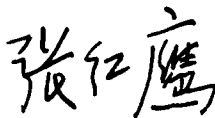


Technical Arrangement
Between
Civil Aviation Administration Of China
And
Transport Canada Civil Aviation
For
Type Validation of Type Certificate Number E-33
For
Pratt and Whitney Canada Engine Model PW307A

Issue 1: Sept 28, 2009

**Civil Aviation Administration of
China**
Aircraft Airworthiness Department

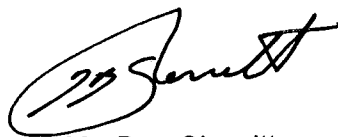
By:



Mr. Zhang Hongying
Director General

Transport Canada Civil Aviation

By:



Mr. Don Sherritt
Director, Standards (AART)

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1. 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 Type Certificate (TC) E-33 for Pratt and Whitney Canada Engine Model PW307A

2. OBJECTIVES

This TA is intended to accomplish the following objectives:

- 2.1 To define the working procedures under the respective responsibilities of each Authority:
 - a) For the TC validation process; and
 - b) For subsequent post type validation activities.
- 2.2 To minimize redundant inspections, tests, demonstrations, evaluations, and approvals.

3. REQUIREMENT AND BASIS

The requirement for this TA stems from paragraph 2.2 of CAAC Document AP-21-01R2 dated 12 October 2006 (English version), Validation Procedures for Import of Civil Aviation Products and Parts.

4. 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. COMMUNICATION

- 5.1 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. The Standards Branch will work in conjunction with the National Aircraft Certification Branch identified in Appendix 1 that has certification jurisdiction over the Type Certificate holder, Pratt and Whitney Canada.
- 5.2 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.
- 5.3 Any disagreement regarding the interpretation or application of this TA will be resolved by consultation between the CAAC and TCCA.
- 5.4 Unless otherwise specified, TCCA shall be copied of all correspondence between Pratt and Whitney Canada and CAAC-AAD related to the activities of this TA, in order to enable TCCA support to CAAC in the future.

6. TC VALIDATION ACTIVITIES

6.1 General

- a) Pratt and Whitney Canada is the primary source for providing the technical support to CAAC for purposes of this TA. When requested, TCCA will provide the necessary assistance and support within its regulatory functions.
- b) Pratt and Whitney Canada is responsible for showing and verifying the compliance with the CAAC certification basis and for demonstrating this compliance to both Authorities. Any compliance documents provided to CAAC must have been approved by TCCA.
- c) TCCA, upon request, can provide at the end of the validation process a formal statement attesting that TCCA has found compliance with the CAAC certification basis.
- d) CAAC will issue its own corresponding Validated TC and TC Data Sheet once it has satisfactorily completed review of the subject Transport Canada TC and its supporting data.

6.2 Certification Basis

For the purpose of this TA, the certification basis for engine model PW307A is as follows:

- a) For TCCA, as defined in Type Certificate E-33 Data Sheet Issue 4, dated April 12, 2007.
- b) For CAAC, the type certification basis of TCCA Type Certificate E-33, plus any additional technical conditions notified.

7. POST VALIDATION ACTIVITIES

7.1 Design change approval

- a) TCCA, upon request, will verify that design changes affecting the TCCA type design that have been introduced after CAAC type validation, and embodied on engines to be delivered to China, comply with the CAAC certification basis using the information gained during the type validation activities. If the change is approved through a Supplemental Type Certificate, it will be validated by CAAC who will notify of its approval.
- b) Prior to each engine to be delivered to China, a formal statement of compliance with CAAC certification basis will be provided by TCCA to CAAC for those design changes that significantly affect the CAAC approved type design. These type design changes will normally be approved by CAAC without technical validation on the basis of TCCA statement of compliance. However, CAAC reserves the right to make a technical validation of those design changes that affect the CAAC Validation data sheet, and will inform Pratt and Whitney Canada and TCCA accordingly. For these changes, CAAC will notify TCCA and Pratt and Whitney Canada of their approval.
- c) Except where notified under paragraph 7.1 b) above, all other design changes approved by TCCA or its Delegate will be considered approved by CAAC.

7.2 Documentation approval

Except where specifically notified by CAAC, information or instructions (such as Service Bulletins, Technical Instructions, etc.), including any subsequent changes or revisions thereto that are approved by TCCA or its appropriately authorized Delegate will be considered approved by the CAAC.

7.3 Individual engine deliveries

For each engine to be delivered to China, TCCA will issue an Authorized Release Certificate (Form 24-0078) that states the engine conforms to the CAAC approved type design and is in a condition for safe operation.

8. CONTINUED AIRWORTHINESS SUPPORT ACTIVITIES

- 8.1 CAAC will promptly notify TCCA of the existence of any unsafe condition associated with the design, manufacture, operation or maintenance of Engine Model PW307A.
- 8.2 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 the engine.
- 8.3 TCCA, upon request, will assist CAAC in establishing procedures deemed necessary by CAAC for maintaining the continuing airworthiness of aircraft equipped with engine model PW307A.

APPENDIX 1

POINTS OF CONTACT: TCCA Type Certificate Number E-33

CAAC	TCCA
<p>Aircraft Airworthiness Certification Department</p> <p>Director, Engine and Propeller Division</p> <p>155 Dongsu Street West Beijing 100710 Peoples Republic of China</p> <p>Phone: 86 10 64091308 Fax: 86 10 64048820</p>	<p>Headquarters:</p> <p>Administration-related:</p> <p>Director - Standards (AART) 330 Sparks St., 2nd Floor Place de Ville Tower C Ottawa, Ont. KIA 0N5 Canada</p> <p>Phone: (613) 952-4371 Fax: (613) 952-3298</p> <p>Certification-related:</p> <p>Chief – Project Management (AARDE) National Aircraft Certification 330 Sparks St., 3rd Floor Place de Ville Tower C Ottawa, Ont. KIA 0N5 Canada</p> <p>Phone: (613) 952-4339 Fax: (613) 996-9178</p>