



Transport Canada    Transports Canada

330 rue Sparks Street  
Ottawa ON K1A 0N5

**JUL 24 2013**

*Your file    Votre référence*

*Our file    Notre référence*  
RDIMS: 8596297

Mr. Yin Shijun  
Director General  
Aircraft Airworthiness Certification Department  
Civil Aviation Administration of China  
155 Dongsu Street West  
Beijing 100710  
Peoples Republic of China

Dear Mr. Yin Shijun:

Subject    Technical Arrangements (TAs) for the CAAC Validation of Supplemental Type  
              Certificates SA06-33 and SA13-02

In support of CAAC's validation activities, please find enclosed two original signed copies of TAs for the following STC validation projects:

- a) SA06-33 Issue 2 Issued To FLYHT Aerospace Solutions Ltd. For AFIRS 220 / AFIRS 228 Automated Flight Information Reporting System Installation On AIRBUS A319-100 Series, A320-200 Series and A321-100 & - 200 Series
- b) SA13-02 Issue 1 Issued To FLYHT Aerospace Solutions Ltd. For AFIRS 22 Installation (provisions) On BOEING 737-700 Series, 737-800 Series

I would ask that you sign each original copy and send one copy back of each of the listed TAs to the following address:

Oliver Rusch  
Sr. Engineer, Certification Policy (AARTC/P)  
Aircraft Certification Standards, Transport Canada Civil Aviation Directorate  
330 Sparks Street, Tower C, Floor 4  
Ottawa, Ontario, Canada K1A 0N5

Sincerely,

Aaron McCrorie  
Director, Standards Branch  
Civil Aviation Directorate

Enclosures: 4  
c.c.: Oliver Rusch, AARTC/P

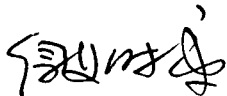
**Canada**

**Technical Arrangement  
Between  
Civil Aviation Administration of China  
And  
Transport Canada Civil Aviation  
For  
The Validation Of  
Supplemental Type Certificate No. SA13-02 Issue 1  
Issued To  
FLYHT Aerospace Solutions Ltd.  
For  
AFIRS 228 Installation (provisions)  
On  
BOEING 737-700 Series, 737-800 Series  
Original Issue**

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

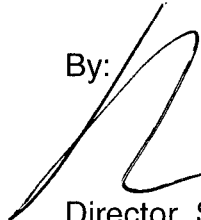
**China**  
Aircraft Airworthiness Certification  
Department

By:



Director General  
Date: 2013.8.5

By:



Director, Standards (AART)  
Date: \_\_\_\_\_

**Technical Arrangement  
Between  
Civil Aviation Administration of China  
And  
Transport Canada Civil Aviation  
For  
The Validation Of  
Supplemental Type Certificate No. SA13-02 Issue 1  
Issued To  
FLYHT Aerospace Solutions Ltd.  
For  
AFIRS 228 Installation (provisions)  
On  
BOEING 737-700 Series, 737-800 Series**

**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. SA13-02 Issue 1 issued to FLYHT Aerospace Solutions Ltd. for AFIRS 228 Installation (provisions) on the BOEING 737-700 Series, 737-800 Series, 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**

- (1) This TA becomes effective upon signature by both CAAC and TCCA. It will remain in effect for the duration of the validation activities and as long as post validation activities are taking place.

## **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 – Prairie and Northern 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 FLYHT Aerospace Solutions Ltd. 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 FLYHT Aerospace Solutions Ltd.:
  - (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 Transport Canada STC no. SA13-02 Issue 1, as issued on January 10, 2013.
- (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. SA13-02 Issue 1 and issuance of a CAAC-validated supplemental type certificate (VSTC) is the same as that of the Transport Canada STC no. SA13-02 Issue 1 plus any Additional Technical Conditions (ATCs) notified. CAAC-AAD will notify in writing both TCCA and FLYHT Aerospace Solutions Ltd. 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 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. SA13-02 Issue 1, 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. SA13-02 Issue 1**

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>            Associate Director, Operations (RAC)            Prairie and Northern Region            Airport Corporate Center            800-1601 Airport Road, NE            Calgary, AB T2E 6Z8            Canada</p> <p>Phone: +1 403 292 5226            Fax: +1 403 292 6709</p>



Department of Transport

# Supplemental Type Certificate

This approval is issued to:

FLYHT Aerospace Solutions Ltd.  
200W, 1144 - 29th Avenue N.E.  
Calgary, Alberta  
Canada T2E 7P1

*Number:* SA13-02

*Issue No.:* 1

*Approval Date:* January 10, 2013

*Issue Date:* January 10, 2013

**Responsible Office:** Prairie and Northern  
**Aircraft/Engine Type or Model:** BOEING 737-700 Series, 737-800 Series  
**Canadian Type Certificate or Equivalent:** A-146  
**Description of Type Design Change:** AFIRS 228 Installation (provisions)

**Installation/Operating Data,  
Required Equipment and Limitations:**

Installation of the AFIRS 228 system (provisions) must be in accordance with FLYHT Aerospace Solutions Ltd., Installation Instructions 151-0054, Rev. --, Transport Canada Civil Aviation (TCCA) approved dated 9 January 2013, or later TCCA approved revisions.

Maintenance of the AFIRS 228 system (provisions) must be in accordance with TCCA accepted FLYHT Aerospace Solutions Ltd., Instructions for Continued Airworthiness 153-0055, Rev. --, dated 14 December 2012, or later TCCA accepted revisions.

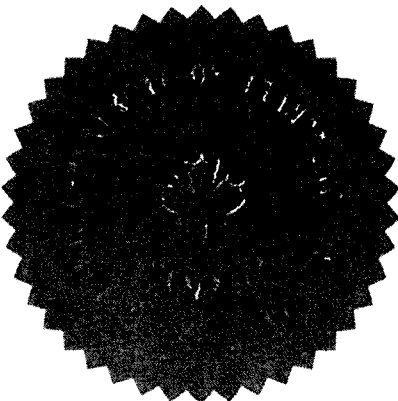
Definition of Type Design Change: FLYHT Aerospace Solutions Ltd., Master Document List 121-0065, Rev. --, TCCA approved dated 9 January 2013, or later TCCA approved revisions.

Airworthiness Limitations

TCCA approved Airworthiness Limitations specified in Part I of TCCA accepted FLYHT Aerospace Solutions Ltd., Instructions for Continued Airworthiness 153-0055, Rev. --, dated 14 December 2012, or later TCCA accepted revisions.

Basis of Certification for affected areas: 14 CFR Part 25, including Amendments 25-1 through 25-77, plus 14 CFR Part 26 at Amendment 26-5.

— End —



**Conditions:** This approval is only applicable to the type/model of aeronautical product specified therein. Prior to incorporating this modification, the installer shall establish that the interrelationship between this change and any other modification(s) incorporated **will not** adversely affect the airworthiness of the modified product.

Dah Fong Kuan  
For Minister of Transport



**DESIGN APPROVAL DOCUMENT  
TRANSFER**

Transfer of this design approval document requires the prior approval of the Minister and the reissue of this document in the name of the transferee.

The reissue of this design approval document in the name of the transferee will be contingent on the holder and the transferee fulfilling their responsibilities as described in section 521.357 of the *Canadian Aviation Regulations*.

I have reviewed the above requirements and recognize that until the above requirements are met the certificate and all its privileges and obligations will not be transferred.

**TRANSFERT DU DOCUMENT  
D'APPROBATION DE LA  
CONCEPTION**

L'approbation préalable du ministre est exigée en vue d'un transfert de ce document d'approbation de la conception et la réédition de ce document au nom du cessionnaire.

La réédition de ce document d'approbation de la conception au nom du cessionnaire est conditionnelle à la satisfaction des exigences et des responsabilités, du titulaire et du cessionnaire, décrites dans l'article 521.357 du *Règlement de l'aviation canadien*.

J'ai examiné les conditions susmentionnées et je comprends que le transfert du certificat et des privilèges et des obligations s'y rattachant ne sera pas effectué tant que ces conditions n'auront pas été respectées.

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Signature of holder/signature du titulaire

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date/date