

**FEDERAL AVIATION ADMINISTRATION
AIRWORTHINESS DIRECTIVES**

**SMALL AIRPLANES, ROTORCRAFT, GLIDERS,
BALLOONS, & AIRSHIPS**

BIWEEKLY 2017-24

11/13/2017 - 11/26/2017



Federal Aviation Administration
Continued Operational Safety Policy Section, AIR-141
P.O. Box 25082
Oklahoma City, OK 73125-0460

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SMALL AIRCRAFT, ROTORCRAFT, GLIDERS, BALLOONS, & AIRSHIPS

AD No.	Information	Manufacturer	Applicability
Information Key: E - Emergency; COR - Correction; S – Supersedes; R - Replaces			
Biweekly 2017-01			
2016-24-51		Sikorsky Aircraft Corporation	S-92A
2016-25-13	S 2016-04-12	Safran Helicopter Engines, S.A.	Arriel 2B, 2B1, 2C, 2C1, 2C2, 2D, 2E, 2S1, and 2S2
2016-25-14		Airbus Helicopters Deutschland GmbH	BO-105LS A-3
2016-25-19	S 2010-21-07	Airbus Helicopters	AS350B3 and EC130B4
2016-25-20		Airbus Helicopters	EC130B4, EC130T2, AS350B, AS350B1, AS350B2, AS350B3, AS350BA, AS350C, AS350D, AS350D1, AS355E, AS355F, AS355F1, AS355F2, AS355N, and AS355NP
2016-25-28		Airbus Helicopters	AS355NP
2016-26-01		AGUSTAWESTLAND S.P.A.	AB139 and AW139
2016-26-04		Robinson Helicopter Company	R44 and R44 II; R66
2016-26-08	R 2014-22-01	PILATUS AIRCRAFT LTD.	PC-12, PC-12/45, PC-12/47, and PC-12/47E
2016-26-09	S 2016-06-01	B-N Group Ltd.	BN-2, BN-2A, BN-2A-2, BN-2A-3, BN-2A-6, BN-2A-8, BN-2A-9, BN-2A-20, BN-2A-21, BN-2A-26, BN-2A-27, BN-2B-20, BN-2B-21, BN-2B-26, BN-2B-27, BN-2T-4R, BN-2T, BN2A MK. III, BN2A MK. III-2, and BN2A MK. III-3
Biweekly 2017-02			
2017-01-12		Diamond Aircraft Industries GmbH	DA 42 airplanes
2017-02-51		Sikorsky Aircraft Corporation	S-92A helicopters
Biweekly 2017-03			
No ADs			
Biweekly 2017-04			
2016-26-08	COR	PILATUS AIRCRAFT LTD.	PC-12, PC-12/45, PC-12/47, and PC-12/47E airplanes
2017-02-06		Piper Aircraft, Inc.	PA-31T, PA-31T1, PA-31T2, PA-31T3, and PA-31P-350 airplanes
2017-02-07		Airbus Helicopters Deutschland GmbH	MBB-BK 117 C-2, and Model MBB-BK 117 D-2 helicopters
2017-02-11		Alexander Schleicher GmbH & Co.	ASK 21 gliders
2017-04-51		Safran Helicopter Engines, S.A.	Arriel 1A1, 1A2, 1B, 1C, 1C1, 1C2, 1D, 1D1, 1E2, 1K1, 1S and 1S1 turboshaft engines
Biweekly 2017-05			
2017-02-51		Sikorsky Aircraft Corporation	S-92A helicopters
2017-03-01	S 2014-05-06	Airbus Helicopters Deutschland GmbH	EC135 P1, P2, P2+, T1, T2, and T2+ helicopters
2017-04-03		Pilatus Aircraft Limited	PC-6, PC-6-H1, PC-6-H2, PC-6/350, PC-6/350-H1, PC-6/350-H2, PC-6/A, PC-6/A-H1, PC-6/A-H2, PC-6/B-H2, PC-6/B1-H2, PC-6/B2-H2, PC-6/B2-H4, PC-6/C-H2, and PC-6/C1-H2 airplanes
2017-04-06		United Instruments, Inc.	5934 series altimeters
2017-04-14		Textron Aviation Inc.	560XL airplanes
2017-04-15		Learjet Inc.	36A airplanes
2017-05-03		Airbus Helicopters Deutschland GmbH	BO-105C, BO-105LS A-3, and BO-105S helicopters
2017-05-04		Bell Helicopter Textron Canada Limited	206A, 206B, 206L, 206L1, 206L3, and 206L4 helicopters
2017-05-51		Bell Helicopter Textron Canada	429 helicopters
Biweekly 2017-06			
2017-05-08		Safran Helicopter Engines, S.A.	Arriel 2B turboshaft engines
2017-04-51		Safran Helicopter Engines, S.A.	Arriel 1A1, 1A2, 1B, 1C, 1C1, 1C2, 1D, 1D1, 1E2, 1K1, 1S, and 1S1 turboshaft engines
Biweekly 2017-07			
2017-07-02		Sikorsky Aircraft Corporation	269D and Model 269D Configuration A helicopters

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AD No.	Information	Manufacturer	Applicability
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2017-07-01		M7 Aerospace LLC	SA226-T, SA226-AT, SA226-T(B), SA226-TC, SA227-AC (C-26A), SA227-AT, SA227-BC (C-26A), SA227-CC, SA227-DC (C-26B), and SA227-TT airplanes
2017-06-03	R 81-09-09	Meggitt (Troy), Inc.	921, 930, 937, 940, 944, 945, 977, 978, 979, 8240, 8253, 8259, and 8472 combustion heaters
Biweekly 2017-08			
2017-07-10		American Champion Aircraft Corp.	8KCAB airplanes
2017-05-51		Bell Helicopter Textron Canada	429 helicopters
2017-07-08		Airbus Helicopters Deutschland GmbH	MBB-BK 117 D-2 helicopters
2017-07-09		Sikorsky Aircraft Corporation	S-92A helicopters
Biweekly 2017-09			
2017-08-07		Learjet, Inc	60
2017-08-09		DG Flugzeugbau GmbH	DG-500MB
2017-08-12		GROB Aircraft AG	GROB G 109 and GROB G 109B
2017-09-02		Airbus Helicopters Deutschland GmbH	MBB-BK 117 C-2 and MBB-BK 117 D-2
2017-06-11		Airbus Helicopters	EC120B
Biweekly 2017-10			
2017-09-05		Airbus Helicopters	AS332C, AS332C1, AS332L, AS332L1, AS332L2, and EC225LP helicopters
2017-09-07		Airbus Helicopters Deutschland GmbH	MBB-BK 117 C-2 helicopters
Biweekly 2017-11			
2017-10-02	S 2015-11-01	Slingsby Aviation Ltd.	T67M260 and T67M260-T3A airplanes
2017-10-03	R 2003-11-12	ZLIN AIRCRAFT a.s.	Z-242L airplanes
2017-10-09		Textron Aviation Inc.	402C, 414A airplanes
2017-10-11		Stemme AG	S10-VT gliders
2017-10-14	S 2014-07-07	British Aerospace Regional Aircraft	HP.137 Jetstream Mk.1, Jetstream Series 200, and Jetstream Series 3101 airplanes
2017-10-20		Piper Aircraft, Inc.	PA-31, PA-31-300, and PA-31-325; PA-31-350 airplanes
2017-11-03		DG Flugzeugbau GmbH	DG-500MB gliders
Biweekly 2017-12			
2017-10-03	R 2003-11-12	ZLIN AIRCRAFT a.s	Z-242L airplanes
2017-10-14	S 2014-07-07	British Aerospace Regional Aircraft	HP.137 Jetstream Mk.1, Jetstream Series 200, and Jetstream Series 3101 airplanes
2017-11-08		Diamond Aircraft Industries GmbH	DA 42 airplanes
2017-11-09	R 2017-08-07	Learjet, Inc.	60 airplanes
2017-11-11		NavWorx, Inc.	ADS600-B and ADS600-EXP ADS-B Universal Access Transceiver units
2017-11-16		PILATUS AIRCRAFT LTD.	PC-12/47E airplanes
Biweekly 2017-13			
2017-11-10		Lycoming Engines	TIO-540-AJ1A reciprocating engines
2017-12-04	S 2016-20-04	Airbus Helicopters	SA 341G and Model SA 342J helicopters
2017-13-03		Bell Helicopter Textron Canada Limited	429 helicopters
2017-13-04		Airbus Helicopters Deutschland GmbH	MBB-BK 117 C-2 (including configuration C-2e) and Model MBB-BK 117 D-2 helicopters
Biweekly 2017-14			
2017-13-06		DG Flugzeugbau GmbH	DG-400, DG-500M, DG-500MB, DG-800A, and DG-800B
Biweekly 2017-15			
2017-10-10		Sikorsky Aircraft Corporation	S-92A helicopters
2017-10-12		Airbus Helicopters	AS332C, AS332C1, AS332L, AS332L1, AS332L2, and EC225LP helicopters

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2017-14-04	R 95-26-13	Piper Aircraft, Inc.	PA-28-140, PA-28-150, PA-28-151, PA-28-161, PA-28-160, PA-28-180, PA-28-181, PA-28-235, PA-28-236, PA-28R-180, PA-28R-200, PA-28R-201, PA-28S-160, PA-28S-180, PA-32-260, PA-32-300, PA-32-301, PA-32-301T, PA-32R-300, PA-32R-301 (SP), PA-32R-301 (HP), PA-32R-301T, PA-32RT-300, PA-32RT-300T, and PA-32S-300 airplanes
2017-14-05	S 93-17-13	Airbus Helicopters	SA330J helicopters
2017-14-06		Sikorsky Aircraft Corporation	TH55A, 269A, 269A-1, 269B, 269C and 269C-1 helicopters
2017-15-02		Bell Helicopter Textron, Inc.	212 and 412 helicopters
Biweekly 2017-16			
2017-14-03		Sikorsky Aircraft Corporation	S-92A helicopters
2017-15-05		Piper Aircraft, Inc.	PA-23, PA-23-160, PA-23-235, PA-23-250, PA-E23-250, and PA-30 airplanes
2017-15-06	R 97-10-05	British Aerospace Regional Aircraft	HP.137 Jetstream Mk.1, Jetstream Series 200 and 3101, and Jetstream Model 3201 airplanes
2017-15-07	R 2017-04-51	Safran Helicopter Engines, S.A.	Arriel 1A1, 1A2, 1B, 1C, 1C1, 1C2, 1D, 1D1, 1E2, 1K1, 1S, and 1S1 turboshaft engines
2017-15-09		Diamond Aircraft Industries GmbH	DA 42 airplanes
2017-15-13		Bell Helicopter Textron Canada Limited	429 helicopters
2017-15-15		R 2002-19-01	SOCATA
2017-16-02		Agusta S.p.A.	A109S helicopters
Biweekly 2017-17			
2017-16-03		Piper Aircraft, Inc.	PA-46-600TP (M600)
2017-16-04		Romtex Anjou Aeronautique (Romtex)	torso restraint systems
2017-16-11		Lycoming Engines	See AD
Biweekly 2017-18			
2017-17-01	S 2014-16-01	Airbus Helicopters	AS332L2 and EC225LP helicopters
2017-17-03		MD Helicopters, Inc.	MD900 helicopters
Biweekly 2017-19			
2017-18-10		Diamond Aircraft Industries GmbH	DA 42, DA 42 M-NG, and DA 42 NG airplanes
2017-18-11		Textron Aviation Inc.	390 airplanes
2017-18-12		R 2016-11-20	B/E Aerospace
2017-18-13	S 2015-22-51	Agusta S.p.A.	A109A and A109A II helicopters
Biweekly 2017-20			
2017-16-01		Ameri-King Corporation	AK-450-() and AK-451-() series emergency locator transmitters
2017-19-15		Technify Motors GmbH	TAE 125-02-99, TAE 125-02-114 reciprocating engines
2017-19-20		General Electric Company	CT7-8A and CT7-9B model turboshaft engines
2017-19-21		Airbus Helicopters	EC225LP helicopters
2017-19-22		R 2014-07-09	British Aerospace Regional Aircraft
Biweekly 2017-21			
2017-18-14	R 2015-02-22	Rolls-Royce Corporation	250-C20, -C20B, -C20F, -C20J, -C20R, -C20R/1, -C20R/2, -C20R/4, -C20W, -C300/A1, and -C300/B1 turboshaft engines
2017-20-13		Piaggio Aero Industries S.p.A.	P-180 airplanes
Biweekly 2017-22			
2017-22-01		Sikorsky Aircraft Corporation	S-92A helicopters

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Biweekly 2017-23

2017-22-05	S 2013-15-03	Airbus Helicopters	AS350B, AS350BA, AS350B1, AS350B2, AS350B3, AS350C, AS350D, and AS350D1 helicopters
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Biweekly 2017-24

2017-22-14		Rockwell Collins, Inc.	TSSA-4100 Field Loadable Software
2017-23-08	S 2014-24-02	Agusta S.p.A.	AB139 and AW139 helicopters



2017-22-14 Rockwell Collins, Inc.: Amendment 39-19094; Docket No. FAA-2017-0659; Product Identifier 2017-CE-014-AD.

(a) Effective Date

This AD is effective December 20, 2017.

(b) Affected ADs

None.

(c) Applicability

Rockwell Collins, Inc. TSSA-4100 Field Loadable Software (FLS) Rockwell Collins part numbers (RCPNs) 810-0052-002, -003, -010, -011, -012, -100, or -101 found on TSS-4100 Traffic Surveillance System Processing Units, (RCPN) 822-2132-001 installed on airplanes.

(1) The FLS RCPNs 810-0052-002, -003, -010, -011, -012, -100, or -101 found on TSS-4100 Traffic Surveillance System Processing Units are known to be installed on but not limited to the airplanes listed in paragraphs (c)(1)(i) through (14) of this AD and are certificated in any category.

- (i) Bombardier Challenger 300 (BD-100-1A10)
- (ii) Bombardier Challenger 350 (BD-100-1A10)
- (iii) Bombardier Challenger 650 (CL-600-2B16)
- (iv) Bombardier CRJ-700 (CL-600-2C10)
- (v) Bombardier CRJ-900 (CL-600-2D24)
- (vi) Bombardier CRJ-1000 (CL-600-2E25)
- (vii) Bombardier CS100 (BD-500-1A10)
- (viii) Bombardier CS300 (BD-500-1A11)
- (ix) Bombardier Global 5000 equipped with Global Vision Flight Deck (BD-700-1A11)
- (x) Bombardier Global 6000 (BD-700-1A10)
- (xi) Cessna Citation CJ4 (525C)
- (xii) Embraer Legacy (EMB-550)
- (xiii) Embraer Legacy 450 (EMB-545)
- (xiv) Gulfstream G280

(2) Earlier revision levels of the Rockwell Collins, Inc. service information and service information issued by airplane manufacturers before the effective date of this AD may have specified the installation of FLS with different FAA-approved part numbers than the part numbers listed in paragraph (c) of this AD. If, before December 20, 2017 (the effective date of this AD), a part number that is different than the TSSA-4100 RCPNs listed in paragraph (c) of this AD is installed on the airplane, this AD does not apply to that airplane.

(d) Subject

Joint Aircraft System Component (JASC)/Air Transport Association (ATA) of America Code 34, Navigation.

(e) Unsafe Condition

This AD was prompted by five instances of air traffic control observing coasting (extrapolated stale data) automatic dependent surveillance-broadcast data (ADS-B position/velocity data) on a related Rockwell Collins, Inc. platform that shares a common architecture with the TSS-4100 Traffic Surveillance System Processing Units. We are issuing this AD to prevent erroneous extrapolation of position/velocity and altitude data that could result in misleading position and/or altitude being reported by the airplane and possibly lead to mid-air collision.

(f) Compliance

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

(g) Upgrade of FLS

Within the next 12 months after December 20, 2017 (the effective date of this AD) or within the next 750 hours time-in-service after December 20, 2017 (the effective date of this AD), whichever occurs first, upgrade the TSSA-4100 FLS to RCPN 810-0052-013 or 810-0052-102, as applicable, following Rockwell Collins Service Information Letter, TSSA-4100-SIL-10-1, Revision No. 9, dated March 31, 2017; or Rockwell Collins Service Information Letter TSSA-4100-SIL-10-1, Revision No. 10, dated July 10, 2017.

(h) Alternative Methods of Compliance (AMOCs)

(1) The Manager, Wichita ACO 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 ACO, send it to the attention of the person identified in paragraph (i) of this AD.

(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.

(i) Related Information

For more information about this AD, contact Paul Rau, Aerospace Engineer, Wichita ACO, FAA, 1801 Airport Road, Room 100, Wichita, Kansas 67209; phone: 316-946-4149; fax: 316-946-4107; email: paul.rau@faa.gov.

(j) 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 this service information as applicable to do the actions required by this AD, unless the AD specifies otherwise.

(i) Rockwell Collins Service Information Letter, TSSA-4100-SIL-10-1, Revision No. 9, dated March 31, 2017.

(ii) Rockwell Collins Service Information Letter, TSSA-4100-SIL-10-1, Revision No. 10, dated July 10, 2017.

(3) For service information identified in this AD, contact Rockwell Collins, Inc., Collins Aviation Services, 400 Collins Road NE., M/S 164-100, Cedar Rapids, IA 52498-0001; telephone: 888-265-5467 (U.S.) or 319-265-5467; fax: 319-295-4941 (outside U.S.); email: techmanuals@rockwellcollins.com; Internet: <https://portal.rockwellcollins.com/web/publications-and-training>.

(4) You may view this service information at FAA, Policy and Innovation Division, 901 Locust, Kansas City, Missouri 64106. For information on the availability of this material at the FAA, call (816) 329-4148. It is also available on the internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2017-0659.

(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, call 202-741-6030, or go to:

Issued in Kansas City, Missouri, on October 26, 2017.

Pat Mullen,
Acting Manager, Small Airplane Directorate,
Aircraft Certification Service.



2017-23-08 Agusta S.p.A.: Amendment 39-19102; Docket No. FAA-2017-0982; Product Identifier 2017-SW-009-AD.

(a) Applicability

This AD applies to Model AB139 and AW139 helicopters with main rotor (M/R) rotating scissors with a lower half scissor spherical bearing (bearing) P/N 3G6230V00654 installed, certificated in any category.

(b) Unsafe Condition

This AD defines the unsafe condition as excessive play of the bearing in the M/R rotating scissors. This condition could result in failure of the M/R rotating scissors and subsequent loss of control of the helicopter.

(c) Affected ADs

This AD supersedes AD 2014-24-02, Amendment 39-18035 (79 FR 70785, November 28, 2014).

(d) Effective Date

This AD becomes effective December 11, 2017.

(e) Compliance

You are responsible for performing each action required by this AD within the specified compliance time unless it has already been accomplished prior to that time.

(f) Required Actions

(1) Within 5 hours time-in-service (TIS), and thereafter before the first flight of each day or at intervals not exceeding 24-clock hours, whichever occurs later:

(i) Using a magnifying glass and a flashlight, visually inspect each bearing for wear of the bearing liner. Some examples of wear are shown in Figures 4 through 8 of Leonardo Helicopters Alert Bollettino Tecnico No. 139-392, Revision A, dated February 14, 2017 (BT 139-392). If there is any wear of the liner, before further flight, replace the bearing with bearing P/N 3G6230V00655 and install special nut P/N 3G6230A06851. Replacing the bearing with bearing P/N 3G6230V00655 constitutes terminating action for the remaining actions of this AD for the bearing.

(ii) Inspect each bearing for movement. Refer to Figure 9 of BT 139-392. If the bearing moves freely out of its seat, before further flight, replace the rotating scissor attachment flange with flange P/N 3G6220A00633, replace the bearing with bearing P/N 3G6230V00655 and install special nut P/N 3G6230A06851. Replacing the bearing with bearing P/N 3G6230V00655 constitutes terminating action for the remaining actions of this AD for the bearing.

(iii) Inspect the M/R rotating scissors for play and wear of each bearing, paying particular attention to the bearing staking condition, by manually moving the lower half scissor along the axis of the spherical bearing. Refer to Figure 1 of BT 139-392. If there is any play or wear beyond allowable limits, before further flight, replace the bearing with bearing P/N 3G6230V00655 and install special nut P/N 3G6230A06851. Replacing the bearing with bearing P/N 3G6230V00655 constitutes terminating action for the remaining actions of this AD for the bearing.

(2) Within 100 hours TIS, replace and torque each lower half scissor nut with special nut P/N 3G6230A06851 to the M/R rotating scissor in accordance with the Compliance Instructions, Part II, steps 5.1 through 5.9 of BT 139-392, except you are not required to discard parts.

(3) As of the effective date of this AD, do not install any M/R rotating scissors with a bearing P/N 3G6230V00654 installed.

(g) Alternative Methods of Compliance (AMOCs)

(1) The Manager, Safety Management Section, FAA, may approve AMOCs for this AD. Send your proposal to: Matt Fuller, Senior Aviation Safety Engineer, Safety Management Section, Rotorcraft Standards Branch, FAA, 10101 Hillwood Pkwy, Fort Worth, TX 76177; telephone (817) 222-5110; email 9-ASW-FTW-AMOC-Requests@faa.gov.

(2) For operations conducted under a 14 CFR part 119 operating certificate or under 14 CFR part 91, subpart K, we suggest that you notify your principal inspector, or lacking a principal inspector, the manager of the local flight standards district office or certificate holding district office, before operating any aircraft complying with this AD through an AMOC.

(h) Additional Information

(1) Leonardo Helicopters AW139 IETP Document Code AMP-39-C-62-31-00-00A-31AC-A, Rotating control installation—Fixed swashplate and rotating scissors—Detailed inspection, Issue 29, dated July 31, 2017, which is not incorporated by reference, contains additional information about the subject of this AD. For service information identified in this AD, contact Leonardo S.p.A. Helicopters, Matteo Ragazzi, Head of Airworthiness, Viale G.Agusta 520, 21017 C.Costa di Samarate (Va) Italy; telephone +39-0331-711756; fax +39-0331-229046; or at <http://www.leonardocompany.com/-/bulletins>. You may review a copy of the service information at the FAA, Office of the Regional Counsel, Southwest Region, 10101 Hillwood Pkwy, Room 6N-321, Fort Worth, TX 76177.

(2) The subject of this AD is addressed in European Aviation Safety Agency (EASA) AD No. 2017-0028-E, dated February 15, 2017. You may view the EASA AD on the Internet at <http://www.regulations.gov> by searching for and locating it in Docket No. FAA-2017-0982.

(i) Subject

Joint Aircraft Service Component (JASC) Code: 6200, M/R System.

(j) 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 this service information as applicable to do the actions required by this AD, unless the AD specifies otherwise.

(i) Leonardo Helicopters Alert Bollettino Tecnico No. 139-392, Revision A, dated February 14, 2017.

(ii) Reserved.

(3) For Leonardo Helicopters service information identified in this AD, contact Leonardo S.p.A. Helicopters, Matteo Ragazzi, Head of Airworthiness, Viale G.Agusta 520, 21017 C.Costa di Samarate (Va) Italy; telephone +39-0331-711756; fax +39-0331-229046; or at <http://www.leonardocompany.com/-/bulletins>.

(4) You may view this service information at 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, call (202) 741-6030, or go to: <http://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued in Fort Worth, Texas, on November 7, 2017.

Scott A. Horn,

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