

型号认可证数据单
THE VALIDATION DATA SHEET

编号/No: VTC0167A

版次/Revision: 20

型号/Type: 737

型别/Model:

737-300

737-400

737-500

737-600

737-700

737-800

737-900

737-900ER

737-8

批准人/Approved By:



职务/Title: Deputy Director General

日期/Date: 2026-07-16

本数据单是型号认可证（编号：VTC0167A）的组成部分，它规定了符合中国民用航空局的适航要求所颁发此型号认可证的产品状态和限制。

This data sheet, which is a part of Validation Type Certificate (No.: VTC0167A), prescribes conditions and limitations under which the product for which the Type Certificate was issued meets the airworthiness requirements of the Chinese Civil Aviation Regulation.

型号认可证持有人/Validation of Type Certificate Holder:

THE BOEING COMPANY

737 Logan Ave N, Renton, WA 98057-0000

I. 适用于所有型别的概述 / General for all models

CAAC 认可数据单和型号合格证数据单

CAAC Validation Data Sheet and Type Certificate Data Sheet

	中国民用航空局认可数据单号、版次和颁发日期 CAAC Validation Data Sheet Number, Revision and issuance date	型号合格证数据单号、版次和颁发日期 Type Certificate Data Sheet Number, Revision and issuance date
当前 Current	VTC0167A Rev 20, July 16, 2026	FAA TCDS A16WE, Rev 80, February 12, 2026
历史 History	Validation letter for 737-300, Nov. 15, 1985	
	VTC055A for 737-400, Dec. 21, 1995	
	TV91024 for 737-500, Apr. 12, 1991	
	VTC126A for 737-600, Apr. 29, 2002	
	VTC082A for 737-700/-800, Jun. 10, 1998	
	VTC167A for 737-900, Sep. 6, 2005	
	VTC0167A February 6, 2009, Rev. 1	FAA TCDS A16WE, Rev 41, July 31, 2007
	VTC0167A December 23, 2010, Rev. 2	FAA TCDS A16WE, Rev 45, September 1, 2010
	VTC0167A July 7, 2011, Rev.3	FAA TCDS A16WE, Rev 48, June 30, 2011
	VTC0167A August 12, 2011, Rev.4	FAA TCDS A16WE, Rev 48, June 30, 2011
	VTC0167A January 27, 2015, Rev. 5	FAA TCDS A16WE, Rev 53, June 19, 2014
	VTC0167A December 28, 2015, Rev. 6	FAA TCDS A16WE, Rev 53, June 19, 2014
	VTC0167A March 15, 2016, Rev. 7	FAA TCDS A16WE, Rev 55, September 11, 2015
	VTC0167A October 12, 2017, Rev. 8	FAA TCDS A16WE, Rev 58, March 8, 2017
	VTC0167A December 21, 2017, Rev. 9	FAA TCDS A16WE, Rev 58, March 8, 2017
	VTC0167A October 15, 2018, Rev. 10	FAA TCDS A16WE, Rev 63, August 14, 2018
	VTC0167A December 24, 2018, Rev. 11	FAA TCDS A16WE, Rev 64, October 10, 2018
	VTC0167A April 26, 2020, Rev. 12	FAA TCDS A16WE, Rev 65, April 8, 2020
	VTC0167A December 1, 2021, Rev. 13	FAA TCDS A16WE, Rev 65, April 8, 2020
	VTC0167A January 4, 2023, Rev. 14	FAA TCDS A16WE, Rev 69, September 16, 2021
	VTC0167A December 8, 2023, Rev 15	FAA TCDS A16WE, Rev 74, September 18, 2023
	VTC0167A June 24, 2024, Rev 16	FAA TCDS A16WE, Rev 74, September 18, 2023
	VTC0167A May 19, 2025, Rev 17	FAA TCDS A16WE, Rev 77, January 28, 2025
	VTC0167A July 8, 2025, Rev 18	FAA TCDS A16WE, Rev 77, January 28, 2025
	VTC0167A December 1, 2025, Rev 19	FAA TCDS A16WE, Rev 77, January 28, 2025

注：上表中出口国局方型号合格证数据单信息仅供参考。

Note: Above TCDS Information of Certification Authority is only for reference.

CAAC 认可数据单修订记录 / CAAC VTCDS Change Record

CAAC 认可数据单版次 /CAAC VTCDS Revision	修订记录/Change Record	备注 /Remark
Rev. 12	删除737-800BCF的临时运行限制TOL/ Delete TOL of 737-800BCF: "The 737-800BCF is subjected to a Temporary Operational Limit (TOL) of 2,000 flight cycles or 1 year from time of modification, whichever occurs first."	
Rev. 13	修订 737-8 认可审定基础 Update validation certification basis of 737-8	

Rev. 14	1、修订 737-600/700/800/900/900ER 认可审定基础中的燃油部分，添加以下内容：“批准使用满足中华人民共和国国家标准“3 号喷气燃料”（GB 6537）规范要求的燃油” Update the fuel section of Validation Certification Basis of 737-600/700/800/900/900ER to add the following content: “Approved to use the fuels that meet the requirements in the National Standard of the People’s Republic of China “No.3 Jet Fuel” (GB 6537) Specification.” 2、删除 737-900ER 的 Note 3 部分 Delete Note 3 section in 737-900ER 3、更新 737-600/700/800/900ER，737-8 中文标记标牌文件至版本 J Update 737-600/700/800/900ER，737-8 Chinese Placard and Markings document to Rev J 4、修订 737-8 技术特征和运行限制中的发动机内容 Update the engine content in the Technical Characteristics and Operational Limitations of 737-8 5、勘误，删除 737-800BCF 的临时运行限制 TOL Correction, Delete TOL of 737-800BCF.	
Rev 15	1、修订 V. Model 737-600/700/800, VI. Model 737-900, VII. Model 737-900ER 注释 2，添加以下内容：飞行手册中包括含抑制扰人抖杆指南的“空速不可靠”程序，以与 737-8 的程序（737-8 程序参见 CAD2021-B737-19）协调一致，与该程序相关联的失速警告系统抖杆跳开关按钮（带有颜色的键帽）必须按照波音服务通告 737-27-1322 进行安装。 Update V. Model 737-600/700/800, VI. Model 737-900, VII. Model 737-900ER NOTE 2, Add the below content: The Airplane Flight Manual includes the "Airspeed Unreliable (E)" procedure with guidance for disabling of the nuisance stick shaker to harmonize with the 737-8 procedure (Refer CAD2021-B737-19 for the procedure of 737-8), The Stall Warning System - Stick shaker Circuit Breakers Button (Colored Cap) relevant to this procedure must be installed according to Boeing Service bulleting 737-27-1322. 2、修订 737-8 认可审定基础，增加关于驾驶舱烟雾防护安保考虑的豁免。 Updated validation certification basis of 737-8 to include Exemption of Security Considerations of Flight Deck Smoke Protection. 3、修订滑油消耗限制为 0.74 美制夸脱每小时。 Updated Oil Consumption Limits to 0.74 US Quarts per hour.	
Rev 16	737-600/700/800/900/900ER 1、在审定基础的等效安全章节增加 ELOS §25.1549(b) “发动机和辅助动力装置符合性问题的等效安全 (S-1)” Added ELOS §25.1549(b) “Equivalent Level of Safety (ELOS) Finding for Powerplant And Auxiliary Power Unit Instruments (S-1)” to Certification Basis – Equivalent Level of Safety 2、将 CFM56-7B 发动机 VTC0077E 的版本从 Revision 5 更新为 Revision 6 Updated CFM56-7B Engine VTC0077E from Revision 5 to Revision 6 3、更新 737-900ER 的型号合格证持有人地址 Updated Type Certificate Holder address for 737-900ER 4、737-9KFER 的序列号增加 41118, 41119 Updated 737-9KFER serial numbers with 41118, 41119 for 737-900ER 737-8 1、从 737-8 认可审定基础的例外部分删除 25-632-SC Removed 25-632-SC from 737-8 Validation Certification Basis exception	

	2、将发动机 VTCDS No. VTC0339E 的版本从 Revision 2 更新为 Revision 3 Updated Engine VTCDS No. VTC0339E from Revision 2 to Revision 3 3、将 737 双语（中文）标记标牌 D6-36621-7 更新为 Revision L Updated 737 Bilingual (Chinese) Placards and Markings D6-36621-7 to Revision L	
Rev 17	737-8 1、禁止使用 D6-85140-101 文件 C 版或 FAA 后续批准的修订文件中所定义的任何宽馏分燃油（例如，按照 ASTM D6615 的 Jet B 燃油、按照 MIL-DTL-5624 的 JP-4 燃油）。禁止使用含有 Kathon FP 1.5 杀虫剂的燃油运行 CFM LEAP-1B 系列发动机。 The use of any Wide Cut Fuel as defined in the D6-85140-101 revision C or later FAA approve revision document (e.g. Jet B as specified in ASTM D6615, JP-4 as specified in MIL-DTL-5624) is prohibited. Operation of the CFM LEAP-1B series engines with fuel containing Kathon FP 1.5 biocide is prohibited. 2、勘误了认可审定基础和技术特征和运行限制章节的部分中文表述。 Correction of the partial Chinese description of Validation Certification Basis and Technical Characteristics and Operational Limitations section.	
Rev 18	737-8 1、在第 VIII 部分 5 章节增加了注释 8。 Add Note 8 to Part VIII Section 5.	
Rev 19	737-8 1、在第 VIII 部分第 2 章节认可审定基础中增加了等效安全 PS21-0181-F-1。 Add ELOS PS21-0181-F-1 to Part VIII Section 2 Validation Certification Basis. 2、在第 VIII 部分第 5 章节增加了注释 9。 Add Note 9 to Part VIII Section 5. 3、删除了 VIII 部分第 5 章节注释 8 中的件号。 Delete the P/N in Note 8 of Part VIII Section 5.	
Rev 20	737-8 1、在第 VIII 部分第 5 章节增加了注释 10。 Add Note 10 to Part VIII Section 5.	

II. Model 737-300 (Approved November 14, 1984; CAAC Validated on Nov 15, 1985) Transport Aircraft

发动机/Engines: 2台CFM-56-3-B1, CFM-56-3B-2 or CFM-56-3C-1涡轮风扇发动机 / 2 CFM-56-3-B1, CFM-56-3B-2 or CFM-56-3C-1 Turbofan Engines. 参见FAA批准的飞行手册关于发动机的限制。/Refer to the FAA Approved Airplane Flight Manual for engine limitations.

燃油/Fuel: 使用符合商业喷气机燃油规格ASTM-D-1655和G.E. 规格D50PF2 Jet A, Jet A1, 和Jet B都是被认可的, 使用规格MIL-T-5624 级别的JP-4, P-5, 和 JP-8也是可接受的, 添加剂的使用参见飞行手册./Fuel conforming to commercial jet fuel Specification ASTM-D-1655 or G.E. Specification D50PF2 Jet A, Jet A1, and Jet B are authorized for unlimited use. Fuels conforming to MIL-T-5624 grades JP-4, P-5, and JP-8 are acceptable alternatives. Consult flight manual for additive use.

Engine Ratings:发动机功率	Takeoff static thrust, standard day, sea level conditions (5 min) lb./ 海平面标准天气起飞静推力, 磅	Maximum continuous static thrust, standard day, sea level conditions lb./海平面标准天气最大连续静推力, 磅
CFM 56-3C-1	22,100*	20,500*
CFM 56-3-B1	20,100	18,900
CFM 56-3B-2	22,100	20,500

*CFM 56-3C-1 油门限制器限制推力到22,100 / Throttle limiter to limit full throttle thrust equivalent to 22,100

发动机运行限制看E2GL或E21EU发动机的数据单或者FAA批准的飞行手册 / For engine operating limits see engine TC Data Sheet No. E2GL or E21EU or the FAA Approved Airplane Flight Manual.

推力设置/Thrust Settings: 必须使用经过批准的飞机的飞行手册和AFM附录中相应的发动机功率设定曲线来控制发动机推力。/The appropriate engine power setting curve (%N1), in the FAA Approved Airplane Flight Manual or AFM Appendices must be used for control of engine thrust.

速度限制/Airspeed Limits: VMO/MMO - 340/0.82 (KCAS)
关于其他的空速限制参见适当的FAA批准的飞行手册列出的注释2/For other airspeed limits see the appropriate FAA Approved Airplane Flight Manual listed in Note 2.

重心范围/C.G. Range: 参见适当的FAA批准的飞行手册列出的注释2/See the appropriate FAA Approved Airplane Flight Manual listed in NOTE 2.

最大重量/Maximum Weights: 参见适当的FAA批准的飞行手册列出的注释2/See the appropriate FAA Approved Airplane Flight Manual listed in NOTE 2.

III. Model 737-400 (Approved September 2, 1988; CAAC Validated on Dec 21, 1995) Transport Category.

发动机/Engines: 2台CFM-56-3C-1 or CFM-56-3B-2涡轮风扇发动机/2 CFM-56-3C-1 or CFM-56-3B-2 Turbofan Engines. 参见FAA批准的飞行手册关于发动机的限制 /Refer to the FAA Approved Airplane Flight Manual for engine limitations.

燃油/Fuel: 使用符合商业喷气机燃油规格ASTM-D-1655和G.E. 规格D50PF2 Jet A, Jet A1, 和Jet B都是被认可的, 使用规格MIL-T-5624 级别的JP-4, P-5, 和 JP-8也是可接受的, 添加剂的使用参见飞行手册./Fuel conforming to commercial jet fuel Specification ASTM-D-1655 or G.E. Specification D50PF2 Jet A, Jet A1, and Jet B are authorized for unlimited use. Fuels conforming to MIL-T-5624 grades JP-4, JP-5, and JP-8 are acceptable alternatives. Consult flight manual for additive use.

Engine Ratings: 发动机功率	Takeoff static thrust, standard day, sea level conditions (5 min) lb./	Maximum continuous static thrust, standard day, sea level conditions lb./海平
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	海平面标准天气起飞静推力, 磅	面标准天气最大连续静推力, 磅
CFM-56-3C-1	23,500	21,860
CFM-56-3B-2	22,100	20,500

发动机运行限制看E2GL或E21EU发动机的数据单或者FAA批准的飞行手册/For engine operating limits see engine TC Data Sheet No. E2GL or E21EU or the FAA Approved Airplane Flight Manual.

推力设置/Thrust Settings: 必须使用经过批准的飞机的飞行手册和AFM附录中相应的发动机功率设定曲线来控制发动机推力。/The appropriate engine power setting curve (%N1), in the FAA Approved Airplane Flight Manual or AFM Appendices must be used for control of engine thrust.

速度限制/Airspeed Limits: VMO/MMO - 340/0.82 (KCAS)
关于其他的空速限制参见适当的FAA批准的飞行手册列出的注释2/For other airspeed limits see the appropriate FAA Approved Airplane Flight Manual listed in NOTE 2.

重心范围/C.G. Range: 参见适当的FAA批准的飞行手册列出的注释2/See the appropriate FAA Approved Airplane Flight Manual listed in NOTE 2.

最大重量/Maximum Weights: 参见适当的FAA批准的飞行手册列出的注释2/See the appropriate FAA Approved Airplane Flight Manual listed in NOTE 2.

IV. Model 737-500 (Approved February 12, 1990; CAAC Validated on April 12, 1991) Transport Aircraft

发动机/Engines: 2台CFM-56-3C-1 or CFM-56-3-B1涡轮风扇发动机/2 CFM-56-3C-1 or CFM-56-3-B1 Turbofan Engines. 参见FAA批准的飞行手册关于发动机的限制
/Refer to the FAA Approved Airplane Flight Manual for engine limitations.

燃油/Fuel: 使用符合商业喷气机燃油规格ASTM-D-1655和G.E. 规格D50PF2 Jet A, Jet A1, 和Jet B都是被认可的, 使用规格MIL-T-5624 级别的JP-4, P-5, 和 JP-8也是可接受的, 添加剂的使用参见飞行手册./Fuel conforming to commercial jet fuel Specification ASTM-D-1655 or G.E. Specification D50PF2 Jet A, Jet A1, and Jet B are authorized for unlimited use. Fuels conforming to MIL-T-5624 grades JP-4, JP-5, and JP-8 are acceptable alternatives. Consult flight manual for additive use.

Engine Ratings:发动机功率	Takeoff static thrust, standard day, sea level conditions (5 min) lb./ 海平面标准天气起飞静推力, 磅	Maximum continuous static thrust, standard day, sea level conditions lb./海平面标准天气最大连续静推力, 磅
CFM-56-3C-1	20,100*	18,900*
CFM-56-3B1	20,100	18,900

*CFM 56-3C-1 throttle limiter to limit full throttle thrust equivalent to 20,100.

发动机运行限制看E2GL或E21EU发动机的数据单或者FAA批准的飞行手册/For engine operating limits see

engine TC Data Sheet No. E2GL or E21EU or the FAA Approved Airplane Flight Manual.

推力设置/Thrust Settings: 必须使用经过批准的飞机的飞行手册和AFM附录中相应的发动机功率设定曲线来控制发动机推力。/The appropriate engine power setting curve (%N1), in the FAA Approved Airplane Flight Manual or AFM Appendices must be used for control of engine thrust.

速度限制/Airspeed Limits: $V_{MO}/M_{MO} - 340/0.82$ (KCAS)
关于其他的空速限制参见适当的FAA批准的飞行手册列出的注释2/For other airspeed limits see the appropriate FAA Approved Airplane Flight Manual listed in NOTE 2.

重心范围/C.G. Range: 参见适当的FAA批准的飞行手册列出的注释2/See the appropriate FAA Approved Airplane Flight Manual listed in NOTE 2.

最大重量/Maximum Weights: 参见适当的FAA批准的飞行手册列出的注释2/See the appropriate FAA Approved Airplane Flight Manual listed in NOTE 2.

除了（737-700, -800, -600, -700C, -900 & -900ER）的所有机型的相关数据 / DATA PERTINENT TO ALL MODELS EXCEPT 737-700, -800, -600, -700C, -900 & -900ER:

最小飞行机组/
Minimum Crew for All Flights: 2 (飞行员和副驾驶/Pilot and Copilot)

最大载客数/
Maximum Passengers: 149 (737-300 系列飞机/Series Airplanes).
188 (737-400系列飞机/Series Airplanes), limited by FAR 25.803(c)
140 (737-500系列飞机/Series Airplanes), limited by FAR 25.807(d).

最大货舱载荷/
Maximum Baggage Cargo: 参见适当的重量平衡手册，Boeing文件D6-15066号/See appropriate Weight & Balance Manual, Boeing Document No. D6-15066

燃油和滑油容量/
Fuel & Oil Capacities: 参见适当的重量平衡手册，Boeing文件D6-15066号/See appropriate Weight & Balance Manual, Boeing Document No. D6-15066

最小燃油需求量/
Minimum Required Fuel: 参见适当的FAA批准的飞行手册列出的注释2/See appropriate FAA Approved Airplane Flight Manual listed in NOTE 2.

最大运行高度/
Maximum Operating Altitude: 37,000英尺/ ft. (737-300, 737-400, and 737-500系列飞机/ Series Airplanes)

基准/Datum:	The airplane reference origin of coordinates is a point located 540 inches forward of the center section wing front spar centerline, at buttock line zero, (i.e., aircraft fore/aft centerline as viewed in plane view) and at water line zero. (737-100 Series) All production body stations coincide numerically with moment arms. Horizontal distance of datum to nose gear jack point is 286 inches for the 737-100 Series, 250 inches for the 737-200 Series, and 207.7 inches for the 737-300 Series, 135.7 inches for the 737-400 Series, 261.7 inches for the 737-500 Series.
平均气动弦长/MAC:	134.5 /英寸inches (L.E. of MAC is 625.59 inches aft of the aircraft datum).
其他运行限制/ Other Operating Limitations:	参见FAA批准的飞行手册列出的注释2/See FAA Approved Airplane Flight Manual Appendices listed In NOTE 2 See NOTE 12.
操纵面运动量/ Control Surface Movements:	为确保使用, 不同操纵面运动量应通过相应的飞行控制系统的装配严格控制, 飞机必须按照下述批准的图纸装配。/To insure proper operation of the airplane, the movements of the various control surfaces must be carefully controlled by proper rigging of the flight control systems. The airplanes must, therefore, be rigged according to the following FAA Approved data:Boeing Drawings No. 65-45101 控制设备, 副翼扰流板/Control Installation, Aileron Spoiler 65-45102 升降舵控制设备装配说明/Control Installation, Elevator 65-45103 方向舵控制设备装配说明/Control Installation, Rudder 65-45104 控制设备, 水平安定面配平/Control Installation, Stabilizer Trim 65-45105 控制设备, 副翼配平/Control Installation, Aileron Trim 65-45106 控制设备, 方向舵配平/Control Installation, Rudder Trim 65-45116 减速板控制设备装配说明/Control Installation, Speed Brake
审定基础 / Certification Basis:	型号合格审定基础/Type Certification Basis, (737-300 系列飞机/Series Airplanes) 联邦航空规章25部1至3号修正案, 7号修正案、8号修正案和15号修正案, 下述条款除外(为25部1号修正案水平) /Part 25 of the Federal Aviation Regulations as amended by Amendments 25-1 through 25-3, 25-7,25-8, and 25-15, except where superseded by the following sections of Part 25 as amended by Amendments 25-1 through: 25-11 (Section 25.939, 25.977, 25.1141); 25-16 (Section 25.1457); 25-17 (Section 25.813); 25-20 (Section 25.785); 25-23 (Section 25.701, 25.723, 25.729, 25.863, 25.1103, 25.1143, 25.1331, 25.1333, 25.1435); 25-31 (Section 25.1459);

25-32 (Section 25.787, 25.809, 25.811, 25.853, 25.1557);
25-36 (Section 25.1305(a), (c), (d)(1), and (d)(2));
25-40 (Section 25.1585);
25-51 (Section 25.2, 25.101, 25.107, 25.111, 25.113, 25.143, 25.343, *25.571(a) and (b), 25.571(d), 25.581, 25.629, *25.671, *25.672, 25.677, 25.683, *25.699, 25.703, 25.735, 25.771, 25.772, 25.773, 25.789, 25.791, 25.803, 25.812, 25.855, 25.865, 25.903, 25.933, 25.934, 25.979, 25.993, 25.994, 25.1001, 25.1019, 25.1041, 25.1043, 25.1093, 25.1183, 25.1203, 25.1303, **25.1305(d)(3), 25.1307, *25.1309, 25.1325(a) through (f), 25.1326, 25.1351(d), 25.1359, 25.1387, 25.1413, 25.1415, 25.1419, 25.1447, 25.1450, 25.1561, 25.1581, 25.1583, 25.1587);
25-53 (Section 25.1411).
联邦航空规章36部1981年8月1日生效的1至12号修正案/Federal Aviation Regulations (FAR) Part 36 with Amendments 36-1 through 36-12, effective August 1, 1981.

特殊联邦航空规章27/Special Federal Aviation Regulation 27.

对联邦航空规章25部的豁免/Exemption from FAR 25:

25.901(c) Partial Exemption – No single powerplant or auxiliary power unit failure will jeopardize the safe operation of the airplane. (Exemption No. 7968, February 4, 2003) See NOTE 16.

*Applicable only to new or major modified structure or to new systems and components unique to the 737-300 series airplane with respect to the existing Model 737-200 Series airplane. For unmodified areas of Power Operated Control Systems, the original amendment level of FAR 25.695 remains in effect.

**Compliance with 25.1305(d)(3) has been mandated by the FAA in accordance with the provisions of FAR 21.101(b). Equivalency safety findings exist with respect to the following regulations: For 737-300 only:

FAR 25.723(a) Shock Absorption Tests

FAR 25.791 Passenger Information Signs and Placards

FAR 25.803(c)(8) Emergency Evacuation

FAR 25.809(f)(1)(ii) Escape Slides

FAR 25.853(c) Compartment Interiors

FAR 25.811(e)(3) Emergency Handle Illumination

FAR 25.812(b)(1)(i) Emergency Exit Signs

FAR 25.1093(b)(1) Induction System Deicing and Anti-Icing provisions.

FAR 25.811(f) Exterior Exit Markings

FAR 25.1415(d) Emergency Locator Transmitter (ELT)

型号合格审定基础/Type Certification Basis, (737-400 and 737-500 系列飞机

/Series Airplanes)

联邦航空规章25部1至3号修正案，7号修正案、8号修正案和15号修正案，下述条款除外（为25部1号修正案水平）/Part 25 of the Federal Aviation Regulations as amended by Amendments 25-1 through 25-3, 25-7, 25-8, and 25-15, except where superseded by the following sections of Part 25 as amended by Amendments 25-1 through:

25-11 (Section 25.939, 25.977, 25.1141);

25-16 (Section 25.1457);

25-17 (Section 25.813);

25-20 (Section 25.785);

25-23 (Section 25.701, 25.723, 25.729, 25.863, 25.1103, 25.1143, 25.1331, 25.1333, 25.1435);

25-31 (Section 25.1459);

25-32 (Section 25.787, 25.809, 25.811, 25.853, 25.1557);

25-33 (Section 25.772);

25-36 (Section 25.1305(a), (c), (d)(1), and (d)(2));

25-40 (Section 25.1585);

25-51 (Section 25.2, 25.101, 25.107, 25.111, 25.113, 25.143, 25.145, 25.147, 25.149, 25.177, 25.181, 25.201, 25.207, 25.233, 25.237, 25.253, 25.255, *25.305, 25.343, *25.571(a) and (b), 25.571(d), 25.581, 25.629, *25.671, *25.672, 25.677, 25.683, *25.699, 25.703, 25.735, 25.771, 25.773, 25.789, 25.791, 25.803, 25.812, 25.855, 25.865, 25.903, 25.933, 25.934, 25.979, 25.993, 25.994, 25.1001, 25.1019, 25.1041, 25.1093, 25.1183, 25.1203, 25.1303, *25.1305(d)(3), 25.1307, *25.1309, 25.1325(a) through (f), 25.1326, 25.1351(d), 25.1359, 25.1387, 25.1413, 25.1415, 25.1419, 25.1447, 25.1450, 25.1561, 25.1581, 25.1583, 25.1587);

25.53 (Section 25.1411).

联邦航空规章36部修正案/Federal Aviation Regulations (FAR) Part 36 with Amendments 36-1 through 36-15, effective May 6, 1988.

特殊联邦航空规章27部/Special Federal Aviation Regulation 27.

*Applicable only to new or major modified structure or to new systems and components unique to the 737-400, and 737-500 series airplane with respect to the existing Model 737-200 Series airplane. For unmodified areas of Power Operated Control Systems, the original amendment level of FAR 25.695 remains in effect.

**Compliance with 25.1305(d)(3) has been mandated by the FAA in accordance with the provisions of FAR 21.101(b).

等效安全/Equivalent safety findings exist with respect to the following

regulations: For 737-100/-200/-200C/-300/-400/-500:

FAR 25.1415(d) Emergency Locator Transmitter

An equivalent safety finding exists, with respect to incorporation of Boeing Service Bulletin 737-28A1141, for the following regulation: For 737-200/-200C/-300/-400/-500; FAR 25.901(c) Single Failures

Equivalency safety findings exist with respect to the following regulations: For 737-400 and 737-500 only:

FAR 1.2 Abbreviations and symbols

FAR 25.21 Proof of compliance

FAR 25.103 Stalling Speed

FAR 25.107 Takeoff Speeds

FAR 25.119 Landing Climb: All-engine- operating

FAR 25.121 Climb - One engine-operative

FAR 25.125 Landing

FAR 25.145 Longitudinal Control

FAR 25.147 Directional and lateral control

FAR 25.149 Minimum Control Speed

FAR 25.161 Trim

FAR 25.175 Demonstration of static longitudinal stability

FAR 25.177 Static directional and lateral stability

FAR 25.201 Stall demonstration

FAR 25.207 Stall Warning

FAR 25.723(a) Shock Absorption Tests

FAR 25.735 Brakes

FAR 25.773 Pilot compartment view

FAR 25.803(c)(8) Emergency evacuation

FAR 25.809(f)(1)(ii) Escape slides

FAR 25.811(e)(3) Emergency handle illumination

FAR 25.811(f) Exterior Exit Markings

FAR 25.812(b)(1)(i) Emergency exit signs

FAR 25.1323 Airspeed indicating system

FAR 25.1325 Static pressure systems

FAR 25.1415(d) Emergency Locator Transmitter (ELT)

FAR 36 Appendix C Use of the 1g Stall Speed instead of minimum speed in the stall as a basis for determining compliance.

Compliance with the following optional requirements has been established for all Models:

Ditching Provisions 25.801 (Overwater operation can be approved when the aircraft has been equipped and has been approved according to FAR 25.801. The 56-person life raft is not approved for use on 737-100/200/300/400 airplanes due

to ditching evacuation capability).

Ice Protection Provisions 25.1419

生产基础/Production Basis: 生产许可证700号/Production Certificate No. 700

必要设备/Required Equipment: 适用的适航要求（见审定基础）所规定的基础设备必须安装到合格审定的飞机上。所要求的设备在型号设计资料中。/The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the aircraft for certification. The required equipment is noted in the Type Design Data.

服务信息/Service Information: Boeing Document D6-15565 (For 737-100/200), D6-37635 (For 737-300), D6-38246 (For 737-400), D6-38441 (For 737-500), "Structural Repair Manual" is FAA-approved. Service Bulletins and other service information, when FAA-approved, will carry a statement to that effect.

重心范围/C.G. Range: 参见适当的FAA批准的飞行手册列出的注释2/See the appropriate FAA Approved Airplane Flight Manual listed in Note 2.

注释/NOTE 1. 在初始审定时必须随每架飞机提供包含在经审定的空重和装载指令中的当前的重量和平衡控制和装载手册，包括设备目录(D6-15066飞机报告)，并且除运营人拥有经批准的重量控制系统之外必须遵守该手册。/Current Weight and Balance Control and Loading Manual, including list of equipment, (D6-15066 Airplane Report), included in certificated weight empty and loading instructions must be in each aircraft at the time of original certification and at all times thereafter except in the case of operators having an approved weight control system.

注释/NOTE 2. 飞机按照批准的飞行手册运行，由FAA批准的飞机飞行手册、使用运行规章或合格审定基础三者要求的所有标牌必须安装在飞机上。/Airplane operation must be in accordance with the FAA Approved AFM. All placards required in either the FAA Approved AFM, the applicable operating rules or the Certification Basis must be installed in the airplane.

FAA批准的关于737-300的飞行手册的文档号是D6-8730/Boeing Document No. D6-8730 is the basic FAA Approved Airplane Flight Manual for Model 737-300 airplanes.

FAA批准的关于737-400的飞行手册的文档号是D6-8734/Boeing Document No. D6-8734 is the basic FAA Approved Airplane Flight Manual for Model 737-400 airplanes.

FAA批准的关于737-500的飞行手册的文档号是D6-8735/Boeing Document

No. D6-8735 is the basic FAA approved Airplane Flight Manual for Model 737-500 airplanes.

注释/NOTE 3.

The retirement times of fatigue critical parts are listed in the following table. FAA engineering approval is required to increase these values of retirement time. These service lives may be converted to flight hours based on service route segments average time and must be approved by the FAA.

737主/前起落架使用寿命/LIFE LIMITS FOR MODEL 737 MAIN/NOSE LANDING GEARS (3)

系列/SERIES	重量范围/WEIGHT RANGE (KIPS)		使用寿命/LIFE LIMIT (FLIGHTS)	
-100 -200 BGW	TAXI 95 - 111.2	LANDING 89.7 - 103	MAIN 81,000 (1)	NOSE 81,000
-200 HGWA -200HGWA -200HGWB	114 - 128.6	103-107	100,000 (1) (2)	90,000
-300	136.5 - 139	114		75,000
-400	143	121		75,000
-500	134-139	110		75,000

- (1) Trunnion pins 65-46113-3 and -5 are to be replaced at 76,000 flights.
- (2) Forward trunnion fuse bolts 65-42196-4, -5 and 69-58854-2, used on 737-100 and 737-200 series airplanes are to be replaced at 83,000 flights.
- (3) For Detail Components Lives see Boeing Service Letter 737-SL-32-21.

注释/NOTE 4.

符合P & WA522规格及其后续版本的JP-1, JP-4和JP-5 号燃油可以被分离的或混合的用于无冲突的发动机运行和功率输出, 当变换可燃物类型时无需燃油控制调节。/ (a) JP-1, JP-4 and JP-5 fuels conforming to P & WA specification No. 522 and later revisions may be used separately or mixed in any proportions without adversely affecting the engine operation or power output. No fuel control adjustment is required when switching fuel types.

Phillips 除冰剂(b) Phillips anti-icing fuel additive PFA-55MB may be used if concentration delivered to airplane does not exceed 0.15% by volume. No fuel system anti-icing credit is allowed.

注释/NOTE 5.

737-100, 737-200, 737-200C, 737-300, 737-400, 和737-500系列飞机命名方法, 737-105, /737是前缀, 1表示是100系列, 05是按照用户需要的配置决定的。/Models designation of the 737-100, 737-200, 737-200C, 737-300, 737-

400, and 737-500 Series airplanes are shown by the "Dash No." of the prefix "737," i.e. 737-105; the "1" represents the "-100 Series," and the "05" represents the customer's configuration for which initial approval was obtained.

- 注释/NOTE 6. 重量和平衡控制和着陆手册，每个型号的重量和平衡控制和着陆手册 (Boeing 文档D6-15066)均由基本手册和补充航空器报告组成。/ Weight and Balance Control and Loading Manual. For each Model the Weight and Balance Control and Loading Manual (Boeing Document D6-15066) consists of the Basic Manual and a Supplement Aircraft Report.
- 注释/NOTE 7. Boeing 737补充结构检查单D6-37089 (看Ad 84-21-06, 修正39-4933)中的包含 737-300, 737-400, 的737-500部分将要被FAA的工程师修订，//The Boeing 737 Supplemental Structural Inspection Document D6-37089 (See Ad 84-21-06, Amendment 39-4933) will be revised to include the 737-300, 737-400, and 737-500 at a time to be determined by FAA engineering.
- 注释/NOTE 8. 不适用 / Not Applicable
- 注释/NOTE 9. 不适用 / Not Applicable
- 注释/NOTE 10. 个别的飞机于指定的飞机在重量限制方面有区别，查阅飞行手册和重量和平衡手册决定最大运行重量和平衡限制。/Individual airplanes may be limited to weights different than those specified herein. Refer to the FAA Approved Airplane Flight Manual or the FAA Approved Weight and Balance Manual to determine maximum permissible operating weights and balance limitations.
- 注释/NOTE 11. JT8D-15 engines equipped with MOD 10 exhaust mixer (Pratt & Whitney Aircraft Part No. 5004027) have same engine limits as JT8D-15 engines with splitter type exhaust system.
- 注释/NOTE 12. 不适用 / Not Applicable
- 注释/NOTE 13. 对一些不按型号审定基础操作的修改这里会有服务通告来要求它们，这些服务通告在Boeing 文档号D6-19567中的737服务通告被列出，如果非FAA批准的服务通告被使用，飞机要进口美国要追溯更早的修正和完成确保符合性。/There are service bulletins which call for modifications which do not comply with the Type Certification Basis. These service bulletins are listed in Boeing Document D6-19567 titled "Service Bulletin 737".The records of airplanes imported into the USA should be reviewed to be sure that further modifications are accomplished to insure compliance, if the non FAA-approved service bulletins modifications have been installed.
- 注释/NOTE 14. 不适用 / Not Applicable

注释/NOTE 15. 737-200, -300, -400, 和 -500飞机的型号设计可靠性和性能已经按照FAA咨询通告AC 120-42A 进行了评估, 在按照波音文件D6-38091 《737-200构型, 维护和程序》和 D6-38123的《737-300/-400/-500构型, 维护和程序》使用和维持时, 适合双发延程运行。/The type design reliability and performance of the Model 737-200, -300, -400, and -500 airplanes have been evaluated in accordance with FAA Advisory Circular 120-42A and found suitable for Extended Range Operations with Two-Engine Airplanes (ETOPS) when operated and maintained in accordance with Boeing Document D6-38091 “CONFIGURATION, MAINTENANCE, AND PROCEDURES FOR EXTENDED RANGE (ER) OPERATION” for the Model 737-200, and Boeing Document D6-38123 for the Models 737-300, -400, and -500.

注释/NOTE 16. 不适用 / Not Applicable

注释/NOTE 17 不适用 / Not Applicable

V. Model 737-700 (Approved November 7, 1997; CAAC Validated on Oct 6, 1998), 737-800 (Approved March 13, 1998; CAAC Validated on Oct 6,1998) , and 737-600 (Approved August 12, 1998; CAAC Validated on April 29,2002) Transport Aircraft.

发动机/Engines: 两台CFM56-7B, -7B/2, -7B/3 或-7BE系列涡轮发动机, 参见飞行手册的发动机限制。/Two CFM56-7B, -7B/2, -7B/3 or -7BE Series Turbofan Engines. Refer to the FAA Approved Airplane Flight Manual for engine limitations. The CFM56-7B/2 series have double annular combustors and provide the same thrust as the CFM56-7B series engines at the respective engine ratings and are approved for all models except the CFM56-7B-18/2 engine rating. The CFM56-7B/3 series have single annular combustors and provide the same thrust as the CFM56-7B series engines at the respective engine ratings. The CFM56-7BE series have single annular combustors and provide the same thrust as the CFM56-7B series engines at the respective engine ratings.

注/Note:

CFM56-7B系列发动机CAAC VTC证书编号VTC0077E, Rev.5; /The CAAC VTC No. of CFM56-7B Serial engines is VTC0077E, Rev.6;

燃油/Fuel: 燃油满足下述规范及其经批准的混合使用 / Fuels meeting the following specifications and mixtures thereof are approved for use:

*Jet A, Jet A-1 as specified in ASTM-D1655

*JP-5 as specified in MIL-T-5624

*JP-8 as specified in MIL-T-83133

*No.3 Jet Fuel as specified in GB 6537

Fuels conforming to G.E. Specification D50TF2 (Class A, C, D and E) or fuels

produced or certified to other specifications and having properties meeting the requirements of the above specifications are acceptable for use. Consult Flight Manual for additive use.

批准使用满足中华人民共和国国家标准“3号喷气燃料”（GB 6537）规范要求的燃油。

Approved to use the fuels that meet the requirements in the National Standard of the People's Republic of China “No.3 Jet Fuel” (GB 6537) Specification.

Engine Ratings/ 发动机功率	Model 737-700	Takeoff static thrust, standard day, sea level conditions (5 min) lb./ 海平 面标准天气起飞静推力， 磅	Maximum continuous static thrust, standard day, sea level conditions lb./海平面标准天气最大连续静推 力，磅
	CFM56-7B24	24,200	22,800
	CFM56-7B24/2*	24,200	22,800
	CFM56-7B24/3	24,200	22,800
	CFM56-7B24E	24,200	22,800
	CFM56-7B24/B1**	24,200	22,800
	CFM56-7B24/3B1**	24,200	22,800
	CFM56-7B24E/B1**	24,200	22,800
	CFM56-7B22	22,700	22,300
	CFM56-7B22/2*	22,700	22,300
	CFM56-7B22/3	22,700	22,300
	CFM56-7B22E	22,700	22,300
	CFM56-7B20	20,600	19,400
	CFM56-7B20/2*	20,600	19,400
	CFM56-7B20/3	20,600	19,400
	CFM56-7B20E	20,600	19,400
	CFM56-7B26	26,300	25,900, Limited to 22,800 by FMC
	CFM56-7B26/3	26,300	25,900, Limited to 22,800 by FMC
	CFM56-7B26E	26,300	25,900, Limited to 22,800 by FMC
	CFM56-7B26/3B2	26,300	22,800
	CFM56-7B26E/B2	26,300	22,800
	CFM56-7B26/3B2F	26,300	22,800
	CFM56-7B26E/B2F	26,300	22,800
	CFM56-7B26/3F	26,300	25,900, Limited to 22,800 by FMC
	CFM56-7B26E/F	26,300	25,900, Limited to 22,800 by FMC
	CFM56-7B26/2*	26,300	25,900, Limited to 22,800 by FMC
	CFM56-7B26/B2	26,300	22,800

Engine Ratings/
发动机功率

737增重型/Model 737-700 Increased Gross Weight (IGW)

CFM56-7B24	24,200	22,800
CFM56-7B24/2*	24,200	22,800
CFM56-7B24/3	24,200	22,800
CFM56-7B24E	24,200	22,800
CFM56-7B24/3B1**	24,200	22,800

CFM56-7B24E/B1**	24,200	22,800
CFM56-7B22	22,700	22,300
CFM56-7B22/2*	22,700	22,300
CFM56-7B22/3	22,700	22,300
CFM56-7B22E	22,700	22,300
CFM56-7B20	20,600	19,400
CFM56-70B20/2*	20,600	19,400
CFM56-7B20/3	20,600	19,400
CFM56-7B20E	20,600	19,400
CFM56-7B26	26,300	25,900, Limited to 22,800 by FMC
CFM56-7B26/2*	26,300	25,900, Limited to 22,800 by FMC
CFM56-7B26/3	26,300	25,900, Limited to 22,800 by FMC
CFM56-7B26E	26,300	25,900, Limited to 22,800 by FMC
CFM56-7B26/3F	26,300	25,900, Limited to 22,800 by FMC
CFM56-7B26E/F	26,300	25,900, Limited to 22,800 by FMC
CFM56-7B26/B1#	26,300	25,900
CFM56-7B26E/B1#	26,300	25,900
CFM56-7B27A	27,300	25,900
CFM56-7B27/B3#	27,300	25,900
CFM56-7B27/3B3#	27,300	25,900
CFM56-7B27E/B3#	27,300	25,900
CFM56-7B27E	27,300	25,900
CFM56-7B27E/F	27,300	25,900

适用于737-700 IGW的限制请参见第5部分后面的注释4 /Please see note 4 at the end of Section V for limitations which may be applicable to the 737-700 IGW airplanes.

Engine Ratings/ 发动机功率	Model 737-800	Takeoff static thrust, standard day, sea level conditions (5 min) lb./ 海 平面标准天气起飞静推 力, 磅	Maximum continuous static thrust, standard day, sea level conditions lb./海平面标准天 气最大连续静推力, 磅
	CFM56-7B24	24,200	22,800
	CFM56-7B24/2*	24,200	22,800
	CFM56-7B24/3	24,200	22,800
	CFM56-7B24E	24,200	22,800
	CFM56-7B24/B1**	24,200	22,800
	CFM56-7B24/3B1**	24,200	22,800
	CFM56-7B24E/B1**	24,200	22,800
	CFM56-7B26	26,300	25,900
	CFM56-7B26/2*	26,300	25,900
	CFM56-7B26/3	26,300	25,900
	CFM56-7B26E	26,300	25,900
	CFM56-7B26/3F*	26,300	25,900
	CFM56-7B26E/F*	26,300	25,900
	CFM56-7B27	27,300	25,900
	CFM56-7B27/2*	27,300	25,900
	CFM56-7B27/3	27,300	25,900
	CFM56-7B27E	27,300	25,900

CFM56-7B27/3F	27,300	25,900
CFM56-7B27E/F	27,300	25,900
CFM56-7B27/B1**	27,300	25,900
CFM56-7B27/3B1**	27,300	25,900
CFM56-7B27E/B1**	27,300	25,900
CFM56-7B27/3B1F**	27,300	25,900
CFM56-7B27E/B1F**	27,300	25,900
CFM56-7B27/B3	27,300	25,900
CFM56-7B27/3B3	27,300	25,900
CFM56-7B27E/B3***#	27,300	25,900

Engine Ratings/ 发动机功率	Model 737-600	Takeoff static thrust, standard day, sea level conditions (5 min) lb./ 海平面标准天气起飞静推力, 磅	Maximum continuous static thrust, standard day, sea level conditions lb./海平面标准天气最大连续静推力, 磅
	CFM56-7B20	20,600	19,400
	CFM56-7B20/2*	20,600	19,400
	CFM56-7B20/3	20,600	19,400
	CFM56-7B20E	20,600	19,400
	CFM56-7B22	22,700	22,300
	CFM56-7B22/2*	22,700	22,300
	CFM56-7B22/3	22,700	22,300
	CFM56-7B22E	22,700	22,300

** 特殊功率/Special Rating

特殊维修要求（仅适用于波音公务机） Special Maintenance Provisions (BBJ applications only).

发动机运行限制参见数据单E00055EN或 E00056EN 或飞行手册。/For engine operating limits see Engine Type Certificate Data Sheet No. E00055EN or E00056EN or the FAA Approved Airplane Flight Manual.

推力设置/Thrust Settings: 必须使用经过批准的飞机的飞行手册和AFM附录中相应的发动机功率设定曲线来控制发动机推力。/The appropriate engine power setting curve (%N1), in the FAA Approved Airplane Flight Manual or AFM Appendices must be used for control of engine thrust.

速度限制/Airspeed Limits: VMO/MMO - 340/0.82 (KCAS)
关于其他的空速限制参见适当的FAA批准的飞行手册列出的注释2/For other airspeed limits see the appropriate FAA Approved Airplane Flight Manual listed in Note 2

重心范围/C. G. Range: 参见适当的FAA批准的飞行手册列出的注释2/See the appropriate FAA Approved Airplane Flight Manual listed in Note 2

最大重量/Maximum Weights:

737-700

最大滑行重量/Maximum Taxi Weight (MTW)	155,000 lbs.
最大起飞重量/Maximum Takeoff Weight (MTOW)	154,500 lbs.
最大着陆重量/ Maximum Landing Weight (MLW)	129,200 lbs.

最大零燃油重量/Maximum Zero Fuel Weight (MZFW) 121,700 lbs.

737增重型/737 700 Increased Gross Weight (IGW)

参见737-700增重型的限制部分在最后部分的注释4 /Please see Note 4 at the end of Section for limitations which may be applicable to the 737-700 IGW airplanes

最大滑行重量/Maximum Taxi Weight (MTW) 171,500 lbs.

最大起飞重量/Maximum Takeoff Weight (MTOW) 171,000 lbs.

最大着陆重量/ Maximum Landing Weight (MLW) 134,000 lbs.

最大零燃油重量/Maximum Zero Fuel Weight (MZFW) 126,000 lbs.

737-800

最大滑行重量/Maximum Taxi Weight (MTW) 174,700lbs.

最大起飞重量/Maximum Takeoff Weight (MTOW) 174,200lbs.

最大着陆重量/ Maximum Landing Weight (MLW) 146,300 lbs.

最大零燃油重量/Maximum Zero Fuel Weight (MZFW) 138,300 lbs.

737-600

最大滑行重量/Maximum Taxi Weight (MTW) 146,000 lbs.

最大起飞重量/Maximum Takeoff Weight (MTOW) 145,500 lbs.

最大着陆重量/ Maximum Landing Weight (MLW) 120,500 lbs.

最大零燃油重量/Maximum Zero Fuel Weight (MZFW) 114,000 lbs.

最小飞行机组/

Minimum Crew For All Flights: 2 (飞行员和副驾驶/Pilot and Copilot)

最大载客数/Maximum

Passengers:	<u>737-700</u>	<u>737-800</u>	<u>737-600</u>
	149	189	149

最大行李舱载荷/

Maximum Baggage Cargo: 参见适当的重量平衡手册, Boeing文件D043A560 737-600机型, D043A570 737-700机型, D043A580 737-800机型/See appropriate Weight and Balance Manual, Boeing Document No.: D043A560 for Model 737-600
D043A570 for Model 737-700
D043A580 for Model 737-800
D043A584 for the 737-800BCF

The 737-800BCF is a model 737-800 aircraft converted into a freighter under project number TS14-0042 that have incorporated Boeing drawing 800A0003

燃油和滑油容量/

Fuel & Oil Capacities: 参见适当的重量平衡手册, Boeing文件D043A570/See appropriate Weight and Balance Manual, Boeing Document No. D043A570

最小燃油需求量/

Minimum Required Fuel: 参见适当的FAA批准的飞行手册列出的注释2/See appropriate FAA Approved Airplane Flight Manual listed in Note 2

最大运行高度/

Maximum Operating /Altitude: 英尺/41,000 ft.

基准/Datum:

看适当的重量平衡手册, Boeing文件D043A570/See appropriate Weight & Balance Manual, Boeing Document No. D043A570

平均气动弦/MAC:

155.81 英寸/in

其他运行限制/

Other Operating Limitations: 参见FAA批准的飞行手册See FAA Approved Airplane Flight Manual Appendices

操纵面运动量/

Control Surface Movements: 为确保使用, 不同操纵面运动量应通过相应的飞行控制系统的装配严格控制, 飞机必须按照下述批准的图纸装配。/To insure proper operation of the airplane, the movements of the various control surfaces must be carefully controlled by proper rigging of the flight control systems. The airplanes, must, therefore, be rigged according to the following FAA Approved data:

波音图纸号/Boeing Drawing Numbers:

114A1001, 克鲁格襟翼安装-机翼前缘内侧/Krueger Flap Instl - Inbd Wing L.E.

251A1001, 横向和减速板控制装备说明/Rigging Instructions, Lateral & Speedbrake Control

251A2001, 升降舵控制系统装备说明/Rigging Instructions, Elevator Control System

251A3001, 方向舵控制系统装备说明/Rigging Instructions, Rudder Control System

251A4001, 安定面配平控制系统装备说明/Rigging Instructions, Stabilizer Trim Control

256A3001, 襟翼作动装备说明 Rigging Instructions - Flap Actuation

256A2284, 襟翼前缘缝翼传感器安装-机翼前缘/ Flap.Slat Sensor Instl - Leading Edge, Wing

审定基础/Certification Basis:

A. 联邦航空规章 25 部修正案 1 至 77 号修正案, 下述条款除外/Part 25 of the Federal Aviation Regulations as amended by Amendments 25-1 through 25-77 with the exceptions listed below:

<u>SECTION NO.</u>	<u>TITLE</u>	<u>AT AMDT. 25.-</u>
25.365	Pressurized Compartment Loads	0****
25.561	Emergency Landing Conditions-General	0
25.562	Emergency Landing Dynamic Conditions	64*
25.571	Damage-tolerance and Fatigue Evaluation of Structure	0, 77, **
25.607	Fasteners	0,77**
25.631	Bird Strike Damage	0,77**
25.699	Lift and Drag Device Indicator	0, 77**
25.775	Windshields and Windows	0
25.783(f)	Doors	15,77**
25.807(c)(3)	Emergency Exits	15
25.813	Emergency Exit Access	45,77**
25.832	Cabin Ozone Concentration	0***
25.1141	Powerplant Controls: General	11*****
25.1309	Equipment, Systems and Installations	0, 77**
25.1419(c)	Ice Protection	23,77**

* Flight attendant seats are qualified to Technical Standard Order C127, dated March 30, 1992, or qualified to TSO C127a, and

- a) Head Injury Criteria data collected and reported by TSO applicant is less than 1000, and
- b) Femur Injury Criteria data collected and reported by TSO applicant is less than 2250 pounds, and
- c) Permanent deformation data collected and reported by TSO applicant are in compliance with the requirements of FAA Advisory Circular (AC) 25.562-1A.

* Passenger and crew seats in the flight deck comply with § 25.562(a),(b),((c)(1),(2),(3),(4),(7), and (8)). In addition flight deck observer seats comply with § 25.562((c)(5)). Medical stretchers used to transport non-ambulatory occupants are not required to comply with § 25.562.

** Applicable to new and significantly modified structure and systems and portions of the airplane affected by these changes. Where two amendment levels are shown for the same paragraph, the number without the asterisk (*) applies to structures, systems and portions of the airplane which are not new or significantly modified. The structure, systems, and components which comply with the later amendment will be identified in Boeing document D010A001, approved by the FAA and JAA, and referenced on the TCDS.

*** Boeing provides FAA approved data (Document number D6-49779) to 737 operators to enable the operators to show ozone compliance per §121.578 for their specific route structures.

**** Exception applies to Auxiliary Power Unit spar mounted fuel shut off valve only. All other power plant controls were shown to comply with § 25.1141 at amendment 25-77.

***** For 737-800 airplanes configured with a flat aft pressure bulkhead, the airplane is also designed to withstand the effects of a sudden release of pressure venting aft through any 820 square inch opening in that bulkhead at any operating altitude. Amendment level "0" is the original published version of Part 25 (February 1, 1965).

此外，波音自愿符合下述规章作为审定基础的一部分

In addition, the following regulations, which Boeing has voluntarily complied with, are also part of the certification basis;

<u>SECTION NO.</u>	<u>TITLE</u>	<u>AT AMDT. 25.-</u>
25.733	Use of Inert Gas for Tire Inflation	78
25.811(e)	Emergency Handle Illumination	79
25.1316	Lightning Protection Requirements	80
25.143(c),(d),(e),(f)	General, Controllability & Maneuverability	84
25.145(b),(c)(1)	Longitudinal Control	84
25.149(f),(h)	Minimum Control Speed	84
25.203(c)	Stall Characteristics	84
25.253(b)	High-Speed Characteristics	84
25.305(d)	Strength and Deformation	86
25.321(c),(d)	Flight Loads - General	86
25.331(a),(d)	Flight Maneuver and Gust Conditions - General	86
25.333(a),(c)	Flight Envelope	86
25.341	Gust Loads	86
25.343(b)	Design Fuel and Oil Loads	86
25.345(a),(c)	High lift Devices	86
25.349	Rolling Conditions	86
25.351	Yawing Conditions	86
25.371	Gyroscopic Loads	86
25.373(a)	Speed Control Devices	86
25.391	Control Surface Loads:general	86
25.427	Unsymmetrical Loads	86
25.519	Jacking and Tie-down Provisions	81
25.571(b)	Damage Tolerance and Fatigue Evaluation of Structure (Loads)	86
25.1415(d)	Ditching Equipment (ELT)	82
25.1517	Rough Air Speed VRA	86

In addition to the airworthiness standards, the type-certification basis for these derivative airplanes includes compliance with the emissions standards of part 34 as amended by any amendments effective at the time of certification and with the noise standards of part 36 as amended by Amendment 36-20 or any subsequent amendment effective at the time of certification.

专用条件 / Special Conditions

Special Conditions were proposed, in accordance with §21.16. The Special Conditions for the following subjects were issued in Renton, Washington, September 17, 1997. Their effectivity was the same day as issuance:

25-ANM-132, published in the Federal Register on September 17, 1997 for 737-600/-700/-800 airplanes and applicable to later amendments of the 737 model that incorporate the same novel or unusual design feature:

- High Intensity Radiated Fields
- Limit Engine Torque Loads for Sudden Engine Stoppage

25-358-SC, published in the Federal Register on June 29, 2007 addressed 737-600/-700/-700C/-800/-900 and -900ER series airplanes regarding seats with non-traditional, large, non-metallic panels

Special Conditions No.25-386-SC, published in the Federal Register on August 7, 2009, addressed 737-600/-700/-700C/-800/-900 and 900ER series airplanes with inflatable lapbelts installed

25-404-SC, published in the Federal Register on April 12, 2010, Modification to Boeing Model 737-600/-700/-700C/-800/-900 and -900ER Series Airplanes: Rechargeable Lithium Batteries and Rechargeable Lithium-Battery Systems

25-550-SC, published in the Federal Register on June 6, 2014, Airplane Electronic Systems Security Protection from Unauthorized External Access

25-551-SC, published in the Federal Register on June 6, 2014, Isolation [of] Airplane Electronic System Security Protection from Unauthorized Internal Access.

等效安全 / Equivalent Safety Findings:

The Equivalent Safety Findings were proposed in accordance with § 21.21. The following have been identified as equivalent safety findings:

- § 1.1 General Definitions
- § 1.2 Abbreviations and Symbols
- § 25.21 Proof of Compliance
- § 25.101(i) Rejected Takeoff Performance (F-4)
- § 25.103 Use of 1-g Stall Speed Instead of Minimum Speed (F-1)
- § 25.105(c)(1) Rejected Takeoff Performance (F-4)
- § 25.107 Use of 1-g Stall Speed Instead of Minimum Speed (F-1)
- § 25.109 Rejected Takeoff Performance (F-4)
- § 25.111(a) Use of 1-g Stall Speed Instead of Minimum Speed (F-1)
- § 25.113 Rejected Takeoff Performance (F-4)
- § 25.115(a) Rejected Takeoff Performance (F-4)
- § 25.119(b) Use of 1-g Stall Speed Instead of Minimum Speed (F-1)
- § 25.121(c)(d) Use of 1-g Stall Speed Instead of Minimum Speed (F-1)
- § 25.125(a) Use of 1-g Stall Speed Instead of Minimum Speed (F-1)
- § 25.143(g) Use of 1-g Stall Speed Instead of Minimum Speed (F-1)
- § 25.145(a)(b)(c) Use of 1-g Stall Speed Instead of Minimum Speed (F-1)
- § 25.147(a)(c)(d) Use of 1-g Stall Speed Instead of Minimum Speed (F-1)
- § 25.149(c) Use of 1-g Stall Speed Instead of Minimum Speed (F-1)
- § 25.161(b)(c)(d)(e) Use of 1-g Stall Speed Instead of Minimum Speed (F-1)
- § 25.175(a)(b)(c)(d) Use of 1-g Stall Speed Instead of Minimum Speed (F-1)
- § 25.177(c) Use of 1-g Stall Speed Instead of Minimum Speed (F-1)
- § 25.181(a)(b) Use of 1-g Stall Speed Instead of Minimum Speed (F-1)
- § 25.201(a)(b) Use of 1-g Stall Speed Instead of Minimum Speed (F-1)
- § 25.207(b)(c)(d)(e)(f) Use of 1-g Stall Speed Instead of Minimum Speed (F-1)
- § 25.231(a) Use of 1-g Stall Speed Instead of Minimum Speed (F-1)
- § 25.233(a) Use of 1-g Stall Speed Instead of Minimum Speed (F-1)
- § 25.237(a)(b) Use of 1-g Stall Speed Instead of Minimum Speed (F-1)
- § 25.395(a) Lateral Control System Load Factors (A-5)
- § 25.613 Material Design Values (A-9)
- § 25.733 Return Landing Capability (F-3)
- § 25.735 Return Landing Capability (F-3)

- § 25.735(f)(g)(h) Rejected Takeoff Performance (F-4)
- § 25.735(f)(g) Use of 1-g Stall Speed Instead of Minimum Speed (F-1)
- § 25.773(b) Use of 1-g Stall Speed Instead of Minimum Speed (F-1)
- § 25.791 “No Smoking” limitation in the Passenger Compartment (C-5)
- § 25.810 (a)(1)(ii) Escape Slides (C-4)
- § 25.811(f) Exterior Exit Markings (C-1)
- § 25.812(b)(1)(i) Emergency Exit Locator and Marking Signs (C-3)
- § 25.813(c)(1)(i) Emergency Exit Access (C-1)
- § 25.813(c) Seat Obstruction of the Provided Exit Opening at Overwing Exit Door and Reduced Passageway to the Overwing Exits (for Type III Automatic Overwing Exit) (C-1)
- § 25.841(a)(b) Cabin Altitude Warning System with Dual Limits for Operations into High Altitude Airports (S-1)
- § 25.853(a) Adhesives Used in Interior Panel Bent Joint Potting Applications (C-1)
- § 25.853 “No Smoking” limitation in the Passenger Compartment (C-5)
- § 25.933(a) Flight Critical Thrust Reversers (P-2)
- § 25.979(b)(1) Pressure Fueling System – Automatic Refueling Shutoff System Check Function (P-5)
- § 25.981(b)(d) Fuel Tank Flammability Reduction Rule (P-2)
- § 25.1001(c) Use of 1-g Stall Speed Instead of Minimum Speed (F-1)
- § 25.1323(c) Use of 1-g Stall Speed Instead of Minimum Speed (F-1)
- § 25.1325(e) Use of 1-g Stall Speed Instead of Minimum Speed (F-1)
- § 25.1389(b) Equivalent Safety Finding (ESF) for Forward Position Light System Minimum Intensity (SE-1)
- § 25.1389 Equivalent Safety Finding (ESF) for Position Light Overlapping Intensities (SE-2)
- § 25.1391 Equivalent Safety Finding (ESF) for Forward Position Light System Minimum Intensity (SE-1)
- § 25.1393 Equivalent Safety Finding (ESF) for Forward Position Light System Minimum Intensity (SE-1)
- § 25.1395 Equivalent Safety Finding (ESF) for Position Light Overlapping Intensities (SE-2)
- § 25.1411(b)(1) General – Overhead Life Vest Location (C-1)
- § 25.1415(d) Emergency Locator Transmitter (ELT) (C-1)
- § 25.1419 Use of Analysis to Demonstrate Safe Flight in Icing Conditions (S-1)
- § 25.1419 Use of Analysis to Demonstrate Safe Flight in Icing Conditions (S-2)
- § 25.1441(c) Crew Determination of the Quantity of Oxygen Available in the Lavatory Passenger Service Units Bottles (ES-1)
- § 25.1443(c) Determination of Minimum Oxygen Flow for the Lavatory Oxygen System (S-1)
- § 25.1517 Rough Air Speed, VRA (F-1)
- § 25.1529 Inclusion of Airworthiness Limitations within the Boeing ICA Manuals (G-8)
- § 25.1549(b) Equivalent Level of Safety (ELOS) Finding for Powerplant And Auxiliary Power Unit Instruments (S-1)
- § 25.1587(b) Use of 1-g Stall Speed Instead of Minimum Speed (F-1)
- § 25.1587(b) Rejected Takeoff Performance (F-4)

豁免/Exemptions:

Exemptions granted for previously type-certificated 737 series airplanes do not apply to these derivative models.

§25.1435(b)(1) Hydraulic Systems (Exemption 6086, May 17, 1995, Exemption No. 6086A, January 29, 2009).

§25.305, 25.307(a), 25.601, 25.603(c), 25.613(a) and (b), 25.901(c), and 25.1103(d) Partial Exemption –

Localized areas of temperature – related damage. (Exemption No. 9571, December 11, 2007).

§ 25.853(a), appendix F, paragraph (a)(1)(i) - Partial Time-Limited Exemption, Testing on Large Interior Panels, granted through November 28, 2011. (Exemption No. 9791, November 28, 2008, Exemption No. 9791B, March 1, 2010, Exemption No. 9791C, February 4, 2011)

§ 25.562(b)(2) Emergency Landing Dynamic Conditions - related to Flight Deck Testing (Granted April 12, 1996, Exemption No. 6425).

§ 25.571(e)(1) Damage-Tolerance and Fatigue Evaluation of Structure - related to Bird Strike Velocity. (Granted April 8, 1997, Exemption No. 6601).

§ 25.901(c) Partial Exemption – No single powerplant or auxiliary power unit failure will jeopardize the safe operation of the airplane. (Exemption No. 7968, February 4, 2003) See NOTE 6.

§ 25.901(c) and § 25.981(a)(3) - Exemption from 14 CFR 25.901(c), Amendment 25-126, and 25.981(a)(3), Amendment 25-102 or later, pertaining to fuel tank ignition prevention associated with the fuel quantity indication systems (FQIS) on in-service and newly-produced Model 737-600/-700/-800/-900/-900ER (737NG) airplanes. (Time-limited Exemption No. 10905, Originally granted December 18, 2013, Expires December 18, 2017; Exemption No. 10905A granted December 13, 2017; Exemption No 10905B granted September 28, 2018)

§ 25.1447(c)(1) Automatic Presentation of Oxygen Masks to Allow Operation at High Altitude Airports (Exemption No. 8668A, December 30, 2013).

B. Joint Aviation Authorities (JAA) Certification Basis: For Models 737-600, 737-700 and 737-800, please see Boeing 737 JAA Data Sheet No. JAA/25/97-018.

C Certification basis for 25.981(c) at amendment 25-102, and Special Conditions 25-308-SC, issued on December 25, 2005, for the flammability reduction system (FRS), is applied if fuel tank inerting is installed in new airplane production or as a modification. Airworthiness limitations for the FRS are contained in Section 9 of the applicable Maintenance Planning Document.

审定维修要求

/Certification Maintenance

Requirements (CMR's)

The CMR's are listed in either the FAA approved Section 9 of Boeing Maintenance Planning Data Document D626A001-CMR or the applicable engine Type Certification Data Sheet. The more restrictive requirement from these two documents shall be in force. All 737-600/700/700IGW/800 airplanes with line numbers 715 and on must comply with the damage tolerance structural inspections contained in revision June 2000 or later FAA-approved revision.

生产基础/Production Basis: 生产许可证700号/Production Certificate No. 700

必要设备/Required Equipment: 适用的适航要求（见审定基础）所规定的基础设备必须安装到合格审定的飞机上。所要求的设备在型号设计资料中。/The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the aircraft for certification. The required equipment is noted in the Type Design Data.

服务信息/Service Information: 参见波音的结构维修手册, 如果服务通告和其他服务信息被批准的话, FAA 会对其作出声明。/The following Boeing “Structural Repair Manual” Documents are FAA-approved. Service Bulletins and other service information, when FAA-approved, will carry a statement to that effect.

D634A201 for the 737-700

D634A209 for the 737-800BCF

D634A210 for the 737-800

D634A220 for the 737-600

D634A330 for the 737-700 IGW

重心范围/C.G. Range: 参见适当的FAA批准的飞行手册列出的/ See the appropriate FAA Approved Airplane Flight Manual listed.

经批准的中文标记标牌/ The Approved Chinese Placard and Markings:

以下中文标记标牌已由 CAAC 接受并由 FAA 批准:

The following Chinese Placards have been accepted by CAAC and approved by FAA:

序号 Code	标题 Title	编号 Number	版本 (见注释 8) Rev./See Note 8
1	737 Bilingual (Chinese) Placards and Markings	D6-36621-7	J

D. Additional cert basis items for 737-800BCF:

Section No.	Title (or subparagraph)	Through Amdt [25-x]	Applies To:
25.107	Takeoff speeds	135	
25.143	General	129	
25.201	Stall demonstration	108	
25.331	Symmetric maneuvering conditions	91	
25.345	High lift devices	91	
25.349	Rolling conditions	94	
25.351	Yaw maneuver conditions	91	
25.365(a), (b), (c), (d), (f), (g)	Pressurized compartment loads	87	
25.371	Gyroscopic loads	91	
25.445	Auxiliary aerodynamic surfaces	86	For the installation of wiglets only
25.473	Landing load conditions and assumptions	103	
25.479	Level landing conditions	91	
25.481	Tail down landing conditions	94	
25.483	One-gear landing conditions	91	
25.485	Side load conditions	91	
25.491	Taxi, takeoff and landing roll	91	
25.493	Braked roll conditions	97	
25.499	Nose-wheel yaw and steering	91	
25.561	General – Emergency landing conditions	91	
25.571	Damage-tolerance and fatigue evaluation of structure	132	Fuselage, except MDCD

25.571	Damage-tolerance and fatigue evaluation of structure	132 See 737- 800BC F Excepti ons table.	MDCD
25.571(b)(1), (b)(2), (b)(3), (b)(4), (b)(5) and (b)(6)	Damage-tolerance and fatigue evaluation of structure	132	Structural loads
25.607	Fasteners	23	
25.611	Accessibility provisions	123	
25.613	Material strength properties and material design values	112	
25.723	Shock absorption tests	103	
25.729	Retracting mechanism	136	
25.731	Wheels	107	
25.783	Fuselage Doors	114	
25.795	25.795(b)(1)	See 737- 800BC F Excepti ons table.	
	25.795(b)(2)	138	
25.807	Emergency exits	114	
25.810	Emergency egress assist means and escape routes	114	
25.811	Emergency exit marking	88	
25.812	Emergency lighting	128	Granted Exemption 17218 for 25.812(e)
25.813	Emergency exit access	128	Granted Exemption 17218 for 25.813(b)
25.831	Ventilation	89	
25.853	Compartment interiors	116	
25.855	Cargo or baggage compartments	123	
25.856	Thermal/Acoustic Insulation materials	111	
25.857	Cargo compartment classification	93	Granted Exemption 17218 for 25.875(e)
25.858	Cargo or baggage compartment smoke or fire detection systems	93	
25.903	Engines	100	
25.1301(a)	Function and installation	123	
25.1302	Installed systems and equipment for use by the flight-crew	137	
25.1309(a), (b), (c), (d), (e)	Equipment systems and installations	123	
25.1316	System lightning protection	134	
25.1317(a),(c)	High-intensity Radiated Fields (HIRF) Protection	122	
25.1329	Flight guidance system	119	
25.1353(a), (b), (c)	Electrical equipment and installations	123	
25.1357	Circuit protective devices	123	
25.1411	General	116	

25.1423	Public address system	115	
25.1431	Electronic equipment	113	
25.1435	Hydraulic systems	104	
25.1439	Protective breathing equipment	115	
25.1447	Equipment standards for oxygen dispensing units	116	Granted Exemption 17218 for 25.1447(c)(1)
25.1583	Operating limitations	130	
25.1585	Operating procedures	105	
25.1707(c)	System separation: EWIS	123	
26.21(b)	Limit of validity	26-6	
26.45(b)(c)	Holders of type certificates - Alterations and repairs to alterations	26-4	
21.93(b)	Classification of changes in type design	21-97	Acoustics
36.7	Acoustical change: Transport category large airplanes and jet airplanes	36-26	Acoustics
36.103	Noise limits	36-26	Acoustics

<u>Title 14, Code of Federal Regulations (14 CFR) part 25</u> as amended by Amendments 25-0 through 25-138 with exceptions requested and permitted by 14 CFR 21.101. These exceptions are noted below: Section No.	Title (or subparagraph)	Through Amdt [25-x]	Exception Applies To:
25.365(e)(1), (e)(2)	Pressurized compartment loads	0	Airplane
25.571(a)(b) (excluding (b)(1), (b)(2), (b)(3), (b)(4), (b)(5), (b)(6))	Damage-tolerance and fatigue evaluation of structure	86	Airplane Structures: o Fuselage o MDCD
25.795(b)(1)	Security considerations	N/A	Airplane
25.841(a)	Pressurized cabins	38	Airplane
25.1322(a),(b)	Flight crew alerting	38	ECS Cargo Fire Systems MDCD Door Mechanisms Flight Deck / Crew Operations
25.1703	Function and installation: EWIS	N/A	Airplane
25.1705	Systems and functions: EWIS	N/A	Airplane
25.1707 (No exception being sought for 25.1707(c))	System separation: EWIS	N/A	Airplane
25.1709	System safety: EWIS	N/A	Airplane
25.1711	Component identification: EWIS	N/A	Airplane

25.1713	Fire protection: EWIS	N/A	Airplane
25.1715	Electrical bonding and protection against static electricity: EWIS	N/A	Airplane
25.1717	Circuit protective devices: EWIS	N/A	Airplane
25.1719	Accessibility provisions: EWIS	N/A	Airplane
25.1721	Protection of EWIS	N/A	Airplane
25.1723	Flammable fluid fire protection; EWIS	N/A	Airplane
25.1725	Power-plants: EWIS	N/A	Airplane
25.1727	Flammable fluid shutoff means: EWIS	N/A	Airplane
25.1729	Instructions for Continued Airworthiness: EWIS	N/A	Airplane
25.1731	Power-plant and APU fire detector system: EWIS	N/A	Airplane
25.1733	Fire detector systems, general: EWIS	N/A	Airplane

Special Conditions:

The following Special Conditions are applicable to the 737-800BCF

Special Condition	Title	Effective Date
25-347-SC	Interaction of Systems and Structures	March 19, 2007

Exemptions:

The following Exemptions are applicable to the 737-800BCF

Exemption Number	Applicable Part 25 Section	Title	Date Issued	Comments
17218	25.785(j), 25.812(e), 25.813(b), 25.857(e), 25.1447(c)(1)	Carriage of Supernumeraries	February 24, 2017	

Equivalent Safety Findings (ELOS):

The following ELOS are applicable to the 737-800BCF

Equivalent Level of Safety (ELOS) Number	Applicable Regulations or Regulatory Guidance	Subject
AT8167SE-T-ES-1	14 CFR part 21.21(b)(1), 25.855, 25.857, 25.1309, 25.1585	Inadvertent Smoke Detection in Forward and Aft Lower Lobe Class C Cargo Compartments from a Smoke Source in a Main Deck Class E Compartment Boeing 747-400SF
PS05-0020-ES-3	14 CFR part 21.21(b)(1), 25.831(g), 25.1309(a)(b)(d)	Acceptable High Temperature Physiological Environment During Failure Conditions

Additional Design Requirements and Conditions (ADRC):

The following design features, requirements and information are included as part of the 737-800BCF certification basis. If these items are not maintained, compliance must be shown with the latest 14 CFR part 25 requirement(s) as amended by Amendment 25-1 through Amendment 25-138.

Section 25.571(a) and (b)

The following design features must be incorporated in the type design for the fuselage (including main deck

cargo door (MDCD).

1. For the 737-800BCF structure the damage tolerance evaluation must include inspection thresholds that are established based upon crack growth analysis and/or tests, assuming the structure contains an initial flaw of the maximum probable size that could exist as a result of manufacturing or service induced damage.
2. A limit of validity of the engineering data that supports the structural maintenance program, stated as a number of total accumulated flight cycles or flight hours or both, must be included in the applicable airworthiness limitations section of the instructions for continued airworthiness required by § 25.1529 (Reference: 14 CFR 26.21, Amendment 26-6).

Other Operating Limitations:

1. The 737-800BCF is not approved for ETOPS.

注释/NOTE 1.

下列编号飞机在TC Only状态下生产/The following Serial Numbers were produced under Type Certificate Only:

Model 737-700: 27841, 27842, 27843, 27835, 28100, 27836, 28004, 28005, 27837, 28209, 27838, 28100, 28101, 28102, 28088, 27839, 28210, 28103, 28840, 28089, 28006, 28107, 28108, 28099.

Model 737-800: 27977, 27978, 27979, 27980, 27981, 27982, 28068, 28069, 28213, 28373.

Model 737-600: 28288 thru 28293, 28296, 28297

注释/NOTE 2.

飞机按照批准的飞行手册运行，由FAA批准的飞机飞行手册、使用运行规章或合格审定基础三者要求的所有标牌必须安装在飞机上。737-600/-700/-800飞行手册的基础是波音文档D631A001。飞行手册中包括含抑制扰人抖杆指南的“空速不可靠”程序，与737-8的程序（737-8程序参见CAD2021-B737-19）协调一致，与该程序相关联的失速警告系统抖杆跳开关按键（带有颜色的键帽）必须按照波音服务通告737-27-1322进行安装。

Airplane operation must be in accordance with the FAA Approved AFM. All placards required in either the FAA Approved AFM, the applicable operating rules or the Certification Basis must be installed in the airplane. Boeing Document No. D631A001 is the basic FAA Approved Airplane Flight Manual for Model 737-600/-700/-800 airplanes. The Airplane Flight Manual includes the "Airspeed Unreliable (E)" procedure with guidance for disabling of the nuisance stick shaker to harmonize with the 737-8 procedure (Refer CAD2021-B737-19 for the procedure of 737-8), The Stall Warning System – Stick shaker Circuit Breakers Button (Colored Cap) relevant to this procedure must be installed according to Boeing Service bulleting 737-27-1322.

注释/NOTE 3.

符合CCAR25.571所要求的结构检查和安全寿命部件的到寿时间列在Boeing 737-600/700/800技术维修计划文档D626A001-CMR中。Boeing 737-800BCF技术维修计划文档列在D140A006中，D140A006在D626A001文件的基础上为737-800 BCF飞机提供了补充的适航限制。关

于适航限制和审定维修的第九部分。所有的生产线序列号715和往后的737-600/700/700IGW/800飞机必须满足2000年6月或者之后FAA批准的版本中包含的“损伤容限结构检查”。/Required structural inspections for compliance with FAR 25. 571 and the retirement times for safe-life parts are listed in the FAA Approved Airworthiness Limitations and Certification Maintenance Requirements Section 9 of Boeing 737-600/700/800 Maintenance Planning Document D626A001-CMR, or D140A006 for Boeing 737-800BCF. D140A006 provides supplemental airworthiness limitations for 737-800BCF in addition to the requirements in D626A001. All 737-600/700/700IGW/800 airplanes with line numbers 715 and on must comply with the Damage Tolerance Structural Inspections contained in revision June 2000 or later FAA-approved revision

注释/NOTE 4.

737增重型/Model 737-700 Increased Gross Weight (IGW):

当飞机不用于出租或者普通货运时批准下列豁免（批准日期1998年10月5日，第6820号豁免）

The following exemptions have been granted when the airplane is not operated for hire, or for common carriage (Granted October 5, 1998, Exemption No. 6820):

§25.785(h)(2) Flight Attendant Seat Locations which do not Provide for Direct View of the Cabin,

§25.813(e) Installation of Interior Doors in between passenger compartments,

§25.853(d) Interior materials that do not comply with Heat Release and Smoke Emissions Requirements.

(Granted February 17, 1999, Exemption No. 6820A);

§25.807(d)(7) Distance Between Exits.

§25.813(e) Installation of Interior Doors in between passenger compartments

§25.853(d) Interior materials that do not comply with Heat Release and Smoke Emissions Requirements.

可以安装在737-700IGW上的发动机型别取决于其预期的运营用途。参见各个飞机飞行手册，安装CFM56-7B26 或CFM56-7B26/B1 或CFM56-7B27/B3。

Acceptable engine model installed on a 737-700 IGW is dependent on type of intended in-service use. See the individual Airplane Flight Manual for approved installation of either the CFM56-7B26 or CFM56-7B26/B1 or CFM56-7B27/B3.

注释/NOTE 5.

737-600, -700,和-800飞机的型号设计可靠性和性能已经按照FAA咨询通告AC 120-42A 进行了评估，在按照波音文件D044A007的《737-600/-700/-800构型，维护和程序》使用和维护时，适合双发延程运行。另外，在2007年2月15日后进行的需申请ETOPS批准的型号设计更改已按14 CFR 25.1535进行了评估，在按照波音文件D044A007运行和维护的情况下，适合延程（ETOPS）运行。此条不构成ETOPS运行

批准。737-800型号飞机改装为737-800BCF型号飞机ETOPS运行未获得批准。/The type design reliability and performance of the Model 737-600, -700, and -800 airplanes have been evaluated in accordance with FAA Advisory Circular 120-42A and found suitable for Extended Range Operations with Two-Engine Airplanes (ETOPS) when operated and maintained in accordance with Boeing Document D044A007, "737-600/-700/-800 ETOPS CONFIGURATION, MAINTENANCE, AND PROCEDURES". Additionally, type design changes incorporated after February 15, 2007 that require ETOPS approval have been evaluated in accordance with 14 CFR 25.1535 and found suitable for Extended Operations (ETOPS) when operated and maintained in accordance with Boeing Document D044A007. This finding does not constitute approval to conduct ETOPS operations. Model 737-800 airplanes converted to 737-800BCF are not approved for ETOPS.

注释/NOTE 6.

The FAA has determined that the occurrence of any uncontrollable high thrust failure condition "may endanger the safe operation of an airplane" and hence is reportable under FAR 121.703, 125.409, and 135.415.

注释/NOTE 7:

Mandatory replacement times, inspection intervals, related inspection procedures and all critical design configuration control limitation for the fuel tank system determined during the Special Federal Aviation Regulation No. 88 program and for compliance with 14 CFR 25.981 and Special Condition 25-308-SC are listed in the FAA-approved Airworthiness Limitations and Certification Maintenance Requirement, Section 9, of Boeing 737-600/700/700C/700IGW/800/900 Maintenance Planning Data Document D626A001-CMR, Revision December 2005 or later FAA-approved revision. All Model 737-700, -800, and -600 series airplanes, production line number 1679 and on, must comply with Revision March 2006, or a later FAA-approved revision. The FAA is planning to issue an airworthiness directive mandating compliance with Revision March 2006, or a later FAA-approved revision, applicable to all Model 737-600, -700, -700C, -800, and -900 series airplanes with production numbers lower than 1679.

注释/NOTE 8:

包含后续经批准的版本。
Including the subsequent approved version(s).

VI. Model 737-900 (Approved April 17, 2001; CAAC Validated on June 9, 2005) Transport Aircraft.

发动机/Engines:

两台CFM56-7B, -7B/3或-7BE系列涡轮发动机, 参见飞行手册的发动机限制。/Two CFM 56-7B, -7B/3或-7BE Series Turbofan Engines. Refer to the FAA Approved Airplane Flight Manual for engine limitations.

注/Note:

CFM56-7B系列发动机CAAC VTC证书编号VTC0077E, Rev.5; /The CAAC VTC No. of CFM56-7B Serial engines is VTC0077E, Rev.6;

燃油/Fuel:

燃油满足下述规范，及经批准的混合使用/Fuels meeting the following specifications and mixtures thereof are approved for use:

- * Jet A, Jet A-1 as specified in ASTM-D1655
- * JP-5 as specified in MIL-T-5624
- * JP-8 as specified in MIL-T-83133
- * No.3 Jet Fuel as specified in GB 6537

Fuels conforming to G.E. Specification D50TF2 (Class A, C, D and E) or fuels produced or certified to other specifications and having properties meeting the requirements of the above specifications are acceptable for use. Consult Flight Manual for additive use.

批准使用满足中华人民共和国国家标准“3号喷气燃料”（GB 6537）规范要求的燃油。

Approved to use the fuels that meet the requirements in the National Standard of the People's Republic of China “No.3 Jet Fuel” (GB 6537) Specification.

滑油消耗/Oil Consumption:

For compliance with FAR 25.1011(b), the approved maximum oil consumption rate for the CFM56-7B engines installed on this model airplane has been established as 0.340 gallons per hour. Operation of the Model 737-900 airplane with engine oil consumption rates higher than this limit is not permitted.

Engine Ratings/
发动机功率

Model 737-900

Takeoff static thrust,
standard day, sea level
conditions (5 min) lb./ 海
平面标准天气起飞静推
力, 磅

Maximum continuous static
thrust, standard day, sea level
conditions lb./海平面标准天
气最大连续静推力, 磅

CFM56-7B24	24,200	22,800
CFM56-7B24/3	24,200	22,800
CFM56-7B24E	24,200	22,800
CFM56-7B24/3B1**	24,200	22,800
CFM56-7B24E/B1**	24,200	22,800
CFM56-7B26	26,300	25,900
CFM56-7B26/3	26,300	25,900
CFM56-7B26E	26,300	25,900
CFM56-7B26/3F	26,300	25,900
CFM56-7B26E/F	26,300	25,900
CFM56-7B26/B1	26,300	25,900
CFM56-7B27	27,300	25,900
CFM56-7B27/3	27,300	25,900
CFM56-7B27E	27,300	25,900
CFM56-7B27/3F	27,300	25,900
CFM56-7B27E/F	27,300	25,900

CFM56-7B27/B1	27,300	25,900
CFM56-7B27/3B1	27,300	25,900
CFM56-7B27E/B1	27,300	25,900
CFM56-7B27/3B1F	27,300	25,900
CFM56-7B27E/B1F	27,300	25,900
CFM56-7B27/B3	27,300	25,900
CFM56-7B27/3B3	27,300	25,900
CFM56-7B27E/B3	27,300	25,900

** 特殊功率/Special Rating

发动机运行限制参见数据单E00055EN或 E00056EN 或飞行手册。/For engine operating limits see Engine Type Certificate Data Sheet No. E00055EN or E00056EN or the FAA Approved Airplane Flight Manual.

推力设置/Thrust Settings: 必须使用经过批准的飞机的飞行手册和AFM附录中相应的发动机功率设定曲线来控制发动机推力。/The appropriate engine power setting curve (%N1), in the FAA Approved Airplane Flight Manual or AFM Appendices must be used for control of engine thrust.

速度限制/Airspeed Limits: VMO/MMO - 340/0.82 (KCAS)

关于其他的空速限制参见适当的FAA批准的飞行手册列出的注释2/For other airspeed limits see the appropriate FAA Approved Airplane Flight Manual listed in Note 2.

重心范围/C. G. Range: 参见适当的FAA批准的飞行手册列出的注释2/See the appropriate FAA Approved Airplane Flight Manual listed in Note 2.

最大重量/Maximum Weights: 737-900

参见737-900的限制部分在第七部分后面的注释4 /Please see Note 4 at the end of Section VII for limitations which may be applicable

to the 737-900 airplanes

最大载客重量/Maximum Taxi Weight (MTW)	174,700 lbs.
最大起飞重量/Maximum Takeoff Weight (MTOW)	174,200 lbs.
最大着陆重量/Maximum Landing Weight (MLW)	146,300 lbs.
最大零燃油重量/Maximum Zero Fuel Weight (MZFW)	140,300 lbs.

Model 737-900 Eligible Serial Numbers:

737-9B5	29987-30002
737-9K2	29599-29602, 32944
737-97L	33644-33646, 33648, 33649
737-95R	30412, 33740
737-924	30118-30129
737-990	30013-30019, 30021, 30029, 30856, 30857, 33679,

33680

最小飞行机组
/Minimum Crew

for All Flights: 2 (飞行员和副驾驶/Pilot and Copilot)

最大载客数 全客型/Passenger only mode 189

/Maximum
Passengers:

最大行李舱载荷/

Maximum Baggage Cargo: 参见适当的重量平衡手册, Boeing文件D043A590/See appropriate Weight and Balance Manual, Boeing Document No. D043A590

燃油和滑油容量/

Fuel & Oil Capacities: 看适当的重量平衡手册, Boeing文件D043A590/See appropriate Weight and Balance Manual, Boeing Document No. D043A590

最小燃油需求量/

Minimum Required Fuel: 参见适当的FAA批准的飞行手册列出的注释2/See appropriate FAA Approved Airplane Flight Manual listed in Note 2.

最大运行高度/

Maximum Operating /Altitude: 41,000英尺/ft.

基准/Datum:

看适当的重量平衡手册, Boeing文件D043A590/See appropriate Weight & Balance Manual, Boeing Document No. D043A590

平均气动弦/MAC:

155.81英寸/ in

其他运行限制/

Other Operating Limitations: 参见FAA批准的飞行手册/see FAA Approved Airplane Flight Manual Appendices

操纵面运动量/

Control Surface Movements: 为确保使用, 不同操纵面运动量应通过相应的飞行控制系统的装配严格控制, 飞机必须按照下述批准的图纸装配。/To insure proper operation of the airplane, the movements of the various control surfaces must be carefully controlled by proper rigging of the flight control systems. The airplanes, must, therefore, be rigged according to the following FAA Approved data:

波音图纸号/Boeing Drawing Numbers:

114A1001, 克鲁格襟翼安装-机翼前缘内侧/Krueger Flap Instl - Inbd Wing L.E.

251A1001, 横向和减速板控制装备说明/Rigging Instructions, Lateral & Speedbrake Control

251A2001, 升降舵控制系统装备说明/Rigging Instructions, Elevator Control System
 251A3001, 方向舵控制系统装备说明/Rigging Instructions, Rudder Control System
 251A4001, 安定面配平控制系统装备说明/Rigging Instructions, Stabilizer Trim Control
 256A3001, 襟翼作动装备说明 Rigging Instructions - Flap Actuation
 256A2284, 襟翼前缘缝翼传感器安装-机翼前缘/ Flap.Slat Sensor Instl - Leading Edge, Wing

审定基础/Certification Basis:

A. 联邦航空规章 25 部修正案 1 至 91 号修正案，下述条款除外/Part 25 of the Federal Aviation Regulations as amended by Amendments 25-1 through 25-91 with the exceptions listed below:

<u>SECTION NO.</u>	<u>TITLE</u>	<u>AT AMDT. 25.-</u>
25.365	Pressurized Compartment Loads	0
25.562	Emergency Landing Dynamic Conditions	64*
25.607	Fasteners	0,91**
25.631	Bird Strike Damage	0,91**
25.699	Lift and Drag Device Indicator	0,91**
25.783(f)	Doors	15,91**
25.807(c)(3)	Emergency Exits	15
25.813	Emergency Exit Access	45,91**
25.831(a) & (g)	Ventilation	41
25.832	Cabin Ozone Concentration	0***
25.841(a)	Pressurized Cabins	38
25.853(d)(3)	Compartment Interiors	72
25.904	Automatic Takeoff Thrust Control System	不符合 (25-82新增)
25.1141	Power Plant Controls: General	11****
25.1309	Equipment, Systems and Installations	0,91**
25.1419(c)	Ice Protection	23,91**
25.1447(c)(3)(ii)	Equipment Standards for Oxygen Dispensing Units	41

* Flight attendant seats are qualified to:

1. Technical Standard Order (TSO) C127, dated March 30, 1992, or
2. TSO C127a, and

Head Injury Criteria data collected and reported by the TSO applicant is less than 1000 and,

Femur Injury Criteria data collected and reported by the TSO applicant is less than 2250 pounds, and,

Permanent deformation data collected and reported by the TSO applicant are in compliance with the requirements of FAA Advisory Circular (AC) 25.562-1A.

Passenger and crew seats in the flight deck comply with § 25.562(a),(b), ((c)(1),(2),(3),(4),(7), and (8)). In addition

flight deck observer seats will comply with § 25.562((c)(5)).

** Applicable to new and significantly modified structure and systems and portions of the airplane affected by these changes. Where two amendment levels are shown for the same paragraph, the number without the asterisk (*) applies to structures, systems and portions of the airplane which are not new or significantly modified. The structure, systems, and components which comply with the later amendment are identified in Boeing document D010A001, approved by the FAA and JAA, and referenced on the TCDS..

*** Boeing provides FAA approved data (Document number D6-49779) to 737 operators to enable the operators to show ozone compliance per §121.578 for their specific route structures.

**** Exception applies to Auxiliary Power Unit spar mounted fuel shut off valve only. All other power plant controls were shown to comply with § 25.1141 at amendment 25-91.

Amendment level "0" is the original published version of Part 25 (February 1, 1965).

此外，波音自愿符合下述晚于91号修正案的修正案水平

In addition, Boeing has volunteered to comply with the following amendment levels later than amendment 25-91.

25.101	92	Performance; General
25.105	92	Takeoff
25.107	94	Takeoff Speeds
25.109	92	Accelerate Stop Distance
25.113	92	Takeoff Distance and Takeoff Run
25.115	92	Takeoff Flight Path
25.571(e)(1)	96	Damage Tolerance and Fatigue Evaluation of Structure
25.735	92	Brakes
25.855	93	Cargo or Baggage Compartments
25.857	93	Cargo Compartment Classification
25.858	93	Cargo or Baggage Compartment Smoke or Fire Detection
25.1533	92	Additional Operating Limitations

专用条件/Special Conditions:

Limit Engine Torque Loads for Sudden Engine Stoppage.

High Intensity Radiated Fields (HIRF) Protection.

Special Conditions No.25-386-SC, published in the Federal Register on August 7, 2009, addressed 737-600/-700/-700C/-800/-900 and 900ER series airplanes with inflatable lapbelts installed.

等效安全/Equivalent Safety Findings:

- § 1.2 Abbreviations and Symbols
- § 25.21 Proof of Compliance
- § 25.103 Stalling Speed
- § 25.107 Takeoff Speeds

§ 25.111	Takeoff Path
§ 25.119	Landing - Climb: All engines operating
§ 25.121	Climb - One engine operative
§ 25.125	Landing
§ 25.143	General - Controllability and Maneuverability
§ 25.145	Longitudinal Control
§ 25.147	Directional and Lateral Control
§ 25.149	Minimum Control Speed
§ 25.161	Trim
§ 25.175	Demonstration of Static Longitudinal Stability
§ 25.177	Static Directional and Lateral Stability
§ 25.181	Dynamic Stability
§ 25.201	Stall Demonstration
§ 25.207	Stall Warning
§ 25.231	Longitudinal Stability and Control
§ 25.233	Directional Stability and Control
§ 25.237	Wind Velocities
§ 25.395(a)	Control Systems
§ 25.613	Material Strength Properties and Design Values.
§ 25.735	Brakes
§ 25.773	Pilot Compartment View
§ 25.791	Passenger Information Signs and Placards
§ 25.810 (a)(1)(ii)	Escape Slides
§ 25.811(f)	Emergency Exit Markings
§ 25.813(c)(1)	Emergency Exit Access (for Type III Automatic Overwing Exit)
§ 25.813(c)(2)(i)	Emergency Exit Access (for Type III Automatic Overwing Exit)
§ 25.853(f)	Compartment Interiors
§ 25.933(a)	Reversing Systems
§ 25.979(b)(1)	Pressure Fueling System
§ 25.1001	Fuel Jettison System
§ 25.1323	Airspeed Indication Systems
§ 25.1325	Static Pressure Systems
§ 25.1389(b)(3)	Wing Tip Position Lights
§ 25.1549(b)	Equivalent Level of Safety (ELOS) Finding for Powerplant And Auxiliary Power Unit Instruments (S-1)
§ 25.1587	Performance Information

豁免/Exemptions:

- § 25.1435(b)(1) Hydraulic Systems (Originally granted May 17, 1995, Exemption No. 6086).
- § 25.562(b)(2) Emergency Landing Dynamic Conditions - related to Flight Deck Testing (Originally granted August 20, 1999, Exemption No. 6425A).
- § 25.901(c) Partial Exemption – No single powerplant or auxiliary power unit failure will jeopardize the safe operation of the airplane. (Originally granted February 4, 2003,

Exemption No. 7968) See NOTE 5.

§25.901(c) and § 25.981(a)(3) - Exemption from 14 CFR 25.901(c), Amendment 25-126, and 25.981(a)(3), Amendment 25-102 or later, pertaining to fuel tank ignition prevention associated with the fuel quantity indication systems (FQIS) on in-service and newly-produced Model 737-600/-700/-800/-900/-900ER (737NG) airplanes. (Time-limited Exemption No. 10905, Originally granted December 18, 2013, Expires December 18, 2017; Exemption No. 10905A granted December 13, 2017, Exemption No 10905B granted September 28, 2018)

FAR Part 34:

Part 34 of the FAR as amended at the time of certification.

FAR Part 36:

Part 36 of the FAR as amended at the time of certification.

B. Joint Aviation Authorities (JAA) Certification Basis: For Model 737-900 please see Boeing 737 JAA Data Sheet No. JAA/25/97-018.

C Certification basis for 25.981(c) at amendment 25-102, and Special Conditions 25-308-SC, issued on December 25, 2005, for the flammability reduction system (FRS), is applied if fuel tank inerting is installed in new airplane production or as a modification. Airworthiness limitations for the FRS are contained in Section 9 of the applicable Maintenance Planning Document.

审定维修要求/

Certification Maintenance

Requirements (CMR's)

The CMR's are listed in either the FAA approved Section 9 of Boeing Maintenance Planning Data Document D626A001-CMR, revision March 2001 or later FAA approved revision, or the applicable engine Type Certification Data Sheet. The more restrictive requirement from these two documents shall be in force.

生产基础/Production Basis: 生产许可证700号/Production Certificate No. 700

必要设备/Required Equipment: 适用的适航要求（见审定基础）所规定的基础设备必须安装到合格审定的飞机上。所要求的设备在型号设计资料中。The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the aircraft for certification. The required equipment is noted in the Type Design data.

服务信息/Service Information: 参见波音的结构维修手册，如果服务通告和其他服务信息被批准的话，FAA会对其作出声明。/The following Boeing “Structural Repair Manual” Documents are FAA-approved. Service Bulletins and other service information, when FAA-approved, will carry a statement to that effect. D634A211 for the 737-900.

重心范围/C.G. Range: 参见适当的FAA批准的飞行手册列出的/ See the appropriate FAA Approved Airplane Flight Manual listed.

第6部分注释NOTES FOR SECTION VI:

- 注释/NOTE 1. 包括合格审定空重的设备清单和必要的装载说明的现行的重量平衡报告必须在最初的审定时提供给每一架飞机/A current weight and balance report including list of equipment included in the certificated empty weight, and loading instructions when necessary must be provided for each aircraft at the time of original certification.
- 注释/NOTE 2. 飞机按照批准的飞行手册运行，由FAA批准的飞机飞行手册、使用运行规章或合格审定基础三者要求的所有标牌必须安装在飞机上。737-900飞行手册的基础是波音文档D631A001。飞行手册中包括含抑制扰人抖杆指南的“空速不可靠”程序，与737-8的程序（737-8程序参见CAD2021-B737-19）协调一致，与该程序相关联的失速警告系统抖杆跳开关按键（带有颜色的键帽）必须按照波音服务通告737-27-1322进行安装。
Airplane operation must be in accordance with the FAA Approved AFM. All placards required in either the FAA Approved AFM, the applicable operating rules or the Certification Basis must be installed in the airplane. Boeing Document No. D631A001 is the basic FAA Approved Airplane Flight Manual for Model 737-900 airplane. The Airplane Flight Manual includes the "Airspeed Unreliable (E)" procedure with guidance for disabling of the nuisance stick shaker to harmonize with the 737-8 procedure (Refer CAD2021-B737-19 for the procedure of 737-8), The Stall Warning System – Stick shaker Circuit Breakers Button (Colored Cap) relevant to this procedure must be installed according to Boeing Service bulleting 737-27-1322.
- 注释/NOTE 3. 符合CCAR25.571所要求的结构检查和安全寿命部件的到寿时间列在Boeing 737-600/700/800/900技术维修计划文档D626A001-CMR.关于适航限制和审定维修的第九部分（2001年3月及其后续版本）。/Required structural inspections for compliance with FAR 25.571 and the retirement times for Safe-life parts are listed in the FAA Approved Airworthiness Limitations and Certification Maintenance Requirements Section 9 of Boeing 737-600/700/800/900 Maintenance Planning Document D626A001-CMR, Revision March 2001 or later FAA-approved revision.
- 注释/NOTE 4. 737-900飞机的型号设计可靠性和性能已经按照FAA咨询通告AC 120-42A 进行了评估，在按照波音文件D044A007的《737-600/-700/-700C/-800/-900构型，维护和程序》使用和维护时，适合双发延程运行。另外，在2007年2月15日后进行的需申请ETOPS批准的型号设计更改已按14 CFR 25.1535进行了评估，在按照波音文件D044A007运行和维护的情况下，适合延程（ETOPS）运行。此条不构成ETOPS运行批准。/The type design reliability and performance of the Model 737-900, airplane has been evaluated in accordance with FAA Advisory Circular 120-42A and found suitable for Extended Range Operations with Two-Engine Airplanes (ETOPS) when operated and maintained in accordance with Boeing Document D044A007, “737-

600/-700/-700C/-800/-900 ETOPS CONFIGURATION, MAINTENANCE, AND PROCEDURES”. Additionally, type design changes incorporated after February 15, 2007 that require ETOPS approval have been evaluated in accordance with 14 CFR 25.1535 and found suitable for Extended Operations (ETOPS) when operated and maintained in accordance with Boeing Document D044A007. This finding does not constitute approval to conduct ETOPS operations.

注释/NOTE 5. The FAA has determined that the occurrence of any uncontrollable high thrust failure condition “may endanger the safe operation of an airplane” and hence is reportable under FAR 121.703, 125.409, and 135.415.

注释/NOTE 6: Mandatory replacement times, inspection intervals, related inspection procedures and all critical design configuration control limitation for the fuel tank system determined during the Special Federal Aviation Regulation No. 88 program and for compliance with 14 CFR 25.981 and Special Conditions 25-308-SC are listed in the FAA-approved Airworthiness Limitations and Certification Maintenance Requirement, Section 9, of Boeing 737-600/700/700C/700IGW/800/900 Maintenance Planning Data Document D626A001-CMR, Revision November 2005 or later FAA-approved revision. All Model 737-900 series airplanes, production line number 1679 and on, must comply with Revision March 2006, or a later FAA-approved revision. The FAA is planning to issue an airworthiness directive mandating compliance with Revision March 2006, or a later FAA-approved revision, applicable to all Model 737-600, -700, -700C, -800, and -900 series airplanes with production numbers lower than 1679.

VII. Model 737-900ER (Approved April 20, 2007; CAAC Validated on January 27, 2015) Transport Aircraft.

1. 总则/General

- | | |
|--------------------------------------|--|
| 1. 型别/Model: | 737-900ER |
| 2. 适航类别/Airworthiness Category: | 运输类航空器/Transport Category Aircraft |
| 3. 型号合格证持有人/Type Certificate Holder: | The Boeing Company
737 Logan Ave N
Renton, WA 98057-0000 |
| 4. FAA 批准日期/FAA Approved Date: | 2007.4.20/20 Apr 2007 |
| 5. CAAC 批准日期/CAAC Approved Date: | 2015.1.27/27 Jan 2015 |

2. 认可审定基础/Validation Certification Basis

CAAC的认可审定基础由FAA的审定基础（详见FAA型号合格证数据单：编号A16WE, Revision 53中的737-900ER型别的审定基础），和CAAC的附加技术条件组成，并增加FAA豁免：

“ §25.901(c) and § 25.981(a)(3) - Exemption from 14 CFR 25.901(c), Amendment 25-126, and 25.981(a)(3),

Amendment 25-102 or later, pertaining to fuel tank ignition prevention associated with the fuel quantity indication systems (FQIS) on in-service and newly-produced Model 737-600/-700/-800/-900/-900ER (737NG) airplanes. (Time-limited Exemption No. 10905, Originally granted December 18, 2013, Expires December 18, 2017; Exemption No. 10905A granted December 13, 2017, Exemption No 10905B granted September 28, 2018)”

等效安全/Equivalent Safety Findings:

<u>SECTION NO.</u>	<u>TITLE</u>
§25.1549(b)	Equivalent Level of Safety (ELOS) Finding for Powerplant And Auxiliary Power Unit Instruments (S-1)

此外，不包括FAA审定基础中的豁免：“FAA Exemption 9791, FAA Exemption 9791B, FAA Exemption 9791C.”

CCAR-26《运输类飞机的持续适航与安全改进》：适用条款已包括在审定基础中，对于 CCAR-26 的任何修订，本 TC 持有人必须证明对适用条款的符合性。

CCAR-26 – Continued Airworthiness and Safety Improvements for Transport Category Airplanes: applicable provisions of Part 26 have been included in the certification basis. For any future Part 26 amendments, the holder of this TC must demonstrate compliance with the applicable sections.

中国民用航空局附加技术条件/CAAC Additional Technical Conditions.

交付到中国的每一架 737-900ER 飞机须满足下述附加技术条件：

Each of Model 737-900ER aircraft delivered to China shall meet the following Additional Technical Conditions:

(1) 必须符合 FAA 颁布的所有适用的适航指令；

All applicable airworthiness directives (ADs) issued by the FAA shall be complied with.

(2) 在每一航空器上必须安装快速存储器（QAR）（参照中国适航指令 CAD-97-MULT-38）；

Quick Access Recorder (QAR) must be installed on each aircraft (reference to CAD97-MULT-38).

(3) 高度测量组件应至少采用米制高度显示（参照 CCAR 121.301(d)）；

The altimeter measure unit shall be indicated in meter at least (reference to CCAR 121.301(d)).

(4) 必须确定符合“GB6537-2006 3 号喷气燃料”规范的燃料的可接受性；

The acceptance of fuel conforming the Specification GB6537-2006 “No.3 Jet Fuel” must be defined.

(5) 厕所垃圾箱灭火器所使用的灭火剂的要求（参照 CAAC 适航指令 CAD2012-MULT-09）；

The requirements about lavatory disposal receptacle Fire Extinguishing agent (reference to CAAC Airworthiness Directive CAD2012-MULT-09).

(6) 标牌要求/Placard Requirements :

(a) 根据 CCAR 21.29(5)，有关适航规章、噪声规定所要求的手册、标牌、目录清单和仪表标记应当用中文或者英文书写，下列各项应当至少有中文表述：/Per CCAR 21.29(5), the manuals, placards, listings and instrument markings required by the applicable airworthiness regulations and noise requirements are presented in the Chinese or English language. The following items must be presented in Simplified Chinese at least:

1) 机上所有对旅客进行的提示、警告和通知的文字标记和标牌；/ All on-board placard and marking for awareness, warning, and note to the passenger;

2) 机上所有向旅客或者机外营救人员指示应急出口和门的位置以及开启方法的文字标记和标

牌; /All on-board placard and marking for opening method and location indication of the emergency exit and door to passenger and outside rescuer; and

3) 旅客可能使用的机上所有应急设备的操作、使用说明。/All operational instructions for on-board emergency equipments possible operated by passengers shall be presented in Simplified Chinese at least.

(b) 中文字符的尺寸需符合 CCAC 25.811(e)(4)(iii)和 CCAR25.812 的要求。/ The dimension of the Chinese characters shall comply with the provision of the CCAR 25.811 (e) (4) (iii) and CCAR 25.812 as applicable.

(c) 所有中文手册、标牌、目录清单和仪表标记必须表达正确。/All of the manuals, placards and marking, listings and instrument markings presented in the Chinese must be correct.

(7) 民航发[2012]30 号文《关于运输类飞机点火源防护追溯要求的通知》的要求, 技术上与 SFAR88 等效。

The requirements of CAAC Civil Aviation Order – Retrospective Requirements for Transport Category Airplane Ignition Sources Prevention (CAO No. 2012-30), which are technically covered by SFAR88.

3. 技术特征和运行限制/Technical Characteristics and Operational Limitations

发动机/Engines:

两台CFM56-7B, -7B/3或-7BE系列涡轮发动机, 参见FAA批准的飞行手册的发动机限制。(见注释2) /Two CFM 56-7B, -7B/3或-7BE Series Turbofan Engines. Refer to the FAA Approved Airplane Flight Manual for engine limitations. (See Note 2)

注/Note:

CFM56-7B系列发动机CAAC VTC证书编号VTC0077E, Rev.5; /The CAAC VTC No. of CFM56-7B Serial engines is VTC0077E, Rev.6;

燃油/Fuel:

燃油满足下述规范, 及经批准的混合使用/Fuels meeting the following specifications and mixtures thereof are approved for use:

- * Jet A, Jet A-1 as specified in ASTM-D1655
- * JP-5 as specified in MIL-T-5624
- * JP-8 as specified in MIL-T-83133
- * No.3 Jet Fuel as specified in GB 6537

Fuels conforming to G.E. Specification D50TF2 (Class A, C, D and E) or fuels produced or certified to other specifications and having properties meeting the requirements of the above specifications are acceptable for use. Consult Flight Manual for additive use.

批准使用满足中华人民共和国国家标准“3号喷气燃料”(GB 6537) 规范要求的燃油。

Approved to use the fuels that meet the requirements in the National Standard of the People's Republic of China “No.3 Jet Fuel” (GB 6537) Specification.

滑油消耗/Oil Consumption: 关于25.1101(b)的符合性, 安装CFM56-7B发动机的该型飞机批准的最大滑油消耗率为0.340美加仑每小时, 运行中不允许超过该限制。
For compliance with FAR 25.1011(b), the approved maximum oil consumption rate for the CFM56-7B engines installed on this model airplane has been established as 0.340 gallons per hour. Operation of the Model 737-900ER airplane with engine oil consumption rates higher than this limit is not permitted.

发动机功率 /Engine Ratings	Model 737-900ER	Takeoff static thrust, standard day, sea level conditions (5 min) lb./ 海 平面标准天气起飞静推 力, 磅	Maximum continuous static thrust, standard day, sea level conditions lb./海平面标准天 气最大连续静推力, 磅
	CFM56-7B24	24,200	22,800
	CFM56-7B24/3	24,200	22,800
	CFM56-7B24E	24,200	22,800
	CFM56-7B24/3	24,200	22,800
	CFM56-7B24E	24,200	22,800
	CFM56-7B24/3B1**	24,200	22,800
	CFM56-7B24E/B1**	24,200	22,800
	CFM56-7B26	26,300	25,900
	CFM56-7B26/3	26,300	25,900
	CFM56-7B26E	26,300	25,900
	CFM56-7B26/3F	26,300	25,900
	CFM56-7B26E/F	26,300	25,900
	CFM56-7B26/B1	26,300	25,900
	CFM56-7B27	27,300	25,900
	CFM56-7B27/3	27,300	25,900
	CFM56-7B27E	27,300	25,900
	CFM56-7B27/3F	27,300	25,900
	CFM56-7B27E/F	27,300	25,900
	CFM56-7B27/B1	27,300	25,900
	CFM56-7B27/3B1	27,300	25,900
	CFM56-7B27E/B1	27,300	25,900
	CFM56-7B27/3B1F	27,300	25,900
	CFM56-7B27E/B1F	27,300	25,900
	CFM56-7B27/B3	27,300	25,900
	CFM56-7B27/3B3	27,300	25,900
	CFM56-7B27E/B3	27,300	25,900
** 特殊功率/Special Rating			

发动机和重量限制/Engine and Weight Limits

发动机运行限制参见数据单E00055EN或 E00056EN 或FAA批准的飞行手册(见注释2)。适用于737-900ER型飞机的其他限制见注释8./For engine operating limits see Engine Type Certificate Data Sheet No. E00055EN or E00056EN or the FAA Approved Airplane Flight Manual. (See Note 2) . Additional limitations may apply to 737-900ER model airplanes. (See Note 8).

推力设置/Thrust Settings: 必须使用经过FAA批准的飞机的飞行手册和AFM附录中相应的发动机功率

设定曲线来控制发动机推力。/The appropriate engine power setting curve (%N1), in the FAA Approved Airplane Flight Manual or AFM Appendices must be used for control of engine thrust.

速度限制/Airspeed Limits: VMO/MMO - 340/0.82 (KCAS)
关于其他的空速限制参见适当的FAA批准的飞行手册列出的注释2。/For other airspeed limits see the appropriate FAA Approved Airplane Flight Manual listed in Note 2.

重心范围/C. G. Range: 参见注释2列出的适当的FAA批准的飞行手册。/See the appropriate FAA Approved Airplane Flight Manual listed in Note 2.

最大重量/Maximum Weights: 737-900ER
最大载客重量/Maximum Taxi Weight (MTW)
最大起飞重量/Maximum Takeoff Weight (MTOW)
最大着陆重量/Maximum Landing Weight (MLW)
最大零燃油重量/Maximum Zero Fuel Weight (MZFW)

型号/Model 适用的生产序号/Eligible Serial Numbers:
737-9KFER 41114, 41118, 41119

最小飞行机组
/Minimum Crew
for All Flights: 2 (飞行员和副驾驶/Pilot and Copilot)

最大载客数
/Maximum
Passengers: 基于中间机身应急门的启用情况和分类情况有三种出口构型/ Three exit configuration based on the activation and classification of the Mid-Cabin Emergency Door (MED)
中间机身应急门未启用，两种舱门布置时最大客座量189 /Two door arrangement with MED de-activated has 189 maximum passenger capacity
中间机身应急门启用且定义为II型出口，三种舱门布置时最大客座量为215座/Three door arrangement with MED activated and rated as a Type II exit – 215 maximum passenger capacity
中间机身应急门启用且定义为I型出口，三种舱门布置时最大客座量为220座/ Three door arrangement with MED activated and rated as a Type I exit – 220 maximum passenger Capacity.

最大行李舱载荷/
Maximum Baggage Cargo: 参见注释1和适当的重量平衡手册，Boeing文件D043A590/See Note 1 and appropriate Weight and Balance Manual, Boeing Document No. D043A590

燃油和滑油容量/
Fuel & Oil Capacities: 参见注释1和适当的重量平衡手册，Boeing文件D043A590/See Note 1 and appropriate Weight and Balance Manual, Boeing Document No. D043A590

最小燃油需求量/
Minimum Required Fuel: 参见注释2列出的适当的FAA批准的飞行手册/See appropriate FAA Approved

Airplane Flight Manual listed in Note 2.

最大运行高度/

Maximum Operating /Altitude: 41,000英尺/ft.

基准/Datum:

参见适当的重量平衡手册, Boeing文件D043A590/See appropriate Weight & Balance Manual, Boeing Document No. D043A590.

平均气动弦/MAC:

155.81英寸/ in

其他运行限制/

Other Operating Limitations: 参见注释4 – 双发延程飞行/See Note 4 – Extended Range Two – Engine Operations (ETOPS).

操纵面运动量/

Control Surface Movements: 为确保使用, 不同操纵面运动量应通过相应的飞行控制系统的装配严格控制, 飞机必须按照下述批准的图纸装配。/To insure proper operation of the airplane, the movements of the various control surfaces must be carefully controlled by proper rigging of the flight control systems. The airplanes, must, therefore, be rigged according to the following FAA Approved data:

波音图纸号/Boeing Drawing Numbers:

114A1001, 克鲁格襟翼安装-机翼前缘内侧/Krueger Flap Instl - Inbd Wing L.E.

251A1001, 横向和减速板控制装备说明/Rigging Instructions, Lateral & Speedbrake Control

251A2001, 升降舵控制系统装备说明/Rigging Instructions, Elevator Control System

251A3001, 方向舵控制系统装备说明/Rigging Instructions, Rudder Control System

251A4001, 安定面配平控制系统装备说明/Rigging Instructions, Stabilizer Trim Control

256A3001, 襟翼作动装备说明 Rigging Instructions - Flap Actuation

256A2284, 襟翼前缘缝翼传感器安装-机翼前缘/ Flap.Slat Sensor Instl - Leading Edge, Wing

生产许可/Production Basis:

生产许可证700号/Production Certificate No. 700

必要设备/Required Equipment: 适用的适航要求（见审定基础）所规定的基础设备必须安装到合格审定的飞机上。所要求的设备在型号设计资料中。The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the aircraft for certification. The required equipment is noted in the Type Design data.

服务信息/Service Information: 参见波音的结构维修手册，如果服务通告和其他服务信息被批准的话，FAA会对其作出声明。/The following Boeing “Structural Repair Manual” Documents are FAA-approved. Service Bulletins and other service information, when FAA-approved, will carry a statement to that effect. D634A213 for the 737-900ER.

重心范围/C.G. Range: 参见适当的FAA批准的飞行手册列出的。/ See the appropriate FAA Approved Airplane Flight Manual listed.

4. 经批准的中文标记标牌/ The Approved Chinese Placard and Markings

以下中文标记标牌已由 CAAC 接受并由 FAA 批准：

The following Chinese Placards have been accepted by CAAC and approved by FAA:

序号 Code	标题 Title	编号 Number	版本（见注释 5） Rev./See Note 5
1	737 Bilingual (Chinese) Placards and Markings	D6-36621-7	J

5. 注释/Notes

注释/NOTE 1: 包括合格审定空重的设备清单和必要的装载说明的现行的重量平衡报告必须在最初的审定时提供给每一架飞机/A current weight and balance report including list of equipment included in the certificated empty weight, and loading instructions when necessary must be provided for each aircraft at the time of original certification.

注释/NOTE 2: 飞机按照FAA批准的飞行手册运行，由FAA批准的飞机飞行手册、使用运行规章或合格审定基础三者要求的所有标牌必须安装在飞机上。737-900ER飞行手册的基础是波音文档D631A001。

飞行手册中包括含抑制扰人抖杆指南的“空速不可靠”程序，与737-8的程序（737-8程序参见CAD2021-B737-19）协调一致，与该程序相关联的失速警告系统抖杆跳开关按键（带有颜色的键帽）必须按照波音服务通告737-27-1322进行安装。

Airplane operation must be in accordance with the FAA Approved AFM. All placards required in either the FAA Approved AFM, the applicable operating rules or the Certification Basis must be installed in the airplane. Boeing Document No. D631A001 is the basic FAA Approved Airplane Flight Manual for Model 737-900ER airplane. The Airplane Flight Manual includes the "Airspeed Unreliable (E)" procedure with guidance for disabling of the nuisance stick shaker to harmonize with the 737-8 procedure (Refer CAD2021-B737-19 for the procedure of 737-8), The Stall Warning System – Stick shaker Circuit Breakers Button (Colored Cap) relevant to this procedure must be installed according to Boeing Service bulleting 737-27-1322.

注释/NOTE 3. 737-900ER飞机的型号设计可靠性和性能已经按照FAA咨询通告AC 120-42A 进行

了评估，在按照波音文件D044A007的《737-600/-700/-700C/-800/-900/-900ER构型，维护和程序》使用和维护时，适合双发延程运行。另外，在2007年2月15日后进行的需申请ETOPS批准的型号设计更改已按14 CFR 25.1535进行了评估，在按照波音文件D044A007运行和维护的情况下，适合延程（ETOPS）运行。此条不构成ETOPS运行批准。/The type design reliability and performance of the Model 737-900ER, airplane has been evaluated in accordance with FAA Advisory Circular 120-42A and found suitable for Extended Range Operations with Two-Engine Airplanes (ETOPS) when operated and maintained in accordance with Boeing Document D044A007, “737-600/-700/-700C/-800/-900 /-900ER ETOPS CONFIGURATION, MAINTENANCE, AND PROCEDURES”. Additionally, type design changes incorporated after February 15, 2007 that require ETOPS approval have been evaluated in accordance with 14 CFR 25.1535 and found suitable for Extended Operations (ETOPS) when operated and maintained in accordance with Boeing Document D044A007. This finding does not constitute approval to conduct ETOPS operations.

注释/NOTE 4: 包含后续经批准的版本。
Including the subsequent approved version(s).

注释/NOTE 5: 符合SFAR 88和14 CFR 25.981要求的强制更换时间，检查间隔，相关检查程序和所有关键设计构型控制限制列在FAA批准的适航性限制和波音737-600/700//800/900维修计划数据文档D626A001-CMR, Revision R2, dated March, 2007（或FAA批准的后续版本）审定维修要求第9章。/Mandatory replacement times, inspection intervals, related inspection procedures and all critical design configuration control limitation for the fuel tank system determined during the Special Federal Aviation Regulation No. 88 program and for compliance with 14 CFR 25.981 are listed in the FAA-approved Airworthiness Limitations and Certification Maintenance Requirement, Section 9, of Boeing 737-600/700//800/900 Maintenance Planning Data Document D626A001-CMR, Revision R2, dated March, 2007, or later FAA-approved revision.

注释/NOTE 6: B737-900ER已经批准RVSM运行。RVSM的持续适航和运行批准必须依据FAA AC 91-RVSM, 文件名“Approval of Aircraft and Operators for Flight in Airspace Above Flight Level (FL) 290 Where a 1,000 Foot Vertical Separation Minimum is Applied.”/The Model 737-900ER has been approved to operate in “Reduced Vertical Separation Minimum” (RVSM) airspace. Continued airworthiness and operational approval aspects of RVSM must be constructed according to Advisory Circular (AC) 91-RVSM, titled “Approval of Aircraft and Operators for Flight in Airspace Above Flight Level (FL) 290 Where a 1,000 Foot Vertical Separation Minimum is Applied.”

注释/NOTE 7: B737-900ER的发动机型号取决于服役类型。参见AFM中已批准安装的CFM56-7B26, CFM56-7B26/B1, 或CFM56-7B27/B3或 CFM56-7B27E/B3。本注释只适用于飞机在低循环小时维修项目下运行。/The acceptable engine models on 737-900ER model aircraft are dependent on the type of in-service use. See the Airplane Flight Manual for approved installation of the CFM56-7B26, CFM56-7B26/B1, or

CFM56-7B27/B3 or CFM56-7B27E/B3. This applies only when the airplane is operating under the low cycles/hours maintenance program.

VIII. Model 737-8 Transport Aircraft.

1. 总则/General

- | | |
|--------------------------------------|--|
| 1. 型号/Model: | 737-8 |
| 2. 适航类别/Airworthiness Category: | 运输类航空器/Transport Category Aircraft |
| 3. 型号合格证持有人/Type Certificate Holder: | The Boeing Company
737 Logan Ave N
Renton, WA 98057-0000 |
| 4. FAA 批准日期/FAA Approved Date: | 2017.3.8/8 March 2017 |
| 5. CAAC 批准日期/CAAC Approved Date: | 2017.10.12/ 12 October 2017 |

2. 认可审定基础/Validation Certification Basis

CAAC的认可审定基础由FAA的审定基础和CAAC的附加技术条件组成。前者详见FAA型号合格证数据单：编号A16WE第58版中737-8型别的审定基础(除25.561 & 25.562(c)(5), (c)(6)乘客座椅要求外)、编号A16WE第67版中737-8型别审定基础中的豁免18060 “驾驶舱烟雾防护安保考虑”、编号A16WE第76版中737-8型别审定基础中的等效安全PS21-0181-F-1 “振动/抖振符合性准则”。

The CAAC validation certification basis consists of the FAA certification basis and the CAAC additional technical conditions. FAA certification basis refers to: 737-8 certification basis in FAA Type Certificate Data Sheet No.A16WE Revision 58 (except 25.561 & 25.562(c)(5), (c)(6) for passenger seats), Exemption 18060 (titled “Security Consideration for Flight Deck Smoke Protection”) added in Type Certificate Data Sheet No. A16WE Revision 67, and ELOS PS21-0181-F-1(titled “Vibration/Buffering Compliance Criteria”) added in Type Certificate Data Sheet No. A16WE Revision 76.

CCAR-26 《运输类飞机的持续适航与安全改进》：适用条款已包括在审定基础中，对于 CCAR-26 的任何修订，本 TC 持有人必须证明对适用条款的符合性。

CCAR-26 – Continued Airworthiness and Safety Improvements for Transport Category Airplanes: applicable provisions of Part 26 have been included in the certification basis. For any future Part 26 amendments, the holder of this TC must demonstrate compliance with the applicable sections.

中国民用航空局附加技术条件/CAAC Additional Technical Conditions.

交付到中国的每一架 737-8 飞机须满足下述附加技术条件：

Each of Model 737-8 aircraft delivered to China shall meet the following Additional Technical Conditions:

- (1) 必须符合 FAA 颁布的所有适用的适航指令；

All applicable airworthiness directives (ADs) issued by the FAA prior to issuance of the CAAC VTC shall be complied with.

- (2) 在每一航空器上必须安装快速存储器（QAR）（参照中国适航指令 CAD-97-MULT-38）；

Per CAAC Airworthiness Directive CAD97-MULT-38, the Quick Access Recorder (QAR) shall be installed.

- (3) 高度测量组件应至少采用米制高度显示（参照 CCAR 121.301(d)）；

Per CCAR 121.301(d), the airplanes shall be equipped with an altimeter displayed in metric units.

- (4) 必须确定符合中华人民共和国国家标准 “3 号喷气燃料”（GB 6537）规范的燃料的可接受性；

The acceptance of fuel conforming to National Standard of the People's Republic of China "No.3 Jet Fuel" (GB 6537) must be defined.

- (5) 厕所垃圾箱灭火器所使用的灭火剂的要求（参照 CAAC 适航指令 CAD2012-MULT-09）；

The requirements for lavatory disposal receptacle Fire Extinguishing agent shall comply with CAAC Airworthiness Directive CAD2012-MULT-09.

- (6) 标牌要求/Placard Requirements :

(a) 根据 CCAR 21.29(5)，机上所有对旅客进行的提示、警告和通知的文字标记和标牌；机上所有向旅客或者机外营救人员指示应急出口和门的位置以及开启方法的文字标记和标牌；以及旅客可能使用的机上所有应急设备的操作、使用说明应当至少有中文表述。/Per CCAR 21.29 (5), all on-board placard and marking for awareness, warning, and note to the passenger; all on-board placard and marking for opening method and location indication of the emergency exit and door to passenger and outside rescuer; and all operational instructions for on-board emergency equipment possible operated by passengers shall be presented in Chinese at least.

(b) 中文字符的尺寸需符合 CCAR 25.811(e)(4)(iii)和 CCAR25.812 的要求。/ The dimension of the Chinese characters shall comply with the provision of the CCAR 25.811 (e) (4) (iii) and CCAR 25.812 as applicable.

- (7) 乘客座椅应当符合 CCAR-25-R4 25.561（等效于 25-91 修正案的 14 CFR 25.561）和 CCAR-25-R4 25.562(c)(5), (c)(6)（等效于 25-64 修正案的 14 CFR 25.562(c)(5), (c)(6)）。/The requirements for passenger seats shall also comply with CCAR-25-R4 25.561(equivalent to 14 CFR 25.561 at amendment 25-91) & CCAR-25-R4 25.562(c)(5), (c)(6) (equivalent to 14 CFR 25.562(c)(5), (c)(6) at amendment 25-64).

- (8) CAAC 问题纪要 S-2，2019 年 1 月 1 日前生产的 737-8 飞机临时豁免 CCAR-25-R4 25.562(c)(5), (c)(6)乘客座椅的要求。/CAAC IP S-2, Temporary Exemption (TE) to CCAR-25-R4 25.562(c)(5), (c)(6) for passenger seats on 737-8 aircraft manufactured prior to January 1, 2019.

- (9) CAAC 问题纪要 E-4，对 14 CFR 25.1322(a)(2), (b) (25-131 修正案)的等效安全。/CAAC IP E-4, Equivalent Level of Safety to 14 CFR 25.1322(a)(2), (b) (Amendment 25-131).

- (10) CAAC 问题纪要 EE-5，737-8 机型 AOA 不一致飞行机组人员告警设计对 14 CFR 25.1322(a)(3)条款的等效安全。/CAAC IP EE-5, Equivalent Level of Safety Finding for Model 737-8 AOA DISAGREE Flight Crew Alert design for 14 CFR from 25.1322(a)(3)

3. 技术特征和运行限制/Technical Characteristics and Operational Limitations

发动机/Engines:

两台CFM LEAP-1B系列涡轮发动机（发动机型号合格证编号：E00088EN；型号认可证编号：VTC0339E；型号认可证数据单编号VTC0339E，版次3）。

型别和构型如下：

LEAP-1B28

LEAP-1B28B1

LEAP-1B28BBJ1

LEAP-1B27

LEAP-1B25

发动机限制参见注释2中定义的FAA批准的飞机飞行手册。

Two CFM International S.A CFM LEAP-1B Series Turbofan Engines (Engine Type Certificate No. E00088EN, Engine VTC No. VTC0339E, Engine VTCDS

No. VTC0339E, Revision: 3).

Model + Configuration as follows:

LEAP-1B28

LEAP-1B28B1

LEAP-1B28BBJ1

LEAP-1B27

LEAP-1B25

Refer to the FAA approved Airplane Flight Manual identified in Note 2 for engine limitations.

燃油/Fuel:

满足波音D6-85140-101文件“航空燃油和燃油添加剂属性、组成和性能要求”的喷气燃油，可以无限制地使用。满足波音D6-85140-101文件要求的燃油规范的例子包括：

- * Jet A，按照ASTM D1655的Jet A-1
- *按照 UK MoD Def-Stan 91-91的Jet A-1
- *按照 MIL-DTL-5624的JP-5
- *按照MIL-DTL-83133的JP-8

批准使用满足中华人民共和国国家标准“3号喷气燃料”（GB 6537）规范要求的燃油。

添加剂的使用见飞行手册。

禁止使用D6-85140-101文件C版或FAA后续批准的修订文件中所定义的任何宽馏分燃油（例如，按照ASTM D6615的Jet B燃油、按照MIL-DTL-5624的JP-4燃油）。禁止使用含有Kathon FP 1.5杀虫剂的燃油运行CFM LEAP-1B系列发动机。

Kerosene jet fuels meeting the requirements defined in the Boeing D6-85140-101 document “Aviation Fuel and Fuel Additives Properties, Composition and Performance Requirements”, are authorized for unlimited use. Examples of fuel specifications that have been shown to meet the requirements defined in the Boeing D6-85140-101 document are:

- * Jet A, Jet A-1 as specified in ASTM D1655
- * Jet A-1 as specified in UK MoD Def-Stan 91-91
- * JP-5 as specified in MIL-DTL-5624
- * JP-8 as specified in MIL-DTL-83133

Approved to use the fuels that meet the requirements in the National Standard of the People’s Republic of China ”No.3 Jet Fuel” (GB 6537) Specification.

Consult the Flight Manual for additive use.

The use of any Wide Cut Fuel as defined in the D6-85140-101 revision C or later FAA approve revision document (e.g. Jet B as specified in ASTM D6615, JP-4 as specified in MIL-DTL-5624) is prohibited. Operation of the CFM LEAP-1B series engines with fuel containing Kathon FP 1.5 biocide is prohibited.

发动机限制/ Engine Limits: 见发动机功率/ See Engine Ratings.

滑油消耗/Oil Consumption: 关于25.1101(b)的符合性, 安装CFM LEAP-1B发动机的该型飞机批准的最大滑油消耗率为0.74美制夸脱每小时, 运行中不允许超过该限制。
For compliance with §25.1011(b), the approved maximum oil consumption rate for the CFM LEAP-1B engines installed on this model airplane has been established as 0.74 US quarts per hour. Operation of the Model 737-8 airplane with engine oil consumption rates higher than this limit is not permitted.

发动机功率 /Engine Ratings	Model 737-8	Takeoff static thrust, standard day, sea level conditions (5 min) lb./ 海 平面标准天气起飞静推 力, 磅	Maximum continuous static thrust, standard day, sea level conditions lb./海平面标准天 气最大连续静推力, 磅
	LEAP-1B28	29,317	28,690
	LEAP-1B28B1	29,317	28,690
	LEAP-1B27	28,037	27,272
	LEAP-1B25	26,786	25,958

发动机和重量限制/Engine and Weight Limits

发动机运行限制参见数据单E00088EN或注释2中列出的FAA批准的飞行手册
/For engine operating limits see Engine Type Certificate Data Sheet No.
E00088EN or the FAA approved Airplane Flight Manual listed in Note 2.

推力设置/Thrust Settings: 必须使用经过FAA批准的飞机的飞行手册和AFM附录中相应的发动机功率
设定曲线（%N1）来控制发动机推力。/
The appropriate engine power setting curve (%N1), in the FAA Approved
Airplane Flight Manual or AFM Appendices must be used for control of engine
thrust.

速度限制/Airspeed Limits: VMO/MMO – 起落架伸出期间为270 KCAS /0.82 M, 起落架伸出后为320
KCAS, 收回起落架为235 KCAS。关于其他的空速限制参见注释2中列出的
适当的FAA批准的飞行手册。/
VMO/MMO - 270 KCAS/0.82M for extension, 320 KCAS for extended, 235
KCAS for retraction of gear). For other airspeed limits see the appropriate FAA
approved Airplane Flight Manual listed in Note2.

重心范围/C. G. Range: 参见注释2列出的适当的FAA批准的飞行手册。/See the appropriate FAA
Approved Airplane Flight Manual listed in Note 2.

空重重心范围/Empty Weight C.G. Range:

参见注释1列出的适当的重量和平衡手册。/ See appropriate Weight and Balance Manual listed in Note 1.

基准/Datum:

参见注释1列出的适当的重量和平衡手册。/ See appropriate Weight and Balance Manual listed in Note 1.

水平测量方法/Leveling Means: 飞机水平测量的程序方法参见适当的飞机维护手册D633AM101 [第08章第20节]。右侧主轮轮舱内提供了铅锤和水平尺。

See appropriate Aircraft Maintenance Manual (AMM) D633AM101 [Chapter 08, Section 20] for process means for leveling the aircraft. A plumb bob attachment and leveling scale are provided in the right maingear wheel well.

最大重量/Maximum Weights: 737-8

最大滑行重量/ Maximum Taxi Weight (MTW)	181,700 lbs.
最大起飞重量/ Maximum Takeoff Weight (MTOW)	181,200 lbs.
最大着陆重量/ Maximum Landing Weight (MLW)	152,800 lbs.
最大零燃油重量/ Maximum Zero Fuel Weight (MZFW)	145,400 lbs.

最小飞行机组/Minimum Crew for All Flights:

2 (机长和副驾驶/Pilot and Copilot)

最大载客数/Maximum Passengers:

189座/189 Seats

最大行李舱载荷/

Maximum Baggage Cargo: 参见注释1列出的适当的重量和平衡手册。/ See appropriate Weight and Balance Manual listed in Note 1.

燃油和滑油容量/

Fuel & Oil Capacities: 参见注释1列出的适当的重量和平衡手册。/ See appropriate Weight and Balance Manual listed in Note 1.

最大运行高度/

Maximum Operating /Altitude: 41,000英尺/ft.

操纵面运动/

Control Surface Movements: 为确保飞机的正确操纵，不同操纵面的运动必须由正确装配的飞行控制系统精确控制，因此，飞机必须按照以下FAA批准的波音文件中的数据进行装配。/

To ensure proper operation of the airplane, the movements of the various control surfaces must be carefully controlled by proper rigging of the flight control systems. The airplanes, must, therefore, be rigged according to the following FAA approved data in the following Boeing documents:

114A1001, 克鲁格襟翼安装-机翼前缘内侧/Krueger Flap Instl - Inbd Wing L.E.

251A1001, 横向和减速板控制装备说明/Rigging Instructions, Lateral & Speedbrake Control

251A2001, 升降舵控制系统装备说明/Rigging Instructions, Elevator Control System

251A3001, 方向舵控制系统装备说明/Rigging Instructions, Rudder Control System

251A4001, 安定面配平控制系统装备说明/Rigging Instructions, Stabilizer Trim Control

256A3001, 襟翼作动装备说明 Rigging Instructions - Flap Actuation

256A2284, 襟翼前缘缝翼传感器安装-机翼前缘/ Flap.Slat Sensor Instl - Leading Edge, Wing

最小燃油需求量/

Minimum Required Fuel: 参见注释2列出的适当的FAA批准的飞行手册/See appropriate FAA Approved Airplane Flight Manual listed in Note 2.

平均气动弦/MAC:

155.81英寸/ in

其他运行限制/

Other Operating Limitations: 参见FAA批准的飞机飞行手册附件。
ETOPS: 见注释4。/
See FAA approved Airplane Flight Manual Appendices.
ETOPS: See Note 4

4. 经批准的中文标记标牌/ The Approved Chinese Placard and Markings

以下中文标记标牌已由 CAAC 接受并由 FAA 批准:

The following Chinese Placards have been accepted by CAAC and approved by FAA:

序号 Code	标题 Title	编号 Number	版本 (见注释 7) Rev./See Note 7
1	737 Bilingual (Chinese) Placards and Markings	D6-36621-7	L

5. 注释/Notes

注释/NOTE 1: 包括合格审定空重的设备清单和必要的装载说明的现行的重量平衡报告必须在最初的审定时提供给每一架飞机。每个型别的重量和平衡控制以及装载手册 (波音文件D636A080) 由基本手册和补充飞机报告组成。这符合用于在25.23

至 25.27下建立运行限制的14 CFR 25.29和25.1519的要求。 /

A current weight and balance report, including a list of equipment included in the certificated empty weight and loading instructions when necessary, must be provided for each aircraft at the time of original certification. For each Model the Weight and Balance Control and Loading Manual (Boeing Document D636A080) consists of the Basic Manual and a Supplement Aircraft Report. This is in accordance with 14 CFR 25.29 and 25.1519 which establishes operating limitations determined under 25.23 through 25.27.

注释/NOTE 2:

飞机必须按照FAA批准的飞行手册运行。由FAA批准的飞机飞行手册、适用的运行规章或合格审定基础三者要求的所有标牌必须按规定安装在飞机上。波音文档D631A002是基本的FAA批准的737-8飞机飞行手册。 /

Airplane operation must be in accordance with the FAA approved AFM. All placards required in either the FAA approved Aircraft Flight Manual (AFM), the applicable operating rules or the certification basis must be installed as specified. Boeing Document No. D631A002 is the basic FAA approved Airplane Flight Manual for Model 737-8 airplanes.

注释/NOTE 3:

根据14 CFR 25.571, 25.981, 25.1529和 25.1729, FAA已经接受波音737-8维修计划文件第9节、波音文件D626A011及其下层文件中的737-8持续适航文件。每个营运人必须从下列FAA批准的文件中纳入FAA批准的维修程序:

In accordance with 14 CFR 25.571, 25.981, 25.1529, and 25.1729, the FAA has accepted the Boeing Model 737-8 Instructions for Continued Airworthiness in Section 9 of the 737-8 Maintenance Planning Document, Boeing Document D626A011 and sub-tier documents. Each operator must incorporate into their airline's FAA-approved maintenance program the applicable items from the following FAA-approved documents:

波音文件	标题
D626A011-9-01	737-8适航限制。包含对于结构安全寿命和寿命限制部件所需的结构检查和退役时间。还包含对于系统寿命限制部件退役时间和其他系统限制。 / 737-8 Airworthiness Limitations (AWLs). Contains required structural inspections and the retirement times for structural safe-life and life-limited parts. Also contains required retirement times for systems life-limited parts and other systems limitations.
D626A011-9-02	737-8适航限制-生产线号特殊要求。现有的结构适航限制受到飞机生产的不符合影响, 可能导致飞机专门更改检查要求和/或检查间隔。 737-8 Airworthiness Limitations (AWLs) – Line Number Specific. Existing structures AWLs that were impacted by airplane production non-conformances may result in airplane specific revised inspection requirements and/or inspection intervals
D626A011-9-03	737-8审定维修要求。对于规定的系统安装所需的定期任务。 / 737-8 Certification Maintenance Requirements

	(CMRs). Required periodic tasks to specific Systems installations
D626A011-9-04	737-8特殊符合性项目/适航限制。该文件列出了符合14 CFR Part 25.981所需的适航限制指令（ALI）和关键设计构型控制限制（CDCCL），并提供指导。 737-8 Special Compliance Items (SCIs) /Airworthiness Limitations. This document lists and provides instructions for Airworthiness Limitation Instructions (ALIs) and Critical Design Configuration Control Limitations (CDCCLs) required to comply with 14 CFR Part 25.981.

注释/NOTE 4: 737-8飞机的型号设计可靠性和性能已按14 CFR § 25.3(b)(1)和25.1535进行评估，当按照波音文件D044A032 “737 MAX ETOPS 构型，维护和程序” 运行和维护时，适合进行直到并包含180分钟的延程运行（ETOPS）。该判定不构成进行ETOPS 运行的批准。/The type design reliability and performance of the 737-8 airplane has been evaluated in accordance with the requirements of 14 CFR § 25.3(b)(1) and 25.1535 and found suitable for up to and including 180-minute Extended Operations (ETOPS) when operated and maintained in accordance with Boeing Document No. D044A032, “737 MAX ETOPS Configuration, Maintenance, and Procedures.” This finding does not constitute approval to conduct ETOPS.

注释/NOTE 5: B737-8已经被批准RVSM运行。RVSM的持续适航和运行批准必须依据FAA AC 91-85 “RVSM飞行的飞机和运行批准”/The Model 737-8 has been approved to operate in “Reduced Vertical Separation Minimum” (RVSM) airspace. Continued airworthiness and operational approval aspects of RVSM must be constructed according to Advisory Circular (AC) 91-85, titled “Authorization of Aircraft and Operators for Flight in Reduced Vertical Separation Minimum Airspeed.”

注释/NOTE 6: FAA已经确定，对于发生任何不可控高推力的失效状态，或者任何在波音737维修计划文件中列出的相关失效“可能会危及飞机的安全运行”，因此需要按照FAR 121.703, 125.409和135.415进行报告。/The FAA has determined that the occurrence of any uncontrollable high thrust failure condition, or any of the associated causal failures listed within the Boeing 737 Maintenance Planning Document, “may endanger the safe operation of an airplane” and hence are reportable under FAR 121.703, 125.409, and 135.415.

注释/NOTE 7: 包含后续经批准的版本。/
Including the subsequent approved version(s).

注释/NOTE 8: 认可了波音737-8飞机全球航空遇险与安全系统遇险跟踪型应急定位发射机（制造商为ACR公司）的设计更改。/The design change of Boeing 737-8 Global Aeronautical Distress and Safety System Autonomous Distress Tracking - Emergency Locator Transmitter with Distress Tracking (The manufacturer is ACR) has been validated.

注释/NOTE 9: 认可了波音737-8飞机HELGA天线雷达罩的设计更改。/The design change of Boeing 737-8 HELGA Antenna Radome has been validated.

注释/NOTE 10: 认可了波音737-8飞机便携式应急定位发射机的设计更改。(制造商为Techtest公司)。/ The design change of Boeing 737-8 Techtest Portable Emergency Locator Transmitter (The manufacturer is Techtest) has been validated.

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—END—