Issue: <u>13</u> Date: <u>30.Nov</u> 2022



TYPE-CERTIFICATE DATA SHEET

No. EASA.IM.A.032

for

EMBRAER EMB-145

Type Certificate Holder:

Embraer S.A.

Av. Brig. Faria Lima. 2170

12227-901 São Jose dos Campos SP

Brazil

For Models: EMB-145, EMB-145EP, EMB-145MP, EMB-135ER, EMB-145ER, EMB-145LR, EMB-145MK, EMB-135LR, EMB-145EU, EMB-145LU, EMB-135BJ



Issue: <u>13</u> Date: <u>30.Nov</u> 2022

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Issue: <u>13</u> Date: <u>30.Nov</u> 2022

TABLE OF CONTENT

TABLE OF CONTENT	3
SECTION 1: GENERAL (ALL MODELS)	4
SECTION 2: EMB-145, EMB-145ER, EMB-145EU, EMB-145EP, EMB-145LR, EME EMB-145MP, EMB-145MK	3-145LU, 5
I. General	5
II. Certification Basis	5
III. Technical Characteristics and Operational Limitations	7
IV. Operating and Service Instructions	9
V. Operational Suitability Data (OSD)	10
SECTION 3: EMB-135ER, EMB-135LR, EMB-135BJ	11
I. General	11
II. Certification Basis	11
III. Technical Characteristics and Operational Limitations	15
IV. Operating and Service Instructions	18
V. Operational Suitability Data (OSD)	19
SECTION 4: NOTES (ALL MODELS)	20
SECTION: ADMINISTRATIVE	26
I. Acronyms and Abbreviations	26
II. Type Certificate Holder Record	26
III. Change Record	27

Issue: <u>13</u> Date: <u>30.Nov</u> 2022

SECTION 1: GENERAL (ALL MODELS)

1. Data Sheet No: IM.A.032

2. Airworthiness Category: Large Aeroplanes

3. Performance Category: A

4. Certifying Authority: ANAC Agência Nacional de Aviação Civil

Gerência Geral de Certificação de Produtos

Aeronáuticos P.O. Box 6001

12228-901 - São José dos Campos - SP

Brazil

5. Type Certificate Holder: Embraer S.A.

Av. Brig. Faria Lima. 2170

12227-901 São Jose dos Campos SP

Brazil

6. ETOPS: Not applicable

Issue: <u>13</u> Date: <u>30.Nov</u> 2022

<u>SECTION 2: EMB-145, EMB-145ER, EMB-145EU, EMB-145EP, EMB-145LR, EMB-145LU, EMB-145MP, EMB-145MK</u>

I. General

 Aeroplane: EMB-145, EMB-145ER, EMB-145EU, EMB-145EP, EMB-145LR, EMB-145LU, EMB-145MP, EMB-145MK

II. Certification Basis

1. Reference Application Date for ANAC (CTA) Certification

EMB-145, EMB-145ER, EMB-145EU, EMB-145EP 02 June 1992 EMB-145LR, EMB-145LU, EMB-145MP 10 October 1997 EMB-145MK 28 February 2000

2. CTA Certification Date

EMB-145, EMB-145ER, EMB-145EU, EMB-145EP 29 November 1996 EMB-145LR, EMB-145LU, EMB-145MP 20 April 1998 EMB-145MK 12 June 2000

3. EASA (JAA) Validation Application Date

 EMB-145, EMB-145ER, EMB-145EU
 23 November 1993

 EMB-145EP
 12 August 1997

 EMB-145LR
 10 October 1997

 EMB-145LU
 08 March 1999

 EMB-145MP
 09 February 1999

 EMB-145MK
 03 March 2000

4. EASA Certification Date

EMB-145, EMB-145ER, EMB-145EU 27 May 1997

(Date of first TC issuance within EU MS by DGAC Belgium & INAC Protugal; JAA recommendation 20.05.97)

EMB-145EP 25 November 1997

(Date of first TC issuance within EU MS by ENAC Italy; JAA recommendation 14.11.97)

EMB-145LR 18 December 1998

(Date of first TC issuance within EU MS by DGAC Spain; JAA recommendation 18.12.98)

EMB-145MP 13 October 1999

(Date of first TC issuance within EU MS by CAA Finnland; JAA recommendation 24.09.99)

EMB-145LU 13 October 1999

(Date of first TC issuance within EU MS by CAA Finland; JAA recommendation 19.4.99)

EMB-145MK 02 August 2002

(Date of first TC issuance within EU MS by CAA Denmark; JAA recommendation 05.07.02)

ANAC (CTA) Certification Basis

RBHA (FAR) Part 25 Amendment 84



Issue: <u>13</u> Date: <u>30.Nov</u> 2022

<u>SECTION 2: EMB-145, EMB-145ER, EMB-145EU, EMB-145EP, EMB-145LR, EMB-145LU, EMB-145MP, EMB-145MK - continued</u>

6. EASA Certification Basis

JAR 25 Change 14, dated 27 May 1994

JAR AWO Change 2

CS 25.851(a)(6) at Amdt. 18 in regards to the equipment installation and qualification of Halon free hand-held Fire Extinguishers

NPA 25B261 Harmonisation of FAR 25 / JAR 25 Flight Requirements, CRI B-07 INT/POL/25/6 Worn Brakes (Brake Testing) CRI F-07

EMB-145LR, EMB-145LU, EMB-145MP, EMB-145MK:

Identical EASA certification basis as EMB-145, EMB-145ER, EMB-145EU, EMB-145EP except for -JAR 25.519 - Jacking and tie-down provisions - applicable at JAR 25 change 14 + Orange Paper 25/96/1 -JAR 25B951 - Essential APUs - Fuel System - General - applicable at JAR 25 change 14 + Orange Paper 25/96/1

7. Special Conditions

SC G-5 Resistance to fire terminology (NPA 25D-181) Nuisance Shaker Occurrences

CRI B-22

The following Interim Policies have been applied to the EMB 145:

INT/POL/25/1: Landing Gear Warning (included in JAR 25, Change 14)

INT/POL/25/2: Protection from the effects of HIRF

INT/POL/25/3: Protection from the effects of Lightning Strike, Direct Effects

INT/POL/25/4: Protection from the effects of Lightning Strike, Indirect Effects

CRI F-02

CRI F-03

INT/POL/25/7: Rapid Decompression (included in JAR 25, Change 14)

INT/POL/25/8: Yawing Manoeuvring Conditions CRI C-01
INT/POL/25/9: Fuel Tank Crashworthiness CRI C-02

Enhanced Airworthiness Programme for Aeroplane Systems – ICA on EWISCRI H-01

Pilot Compartment View – Hydrophobic Coatings in lieu of Windshield Wipers CRI D-15

(cover CRI to FCAR HIS-08-145 stage 4 dated 23 April 2013)

Equivalent Safety Findings

NPA 25B215 Stall and Stall Warning Speeds and Manoeuvre Capability

Lavatory Oxygen System Restoration

CRI B-04

CRI F-38

9. Deviations (formerly referred to as "Exemptions")

None defined

10. Environmental Standards

10.1. Noise

See TCDSN EASA.IM.A.032

10.2 Fuel venting

ICAO Annex 16, Volume II

11. Operational Suitability Requirements

11.1 OSD MMEL (as defined by CRI A-MMEL Issue 2, dated 14 December 2015) JAR MMEL/MEL Amendment 1, Section 1

11.2 OSD FCD

CS-Flight Crew Data, Initial Issue dated 31 January 2014



Issue: <u>13</u> Date: <u>30.Nov</u> 2022

<u>SECTION 2: EMB-145, EMB-145ER, EMB-145EU, EMB-145EP, EMB-145LR, EMB-145LU, EMB-145MP, EMB-145MK – continued</u>

III. Technical Characteristics and Operational Limitations

Two aft mounted turbo-fan engine, short to medium range, single aisle, T-tail, large category airplane.

 EMB-145, EMB-145ER, EMB-145EU, EMB-145EP, EMB-145LR, EMB-145LU, EMB-145MP, EMB-145MK

1.1 Type Design Definition

Defined in JAA CRI A-6, which is included in report 145-MS-001, including report 145-MS-380.

1.2 Engines

EMB-145 (basic model): Two (2) Rolls-Royce Corp. USA AE3007A or

Two (2) AE3007A1/1 or Two (2) Rolls-Royce Corp. USA AE3007A1P turbofan engines

EMB-145ER, EMB-145EU, EMB-145EP: Two (2) Rolls-Royce Corp. USA AE3007A or

Two (2) Rolls-Royce Corp. USA AE3007A1/1 or Two (2) Rolls-Royce Corp. USA AE3007A1P or Two (2) Rolls-Royce Corp. USA AE3007A1 turbofan engines or one (1) Rolls-Royce Corp. USA AE3007A and one (1) Rolls-Royce Corp.

USA AE3007A1/1 turbofan engine

EMB-145LR, EMB-145MP, EMB-145MK: Two (2) Rolls-Royce Corp. USA AE3007A1 or

Two (2) Rolls-Royce Corp. USA AE3007A1/1 or Two (2) Rolls-Royce Corp. USA AE3007A1P

turbofan engines

EMB-145LU: Two (2) Rolls-Royce Corp. USA AE3007A1 or

Two (2) Rolls-Royce Corp. USA AE3007A1P

turbofan engines

1.1.1 Engine Limits

See Section IV "Notes" - 1.1

1.3 Fuel

Eligible Fuels see Section IV "Notes" – 1.3

Fuel Capacity

EMB-145 (basic model), EMB-145ER, EMB-145EU, EMB-145EP:

Maximum usable fuel of 5146 litres (two tanks with 2573 litres at +15 322mm),

Unusable fuel of 54 I (27 I per tank)

EMB-145LR, , EMB-145LU:

Maximum usable fuel of 6396 I (two tanks of 3198 I at +15 153mm),

Unusable fuel of 44I (22 I per tank)



Issue: <u>13</u> Date: <u>30.Nov</u> 2022

<u>SECTION 2: EMB-145, EMB-145ER, EMB-145EU, EMB-145EP, EMB-145LR, EMB-145LU, EMB-145MP, EMB-145MK – continued</u>

EMB-145MP, EMB-145MK,:

Maximum usable fuel of 5146 I (two tanks of 2573 I at +15153 mm), Unusable fuel of 54I (27 I per tank)

1.4 Limit Speeds

Refer to approved Airplane Flight Manual.

1.5 Centre of Gravity Range

Refer to approved Airplane Flight Manual.

1.6 Maximum Certified Weights

MODEL	EMB-145	EMB-145EU	EMB-145ER	EMB-	EMB-145LR
				145EP	(A1/1 engines)
Taxi and ramp	19300 kg	20090 kg	20700 kg	21090 kg	22100 kg
Take-off	19200 kg	19990 kg	20600 kg	20990 kg	22000 kg**
Landing	18700 kg	18700 kg	18700 kg	18700 kg	19300 kg
Zero fuel	17100 kg	17100 kg	17100 kg*	17100 kg*	17900 kg

MODEL	EMB-145LR	EMB-145LU	EMB-145 MP	EMB-145 MK
	(A1 engines)			
Taxi and ramp	22100 kg	22090 kg	21090 kg	20090 kg
Take-off	22000 kg**	21990 kg	20990 kg	19990 kg
Landing	19300 kg	19300 kg	19300 kg	19300 kg
Zero fuel	17900 kg	17900 kg	17900 kg	17900 kg

^{*}For airplanes Pos-mod. SB 145-53-0064, the MZFW will be 17, 350 kg

1.7 Minimum Flight Crew

Two (2): Pilot and Co-pilot for all types of flights

1.8 Maximum Seating Capacity: 50

1.9 Cargo compartment loading

Location	Class	Volume
Front	NA	
Middle	NA	
Rear	D or C	9.2 m ³ (325 ft ³)
Underfloor	NA	

1.10 Environmental Flight Envelope

Refer to approved Airplane Flight Manual.



^{**}For airplanes Pos-mod. SB 145-53-0065, the MTOW will be 21, 450 kg (to increase again the MTOW up to 22 000 kg, the SB 145-53-0066 must be incorporated)

Issue: <u>13</u> Date: <u>30.Nov</u> 2022

<u>SECTION 2: EMB-145, EMB-145ER, EMB-145EU, EMB-145EP, EMB-145LR, EMB-145LU, EMB-145MP, EMB-145MK – continued</u>

1.11 Other Limitations

Refer to approved Airplane Flight Manual.

1.12 Auxiliary Power Unit (APU)

One (1) SUNDSTRAND T-62T-40C11 or T-62T-40C14 model for APU limits see see Section IV "Notes" – 1.2

1.13 Oils

Eligible Fuels see Section IV "Notes" – 1.4 Oil Capacity: 11.4 litres in each nacelle

1.14 Equipment

The approved equipment is listed in the EMBRAER technical report: 145-MS-370.

1.15 All Weather Capabilities

CAT II

1.16 Wheels and Tyres

See Section IV "Notes" - 1.5

1.17 Hydraulics

Fluid specifications: SAE AS1241 Type IV

IV. Operating and Service Instructions

1. Airplane Flight Manual (AFM)

Airplanes must be operated according to the EASA approved AFM ref. AFM 145/1154 revision original (or later approved revision)

- 2. Instructions for Continued Airworthiness Airworthiness Limitations
 - The life limitations are provided in the item a 2.2 of the "Appendix 2", "Airworthiness Limitation Requirements" of the document MRB n° 145/1150
 - The structure Certification Maintenance Requirements are listed in the "Appendix 2",
 - "Airworthiness Limitation Requirements" of the document MRB n°145/1150
 - System Certification Requirements are listed in the "Appendix 1", "Airworthiness Limitation Requirements", of the document MRB n°145/1150
- 3. Maintenance Instructions
 - Aircraft Maintenance Manual (Customized to aircraft configuration)
 - Service Letters and Service Bulletins



Issue: <u>13</u> Date: <u>30.Nov</u> 2022

<u>SECTION 2: EMB-145, EMB-145ER, EMB-145EU, EMB-145EP, EMB-145LR, EMB-145LU, EMB-145MP, EMB-145MK – continued</u>

V. Operational Suitability Data (OSD)

The Operational Suitability Data elements listed below are approved by the European Union Aviation Safety Agency under the EASA Type Certificate EASA.IM.A.032 as per Commission Regulation (EU) 748/2012 as amended by Commission Regulation (EU) No 69/2014.

- Master Minimum Equipment List (MMEL)
 The MMEL is defined in EMBRAER MMEL–145/6042 Original Revision or later approved revisions.
- Flight Crew Data (FCD)
 The FCD is defined in EMBRAER Report No. 135-MSO-008 Original Revision dated 25 January 2017 or later approved revisions.

Issue: <u>13</u> Date: <u>30.Nov</u> 2022

SECTION 3: EMB-135ER, EMB-135LR, EMB-135BJ

I. General

1. Aeroplane: EMB-135ER, EMB-135LR, EMB-135BJ

II. Certification Basis

1. Reference Application Date for ANAC (CTA) Certification

EMB-135ER, EMB-135LR 06 November 1997 EMB-135BJ 05 January 2000

2. ANAC (CTA) Certification Date

EMB-135ER, EMB-135LR with AE3007A1/3 engines 11 June 1999 EMB-135ER, EMB-135LR with AE3007A3 engines 07 October 1999 EMB-135BJ 10 December 2001

3. EASA (JAA) Validation Application Date

 EMB-135ER
 14 April 1998

 EMB-135LR
 05 June 1998

 EMB-135BJ
 05 January 2000

4. EASA Certification Date

EMB-135ER, EMB-135LR 03 November1999

(Date of first TC issuance within EU MS by CAA Finland; JAA recommendation 25.10.99)

EMB-135BJ 02 August 2002

(Date of first TC issuance within EU MS by CAA Denmark; JAA recommendation 05.07.02)

5. ANAC (CTA) Certification Basis EMB-135ER, EMB-135LR

RBHA 25 Airworthiness Requirements for Aircraft Transport Category – corresponding to FAR Part 25 of Federal Aviation Administration, including amendment 25-1 through amendment 25-84 effective 10 July 1995.

- Amdt 25-87 Integral
- Section 25.1517 from Amdt 25-86
- Amdt 25-88 Integral
- Amdt 25-90 Integral
- Sections 25.331, 25.335(b)(2), 25.345, 25.351, 25.363, 25.371, 25.415, 25.491, 25.499
 and 25.561 from Amdt 25-91
- Amdt 25-93 Integral
- Section 25.807 from Amdt 25-94
- Amdt 25-97 Integral



Issue: <u>13</u> Date: <u>30.Nov</u> 2022

SECTION 3: EMB-135ER, EMB-135LR, EMB-135BJ - continued

Special Conditions

- High Intensity Radiated Fields (HIRF) Protection (FCAR HSI-01 - RBHA/FAR 21.16, 25.1309, 25.1333 and 25.1431).

Equivalent level of safety findings

- Use of 1 g stall criteria (FCAR HDE-01 Various RBHA's)
- Cockpit under floor access hatch and rear fuselage electronic compartment access hatch (FCAR HES-03 RBHA/FAR 25.783(f))
- Flight critical thrust reverser (FCAR HPR-03 RBHA 25.933(a)(1)(ii))
- Digital only display of turbine engine high/intermediate pressure rotor speed (N2) (FCAR HPR-04-RBHA 25.1305(c))
- APU Instrumentation and Monitoring requirements (FCAR HPR-06 RBHA/FAR 25.1305 and 25.1501(b)) and
- Fire detector in the tail pipe (FCAR HPR-01 RBHA/FAR 25.1203(a)).

6. EASA Certification Basis EMB-135ER, EMB-135LR

JAR 25 Change 14 plus the Orange Paper 25/96/1 (effective on 19 April 1996). JAR AWO change 2 (effective on 1 August 1996)

(The certification of Category II operations was accomplished Post TC)

CS 25.851(a)(6) at Amdt. 18 in regards to the equipment installation and qualification of Halon free hand-held Fire Extinguishers

Elect to comply: NPA 25B 240 Landing in abnormal configurations CRI B-110

7. Special Conditions EMB-135ER, EMB-135LR

Nuisance Stick Shaker Occurrences	CRI B-122
INT/POL/25/2: Protection from the effects of HIRF	CRI F-101
INT/POL/25/3: Protection from the effects of Lightning Strike, Direct Effects	CRI F-102
INT/POL/25/4: Protection from the effects of Lightning Strike, Indirect Effects	CRI F-103
INT/POL/25/6: Worn Brakes (Brake Testing)	CRI F-107
INT/POL/25/8: Yawing Manoeuvring Conditions	CRI C-101
INT/POL/25/9: Fuel Tank Crashworthiness	CRI C-102
Enhanced Airworthiness Programme for Aeroplane Systems – ICA on EWIS (1)	CRI H-01
Pilot Compartment View – Hydrophobic Coatings in lieu of Windshield Wipers	CRI D-15
(cover CRI to FCAR HIS-08-145 stage 4 dated 23 April 2013)	

8. Equivalent Safety Findings EMB-135ER, EMB-135LR

NPA 25B-215 (dated June 1995): Stall and Stall Warning Speeds	
and Manoeuvre Capability	CRI B-104
Note 1: CRI B-104 is associated to Special Condition:	
'Nuisance Stick Shaker Occurrences'	(CRI B-122)
Lavatory Oxygen System Restoration	CRI F-38

The following ANAC (CTA) ESF have been accepted by the JAA team as fully recording their position:

APU Instrumentation and Monitoring Requirements	(FCAR HPR-06)
Fire Detector in the Tail Pipe	(FCAR HPR-01)

**** * * ***

Issue: <u>13</u> Date: <u>30.Nov</u> 2022

SECTION 3: EMB-135ER, EMB-135LR, EMB-135BJ - continued

9. Deviations (formerly referred to as "Exemptions") EMB-135ER, EMB-135LR

None defined

10. Environmental Standards EMB-135ER, EMB-135LR

10.1. Noise See TCDSN EASA.IM.A.032

10.2 Fuel venting ICAO Annex 16, Volume II

11. ANAC (CTA) Certification Basis EMB-135BJ

RBHA 25 (Airworthiness Requirements - Transport Category Aircraft), corresponding to US FAR Part 25 of Federal Aviation Administration effective 10 July 1995, including Amendment 25-1 through 25-84 effective 09 June 1995, plus the following requirements:

- Amdt. 25-85 Integral
- Amdt. 25-86, Section 25.1517
- Amdt. 25-88 Integral
- Amdt. 25-90 Integral
- Amdt. 25-91 Sections 25.331; 25.335(b)(2); 25.345; 25.351; 25.363; 25.371; 25.415; 25.491; 25.499 and 25.561
- Amdt. 25-93 Integral
- Amdt. 25-94 Section 25.807
- Amdt. 25-96 Paragraph 25.571(e)(1)
- Amdt. 25-97 Integral; and
- Amdt. 25-98 Integral

Special Conditions

The following special condition, established for previous EMB-145 models, is applicable for the EMB-135BJ model:

- High intensity radiated fields (HIRF) protection (RBHA 21.16, RBHA/FAR 25.1309, 25.1333 and 25.1431) - EMB-135 FCAR HSI-01.

The following specific special conditions are applicable to the EMB-135BJ model:

- Interaction of systems and structures (fuel mismanagement) (RBHA/FAR 25.671 and 25.1309) – EMB-135BJ FCAR HES-01; and
- Ventral fuel tank penetration (RBHA/FAR 21.16, 25.963(e)) EMB-135BJ FCAR HES-04.

Deviations (formerly referred to as "Exemptions"):

The following Deviation (formerly referred to as "Exemption") is applicable to the EMB-135BJ model:

 Dynamic Test Requirement for Side-Facing Divans (sofa) (RBHA 25.785 (b) – EMB-135BJ FCAR HES-07.

Equivalent level of safety findings

The following equivalent level of safety findings established for previous EMB-145 models are applicable for the EMB-135BJ model:

- Use of 1-q stall criteria (various RBHA/FAR) EMB-135 FCAR HDE-01;
- Cockpit under floor access hatch and rear fuselage electronic compartment access hatch (RBHA/FAR 25.783(f)) – EMB-135 FCAR HES-03;



Issue: <u>13</u> Date: <u>30.Nov</u> 2022

- Flight critical thrust reverser (RBHA/FAR 25.933(a)(1)(ii)) - EMB-135 FCAR HPR-03;

SECTION 3: EMB-135ER, EMB-135LR, EMB-135BJ - continued

- Digital only display of turbine engine high/ intermediate pressure rotor speed (N2) (RBHA/FAR 25.1305(c)) - EMB-135 FCAR HPR-04;
- APU instrumentation and monitoring requirements (RBHA/FAR 25.1305 and 25.1501(b)) EMB-135 FCAR HPR-06; and
- Fire detector in the tail pipe (RBHA/FAR 25.1203(a)) EMB-135 FCAR HPR-01.

The following specific equivalent level of safety findings are applicable the EMB-135BJ model:

- Wheels-up landing (RBHA/FAR 25.721(b) and 25.963(d)) EMB-135BJ FCAR HES-03;
- Checked maneuver loads (RBHA 21.21(b)(1) and RBHA/FAR 25.331(c)(2)) -EMB-135BJ FCAR HES-09; and
- Class C baggage compartment isolation (RBHA/FAR 25.855(h) and 25.857(c)) EMB-135BJ FCAR HES-10
- Width of Aisle (RBHA/14 CFR Part 25.815) EMB-135BJ FCAR HES-14

See Section IV "Notes" – 2.2 for EMB-135BJ modified according to the DCA 0145-000-00020-2008.

12. EASA Certification Basis EMB-135BJ

JAR 25 Change 14 plus Orange Paper 25/96/1 (effective on 19 April 1996)
JAR AWO change 2 (effective on 01 August 1996)
CS 25.851(a)(6) at Amdt. 18 in regards to the equipment installation and qualification of

See Section IV "Notes" – 2.2 for EMB-135BJ modified according to the DCA 0145-000-00020-2008.

13. Special Conditions EMB-135BJ (in addition to EMB-135ER/LR)

Halon free hand-held Fire Extinguishers

INT/POL/25/7: Rapid Decompression	C-1005
INT/POL/25/13: Towbarless Towing	D-1005
Access Door to Baggage Compartment Class C (Ref. Also FCAR HES-10)	D-106
Glass Screens of Displays/Monitors	D-14
INT/POL/25/12: Fuel Tank Safety	E-110
INT/POL/25/09: Fuel Tank Crashworthiness	D-107
Fuel Tank Mounts	D-108
Primary In-flight Ice Detection System	F-1026
Enhanced Airworthiness Programme for Aeroplane Systems – ICA on EWIS	H-01
Low Fuel Quantity Indication	F-112

See Section IV "Notes" - 2.2 for EMB-135BJ modified according to the DCA 0145-000-00020-2008.

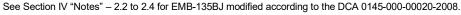
14. Equivalent Safety Findings EMB-135BJ (in addition to EMB-135ER/LR)

Location of Rear Auxiliary Fuel Tank Inside Fuselage	E-111
Exit Locator Sign	D-109
Width of Aisle	D-16

See Section IV "Notes" - 2.2 to 2.4 for EMB-135BJ modified according to the DCA 0145-000-00020-2008.

15. Deviations (formerly referred to as "Exemptions") EMB-135BJ

Dynamic Seat Testing for Side Facing Sofa (Ref. FCAR HES-07) –	
Post TC item	C-106





Issue: <u>13</u> Date: <u>30.Nov</u> 2022

SECTION 3: EMB-135ER, EMB-135LR, EMB-135BJ - continued

Environmental Standards EMB-135BJ

16.1. Noise

See TCDSN EASA.IM.A.032

16.2. Fuel venting

ICAO Annex 16, Volume II

See Section IV "Notes" - 2.2 to 2.4 for EMB-135BJ modified according to the DCA 0145-000-00020-2008.

17. Operational Suitability Requirements

- 17.1 OSD MMEL (as defined by CRI A-MMEL Issue 2, dated 14 December 2015) JAR MMEL/MEL Amendment 1, Section 1
- 17.2 OSD FCD

CS-Flight Crew Data, Initial Issue dated 31 January 2014

III. Technical Characteristics and Operational Limitations

Two aft mounted turbo-fan engine, short to medium range, single aisle, T-tail, large category airplane.

- EMB-135ER, EMB-135LR, EMB-135BJ
 - 1.1 Type Design Definition

EMB-135ER, EMB-135LR:

Defined in JAA CRI A-106. The design standard is included in report 135-MS-310: « EMB-135 Built Standard Definition for JAA certification ».

EMB-135BJ:

The design standard is included in report 135-MS-712:

« EMB-135BJ Built Standard Definition for JAA certification ».

1.2 Engines

EMB-135ER, EMB-135LR:

Two (2) Rolls-Royce Corp. USA AE3007A3 or

Two (2) Rolls-Royce Corp. USA AE3007A1/3 turbofan engines.

EMB-135BJ:

Two (2) Rolls-Royce Corp. USA AE3007A1E or

Two (2) Rolls-Royce Corp. US AE3007A2 turbofan engines (see Section IV "Notes" - 2.2)

1.2.1 Engine Limits:

See Section IV "Notes" - 1.1

1.3 Fuel

Eligible Fuels see Section IV "Notes" – 1.3



Issue: <u>13</u> Date: <u>30.Nov</u> 2022

SECTION 3: EMB-135ER, EMB-135LR, EMB-135BJ - continued

Fuel Capacity:

EMB-135ER:

Maximum usable fuel of 5146 litres (two tanks with 2573 litres each) Unusable fuel of 54 I (27 I per tank)

EMB-135LR:

Maximum usable fuel of 6396 litres (two tanks with 3198 litres each) Unusable fuel of 44 I (22 I per tank)

EMB-135BJ "Legacy 600" *) see Section IV "Notes" - 2.1.

Maximum usable fuel of 10264 liters (two forward fuselage tanks of 1112 liters at +8440 mm, two wing tanks of 3198 liters at 13147 mm and two aft fuselage tanks of 822 liters at +20293 mm.

Unusable fuel of 106 liters (forward tanks 27 liters, wing tanks 44 liters and aft tanks 35 liters)

EMB-135 BJ "Legacy 650": with SB/Factory Mod per DCA 145-000-00020/2008 See Section IV "Notes" – 2.2

Maximum usable fuel of 11 681 liters (two forward tanks of 1 143 liters at +8 439 mm, two wing tanks of 3 365 liters at +13 178 mm, two aft tanks of 825 liters at +20 304 mm and one ventral tank of 1 015 liters at 15 753 mm).

Unusable fuel of 167,2 liters (forward tanks 23 liters, wing tanks 97 liters, aft tanks 22 liters and ventral tank 25,2 liters).

1.4 Limit Speeds

Refer to approved Airplane Flight Manual.

1.5 Centre of Gravity Range

Refer to approved Airplane Flight Manual.

1.6 Maximum Certified Weights

MODEL	EMB-135ER	EMB-135LR	EMB-135BJ ¹⁾	EMB-135BJ ³⁾
Taxi and ramp	19090 kg <u>5)</u>	20090 kg	22570 kg	24370 kg
Take-off	18990 kg <u>5)</u>	19990 kg	22500 kg ²⁾	24300 Kg
Landing	18500 kg	18500 kg	18500 kg	20000 kg
Zero fuel	15600 kg 16000 kg ⁴⁾	16000 kg	16000 kg	16400 kg

¹⁾ see Section IV "Notes" - 2.1

1.7 Minimum Flight Crew:

Two (2): Pilot and Co-pilot for all types of flights



²⁾ For airplanes Pos-mod. SB 145LEG-25-0078 the MTOW will be 22 000 kg (to increase again the MTOW up to 22 500 kg, the SB 145LEG-25-0079 must be incorporated)

³⁾ For airplanes with the DCA 145-00-00020-2008 incorporated.

⁴⁾ For airplanes Post-Mod. SB 145-00-0025 or with an equivalent modification factory incorporated, the MZFW is 16000 kg. 5) For aircraft post-mod SB 145-00-0028 or with an equivalent factory modification incorporated: (MTOW=19,600kg / MRW=19,700kg)

Issue: <u>13</u> Date: <u>30.Nov</u> 2022

SECTION 3: EMB-135ER, EMB-135LR, EMB-135BJ - continued

1.8 Maximum Seating Capacity:

EMB-135ER, EMB-135LR: 37

EMB-135BJ: 19

1.9 Cargo compartment loading

EMB-135ER, EMB-135LR:

Location	Class	Volume
Front	NA	
Middle	NA	
Rear	D or C	9.2 m ³ (325 ft ³)
Underfloor	NA	

EMB-135BJ:

Location	Class	Volume
Front	NA	
Middle	NA	
Rear	С	6.8 m ³ (240 ft ³)
Underfloor	NA	

1.10 Environmental Flight Envelope

Refer to approved Airplane Flight Manual.

1.11 Other Limitations

Refer to approved Airplane Flight Manual.

1.12 Auxiliary Power Unit (APU)

EMB-135ER, EMB-135LR:

One (1) SUNDSTRAND T-62T-40C11 or One (1) T-62T-40C14 model

EMB-135BJ:

One (1) SUNDSTRAND T-62T-40C14 model For APU limits see see Section IV "Notes" – 1.2

1.13 Oils

Eligible Fuels see Section IV "Notes" - 1.4

Oil Capacity:

11,4 litres in each nacelle at +18 787mm

1.14 Equipment

EMB-135ER, EMB-135LR:

The approved equipment is listed in the EMBRAER technical report: 145-MS-300.



Issue: <u>13</u> Date: <u>30.Nov</u> 2022

SECTION 3: EMB-135ER, EMB-135LR, EMB-135BJ - continued

EMB-135BJ:

The approved equipment is listed in the EMBRAER technical report 135-MS-705.

1.15 All Weather Capabilities

CAT II

1.16 Wheels and Tyres

See Section IV "Notes" - 1.5

1.17 Hydraulics

Fluid specifications: SAE AS1241 Type IV

IV. Operating and Service Instructions

1. Airplane Flight Manual (AFM)

Airplanes must be operated according to the following EASA approved AFMs revision original (or later approved revisions):

- EMB-135ER, EMB-135LR: AFM 135/1283
- EMB-135BJ: AFM 135/1541
- 2. Instructions for Continued Airworthiness Airworthiness Limitations

EMB-135ER, EMB-135LR:

- The Airworthiness limitations Requirements are listed in the "Appendix 2",
 "Airworthiness Limitation Requirements" of the document MRB n°145/1150
- The Certification Maintenance Requirements are listed in the "Appendix 1", "Airworthiness Limitation Requirements", of the document MRB n°145/1150.

EMB-135BJ:

- The Airworthiness limitations Requirements are listed in the "Appendix 2", "Airworthiness Limitation Requirements" of the document MPG-1483
- The Certification Maintenance Requirements are listed in the "Appendix 1",
 "Airworthiness Limitation Requirements", of the document MPG-1483.
- 3. Maintenance Instructions

EMB-135ER, EMB-135LR:

- Aircraft Maintenance Manual (Customised to aircraft configuration)
- Structure Repair Manual : SRM 145/1422
- Service Letters and Service Bulletins

EMB-135BJ:

- Aircraft Maintenance Manual (Customised to aircraft configuration)
- Structure Repair Manual: SRM-1422, -2024, -3733
- Service Letters and Service Bulletins



Issue: <u>13</u> Date: <u>30.Nov</u> 2022

SECTION 3: EMB-135ER, EMB-135LR, EMB-135BJ - continued

V. Operational Suitability Data (OSD)

The Operational Suitability Data elements listed below are approved by the European Union Aviation Safety Agency under the EASA Type Certificate EASA.IM.A.032 as per Commission Regulation

(EU) 748/2012 as amended by Commission Regulation (EU) No 69/2014.

Master Minimum Equipment List (MMEL)
 The MMEL is defined in EMBRAER MMEL–145/6042 Original Revision or later approved revisions.

2. Flight Crew Data (FCD)

The FCD is defined in EMBRAER Report No. 135-MSO-008 Original Revision dated 25 January 2017 or later approved revisions.

Issue: <u>13</u> Date: <u>30</u>.Nov 2022

SECTION 4: NOTES (ALL MODELS)

1. All models

1.1 Engine Limits

Engine Models AE3007A and AE3007A1/1 Limits

Operating Conditions	-1000ft Static	Rotor Speed (%)	Rotor Speed (%)	Temperature
	Thrust (LB)	N1	N2	Limits (°C)
				ITT
Take Off	7580	99.9	102.4	921
Maximum Continuous	6820	99.9	102.4	868
Ground			57 to 102.4	
Starting				800

Engine Model AE3007A1 Limits

Operating Conditions	-1000ft Static Thrust (lb)	Rotor Speed (%) N1	Rotor Speed (%) N2	Temperature Limits (°C)
	,			ITT` ´
Take Off	7580	99.9	102.4	948
Maximum Continuous	6820	99.9	102.4	901
Ground			57 to 102.4	
Starting				800

Engine Model AE3007A3 Limits

Operating Conditions	-1000ft Static	Rotor Speed (%)	Rotor Speed (%)	Temperature
	Thrust (lb)	N1	N2	Limits (°C)
				ITT
Take Off	7201	100	102.5	948
Maximum Continuous	6820	100	102.5	901
Ground		100	102.5	948
Starting		100	102.5	800

Engine Model AE3007A1/3 Limits

Operating Conditions	-1000ft Static	Rotor Speed (%)	Rotor Speed (%)	Temperature
	Thrust (lb)	N1	N2	Limits (°C)
				ITT
Take Off	7580	100	102.5	948
Maximum Continuous	6820	100	102.5	901
Ground		100	102.5	948
Starting		100	102.5	800

Continued on next page

Issue: <u>13</u> Date: <u>30</u>.Nov 2022

SECTION 4: NOTES (ALL MODELS) - continued

Engine Model AE3007A1P Limits

Operating Conditions	-1000ft Static	Rotor Speed (%)	Rotor Speed (%)	Temperature
	Thrust (lb)	N1	N2	Limits (°C)
				1111
Take Off	8338	100	102.5	948
Maximum Continuous	6852	100	102.5	901
Ground			53.6 to 102.5	
Starting				800

Engine Model AE3007A1E Limits

Operating Conditions	-1000ft Static Thrust (lb)	Rotor Speed (%) N1	Rotor Speed (%) N2	Temperature Limits (°C) ITT
Take Off	8895	100	103.8	970
Maximum Continuous	7354	100	103.8	935
Ground			57.0 to 103.8	
Starting				800

[Legacy 650 (BJ enhanced]: Engine Model AE3007A2 Limits

Operating Conditions	-1000ft Static Thrust (lb)	Rotor Speed (%) N1	Rotor Speed (%) N2	Temperature Limits (°C) ITT
Take Off	9320	97,7%	105,0%	994
Maximum Continuous	7990	97,7%	105,0%	937
Ground				
Starting				800

For other engine limitations, see FAA TCDS TE6CH and Airplane Flight Manual.

1.2 APU Limits (SUNDSTRAND T-62-40C11 and T-62-40C14)

MAX RPM	MAX EGT Start	MAX EGT Steady State	MAX EGT Running
		(Limited to 5 minutes)	(normal)
108 %	884 °C (1624°F)	717°C (1323°F)	680°C (1256 °F)

1.3 Eligible Fuel

ASTM Specification D-1655 Jet A, Jet A1 and JP-8. (MIL-T 83133A)

1.4 Eligible Oil

MIL-L-7808 or Mil-L-23699

1.5 Wheels and Tyres

EMB-145, EMB-145ER, EMB-145EU, EMB-145EP, EMB-145MP, EMB-145MK, EMB-135ER, EMB-135LR, EMB-135BJ: H30 x 9.50-14 (Main); 19.5 x 6.75-8 (Nose)



Issue: <u>13</u> Date: <u>30.Nov</u> **2022**

SECTION 4: NOTES (ALL MODELS) - continued

EMB-145LR, EMB-145LU, EMB-135BJ with SB/Mod per DCA 145-000-00020/2008:

H30 x 9.50-16 (Main); 19.5 x 6.75-8 (Nose)

1.6 Ditching

All EMB-145 () and EMB-135 () models are not approved for ditching

2. EMB-135BJ

2.1 EMB-135BJ below S/N 145625

Engines: Two Rolls-Royce Corp. USA AE3007A1P turbofan engines

Maximum certified weights

MODEL	EMB-135BJ
	below SN 145625
Taxi and ramp	22270 kg
Take-off	22200 kg*
Landing	18500 kg
Zero fuel	16000 kg

^{*}For airplanes Pos-mod. SB 145LEG-25-0078 the MTOW will be 22 000 kg (to increase again the MTOW up to 22 200 kg, the SB 145LEG-25-0079 must be incorporated)

Fuel Capacity:

Maximum usable fuel of 10152 liters (two forward fuselage tanks of 1056 liters at +8440 mm, two wing tanks of 3198 liters at 13147 mm and two aft fuselage tanks of 822 liters at +20293 mm). Unusable fuel of 106 liters (forward tanks 27 liters, wing tanks 44 liters and aft tanks 35 liters).

2.2 EMB-135BJ modified with new Engines AE3007A2, MTOW increase and more fuel tank according to the DCA 0145-000-00020-2008/EASA (EMB-135BJ PERFORMANCE ENHANCEMENTS). The EMB-135BJ with this modification embodied is commercially known as Legacy 650.

Engines: Two Rolls-Royce Corp. USA AE3007A2 turbofan engines

Maximum certified weights

Taxi and ramp	24 370 kg
Take-off	24 300 kg
Landing	20 000 kg
Zero fuel	16 400 kg

*For airplanes Pos-mod. SB 145LEG-25-0078 the MTOW will be 22 000 kg (to increase again the MTOW up to 24 300 kg, the SB 145LEG-25-0079 must be incorporated)

Issue: <u>13</u> Date: <u>30.Nov</u> 2022

SECTION 4: NOTES (ALL MODELS) - continued

Fuel Capacity:

Maximum usable fuel of 11 681 liters (two forward tanks of 1 143 liters at +8 439 mm, two wing tanks of 3 365 liters at +13 178 mm, two aft tanks of 825 liters at +20 304 mm and one ventral tank of 1 015 liters at 15 753 mm).

Unusable fuel of 167,2 liters (forward tanks 23 liters, wing tanks 97 liters, aft tanks 22 liters and ventral tank 25,2 liters).

- 2.3 Special Condition H-01 Enhanced Airworthiness Programme for Aeroplane Systems

 ICA on EWIS is not applicable to EMB-135BJ.
 For areas affected by Major Change Modification 0145-000-00020-2008, CS 25
 Amdt 5 EWIS requirements are applicable.
- 2.4 Certification Basis for EMB-135BJ with DCA 0145-000-00020-2008/EASA (EMB-135BJ PERFORMANCE ENHANCEMENTS

All Special Conditions, Deviations (formerly referred to as "Exemptions"), and Equivalent Safety Findings as noted for the EMB-135BJ are applicable.

Following additional requirements apply:

Special Condition: Low Fuel Quantity F-112

Elect to comply: Noise Certification iaw Stage 4 N-1

For the areas affected by the Major Change Modification 0145-000-00020-2008 following requirements apply at CS-25 Amdt 5:

25.1			25.21	25.23
25.25	25.27	25.29	25.31	25.101
25.103	25.105	25.107	25.109	25.111 (a)(b)(c)(d)
25.113	25.115	25.117	25.119	25.121
25.123 (a)(b)	25.125 (a)(b)(c) (f)(g)	25.143	25.145	25.147 (a)(c)(d)(f)
25.149 (a)(b)(c)(d) (e)(f)(h)	25.161 (a)(b)(c)(d)	25.171	25.173	25.175
25.177	25.181	25.201		25.207
25.231 (a)	25.233	25.235	25.237 (a)	25.251
25.253	25.255	25.301	25.303	25.305
25.307	25.321	25.331	25.333	25.335 (a)(b)(c) (d)(1)(2)(e)(1)(3)(f)
	25.341	25.343 (a)(b)(3)	25.345 (a)(b)(2)(d)	25.349

Issue: <u>13</u> Date: <u>30.Nov</u> 2022

25.351	25.361 (b)	25.363	25.365	25.367
25.371	25.373 (a)	25.391	25.393	25.395
25.397	25.399 (a)(1)(b)	25.409 (c)	25.415 (a)(1)(2)(b)	25.427 (a) (b) (c)
25.445 (a)	25.457	25.459	25.471	25.477
25.479 (a)(c)(d)	25.481 (a)(c)	25.483	25.485	25.487
25.489	25.491		25.495	25.499 (a)(b)(c)(e)
25.503	25.507 (a)(b)	25.509 (a)(1)(2) (3)(ii)(c)(d)	25.511	
25.561	25.571	25.581	25.601	25.603
	25.607	25.609	25.611	25.613
25.619	25.621	25.623	25.625	25.629
25.631	25.651	25.657	25.671 (a)(b)(c)	25.672 (b)(c)
25.675	677 (c)	25.683	25.685	25.689
25.693	25.697	25.699		25.703
25.721	25.729 (a)(1) (b)(c)(d)(e)(f)	25.731 (a)(b)(c)(d)	25.733 (b)(c)	25.735 (a)(d)(e)(1) (f)(g) (h)(1)(i)(k)
25.721 25.775	25.729 (a)(1) (b)(c)(d)(e)(f) 25.777(a)(b)(d)	25.731 (a)(b)(c)(d) 25.785 (b)(c) (f)(1)(3)	25.733 (b)(c) 25.787 (a)(b)	
	(b)(c)(d)(e)(f)	25.785 (b)(c)	, , , ,	(f)(g) (h)(1)(i)(k)
25.775	(b)(c)(d)(e)(f) 25.777(a)(b)(d)	25.785 (b)(c) (f)(1)(3)	25.787 (a)(b)	(f)(g) (h)(1)(i)(k) 25.789 (a) 25.903 (a)(b)(c)
25.775 25.855 (j)	(b)(c)(d)(e)(f) 25.777(a)(b)(d) 25.863	25.785 (b)(c) (f)(1)(3) 25.865	25.787 (a)(b) 25.899	(f)(g) (h)(1)(i)(k) 25.789 (a) 25.903 (a)(b)(c) (d)(e) 25.951 (a)(b)(2)
25.775 25.855 (j) 25.904	(b)(c)(d)(e)(f) 25.777(a)(b)(d) 25.863 25.934	25.785 (b)(c) (f)(1)(3) 25.865 25.939	25.787 (a)(b) 25.899	(f)(g) (h)(1)(i)(k) 25.789 (a) 25.903 (a)(b)(c) (d)(e) 25.951 (a)(b)(2) (c)(d)
25.775 25.855 (j) 25.904 25.952	(b)(c)(d)(e)(f) 25.777(a)(b)(d) 25.863 25.934 25.953	25.785 (b)(c) (f)(1)(3) 25.865 25.939 25.954	25.787 (a)(b) 25.899 	(f)(g) (h)(1)(i)(k) 25.789 (a) 25.903 (a)(b)(c) (d)(e) 25.951 (a)(b)(2) (c)(d) 25.957
25.775 25.855 (j) 25.904 25.952 25.959	(b)(c)(d)(e)(f) 25.777(a)(b)(d) 25.863 25.934 25.953 25.961	25.785 (b)(c) (f)(1)(3) 25.865 25.939 25.954 25.963	25.787 (a)(b) 25.899 25.965 (a)(b)	(f)(g) (h)(1)(i)(k) 25.789 (a) 25.903 (a)(b)(c) (d)(e) 25.951 (a)(b)(2) (c)(d) 25.957 25.967 25.977 (a)(2)
25.775 25.855 (j) 25.904 25.952 25.959 25.969	(b)(c)(d)(e)(f) 25.777(a)(b)(d) 25.863 25.934 25.953 25.961 25.971	25.785 (b)(c) (f)(1)(3) 25.865 25.939 25.954 25.963	25.787 (a)(b) 25.899 25.965 (a)(b) 25.975 (a)	(f)(g) (h)(1)(i)(k) 25.789 (a) 25.903 (a)(b)(c) (d)(e) 25.951 (a)(b)(2) (c)(d) 25.957 25.967 25.977 (a)(2) (c)(d)(e)
25.775 25.855 (j) 25.904 25.952 25.959 25.969 25.979	(b)(c)(d)(e)(f) 25.777(a)(b)(d) 25.863 25.934 25.953 25.961 25.971 25.981	25.785 (b)(c) (f)(1)(3) 25.865 25.939 25.954 25.963 25.973	25.787 (a)(b) 25.899 25.965 (a)(b) 25.975 (a) 25.993	(f)(g) (h)(1)(i)(k) 25.789 (a) 25.903 (a)(b)(c) (d)(e) 25.951 (a)(b)(2) (c)(d) 25.957 25.967 25.977 (a)(2) (c)(d)(e) 25.994
25.775 25.855 (j) 25.904 25.952 25.959 25.969 25.979	(b)(c)(d)(e)(f) 25.777(a)(b)(d) 25.863 25.934 25.953 25.961 25.971 25.981 25.997	25.785 (b)(c) (f)(1)(3) 25.865 25.939 25.954 25.963 25.973 25.999	25.787 (a)(b) 25.899 25.965 (a)(b) 25.975 (a) 25.993 25.1001 (a)	(f)(g) (h)(1)(i)(k) 25.789 (a) 25.903 (a)(b)(c) (d)(e) 25.951 (a)(b)(2) (c)(d) 25.957 25.967 25.967 25.977 (a)(2) (c)(d)(e) 25.994 25.1011 (a)
25.775 25.855 (j) 25.904 25.952 25.959 25.969 25.979 25.995	(b)(c)(d)(e)(f) 25.777(a)(b)(d) 25.863 25.934 25.953 25.961 25.971 25.981 25.997	25.785 (b)(c) (f)(1)(3) 25.865 25.939 25.954 25.963 25.973 25.999 25.1017 25.1043 (a)(1)(2)	25.787 (a)(b) 25.899 25.965 (a)(b) 25.975 (a) 25.993 25.1001 (a) 25.1019	(f)(g) (h)(1)(i)(k) 25.789 (a) 25.903 (a)(b)(c) (d)(e) 25.951 (a)(b)(2) (c)(d) 25.957 25.967 25.977 (a)(2) (c)(d)(e) 25.994 25.1011 (a) 25.1021 25.1091 (a)(1)



Issue: <u>13</u> Date: <u>30.Nov</u> 2022

25.1193 (a)(b)(d)		25.1199 (d)	25.1207	25.1301
25.1305 (a)(1)(2) (d)(1)	25.1309	25.1310	25.1316	25.1322
25.1323 (b)(c)(h)	25.1325 (e)	25.1337 (b)(1)	25.1351 (a)(1)(d)	25.1353 (a)(c)
	25.1357 (a)(c)(d) (e)(f)(g)	25.1360 (a)(b)		25.1419
25.1431		25.1438 (b)(c)	25.1455	25.1459
25.1461(b)(c)	25.1501 (a)(b)	25.1503	25.1505	25.1507
25.1511	25.1513	25.1515	25.1516	25.1517
25.1519	25.1521 (a)(c)(d)	25.1523	25.1527	25.1529
25.1531	25.1533 (a)(b)	25.1541	25.1549	25.1551
25.1553	25.1555 (c)	25.1581	25.1583 (a)(b) (c)(h)	25.1585
25.1587	25.1591	25.1701	25.1703	25.1705 (a)(b)(2)(4)
25.1707 (a) (b)(e) (f)(i)(j)(k)(l)	25.1709	25.1711 (e)	25.1713	25.1715
25.1717	25.1719	25.1721 (b)	25.1723	25.1725
25.1727	25.1729	Appendix C	Appendix H H25.1, H25.4, H25.5	

Reversions to earlier amendment levels as listed below have been granted iaw 21A.101

25.203 JAR 25 OP 96/1	25.337 (a)(b)(c) JAR 25 Chg 14	25.493 (b)(d)(e) JAR 25 Change 15	25.519 JAR 25 Chg 14	25.605 JAR 25 Chg 14
25.701 JAR 25 Chg 14	25.807 (e)(2) JAR 25 Chg 14 Eguals FAR 807	25.831 (a) JAR 25 Chg 14	25.869 (a)(3) JAR 25 Chg 16	25.901 (a) (b)(2)(3)(c) JAR 25 Chg 14
25.933 (a) JAR 25 Chg 16	25.943 JAR 25 Chg 14	25.955 JAR 25 Chg 14	25.991 JAR 25 Chg 14	25.1013 (b)(c)(d)(e) JAR 25 Cha 14
	25.1093 (b) JAR 25 Chg 14	25.1189 (a)(1) (b)(c)(d)(e)(f)(g)(h)		25.1203 JAR 25 Chg 14
25.1303 JAR 25 Chg 14	25.1321 (a)(c)(1) at JAR 25 Chg 14	JAR 25 Cha 14 25.1329 (g) JAR 25 Chg 14		



Issue: <u>13</u> Date: <u>30.Nov</u> 2022

SECTION: ADMINISTRATIVE

I. Acronyms and Abbreviations

AFM Airplane Flight Manual

AMC Acceptable Means of Compliance

ANAC Agência Nacional De Aviação Civil (CAA Brazil)

APU Auxiliary Power Unit
AWO All Weather Operations
CRI Certification Review Item
CS Certification Specification

EASA European Union Aviation Safety Agency

ES(F) Equivalent Safety (Finding)

EWIS Enhanced Wiring Interconnection System

FAA Federal Aviation Administration
FAR Federal Aviation Regulation
HIRF High Intensity Radiated Field

ICA Instructions for Continued Airworthiness ICAO International Civil Aviation Organization

JAA Joint Aviation Authorities

JAR Joint Aviation Requirements

MRB Maintenance Review Board

NPA Notice of Proposed Amendment

S/N Serial Number
SB Service Bulletin
SC Special Condition
TC Type Certificate

TCDS Type Certificate Data Sheet

II. Type Certificate Holder Record

Embraer S.A. Av. Brig. Faria Lima. 2170 12227-901 São Jose dos Campos SP Brazil

Before 1 January 2022: Yaborã Indústria Aeronáutica S.A. Av. Brig. Faria Lima. 2170 12227-901 São Jose dos Campos SP Brazil

Before 31 January 2020: Embraer S.A. Av. Brig. Faria Lima. 2170 12227-901 São Jose dos Campos SP Brazil



Issue: <u>13</u> Date: <u>30.Nov</u> 2022

Before January 2011: Empresa Brasileira de Aeronáutica SA Av. Brig. Faria Lima. 2170 12227-901 São Jose dos Campos SP Brazil

SECTION: ADMINISTRATIVE - continued

III. Change Record

(starting with Issue 04)

Issue	Date	Changes	TC issue
Issue 04	07/10/2010	Implemented changes due to validation of DCA 0145-000-00020-2008/EASA "EMB-135BJ Performance Enhancements"	Issue 01, 28/02/05
		Included Generic Special Condition CRI H-1 Enhanced Airworthiness Programme for Aeroplane Systems (ICA on EWIS)	
		Low Fuel Quantity Indication CRI F-112	
Issue 05	27/10/2010	Correction of Ramp weight for EMB-145 LR (A1/1 engines)	
Issue 06	03/08/2012	EMB-135ER MZFW increased to 16000Kg for airplanes Post-Mod. SB 145-00-0025 or with an equivalent modification factory incorporated	
		Added Note regarding applicability of Special Condition CRI H-1 for EMB-135BJ	
		Added Special Condition D-14 (Glass Screens of Displays/Monitors) for EMB-135BJ	
Issue 07	08/05/2013	Fuel capacity correction for EMB-145MP & EMB-145 MK	
		Rewording of Note 2.3 concerning applicability of SC H-01 to EMB-135BJ	
		Section 3 – 1.3: correction of EMB-135ER Maximum Design weights	
		Section 3 – 1.18: Maintenance Instructions added references and typo corrections	
		Section 4 – 1.1: Engine limits corrections	
Issue 08	17/12/2015	Section 2, Chapter II.11 - Certification Basis for OSD introduced Section 2, Chapter IV - New chapter for "Operating and Service Instructions" introduced (information is not changed) Section 2, Chapter V - New chapter for "Operational Suitability Data" introduced Section 3, Chapter II.17 - Certification Basis for OSD introduced Section 3, Chapter IV - New chapter for "Operating and Service Instructions" introduced (information is not	
		Instructions" introduced (information is not changed) Section 3, Chapter V	

Issue: <u>13</u> Date: <u>30.Nov</u> 2022

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		- New chapter for "Operational Suitability Data"	
		introduced	
		Section 2, Chapter II and Section 3, Chapter II	
		- Included CRI F-38 - Lavatory Oxygen System	
		Restoration	
		Section 2, Chapter IV	
		- Updated Maintenance Instructions references.	
Issue 09	21/06/2018	Section 2, Chapter II.7	
		- Additional reference to Special Condition D-15	
		introduced	
		Section 2, Chapter V	
		- Revised reference of updated OSD-FCD report	
		introduced	
		Section 3, Chapter II.7	
		- Additional reference to Special Condition D-15	
		introduced	
		Section 3, Chapter II.11	
		- Additional reference to Equivalent level of safety	
		finding FCAR HPR-03 introduced	
		Section 3, Chapter II.12	
		Additional reference to ESF CRI D-16 introduced	
		Section 3, Chapter V	
		- Revised reference of updated OSD-FCD report	
		introduced	
Issue 10	19/12/2018	Section 2, Chapter II.6	
13306 10	19/12/2010	- Additional reference to CS 25.851(a)(6) at Amdt.	
		18 introduced	
		Section 3, Chapter II.6	
		- Additional reference to CS 25.851(a)(6) at Amdt.	
		18 introduced	
		Section 3, Chapter II.12	
		- Additional reference to CS 25.851(a)(6) at Amdt.	
		18 introduced	
Issue 11	31/01/2020	Transfer of Type Certificate Holder from "Embraer	
issue i i	31/01/2020	S.A." to "Yaborã Indústria Aeronáutica S.A."	
		EASA name reference changed to "European	
		Union Aviation Safety Agency"	
leave 40	24/04/2022	TC Holder Transfer Update	
Issue 12	31/01/2022	Re-published on 1/1/2022 with re-formatted front	
1 10	00/44/0000	Indate to latest EASA Standards in Sections:	
Issue 13	30/11/2022	-Update to latest EASA Standards in Sections:	
		 2 'Environmental Standards' (EMB- 	
		1.45 m a dala)	
		145models)	
		 3 'Environmental Standards EMB-135ER, 	
		 3 'Environmental Standards EMB-135ER, EMB-135LR'; 'Environmental Standards 	
		 3 'Environmental Standards EMB-135ER, EMB-135LR'; 'Environmental Standards EMB-135BJ' 	
		 3 'Environmental Standards EMB-135ER, EMB-135LR'; 'Environmental Standards 	

--End of TCDS IM.A.032--

