

United States of America
Department of Transportation -- Federal Aviation Administration
Supplemental Type Certificate

Number ST03089NY

This certificate issued to

BE Aerospace, Inc. DBA SMR Technologies, Inc.
93 Nettie Fenwick Rd
Fenwick, WV 26202

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 25 of the Federal Aviation Regulations.

Original Product - Type Certificate Number : A31SO

Make : Empresa Brasileira de Aeronautica S. A. (EMBRAER)

Model : EMB-120, EMB-120RT, EMB-120ER, EMB-120FC, EMB-120QC

Description of Type Design Change:

Replacement of certain Goodrich pneumatic deicer boots in accordance with SMR Technologies, Inc. Pneumatic De-Icer Layout, Embraer 120, 120RT, 120ER, 120FC, 120QC, Document No. SMR5135, revision 4, dated May 15, 2012, and detail design as listed on Master Drawing List MDL-0055, revision E, dated May 15, 2012.

Limitations and Conditions:

1. The Maintenance Instructions for Continued Airworthiness in accordance with Chapter 30 of Embraer Aircraft Maintenance Manual MM-120/1459, Revision 29-28, dated September 2011, is required with this modification.
2. This STC does not require revised Electrical Wiring Interconnection System (EWIS) Instructions for Continued Airworthiness (ICA).
3. The Installer must determine whether this design change is compatible with previously approved modifications.
4. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

(See Continuation Sheet 2)

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application : June 22, 2009

Date reissued :

Date of issuance : May 17, 2012

Date amended :

By direction of the Administrator



Gaetano Sciortino

(Signature)

Gaetano Sciortino
Acting Manager,
New York Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

Supplemental Type Certificate

(Continuation Sheet)

Number ST03089NY

Date of Issuance: May 17, 2012

Certification Basis:

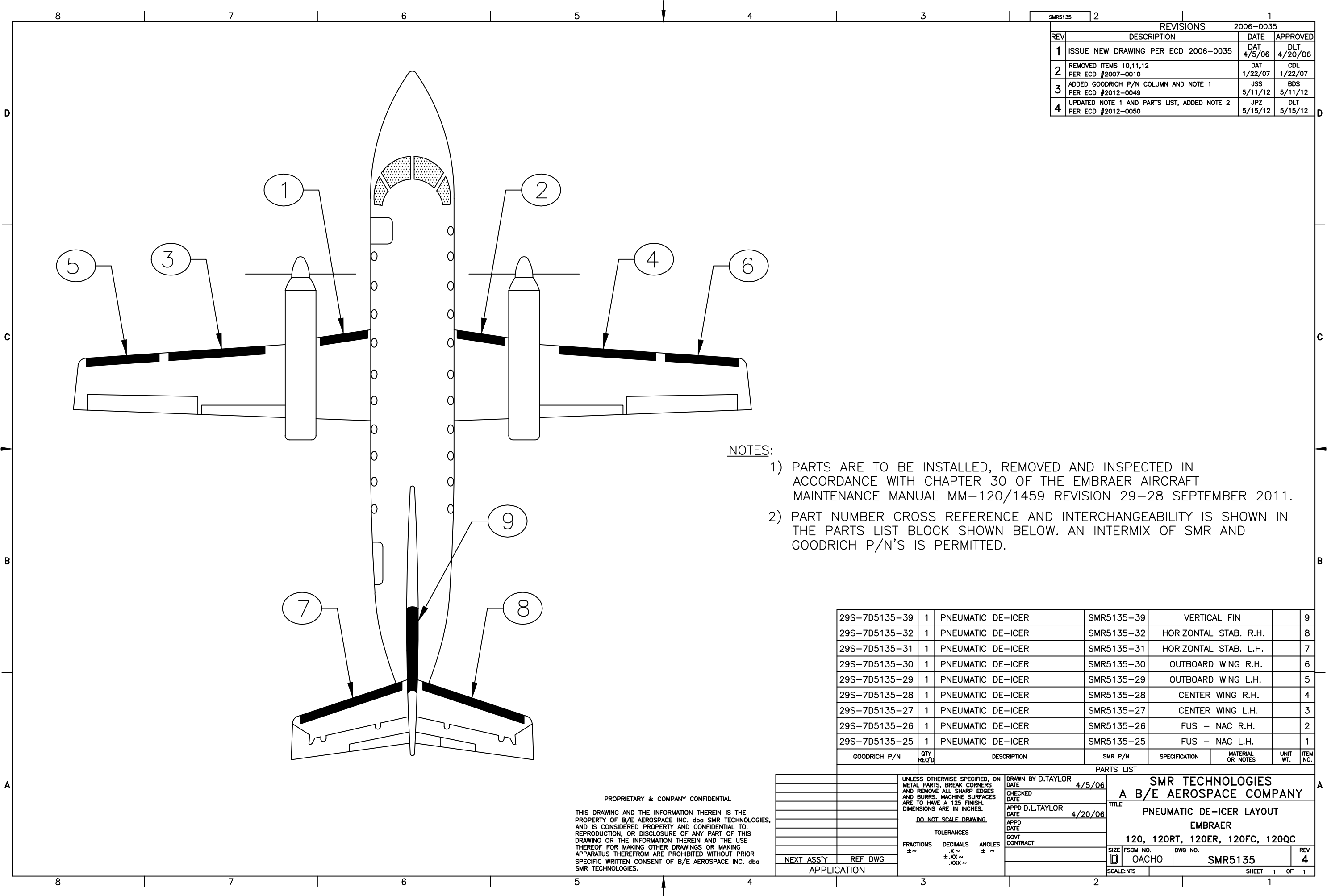
Based on 14 CFR §§ 21.115 and 21.101, and the FAA policy for changes that are not significant in FAA Order 8110.48, the certification basis for this modification are as follows:

- The type certification basis for the Embraer EMB-120 series aircraft are type certified under TCDS NO. A31SO for parts not changed or not affected by the change.
- The type certification basis for the Embraer EMB-120 series aircraft are type certified under TCDS NO. A31SO for parts changed or affected by the change with the following 14 CFR exceptions:

14 CFR Section 26.11(c) Amendment 26-0

.....END.....

REVISIONS 2006-0035			
REV	DESCRIPTION	DATE	APPROVED
1	ISSUE NEW DRAWING PER ECD 2006-0035	DAT 4/5/06	DLT 4/20/06
2	REMOVED ITEMS 10,11,12 PER ECD #2007-0010	DAT 1/22/07	CDL 1/22/07
3	ADDED GOODRICH P/N COLUMN AND NOTE 1 PER ECD #2012-0049	JSS 5/11/12	BDS 5/11/12
4	UPDATED NOTE 1 AND PARTS LIST, ADDED NOTE 2 PER ECD #2012-0050	JPZ 5/15/12	DLT 5/15/12



- NOTES:**
- 1) PARTS ARE TO BE INSTALLED, REMOVED AND INSPECTED IN ACCORDANCE WITH CHAPTER 30 OF THE EMBRAER AIRCRAFT MAINTENANCE MANUAL MM-120/1459 REVISION 29-28 SEPTEMBER 2011.
 - 2) PART NUMBER CROSS REFERENCE AND INTERCHANGEABILITY IS SHOWN IN THE PARTS LIST BLOCK SHOWN BELOW. AN INTERMIX OF SMR AND GOODRICH P/N'S IS PERMITTED.

GOODRICH P/N	QTY REQ'D	DESCRIPTION	SMR P/N	SPECIFICATION	MATERIAL OR NOTES	UNIT WT.	ITEM NO.
29S-7D5135-39	1	PNEUMATIC DE-ICER	SMR5135-39		VERTICAL FIN		9
29S-7D5135-32	1	PNEUMATIC DE-ICER	SMR5135-32		HORIZONTAL STAB. R.H.		8
29S-7D5135-31	1	PNEUMATIC DE-ICER	SMR5135-31		HORIZONTAL STAB. L.H.		7
29S-7D5135-30	1	PNEUMATIC DE-ICER	SMR5135-30		OUTBOARD WING R.H.		6
29S-7D5135-29	1	PNEUMATIC DE-ICER	SMR5135-29		OUTBOARD WING L.H.		5
29S-7D5135-28	1	PNEUMATIC DE-ICER	SMR5135-28		CENTER WING R.H.		4
29S-7D5135-27	1	PNEUMATIC DE-ICER	SMR5135-27		CENTER WING L.H.		3
29S-7D5135-26	1	PNEUMATIC DE-ICER	SMR5135-26		FUS - NAC R.H.		2
29S-7D5135-25	1	PNEUMATIC DE-ICER	SMR5135-25		FUS - NAC L.H.		1

UNLESS OTHERWISE SPECIFIED, ON METAL PARTS, BREAK CORNERS AND REMOVE ALL SHARP EDGES AND BURRS. MACHINE SURFACES ARE TO HAVE A 125 FINISH. DIMENSIONS ARE IN INCHES.		DRAWN BY D.TAYLOR DATE 4/5/06		SMR TECHNOLOGIES A B/E AEROSPACE COMPANY TITLE PNEUMATIC DE-ICER LAYOUT EMBRAER 120, 120RT, 120ER, 120FC, 120QC SIZE FSCM NO. DWG NO. REV D OACHO SMR5135 4 SCALE: NTS SHEET 1 OF 1	
DO NOT SCALE DRAWING.		CHECKED DATE APPD D.L.TAYLOR 4/20/06			
TOLERANCES		APPD DATE			
FRACTIONS DECIMALS ANGLES ±~ .X~ ±~ ±.XX~ .XXX~		GOVT CONTRACT			
NEXT ASS'Y	REF DWG	APPLICATION			

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MASTER DRAWING LIST
FOR
EMBRAER 120

MDL-0055
 Date: 05/15/12
 Rev: E
 Page 1 of 1
 ECD 2012-0050

<u>P/N</u>	<u>DOCUMENT</u>	<u>REVISION</u>	<u>TITLE</u>
All SMR5135 Series	SMR5135	4	Pneumatic De-Icer Layout, Embraer 120, 120RT, 120ER, 120FC, 120QC
SMR5135-25	SMR5135-25	A	Pneumatic De-Icer Layout, Embraer 120, Fus. – Nac. L.H.
	A-SMR5135-25	A	Pneumatic De-Icer Layout, Embraer 120, Fus. – Nac. L.H.
SMR5135-26	SMR5135-26	A	Pneumatic De-Icer Layout, Embraer 120, Fus. – Nac. R.H.
	A-SMR5135-26	A	Pneumatic De-Icer Layout, Embraer 120, Fus. – Nac. R.H.
SMR5135-27	SMR5135-27	A	Pneumatic De-Icer Layout, Embraer 120, Center Wing L.H.
	A-SMR5135-27	A	Pneumatic De-Icer Layout, Embraer 120, Center Wing L.H.
SMR5135-28	SMR5135-28	A	Pneumatic De-Icer Layout, Embraer 120, Center Wing R.H.
	A-SMR5135-28	A	Pneumatic De-Icer Layout, Embraer 120, Center Wing R.H.
SMR5135-29	SMR5135-29	A	Pneumatic De-Icer Layout, Embraer 120, Outboard Wing L.H.
	A-SMR5135-29	A	Pneumatic De-Icer Layout, Embraer 120, Outboard Wing L.H.
SMR5135-30	SMR5135-30	A	Pneumatic De-Icer Layout, Embraer 120, Outboard Wing R.H.
	A-SMR5135-30	A	Pneumatic De-Icer Layout, Embraer 120, Outboard Wing R.H.
SMR5135-31	SMR5135-31	A	Pneumatic De-Icer Layout, Embraer 120, Horz. Stab. L.H.
	A-SMR5135-31	A	Pneumatic De-Icer Layout, Embraer 120, Horz. Stab. L.H.
SMR5135-32	SMR5135-32	A	Pneumatic De-Icer Layout, Embraer 120, Horz. Stab. R.H.
	A-SMR5135-32	A	Pneumatic De-Icer Layout, Embraer 120, Horz. Stab. R.H.
SMR5135-39	SMR5135-39	A	Pneumatic De-Icer Layout, Embraer 120, Vertical Fin
	A-SMR5135-39	A	Pneumatic De-Icer Layout, Embraer 120, Vertical Fin
ALL SMR5135 Series	PL-A-SMR5135	B	SMR Assembly Parts List SMR5135 Series
ALL SMR5135 Series	PS-PDI	C	Product Specification Pneumatic De-Icer

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