

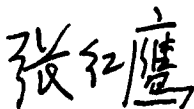
**Technical Arrangement  
between  
Civil Aviation Administration Of China (CAAC)  
and  
Transport Canada Civil Aviation (TCCA)  
for  
Type Validation of Supplemental Type Certificate Number SA10-37  
for  
Installation of a miniature Quick Access Recorder (mini QAR)  
on  
Model BD-100-1A10**

Issue 1: September 15, 2010

**Civil Aviation Administration of  
China**

Aircraft Airworthiness Department

By:



Mr. Zhang Hongying  
Director General

**Transport Canada Civil Aviation**

By:



FOR / Mr. Don Sherritt  
Director, Standards (AART)

**Technical Arrangement  
between  
Civil Aviation Administration Of China (CAAC)  
and  
Transport Canada Civil Aviation (TCCA)  
for  
the Type Validation of Supplemental Type Certificate SA10-37  
for  
Installation of a miniature Quick Access Recorder (mini QAR)  
on  
Model BD-100-1A10**

## **1.0 PURPOSE**

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 (STC) SA10-37 for Bombardier Inc. for the installation of a mini QAR on aircraft model BD-100-1A10.

## **2.0 OBJECTIVES**

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; and
  - (ii) for subsequent post type validation activities.
- (b) to minimize redundant inspections, tests, demonstrations, evaluations, and approvals.

## **3.0 REQUIREMENT AND BASIS**

The requirement for this TA stems from paragraph 2.2 of CAAC Document AP-21-01R2 dated 13 October 2006 (English version), Validation Procedures for Import of Civil Aviation Products and Parts.

## **4.0 DURATION**

This TA shall become effective upon signature by both CAAC and TCCA. It will remain in effect for the duration of the type validation activities and as long as post type validation activities are taking place.

## **5.0 COMMUNICATION**

- (1) The Aircraft Airworthiness Certification Department (CAAC-AAD) of CAAC and the Standards Branch (AART) of TCCA are responsible for the administration of this Technical Arrangement. TCCA Standards Branch (AART) will work in conjunction with the Aircraft Certification Division – Prairie Northern Region identified in Appendix 1 that is the responsible TCCA office for this Bombardier Inc. STC.
- (2) Bombardier Inc. will be the primary source for providing the technical support to CAAC. When requested, TCCA will provide the necessary assistance and support within its regulatory functions.
- (3) All communications between CAAC 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 and TCCA are provided in Appendix 1.
  - (i) Any disagreement regarding the interpretation or application of this TA will be resolved by consultation between the CAAC and TCCA.
  - (ii) Unless otherwise specified, TCCA shall be copied of all correspondence between Bombardier Aerospace and CAAC related to the activities of this TA, so that TCCA can support Bombardier Inc. and CAAC-AAD in the future.

## **6.0 STC VALIDATION ACTIVITIES**

### **6.1 General**

- (1) The subject of CAAC validation is Transport Canada STC SA10-37, Issue 1 as approved on 22 April, 2010.
- (2) The Transport Canada certification basis for this STC is Type Certificate A-234.

### **6.2 STC Validation**

- (1) The CAAC certification basis for purposes of validation of the TCCA STC SA10-37 and issuance of a CAAC-Validated Supplemental Type Certificate (VSTC), plus any additional technical conditions notified.
- (2) CAAC will issue its own corresponding VSTC once it has satisfactorily completed review of the subject Transport Canada STC and its supporting data.

## **7.0 POST VALIDATION ACTIVITIES**

(1) STC Design change approval:

- a) Design changes that result in the re-issuance of the TCCA STC SA10-37, Issue 1, which will constitute the basis for the issuance of the CAAC-VSTC under this TA, and will have to be validated by CAAC.
- b) All other design changes approved by TCCA or its Delegate will be considered approved by CAAC.

(2) Documentation approval:

Subject to paragraph 7.0 (1) a), information or instructions such as Service Bulletins, or Technical Instructions including any subsequent changes or revisions thereto, that are approved by TCCA or its appropriately authorized Delegate will be considered approved by the CAAC.

## **8.0 CONTINUED AIRWORTHINESS SUPPORT ACTIVITIES**

- (1) CAAC will promptly notify TCCA of the existence of any unsafe condition associated with the design, manufacture, operation or maintenance of the subject STC.
- (2) In accordance with ICAO Annex 8, TCCA will promptly notify CAAC of any mandatory continuing airworthiness information that TCCA has found necessary for the continuing airworthiness and safe operation of aircraft equipped with the subject STC.
- (3) TCCA, upon request, will assist CAAC in establishing procedures deemed necessary by CAAC for maintaining the continuing airworthiness of aircraft equipped with the subject STC.

**APPENDIX 1: POINTS OF CONTACT for TCCA STC SA10-37**

CAAC	TCCA
<p><b>Aircraft Airworthiness Certification Department</b></p> <p><b>Director, Aircraft Certification Division</b></p> <p>155 Dongsu Street West Beijing 100710 Peoples Republic of China</p> <p><b>Phone:</b> 86 10 64092331 <b>Fax:</b> 86 10 64033087</p>	<p><b>Administration-related:</b></p> <p><b>Director, Standards (AART)</b> 330 Sparks St., 2nd Floor Place de Ville, Tower C Ottawa, Ont. K1A 0N5 Canada</p> <p><b>Phone:</b> +1 613 952 4371 <b>Fax:</b> +1 613 952 3298</p> <p><b>Certification-related:</b></p> <p><b>Region: Prairie and Northern Region</b></p> <p><b>Regional Manager, Aircraft Certification (RAED)</b> 9700 Jasper Avenue Edmonton, Alberta T5J 4E6</p> <p><b>Phone:</b> +1 780 495 3856 <b>Fax:</b> +1 780 495-7963</p>



Transport  
Canada

Transports  
Canada

Ottawa, Ontario  
K1A 0N8

Your file    Votre référence

Our file    Notre référence  
RDIMS # 6073895

October 20, 2010

Mr. Zhang Hongying  
Director General  
Aircraft Airworthiness Certification Department  
Civil Aviation Administration of China (CAAC)  
155 Dongsu Street West  
Beijing 100710  
Peoples Republic of China

**Subject : Technical Arrangement (TA) for the CAAC Validation of STC SA10-37 for aircraft model Bombardier BD-100-1A10**

Dear Mr. Zhang:

Please find attached the original copy of the signed TA of CAAC's validation of STC SA10-37 for the installation of a miniature quick access recorder for aircraft model Bombardier BD-100-1A10.

Sincerely,

  
For: Don Sherritt  
Director, Standards  
Civil Aviation

Canada