

## Management Plan

The Federal Aviation Administration (FAA) and the Civil Aviation Administration of China (CAAC) have agreed to a process for sharing regulatory authority responsibilities for managing the airworthiness responsibilities associated with Cirrus Design Corporation (“Cirrus”) products for which the United States of America (U.S.) is the State of Design and the People’s Republic of China (P.R.C.) is the State of Manufacture. This agreement relies upon the existence of a valid licensing agreement of the type design of certain aircraft between Cirrus, the U.S. type design holder, and AVIC General Huanan Aircraft Industry Co., Ltd. (“Huanan Aircraft”), the P.R.C. manufacturer.

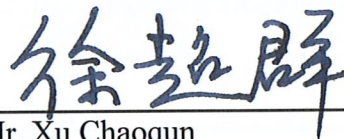
Attached is the Management Plan detailing this process.

Any further clarifications or revisions to this document will be made only after consultation and agreement between both Authorities.

The FAA and the CAAC agree to the provisions of this Management Plan as indicated by the signature of their duly authorized representative.



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Date: 10.17-2019

# ***MANAGEMENT PLAN***

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**Cooperation in Design, Manufacture, and Continued Airworthiness  
Responsibilities Between the FAA as the Authority for the State of Design  
(U.S.) and the CAAC as the Authority for the State of Manufacture (P.R.C.)  
for Cirrus Design Corporation's ("Cirrus") Designs Licensed to AVIC General  
Huanan Aircraft Industry Co. Ltd. ("Huanan Aircraft") For Production**

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# 1. INTRODUCTION

## 1.1. AUTHORIZATION

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This Management Plan is established in accordance with Section IX, “Special Arrangements and Management Plans” of the Implementation Procedures for Airworthiness (IPA), Revision 0, dated October 17, 2017, between the Federal Aviation Administration (FAA) and the Civil Aviation Administration of China (CAAC).

The procedures in this Management Plan are further authorized by section 6.3 of the IPA: “Production Approvals Based on Licensing Agreement.”

This Management Plan is required by the Twelfth Edition of Annex 8, dated July 2018, to the Convention on International Civil Aviation, Airworthiness of Aircraft; Part II, section 4.2 Responsibilities of Contracting States in respect of continuing airworthiness.

Specifically, per Paragraph 4.2.1.4, State of Design:

“Where, for a given aircraft, engine or propeller, the State of Manufacture is not the State of Design, then the State of Design shall ensure that there is an agreement acceptable to both States to ensure that the manufacturing organization cooperates with the organization responsible for the type design in assessing information on the design, manufacture and operation of the aircraft, engine or propeller.”

Specifically, per Paragraph 4.2.2, State of Manufacture:

“The State of Manufacture shall ensure that where it is not the State of Design there is an agreement acceptable to both States to ensure that the manufacturing organization cooperates with the organization responsible for the type design in assessing information on the design, manufacture and operation of the aircraft, engine or propeller.”

## 1.2. PURPOSE

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This Management Plan has the following purposes:

- 1.2.1. To clearly define the State of Design (SoD) and State of Manufacture (SoM) responsibilities for the U.S. and the P.R.C. for Cirrus designs licensed to Huanan Aircraft for production for which one State is the SoD and the other is the SoM. It defines the process for managing production approvals based on licensing agreements, and each Authority’s responsibilities when acting as the SoD and the SoM, including design changes, conformity to the approved design data, and continued operational safety.

1.2.2. To document the specific products authorized under this agreement.

The provisions of this Management Plan do not substitute for what is required by either FAA or CAAC regulations.

### **1.3. BACKGROUND**

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Cirrus and Huanan Aircraft are both subsidiaries of the China-based company China Aviation Industry General Aircraft Co., Ltd. (“AVIC General”). Cirrus is based in Duluth, Minnesota, U.S., and Huanan Aircraft is based in Jinwan District, Zhuhai, Guangdong P.R.C.

This Management Plan exercises the CAAC’s discretion to allow Huanan Aircraft to produce certain Cirrus aircraft under a Chinese Production Certificate pursuant to an approved type design that is regulated and overseen by the FAA.

Both Authorities recognize that certain Cirrus aircraft are produced simultaneously under two separate production approvals. The Production Certificate issued by and regulated by the FAA is separate from the Production Certificate issued by and regulated by the CAAC.

Safety assurance of these certain Cirrus aircraft requires close collaboration between the FAA and the CAAC, and the clear understanding and execution of each Authority’s distinct responsibilities under Annex 8 of the Chicago Convention.

This Management Plan applies only to the aircraft identified herein, and is contingent upon the licensing agreement established between Cirrus as the Type Certificate holder and Huanan Aircraft as the Production Certificate holder. Any modification to the licensing agreement will require notification to the FAA and the CAAC. The Authorities will review, assess, and revise this Management Plan as necessary.

### **1.4. SCOPE**

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1.4.1. This Management Plan covers the following aspects of airworthiness for the Cirrus civil airplane model(s) with certain serial numbers listed in Table 1:

- a. The oversight of Cirrus as the type design approval holder by the FAA; and,
- b. The surveillance of production activities associated with Huanan Aircraft’s Chinese Production Certificate by the CAAC; and,
- c. The collaboration required between the FAA and the CAAC for continued airworthiness; and,

1.4.2. For those Cirrus civil aircraft manufactured in the P.R.C., the CAAC is responsible for ensuring that Huanan Aircraft produces aircraft that

conform to the FAA-approved type design and that Huanan Aircraft complies with all other relevant CAAC regulatory requirements when determining original airworthiness.

Table 1

<b>Cirrus Civil Airplane Model</b>	<b>Type Certificate Holder</b>	<b>State of Design</b>	<b>State of Manufacture</b>
SR20 S/N 1005H and subsequent	Cirrus	U.S.	P.R.C.
SR22 S/N 0001H and subsequent			
SR22T S/N 0001H and subsequent			

## **2. GENERAL RESPONSIBILITIES**

### **2.1. EACH AUTHORITY'S GENERAL RESPONSIBILITIES**

- 2.1.1. Notify the other Authority of any changes in regulations, policy, personnel, and resources, as well as the capabilities of those resources, relevant to the activity performed under this Management Plan.
- 2.1.2. As appropriate, provide information to the other Authority on any significant facility or organizational changes for either Cirrus or Huanan Aircraft.
- 2.1.3. Provide all documents and correspondence relating to this Management Plan in the English language.
- 2.1.4. Ensure that their respective approval holders comply with all applicable regulatory requirements.

### **2.2. AS THE STATE OF DESIGN, THE FAA WILL**

- 2.2.1. Update the Type Certificate Data Sheet to indicate the Chinese

Production Certificate and associated serial numbers in the production basis.

- 2.2.2. Require that the written licensing agreement between Cirrus as the type design holder and Huanan Aircraft as the manufacturer is current and acceptable to the FAA (in accordance with 14 CFR §21.55).
- 2.2.3. Ensure that changes to the type design are approved in accordance with 14 CFR part 21, including changes initiated by material review board determinations.
- 2.2.4. Require the identification dataplate for aircraft manufactured by Huanan Aircraft to clearly show Huanan Aircraft as the builder, the aircraft model as a Cirrus Model, "FAA TC No. A00009CH", "CAAC PC No. PC0040A-ZN", and the distinctive serial number assigned in accordance with the Cirrus/Huanan Aircraft Licensing Agreement (in accordance with 14 CFR §45.13).
- 2.2.5. Ensure that Cirrus monitors the continued airworthiness of the type design.
- 2.2.6. Act as the focal point coordinating all activities and defining accountability for the correction of all service difficulties.
- 2.2.7. Share Airworthiness Directives (AD) with the CAAC.

### **2.3. AS THE STATE OF MANUFACTURE, THE CAAC WILL**

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- 2.3.1. Require that the written licensing agreement between Cirrus as the design holder and Huanan Aircraft as the manufacturer is current and acceptable to the CAAC.
- 2.3.2. Ensure Huanan Aircraft has established adequate manufacturing processes and quality control procedures to assure that each completed product conforms to the FAA approved Type Design data obtained through the licensing agreement, and is in a condition for safe operation.
- 2.3.3. Require Huanan Aircraft to have procedures in place to ensure that any changes introduced into the design before the original airworthiness is established and conferred, are approved by Cirrus as the Type Design holder, and the FAA as the SoD.
- 2.3.4. Have the responsible CAAC office conduct an audit using their respective procedures to verify compliance with the above sections 2.3.1 to 2.3.3. This audit is to determine whether the quality system is adequate or has been appropriately changed to ensure positive control of the design and airworthiness of the product(s) manufactured.

- 2.3.5. Have the responsible CAAC office ensure continued compliance to the above sections 2.3.1 to 2.3.3 through oversight of Huanan Aircraft in accordance with CAAC's procedures.
- 2.3.6. Inform the FAA of any changes to Huanan Aircraft's Production Certificate or corresponding Production Limitation Record (PLR) associated with the production activities covered by this Management Plan.
- 2.3.7. Investigate suspected regulatory violations in accordance with CAAC procedures, and notify the FAA.
- 2.3.8. Take appropriate compliance and enforcement action against Huanan Aircraft for any noncompliance detected at Huanan Aircraft or at their approved suppliers, as applicable, and notify the FAA.
- 2.3.9. Require Huanan Aircraft to ensure that Cirrus's type design configuration, produced under the CAAC-issued Huanan Aircraft Production Certificate, is approved by the FAA, including any changes initiated by material review board determinations.

### **3. CONTINUED AIRWORTHINESS RESPONSIBILITIES**

#### **3.1. CAAC RESPONSIBILITIES FOR CONTINUED AIRWORTHINESS**

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- 3.1.1. Ensure Huanan Aircraft communicates, shares data, and cooperates with Cirrus in assessing information received on experience with operating the aircraft.
- 3.1.2. Publish corresponding mandatory continued airworthiness instructions when notified by the FAA of its own airworthiness directive issuance.
- 3.1.3. Conduct surveillance activities of Huanan Aircraft in accordance with CAAC regulations, and take mandatory and other remedial action as necessary to execute its responsibility relative to the continued airworthiness of the type design.
- 3.1.4. Maintain accountability for the corrective action arising from service difficulties or accidents attributed to manufacturing problems within Huanan Aircraft.

#### **3.2. FAA RESPONSIBILITIES FOR CONTINUED AIRWORTHINESS**

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- 3.2.1. Review service difficulty information and take mandatory and other



remedial action as necessary in order to execute its responsibility relative to the continued airworthiness of the type design.

- 3.2.2. Notify the CAAC of mandatory action taken on service difficulties.
- 3.2.3. Maintain accountability for the corrective action arising from service difficulties or accidents attributed to design problems.
- 3.2.4. Maintain accountability for the corrective action arising from service difficulties or accidents attributed to manufacturing problems within Cirrus that may impact Huanan Aircraft.

## **4. EXPORTING AND IMPORTING REQUIREMENTS**

### **4.1. FOLLOW-UP PRODUCTION RESPONSIBILITIES**

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- 4.1.1. If Huanan Aircraft is to export these aircraft or aircraft parts outside of the P.R.C, they will need to follow the specific importing/exporting requirements for that country.
- 4.1.2. Special provisions may be required for third party countries which do not allow for separate State of Design and State of Manufacture aircraft. Huanan Aircraft should consult with the CAAC and the Importing Authority.

## **5. PROGRAM REVIEW & CHANGES TO THIS MANAGEMENT PLAN**

### **5.1. PROGRAM REVIEW**

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- 5.1.1. The FAA and the CAAC will conduct a periodic review to assess the effectiveness of the activities performed under this Management Plan. The review will be conducted as agreed upon by the FAA and the CAAC, at regular intervals or following any issue that may arise.

### **5.2. CHANGES**

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- 5.2.1. This Management Plan may be revised as necessary when mutually agreed upon by each Authority. Any revisions will only be made after consultation between the FAA and CAAC, and are made effective by signature of the duly authorized representatives of the FAA and the CAAC.
- 5.2.2. This Management Plan is specific to Cirrus Design Corporation licensing the Type Design of certain TC Number A00009CH aircraft to AVIC General Huanan Aircraft Industry Co., Ltd., for manufacturing in

the P.R.C. (location/s to be specified on the Huanan Aircraft Production Certificate as issued by the CAAC, and on the Cirrus Type Certificate Data Sheet No. A00009CH as issued by FAA) under a Chinese Production Approval. If at any point the licensing agreement or business relationship changes between these two companies, the FAA and the CAAC agree to notify the other, reevaluate the continued applicability of this Management Plan, and revise it or void it as appropriate.

### **5.3. TERMINATION**

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- 5.3.1. Either the FAA or the CAAC may, at any time, give written notice to the other Authority of its decision to terminate or suspend this Management Plan. The Management Plan will terminate three months following the date of receipt of the notice by the FAA or the CAAC, unless the said notice of termination has been withdrawn by mutual agreement before the expiration of this period.

## **6. REFERENCES**

1. ICAO Annex 8; Airworthiness of Aircraft; Twelfth Edition, dated July 2018.
2. Implementation Procedures for Airworthiness, under Agreement between the Government of the United States of America and the Government of the People's Republic of China, Revision 0, approved on October 17, 2017.

## APPENDIX A. POINTS OF CONTACT

### FOR THE FAA

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Federal Aviation Administration  
Compliance & Airworthiness Division  
Chicago ACO Branch  
Attn: Mr. Timothy P. Smyth  
2300 East Devon Avenue, Rm. 107  
Des Plaines, IL 60018  
USA

Phone: +1 847-294-7357  
Fax: +1 847-294-7836  
Email: Timothy.Smyth@faa.gov

### FOR THE CAAC

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Civil Aviation Administration of China  
Center and South Regional Administration  
Airworthiness Certification Division  
Attn: Ms. Tao Juan  
163 Yunxiao Road, Baiyun District  
Guangzhou, Guangdong 510405  
P.R.C.

Phone: +86 20 8613 0276  
Fax: +86 20 8612 2244  
Email: taojuan\_zn@caac.gov.cn

## APPENDIX B. SUPPORTING DOCUMENTATION

1. Project initiation letter from Cirrus Design Corporation to FAA
2. Cirrus's and Huanan Aircraft's "License Agreement between Cirrus Design Corporation and AVIC General Huanan Aircraft Industry Co., Ltd." dated June 29, 2018, and any subsequent supplements.
3. Huanan Aircraft's Production Certificate No. PC0040A-ZN of certain Cirrus parts and assemblies as issued by CAAC.