



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

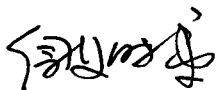
Enclosures: 4
c.c.: Oliver Rusch, AARTC/P

**Technical Arrangement
Between
Civil Aviation Administration of China
And
Transport Canada Civil Aviation
For
The Validation Of
Supplemental Type Certificate No. 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
Original Issue**

Civil Aviation Administration of China Transport Canada Civil Aviation

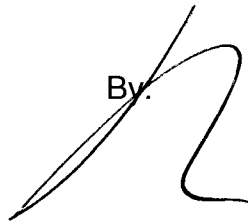
China
Aircraft Airworthiness Certification
Department

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. 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
Original Issue**

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. 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, 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. SA06-33 Issue 2, as issued on April 16, 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. SA06-33 Issue 2 and issuance of a CAAC-validated supplemental type certificate (VSTC) is the same as that of the Transport Canada STC no. SA06-33 Issue 2 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. SA06-33 Issue 2, 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.
-

APPENDIX 1: POINTS OF CONTACT for TCCA STC no. SA06-33 Issue 2

| CAAC | TCCA |
|--|---|
| <p>Aircraft Airworthiness Certification Department</p> <p>Director, Aircraft Certification Division 155 Dongsu Street West Beijing 100710 Peoples Republic of China</p> <p>Phone: 86 10 64092331 Fax: 86 10 64033087</p> | <p>Administration-related:</p> <p>National Headquarters 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>Certification-related: 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: SA06-33

Issue No.: 2

Approval Date: December 19, 2006

Issue Date: April 16, 2013

Responsible Office:

Prairie and Northern

Aircraft/Engine Type or Model:

AIRBUS A319-100 Series, A320-200 Series and A321-100 & -200 Series

Canadian Type Certificate or Equivalent:

A-166

Description of Type Design Change:

AFIRS 220 / AFIRS 228 Automated Flight Information Reporting System Installation

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

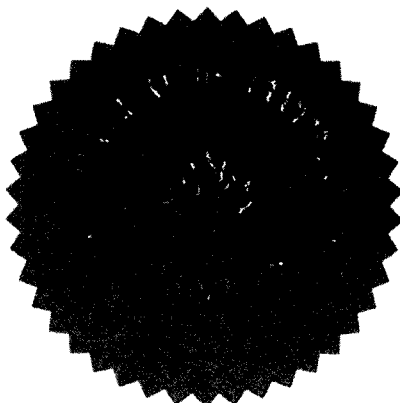
AFIRS 220 System Installation

Installation of the AFIRS 220 system must be in accordance with FLYHT Aerospace Solutions Ltd., Installation Instructions 151-0021, Rev. E, Transport Canada (TCCA) approved 12 April 2013, or later TCCA approved revisions.

Maintenance of the AFIRS 220 system must be in accordance with TCCA accepted FLYHT Aerospace Solutions Ltd., Instructions for Continued Airworthiness 153-0029, Rev. E, dated 10 April 2013, or later TCCA accepted revisions. TCCA approved Airworthiness Limitations specified in Part 1 of the ICA are mandatory.

Definition of Type Design Change: FLYHT Aerospace Solutions Ltd. Master Document List 121-0029, Rev. F, TCCA approved 12 April 2013, or later TCCA approved revisions.

(See Continuation Sheet)



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.

Signature of holder/signature du titulaire

date/date



(Continuation Sheet)

Number: SA06-33 Issue 2

NOTE: THIS ADDENDUM SHALL REMAIN PART OF THE CERTIFICATE REFERRED TO THEREIN.

AFIRS 228 System Installation (provisions)

Installation of the AFIRS 228 system (provisions) must be in accordance with FLYHT Aerospace Solutions Ltd., Installation Instructions 151-0053, Rev. --, Transport Canada (TCCA) approved 12 April 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 153-0053, Rev. --, dated 27 March 2013, or later TCCA accepted revisions. TCCA approved Airworthiness Limitations specified in Part 1 of the ICA are mandatory.

Definition of Type Design Change: FLYHT Aerospace Solutions Ltd. Master Document List 121-0062, Rev. --, TCCA approved 12 April 2013, or later TCCA approved revisions.

Basis of Certification

The certification basis for both the AFIRS 220/228 System installations is JAR 25, Change 11 (for the A319 and A321 Series) and FAR Part 25, Amendments 25-1 through 25-56 (for the A321 Series) plus 14 CFR Part 25.305, 25.321, 25.333, 25.341, and 25.571 at Amendment 25-86, 14 CFR Part 25.981 at Amendment 25-102, and 14 CFR Part 26, Subparts B, D, and E at Amendment 26-5.

--- End ---