

**Technical Arrangement  
Between  
Civil Aviation Administration of China  
And  
Transport Canada Civil Aviation  
For  
The Validation Of  
Supplemental Type Certificate No. SA02-145  
Issued To  
Field Aviation Co. Inc.  
For  
Retrofit of Collins CMU-900 ACARS  
On  
BOMBARDIER CL600 2B19 (Regional Jet Series 100), CL600  
2B19 (Regional Jet Series 440)**

**Civil Aviation Administration of China      Transport Canada Civil Aviation**

**China**  
Aircraft Airworthiness Certification  
Department

By:



Director General

Date: 2014.7.10

By:



Director, Standards (AART)

Date: Aug 26, 2014

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**1.0 PURPOSE**

(1) This Technical Arrangement (TA) defines the working relationship between Transport Canada Civil Aviation (TCCA) and the Civil Aviation Administration of China (CAAC), to facilitate the CAAC validation of Transport Canada Supplemental Type Certificate No. SA 02-145 Issued To Field Aviation Co. Inc. For Retrofit of Collins CMU-900 ACARS On BOMBARDIER CL-600-2B19 (Regional Jet Series 100) , CL600 2B19 (Regional Jet Series 440), the validation of subsequent design changes, and to address continued airworthiness activities.

**2.0 OBJECTIVES**

- (1) This TA is intended to accomplish the following objectives:
- (a) to define the working procedures under the respective responsibilities of each Authority:
    - (i) for the STC validation process including issuance of a validated STC by the CAAC; and
    - (ii) for subsequent post validation activities.
  - (b) to minimize redundant inspections, tests, demonstrations, evaluations, and approvals.

**3.0 CAAC REQUIREMENT**

- (1) The requirement for this TA stems from paragraph 21.29 of CCAR 21 – *Certification Procedures for Civil Aviation Products and Parts*.

## **4.0 DURATION AND TERMINATION**

- (1) This TA becomes effective upon signature by both CAAC and TCCA, and will remain in force until terminated by either Authority in accordance with 4.0 (2) below.
- (2) Either Authority may at any time give written notice to the other of its decision and supporting rationale to terminate this TA. This TA shall terminate 90 days following receipt of the notice by the other Authority, unless said notice is withdrawn by mutual agreement before the expiry of the 90-day period.

## **5.0 COMMUNICATION**

- (1) The Aircraft Airworthiness Certification Department of CAAC (CAAC-AAD) and the Standards Branch (AART) of TCCA are responsible for the administration of this Technical Arrangement (TA). TCCA Standards Branch (AART) will work in conjunction with the Aircraft Certification Division –Ontario Region identified in Appendix 1, which has geographical jurisdiction over the holder of this STC.
- (2) All communications between CAAC-AAD and TCCA related to the activities of this TA will be made in the English language or Chinese language accompanied by an English translation. The contact points for CAAC-AAD and TCCA are provided in Appendix 1 of this TA. Unless otherwise specified, TCCA shall be copied of all correspondence between Field Aviation Co. Inc. and CAAC related to the activities of this TA.
- (3) Any disagreement regarding the interpretation or application of this TA will be resolved by consultation between the CAAC-AAD and TCCA. Every effort should be made to resolve differences at the technical level. Issues that cannot be satisfactorily resolved at the technical level should be expeditiously raised to the attention of the responsible contact points of TCCA and CAAC-AAD on a progressive level until an agreement or resolution is reached.

## **6.0 VALIDATION ACTIVITIES**

### **6.1 General**

- (1) TCCA and CAAC recognize that Field Aviation Co. Inc.:
  - (a) is the primary source for providing the technical support to CAAC-AAD for purposes of this TA. When requested, TCCA may provide necessary assistance and support within its regulatory functions and resource capacity.
  - (b) is responsible for demonstrating compliance with the CAAC-AAD certification basis.

### **6.2 Certification Basis**

- (1) The subject of the CAAC validation is:
  - (a) Transport Canada STC no. SA 02-145 Issue 1, as issued on December 24, 2002; and,
  - (b) Any subsequent issues of this STC that are validated by the CAAC.
- (2) The Transport Canada certification basis for this STC is defined on the STC document.

- (3) The CAAC certification basis for the purposes of the validation of the Transport Canada STC no. SA 02-145 and issuance of a CAAC-validated Supplemental Type Certificate (VSTC) is the same as that of the Transport Canada STC no. SA 02-145 plus any Additional Technical Conditions (ATCs) notified. CAAC-AAD will notify in writing both TCCA and Field Aviation Co. Inc.. of any ATCs necessary for the CAAC validation.

### **6.3 Findings of Compliance**

- (1) CAAC-AAD will perform its own findings of compliance for the purpose of its validation activity. However, CAAC may elect to recognize or accept findings of compliance by TCCA for those requirements that they have a similar or common interpretation.
- (2) CAAC-AAD may request assistance from TCCA in findings of compliance for those ATCs identified under paragraph 6.2(3), except those requirements or airworthiness standards where TCCA has not acquired sufficient understanding to make a finding of compliance on behalf of CAAC.

### **6.4 Issuance of Validated Supplemental Type Certificate**

- (1) CAAC will issue its own corresponding VSTC once it has determined that the type design complies with the CAAC certification basis established under paragraph 6.2(3).

### **6.5 Approval of Aircraft Flight Manual Supplement**

- (1) Aircraft flight manual supplements, if any, will be approved by TCCA on behalf of the CAAC-AAD and will be in accordance to the CAAC approved type design.

## **7.0 POST VALIDATION ACTIVITIES**

### **7.1 Design Change Approval**

- (1) Design changes that result in the re-issuance of the TCCA STC no. SA02-145 which will constitute the basis for the issuance of the CAAC-VSTC under this TA, will have to be validated by CAAC by applying a certification procedure similar to that described in section 6.0.

*Note: Design changes include repair designs.*

- (2) All other design changes approved by TCCA or its appropriately-authorized delegate and in compliance with the CAAC validation basis will be considered approved by CAAC.

## **8.0 CONTINUED AIRWORTHINESS SUPPORT ACTIVITIES**

- (1) When the service experience in China indicates the existence of an unsafe condition associated with the design or manufacturing of the subject STC, CAAC will promptly notify TCCA of such information. When such information is provided, TCCA will promptly analyze this information in coordination with the STC holder and, where appropriate, will notify CAAC of any action it deems necessary.
  - (2) In accordance with ICAO Annex 8, Airworthiness of Aircraft, TCCA will promptly notify CAAC of any mandatory continuing airworthiness information related to the subject STC that TCCA has found necessary for the continuing airworthiness and safe operation of affected aircraft.
  - (3) TCCA, upon request, will assist CAAC in establishing procedures deemed necessary by CAAC for maintaining the continuing airworthiness of the aeronautical product covered by this STC.
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**APPENDIX 1: POINTS OF CONTACT for TCCA STC no. SA02-145**

CAAC	TCCA
<p><b>Aircraft Airworthiness Certification Department</b></p> <p><b>Director, Aircraft Certification Division</b>            155 Dongsu Street West            Beijing 100710            Peoples Republic of China</p> <p>Phone: 86 10 64092331            Fax: 86 10 64033087</p>	<p><b>Administration-related:</b></p> <p><b>National Headquarters</b>            Director, Standards (AART)            330 Sparks St., 2nd Floor            Place de Ville, Tower C            Ottawa ON KIA 0N5            Canada</p> <p>Phone: +1 613 991 6477            Fax: +1 613 952 3298</p> <p><b>Certification-related:</b>            Technical Team Lead, Engineering            Ontario Region            4900 Yonge Street – 4<sup>th</sup> Floor            Toronto ON M25 6A5            Canada</p> <p>Phone: +1 416 952-6033            Fax: +1 877 822 2129</p>