.16.

Special conditions are initially applicable to the model for which they are issued. Should the type certificate for that model be amended later to include any other model that incorporates the same novel or unusual design feature, these special conditions would also apply to the other model under § 21.101.

In addition to the applicable airworthiness regulations and special conditions, the Dassault Model Falcon 6X airplane must comply with the fuel-vent and exhaust-emission requirements of 14 CFR part 34, and the noise-

certification requirements of 14 CFR part 36.

The FAA issues special conditions, as defined in 14 CFR 11.19, in accordance with § 11.38, and they become part of the type certification basis under § 21.17(a)(2).

**Novel or Unusual Design Features**

The Dassault Model Falcon 6X airplane will incorporate the following novel or unusual design feature:

This airplane is equipped with an electronic flight-control system that includes pilot controls through a side stick instead of through a conventional wheel or control stick.

**Discussion**

The Dassault Model Falcon 6X airplane is equipped with a side stick instead of a conventional wheel or control stick. The requirement of § 25.397(c), which defines limit pilot forces and torques, applies to conventional wheel or control stick and is therefore not adequate for this new side-stick design with electronic flight controls that affect maneuvering.

These special conditions contain the additional safety standards that the Administrator considers necessary to establish a level of safety equivalent to that established by the existing airworthiness standards.

**Discussion of Comments**

The FAA issued Final Special Conditions, Request for Comment Special Conditions No. 25-607-SC for the Dassault Model Falcon 5X airplane, which was published in the **Federal Register** on January 27, 2016 (81 FR 4579). No comments were received, and the special conditions are adopted as proposed, with amendments.

**Applicability**

As discussed above, these special conditions are applicable to the Dassault Model Falcon 6X airplane. Should Dassault apply at a later date for a change to the type certificate to include another model incorporating the same novel or unusual design feature, these

special conditions would apply to that model as well.

**Conclusion**

This action affects only certain novel or unusual design features on one model of airplane. It is not a rule of general applicability.

**List of Subjects in 14 CFR Part 25**

Aircraft, Aviation safety, Reporting and recordkeeping requirements.

The authority citation for these special conditions is as follows:

**Authority:** 49 U.S.C. 106(f), 106(g), 40113, 44701, 44702, 44704.

**The Special Conditions**

Accordingly, pursuant to the authority delegated to me by the Administrator, the following special conditions are issued, in lieu of the aileron-control and elevator-control forces specified in § 25.397(c), as part of the type-certification basis for the Dassault Model Falcon 6X airplane.

For airplanes equipped with side-stick controls designed for forces to be applied by one wrist and not arms, the limit pilot forces are as follows.

1. For all components between and including the side-stick control-assembly handle and its control stops:

Pitch	Roll
Nose up, 200 lbs force ... Nose down, 200 lbs force.	Nose left, 100 lbs force. Nose right, 100 lbs force.

2. For all other components of the side-stick control assembly, but excluding the internal components of the electrical sensor assemblies, to avoid damage to the control system as the result of an in-flight jam:

Pitch	Roll
Nose up, 125 lbs force ... Nose down, 125 lbs force.	Nose left, 50 lbs force. Nose right, 50 lbs force.

Issued in Kansas City, Missouri, on March 18, 2022.

**Patrick R. Mullen,**

*Manager, Technical Innovation Policy Branch, Policy and Innovation Division, Aircraft Certification Service.*

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**DEPARTMENT OF TRANSPORTATION**

**Federal Aviation Administration**

**14 CFR Part 39**

[Docket No. FAA-2021-0713; Project Identifier AD-2021-00180-R; Amendment 39-21990; AD 2022-07-03]

RIN 2120-AA64

**Airworthiness Directives; Bell Textron Inc., Helicopters**

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

**ACTION:** Final rule.

**SUMMARY:** The FAA is adopting a new airworthiness directive (AD) for Bell Textron Inc., Model 412, 412EP, and 412CF helicopters. This AD was prompted by evaluation results showing flight loads that impact the collective lever fatigue life. This AD requires adding a permanent hours time-in-service (TIS) penalty for certain collective levers and prohibits installing those collective levers unless the permanent hours TIS penalty has been added. The FAA is issuing this AD to address the unsafe condition on these products.

**DATES:** This AD is effective April 27, 2022.

**ADDRESSES:** For service information identified in this final rule, contact Bell Textron, Inc., P.O. Box 482, Fort Worth, TX 76101, United States; phone 1-450-437-2862 or 1-800-363-8023; fax 1-450-433-0272; email [productsupport@bellflight.com](mailto:productsupport@bellflight.com); or at <https://www.bellflight.com/support/contact-support>. 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.

**Examining the AD Docket**

You may examine the AD docket at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2021-0713; 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:** Hye Yoon Jang, Aerospace Engineer, Delegation Oversight Section, DSCO

Branch, Compliance & Airworthiness Division, FAA, 10101 Hillwood Pkwy., Fort Worth, TX 76177; telephone (817) 222-5190; email [hye.yoon.jang@faa.gov](mailto:hye.yoon.jang@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 Bell Textron Inc., Model 412, 412EP, and 412CF helicopters. The NPRM published in the **Federal Register** on August 27, 2021 (86 FR 48078). The NPRM was prompted by the results of an evaluation of BLR Aerospace Strake and FastFin (Strake and FF) system part number (P/N) 412-705-040-101. The NPRM stated that during the evaluation, additional flight loads were recorded that impact the collective lever fatigue life. Accordingly, the NPRM proposed to require adding a permanent life penalty for affected collective levers and prohibit installing those collective levers unless the permanent life penalty has been added. This condition, if not addressed, could result in fatigue damage and cracking, failure of the collective lever, and subsequent loss of control of the helicopter. 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 one commenter; Bell Textron, Inc. The following presents the comments received on the NPRM and the FAA’s response to each comment.

**Request for a Change to Nomenclature**

Bell Textron, Inc., requested the FAA revise the penalty nomenclature from “life penalty” to “flight hour penalty” throughout the AD action. Bell Textron, Inc., stated that the penalty is only applied to hours TIS and that the life remains unchanged.

The FAA partially agrees. The FAA agrees to changing the nomenclature; however, the nomenclature typically used in rotorcraft FAA AD actions for domestic products is “hours TIS” (or “total hours TIS”) instead of flight hours (or total flight hours). The FAA has revised that nomenclature accordingly in this final rule.

**Request for a Change to the Description of What Prompted This AD**

Bell Textron, Inc., requested the FAA clarify the description of what prompted this AD; specifically that during the evaluation, the additional flight loads