

公務出國報告  
(出國類別：實習)

赴美國聯邦航空總署  
洛杉磯適航驗證辦公室

(Federal Aviation Administration Los Angeles  
Aircraft Certification Office, FAA LA ACO)

在職訓練出國報告書

服務機關：交通部民用航空局

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派赴國家：美國

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## 目錄

壹、目的.....	p.2
貳、行程紀要.....	p.3
參、過程.....	p.4
一、課程安排	
二、訓練參考資料	
三、訓練目的	
四、訓練方式	
五、訓練要點	
肆、訓練心得.....	p.13
伍、建議事項.....	p.14
陸、附錄.....	p.15

## 壹、目的

民國 96 年以前，國內民航業務著重於服務大眾的民用航空運輸業及以遊覽、勘察、照測、拖吊、噴灑、拖靶勤務為主的普通航空業，為此適航管理也以一般民用航空運輸業採用之中大型運輸類航空器與普通航空業的直昇機、小型通用類航空器管理為主。

民國 96 年 7 月民用航空法大幅修改，開放自用航空器飛航活動及普通航空業者得經營商務專機業務，致使專為自用或商務用之中小型航空器進口業務逐漸活絡。自用航空器及商務專機市場以服務專屬顧客為宗旨，依顧客特色有不同之要求，業者也極盡所能地改裝/客製化(customization)飛機，以使其符合客戶之需求。偏偏此類航空器之所有人及使用人通常以擁有/使用航空器為主，無法如航空運輸業自行建立完整之維修部門，維修工作必須仰賴具有能量之維修廠代為執行。因此，此類航空器之初始設計/製造出發點、後續適航維修計畫/條件與一般航空運輸業航空器之考量大不相同。

此外，近年來我國人出國經商、工作及旅遊機會頻繁，難免在外發生突發性疾病或意外。事件發生時，家人總希望能利用空中緊急醫療服務(Emergency Medical Services, EMS)，以醫療包機或是擔架旅客方式，儘速將病人接回國在熟悉環境下就醫、照料。但專屬之醫療用航空器造價昂貴，國際間專屬醫療用航空器極少，因此國內醫療團體紛紛與航空公司合作，以一般客機執行醫療包機作業或是搭載擔架旅客作為替代方案。此時，平時為載客用之客機，必須利用補充型別檢定(Supplemental Type Certification)的方式改裝客艙、加裝擔架及裝載醫療設備來安置特殊需求之病患。

為因應前述自用航空器、商務專機業務開放及緊急醫療服務日增之適航檢定、改裝及修理等適航驗證需求，特以此擬定訓練目標。透過台美雙邊適航協議，特別商請美國聯邦航空總署(Federal Aviation Administration, FAA)協助安排本局人員赴其驗證辦公室接受在職訓練，以了解美國在此領域如何執行適航驗證，加強本局檢定人員之職能。

## 貳、行程紀要

日期	行程
7/20~7/20	搭乘中華航空航班前往美國洛杉磯
7/21 ~7/27	接受美國聯邦航空總署洛杉磯適航驗證辦公室安排之在職訓練
7/28 ~7/29	由洛杉磯搭乘中華航空航班返抵桃園機場

## 參、過程

此次在職訓練程由美國聯邦航空總署總部指派洛杉磯適航驗證辦公室（Los Angeles Aircraft Certification Office, LA ACO）辦理。該適航驗證辦公室雖然位於洛杉磯，但實際負責區域包括加州、內華達州、與亞利桑那州所有的航太廠商的驗證工作。洛杉磯除是波音麥道廠區之位址，該區域中有許多的航太廠商，如：Robinson Helicopter、Gulfstream、B/E Aerospace等。因此，洛杉磯適航驗證辦公室負擔著非常繁重的適航驗證工作。也因如此，此地區適航驗證辦公室的適航驗證工程師們均是身經百戰、各類型驗證業務之箇中好手。

因為本次訓練目標設於自用航空器、商務專機業務開放及緊急醫療服務日增之適航檢定、改裝及修理等適航驗證作業之熟悉，故此次訓練課程由洛杉磯適航驗證辦公室的客艙安全科(Cabin Safety Branch)人員主導。

客艙安全科是美國聯邦航空總署因應近年來客艙技術快速變遷需求新成立的單位。成立至今還不到 7 年，主要負責客艙安全驗證作業。該科之適航驗證工程師原隸屬系統與裝備科 (Systems and Equipment Branch)，除負責飛機內裝、防火等客艙安全方面驗證業務外，機械系統驗證也屬於客艙安全科的工作範圍；原系統與裝備科則專責電子與電器系統的驗證工作。客艙安全驗證與飛機結構、性能、發動機及電子與電器系統驗證均有界面，熟悉界面間法規關聯性，順理成章地成為此次訓練課程之主導者。

本次訓練獲得洛杉磯適航驗證辦公室經理 Mr. Kevin Hull 的大力支持，訓練期間除提供各項協助之外，也安排時間參與訓練之會談。而訓練內容在客艙安全科經理 Masour Rafat 與系統與裝備科經理 Mr. Alan Shinseki 的細心安排下，一個星期的在職訓練安排得非常充實，使受訓人員實際參加了該辦公室執行中的 Robinson Helicopter 公司 R-66 直昇機驗證文件審查、法規符合性檢查 (Compliance Inspection)、其與業者進行法規符合方法溝通的實際作業。

### 一、課程安排如下：

Wednesday, 7/21

LAACO

- Welcome
- Approval of Repair and Alteration
- AML Approvals

B/E Aerospace

- Product Demo
- STC Process

Thursday, 7/22

FSDO – Van Nuys

- Field Approval

BBJ at Burbank Airport or Clay Lacy at Van Nuys

Friday, 7/23

LAACO

- EMS

LA Fire Dept – Van Nuys

- EMS Demo

LA Sheriff Dept. at LB Airport

- EMS Demo

Monday, 7/26

Robinson Helicopter

- Interior Compliance
- Engine Cmpt Zonal Inspection
- Plant Tour

LAACO

- - STC Process

Tuesday, 7/27

LAACO

- STC Process: cont'd

Gulfstream

- LB Repair Station
- COTS(Commercial Off The Shelf)
- TSO Seat
- ODA(Organization Designation Authorization) STC Process
- Part 135 Flt Crew Sleeping Facilities
- Gulfstream Visit

## 二、 訓練參考資料：

美國聯邦航空總署執行適航驗證多年，在許多領域都發展出參考文件，除供其國內執行適航驗證之申請者與審查者參考，以求適航驗證標準

化，維護飛航安全外，也是世界各國驗證作業之標竿。

此次洛杉磯適航驗證辦公室與飛航標準地區辦公室分別就其工作權責特性，提供與驗證工作相關之法規、程序做成之訓練資料，使我們更熟悉其對於自用航空器、商務專機業務作業監理作業方式及該地區緊急醫療服務驗證作業流程。對於我方進行其航空產品適航認可驗證作業、建立相似之適航檢定系統有極大之助益。

訓練參考資料可分為適航驗證辦公室所提之 Field Approval 參考資料、飛航標準地區辦公室(Flight Standards District Office, FSDO) 所提之 Field Approval 參考資料、以及適航驗證辦公室所提之 Approved Model List STC 參考資料三部份，詳列於附錄中。

### 三、 訓練目的：

因開放自用航空器飛航活動及普通航空業者得經營商務專機業務，致使專為自用或商務用之中小型航空器進口業務逐漸活絡。自用航空器及商務專機市場以服務專屬顧客為宗旨，依顧客特色有不同之要求，業者也極盡所能地改裝/客製化(customization)飛機，以使其符合客戶之需求。偏偏此類航空器之所有人及使用人通常以擁有/使用航空器為主，無法如航空運輸業自行建立完整之維修部門，維修工作必須仰賴具有能量之維修廠代為執行。因此，此類航空器之初始設計/製造出發點、後續適航維修計畫/條件與一般航空運輸業航空器之考量大不相同。

另近年來我國人出國經商、工作及旅遊機會頻繁，難免在外發生突發性疾病或意外。事件發生時，家人總希望能利用空中緊急醫療服務(Emergency Medical Services, EMS)，以醫療包機或是擔架旅客方式，儘速將病人接回國在熟悉環境下就醫、照料。但專屬之醫療用航空器造價昂貴，國際間專屬醫療用航空器極少，因此國內醫療團體紛紛與航空公司合作，以一般客機執行醫療包機作業或是搭載擔架旅客作為替代方案。此時，平時為載客用之客機，必須利用補充型別檢定(Supplemental Type Certification)的方式改裝客艙、加裝擔架及裝載醫療設備來安置特殊需求之病患。

為因應前述自用航空器、商務專機業務開放及緊急醫療服務日增之適航檢定、改裝及修理等適航驗證需求，特以此擬定訓練目標。詳細之訓練目標如下：

Design approvals for business and privately owned aircraft on the following topics:

- Modifications of aircraft:

STC, field approval, one-only STC, and non-interference STC

- Emergency Medical Services (EMS) related STC:  
installation of medical equipment, EMI/EMC tests, evacuation demonstration, installation and use of oxygen bottles, use of ordinary ambulance equipment, etc.
- AML STC process
- Certification of aircraft interiors:  
interior compliance for customized interior, approval of business jet cabin seats, approval of ordinary consumer electronic devices, etc.

#### 四、 訓練方式：

本次訓練為在職訓練，分別以下列方式進行：

1. 以會議方式由適航驗證辦公室驗證工程師與飛航標準地區辦公室檢查員以簡報方式講授並輔以案例討論
2. 至廠商現場，由適航驗證辦公室驗證工程師與飛航標準地區辦公室檢查員實際示範如何執行法規符合性檢查(compliance inspection)
3. 至廠商或作業現場，由廠商或作業人員以實物或實際操作說明。



## 五、 訓練要點：

### 1. 自用航空器與商務航空器之改裝適航驗證：

- (1) 由洛杉磯適航驗證辦公室驗證工程師與 Van Nuys 飛航標準地區辦公室檢查員 Dan Arland (Principal Avionics Inspector)及 Bruce Borden (Principal Maintenance Inspector)以簡報方式講授 field approval 的程  
序、標準及參考文件。
- (2) 至 Van Nuys 機場，由洛杉磯適航驗證辦公室驗證工程師與 Van Nuys 飛航標準地區辦公室檢查員實際登上現役之商務飛機說明客  
艙各項裝備之安裝及檢查。



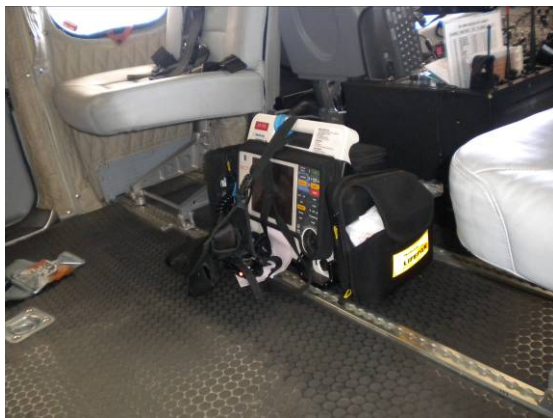
- (3) Gulfstream 公司人員 Randy Wood、Claudia Casanova 及 Brad Hakey 解說實務之作法，包括 ODA (Organization Designation Authorization) STC 的驗證方式、COTS (Commercial Off The Shelf) 裝備的驗證方式、TSO 座椅的驗證與安裝，並至 Gulfstream 公司以實物說明。



2. 緊急醫療服務之改裝適航驗證：

(1) 至 Van Nuys 機場，由洛杉磯消防局(LA Fire Department, LAFD) Van Nuys 機場人員實際操作說明緊急醫療服務之裝備及其作業方式。

(2) 洛杉磯適航驗證辦公室驗證工程師說明緊急醫療設備驗證工程考量及程序。





(3) 至 Long Beach 機場，由洛杉磯警察局(LA Sheriff Department, LASD)  
Long Beach 機場人員實際操作說明緊急醫療服務之裝備。





3. 航空器內裝(如：interior compliance for customized interior, approval of business jet cabin seats, approval of ordinary consumer electronic devices, etc.)之適航驗證：
  - (1) 由 Gulfstream 公司人員 Randy Wood、Claudia Casanova 及 Brad Hakey 以商務專機改艙為案例，解說實務之作法，包括 ODA (Organization Designation Authorization) STC 的驗證方式、COTS (Commercial Off The Shelf) 裝備的驗證方式、TSO 座椅椅布改裝的驗證與安裝，並至 Gulfstream 公司參觀，由其展示該公司對於客戶飛機構型管理作業與驗證方式。

#### 肆、訓練心得：

1. 商務飛機是客製化情形非常明顯的產品，透過 Gulfstream 公司人員解說中明白，商務飛機機體完成時通常以空機(green airplane)交至改裝中心，在改裝中心完成客製化內裝，及一切設備的安裝，這些內裝、設備的安裝核准大多以多項補充型別檢定證的方式完成。在 Gulfstream 公司改裝中心交機之商務飛機，於完成時以一份 FAA Form 337 表格記錄這些安裝。因每一商務飛機均可能為獨特之構型，此表格為非常重要之適航證明文件，為新進商務飛機執行適航檢定時應特別注意。
2. 在此自用航空器、商務航空器開放及緊急醫療服務日增時，我們要面對相關適航檢定及改裝、修理等適航驗證業務，雖然過去相關經驗較少，但仍可藉由其他國家之經驗與參考文件了解國際間如何執行此類適航驗證業務，以求維護飛航安全及公眾利益。
3. 由這次訓練中看見美國聯邦航空總署的參考文件又增加、更新了不少。正因為他們將這些經驗與知識文件化，知識管理與經驗傳承才能真正落實，工作可以不斷進步。
4. 這次接觸的美國聯邦航空總署人員，都熱心的提供他們的經驗與心得，在他們忙碌的工作之中，還能不厭其煩的講解他們的工作方式、回答受訓人員所提出的問題，充分展現出高度的工作熱誠與自信，值得效法。
5. 美國聯邦航空總署內部通訊不只一次報導本次訓練相關消息(如附錄)，顯見美國聯邦航空總署對我國之重視。未來若有需求，仍可安排類似之訓練，促進國際合作。

## 伍、建議事項

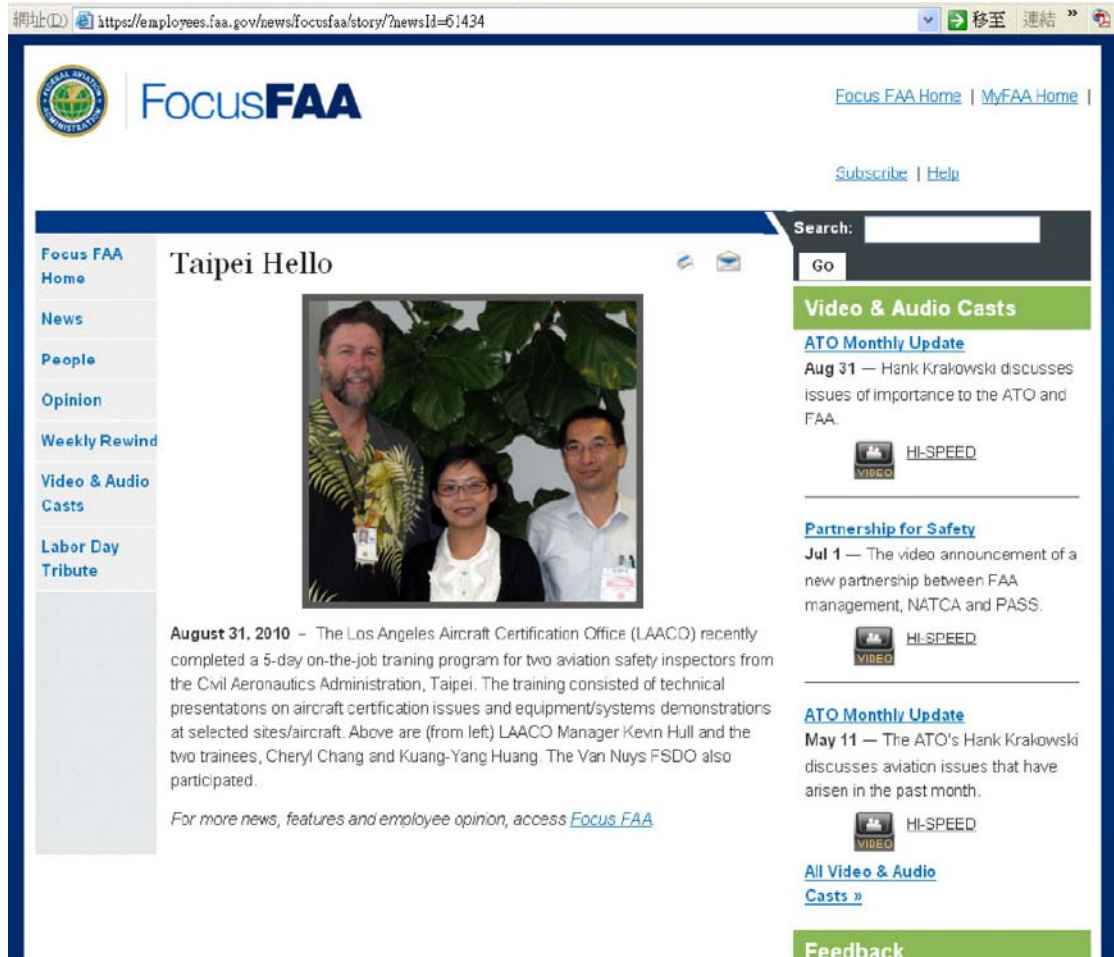
1. 自用航空器及商務航空器是客製化情形非常明顯的產品，每一飛機具備其獨特之構型，本局在執行自用航空器及商務航空器適航檢定作業時，應注重此特異性，加強對飛機構型管理作業。
2. 自用航空器、商務航空器開放及緊急醫療服務業務其多樣化之特性，與過去著重大眾運輸之民航運輸業作業方式不同，我們應更積極面對相關適航檢定及改裝、修理等適航驗證業務。雖然，目前相關驗證經驗較少，建議多與他國交流。藉由其他國家之經驗與參考文件了解國際間如何執行此類適航驗證業務，以維護飛航安全及公眾利益。
3. 由這次訓練中看見美國聯邦航空總署利用數位化及網路作業方式，更新其文件系統。他們將經驗與知識文件化/數位化保存，如此知識管理與經驗傳承才能真正落實，工作可以不斷進步，值得我們仿效。

## 陸、附錄

### 附錄一：FAA 相關報導

(1) 刊登於 2010/8/31 FAA 網站 <https://employees.faa.gov/> 之報導

網址 <https://employees.faa.gov/news/focusfaa/story/?newsId=61434> 移至 連結




The screenshot shows a web browser window displaying the FAA Focus website. The page title is "Taipei Hello". The main content features a photograph of three people: a man in a Hawaiian shirt, a woman in a white blouse, and a man in a light blue shirt. Below the photo is a text block dated August 31, 2010, describing a training program for two aviation safety inspectors from the Civil Aeronautics Administration, Taipei. The text mentions LAACO Manager Kevin Hull and trainees Cheryl Chang and Kuang-Yang Huang. To the right of the main content is a sidebar with a search bar and several video and audio cast entries, including "ATO Monthly Update" for August 31, July 1, and May 11. The sidebar also includes a "Feedback" section at the bottom.

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**Taipei Hello**



**August 31, 2010** - The Los Angeles Aircraft Certification Office (LAACO) recently completed a 5-day on-the-job training program for two aviation safety inspectors from the Civil Aeronautics Administration, Taipei. The training consisted of technical presentations on aircraft certification issues and equipment/systems demonstrations at selected sites/aircraft. Above are (from left) LAACO Manager Kevin Hull and the two trainees, Cheryl Chang and Kuang-Yang Huang. The Van Nuys FSDO also participated.

For more news, features and employee opinion, access [Focus FAA](#)

**Video & Audio Casts**

**ATO Monthly Update**  
**Aug 31** - Hank Krakowski discusses issues of importance to the ATO and FAA.  
HI-SPEED VIDEO

**Partnership for Safety**  
**Jul 1** - The video announcement of a new partnership between FAA management, NATCA and PASS.  
HI-SPEED VIDEO

**ATO Monthly Update**  
**May 11** - The ATO's Hank Krakowski discusses aviation issues that have arisen in the past month.  
HI-SPEED VIDEO

**All Video & Audio Casts »**

**Feedback**





## International Leadership

### Colombia

#### Familiarization Visit

The FAA and AEROCIVIL of Colombia met in Bogotá July 26-30, 2010. The purpose of the meeting was to conduct a familiarization visit between the FAA and AEROCIVIL to foster mutual understanding. The Technical cooperation and assistance via an in-country visit was established as prescribed in the Memorandum of Agreement between both authorities. AEROCIVIL expressed the following goals for the meeting:

- Familiarize the FAA with the current state of the AEROCIVIL aircraft certification system.
- Discuss areas for improvement and consider Colombia's future growth and development of an aircraft certification system.
- Progress toward the development of a bilateral agreement with the United States.

The AEROCIVIL would like to obtain expertise in the design and production process starting with the light sport category followed by small aircraft, and has expressed a desire to use FAA's aircraft certification system as a benchmark. AEROCIVIL is currently in a transition state with new personnel coming on-board for training. The FAA and AEROCIVIL concluded that the familiarization meeting was condensed yet very thorough. **Anna María Colom, AIR-40 202 385-8952**



### Japan

#### Cabin Safety Workshop

John Shelden and Alan Sinclair from ANM-115 recently traveled to Japan in February to train individuals from the JCAB, airlines and manufacturers on Cabin Safety. Over 30 representatives from government and industry were trained. The class was well received and will help to form contacts between our countries for technical exchanges in the future. Our thanks to John and Alan for doing such a good job.

**Brian Morris, AIR-40 , 202 385-8955**



FAA's Anna María Colom (2nd from left) and Steve Josephson (6th from left) with Colombian AEROCIVIL.



### Taiwan

#### Inspectors Train at the LAACO

In accordance with the FAA's goal of "International Leadership" in promoting aviation safety, the Los Angeles Aircraft Certification Office successfully completed a 5-day On-The-Job training (OJT) on July 27, 2010 for two aviation safety inspectors from the Civil Aeronautics Administration, Taiwan. To meet the specific OJT objectives, the training consisted of technical presentations on aircraft certification issues and equipment/systems demonstrations at selected sites/aircraft. The organizations making significant contribution to the OJT included LAACO, Van Nuys FSDO, Gulfstream Aerospace Corporation, B/E Aerospace, and the Los Angeles Fire Department.

**Samuel Wong, ANM-150-L, 562-627-5338**

**Cheryl Chang (CAA, Taiwan); Samuel Wong (LAACO); Albert Lam (LAACO); Dan Arland (Van Nuys FSDO); Bruce Borden, Van Nuys FSDO); Simon Leung (LAACO); Kuang-Yang Huang (CAA, Taiwan)**

## 附錄二：訓練參考資料

1. 適航驗證辦公室所提之 Field Approval 參考資料。
  - Order 8900.1 CHG 71 VOL 4 Aircraft Equipment and Operational Authorizations Chapter 9 Selected Field Approvals
  - Order 8110.37D Designated Engineering Representative (DER) Handbook
  - FAA Form 337 Major Repair And Alteration
  - FAA Form 8110-3 Statement of Compliance with the Federal Aviation Regulations
  - FAA Form 8100-9 Statement of Compliance with Airworthiness Standards
  - 2010 DER Recurrent Seminar; Designated Engineering Representative Support for Flight Standards Service
  - Regulatory and Guidance Library Website <http://rgl.faa.gov>
  
2. 飛航標準地區辦公室(Flight Standards District Office, FSDO) 所提之 Field Approval 參考資料。
  - (1) Advisory Circulars (AC's)
    - [AC 20-62D](#) Eligibility, Quality, and Identification of Aeronautical Replacement Parts
    - [AC 20-114](#) Manufacturer's Service Documents (10/22/81)
    - [AC 21-40A](#) (9-27-07) [AC 21-40](#) Application Guide for Obtaining a Supplemental Type Certificate (5-06-98)
    - [AC 21.17-1A](#) Type Certification - Airships. Also see FAA report [P-8110-2](#) "Airship Design Criteria" from the DOT online library
    - [AC 21.17-2A](#) Type Certification-Fixed Wing Gliders (Sailplanes) Including Powered Gliders
    - [AC 23-21 Chg 1](#) (3-16-05) [AC 23-21](#) Airworthiness Compliance Checklists Used to Substantiate Major Alterations for Small Airplanes (9-30-04)
    - [AC 43-10B](#) [10A](#) Mechanical Work Performed on U.S. and Canadian Registered Aircraft "A"(2/25/83) "B"(10/03/06)
    - [AC 43-18 CHG 1](#) (2-29-08) [AC 43-18](#) Fabrication of Aircraft Parts By Maintenance Personnel (3/24/06)
    - [AC 43-210](#) Standardized Procedures for Requesting Field Approval of Data, Major Alterations, and Repairs

- [AC 43.9-1F](#) [-1E](#) Instructions for Completion of FAA Form 337 (OMB No. 2120-0020), Major Repair and Alteration (Airframe, Powerplant, Propeller, or Appliance) "E" (5/21/87) "F" 1/25/2007
- [AC43.13-1B CHG 1](#) Acceptable Methods, Techniques, and Practices - Aircraft Inspection and Repair (9/8/98). This Consolidated Reprint incorporating Change 1 (9/27/01)
- [AC 43.13-2B](#) [2A](#) Acceptable Methods, Techniques, and Practices – Aircraft Alterations (Revised 1977)
- [AC 105-2C](#) Sport Parachute Jumping
- [AC 120-77](#) Maintenance and Alteration Data
- [AC 140-8](#) Guide for Developing and Evaluating an SFAR 36 Engineering Procedures Manual (5/22/97) **Cancelled**
- [AC 183.29-1HH](#) Consultant DER Directory issued March 1, 2000. If you are a DER and need to update your information, contact your advisor or email [kevin.kendall@faa.gov](mailto:kevin.kendall@faa.gov) **Cancelled**
- [AC183-35K](#) Airworthiness Designee Information (6/02/03). Cancels AC 183-35J, Airworthiness Designee Function Codes and Consolidated Directory for DMIR/DAR/ODAR/DAS/DOA and SFAR No. 36.

## (2) ORDERS

- [8000.50](#) Repair Station Production of Replacement or Modification Parts (**Cancelled 07/26/2006 Use AC 43-18**)
- [8100.8C Chg 5](#) (07/24/2009) [Chg 1-4](#) (09/29/2008)[Chg 4](#) (09/29/2008) [Chg 3](#) (10/1/2008) [Chg 2](#) (07/18/2008) [Chg 1](#) (02/15/2008) [8100.8C](#) Designee Management Handbook 05/04/07 (6.0 MB Adobe.pdf) Also the [Job Aid](#) "FAA and Designee Authorization and Reference Chart for Issuing Original and Recurrent Airworthiness Certificates" for Manufacturing and Maintenance Designees ([8100.8B](#)) dated 7/14/03 ([Chg 1](#) **ONLY** dated 1/6/04) ([Chg 2](#) dated 5/11/04) ([Chg 3](#) dtd 9/30/04)
- [8100.9A](#) [8100.9](#) DAS, DOA, AND SFAR 36 AUTHORIZATION PROCEDURES (8/30/2005)
- [8100.15 Chg 1](#) (09/18/2008) [.15](#) (8/18/06) ORGANIZATION DESIGNATION AUTHORIZATION PROCEDURES
- [8110.4C Chg 2](#) **ONLY** (08/14/2008) [Chg1](#) (03/28/07) [4C](#) (10/26/05) [4B](#) Type Certification 10/26/2005

- [8110.10C](#) FAA Approvals of Major Modifications/Alterations 1/30/78  
**Cancelled**
- [8110.37D](#) [C](#) Designated Engineering Representative Guidance Handbook  
“C” 9/30/98 “D” 8/10/06
- [8110.42C](#) (06/23/2008) [B](#) (9/9/2005) [A](#) (3/31/99) Parts manufacturer  
Approval Procedures
- [8110.45](#) Use of Data Approved by Designated Engineering Representatives to  
Support Major Alterations (8/30/02) **Cancelled – Incorporated into Order  
8110.37D**
- [8110.46](#) Major Alterations that Require Supplemental Type Certificates  
(9/30/02) **Cancelled – Incorporated into Order 8300.10, Vol 2, Chapter 1,  
Change 16**
- [8110.47](#) DER Data Approvals Related to Foreign Registered Aircraft (9/30/02)  
**Cancelled – Incorporated into Order 8110.37D**
- [8110.48](#) How to Establish The Certification Basis for Changed Aeronautical  
Products
- [8110.49](#) Software Approval Guidelines (6/02/03)
- [8110.53](#) RECIPROCAL ACCEPTANCE OF REPAIR DESIGN DATA  
APPROVALS BETWEEN FAA AND TCCA
- [8110.54](#) Instructions for Continued Airworthiness Responsibilities,  
Requirements, and Contents (07/01/2005) (This order cancels Order 8110.50)
- Airworthiness Certification of Aircraft and Related Products
- [8130.2F Chg 3](#) April 18, 2007 ([Chg 2](#) 7/10/2006) ([Chg 1](#)  
04/01/05)
- [8130.2F](#) Airworthiness Certification of Aircraft and Related  
Products 11/05/04
- [8130.2E](#) Airworthiness Certification of Aircraft and Related  
Products 1/23/03 (Adobe .pdf) (with [Change 1](#) dated 6/20/03 and [Change 2](#)  
dated 7/22/03) ([Change 3](#) dated 8/30/04)
- [8130.2D & Chg 1](#) dated 2/15/00 ([Change 2](#) dated 12/18/00) ([Change 3](#) dated  
11/30/01)
- [8130.21F](#) (05/30/2008) [E Chg 1](#) (04/17/2007) [E](#) (09/29/2006) [D](#)  
(09/28/2004) [C Chg 2](#) (06/10/2003) [C Chg 1](#) (10/15/2001) [C](#)  
(06/01/2001) [B](#) (11/07/1997)  
Procedures for Completion of Authorized Release Certificate FAA Form  
8130-3
- Change 2 incorporates AIR-200 Memo dated 12/19/2002 "Procedures for the  
issuance of FAA Form 8130-3, Airworthiness Approval Tag, for Parts

Manufacturer Approval (PMA) parts exported to France, Italy, Netherlands, Sweden, and the United Kingdom" was issued to clarify that special importing requirements for exporting PMA parts to European bilateral countries are found in both AC 21-2, Export Airworthiness Approval Procedures, and the BASA IPAs.

- [8130.29A](#) (6/29/07) [8130.29](#) (4/23/02) Issuance of a Special Airworthiness Certificate for Show Compliance Flight Testing (Cancels AIR-200 Policy Memo 2000-03).  
Misinterpretation of Order [8130.29](#)
- [8130.32](#) Airworthiness Certification Requirements for Certain Aircraft Operated in the State of Alaska 9/30/03 (“Legacy” Order)
- [8150.1B](#) Technical Standard Order Program (5/12/02)
- [8300.13](#) REPAIR ASSESSMENT PROGRAM (7/23/2003)
- [8300.14](#) Repair Specification Approval Procedures (12/07/07) **TEMP RECENDED**
- [8310.6](#) Airworthiness Compliance Check Sheet Handbook (1/04/85).
- [8400.11](#) Interim Procedures to Approve Special Instrument Approach Operations Using DGPS 8/19/94 (Word 6.0) Resource page for avionics approvals [Aircraft Certification](#)
- [8620.2A](#) Applicability and Enforcement of Manufacturer’s Data (11/05/07) **NOT on RGL - FSIMS ONLY**

### (3) NOTICES

- [N8000.337](#) Initial Release Information for Use of the Web-Based Automated FAA Form 337 **Cancellation Date 12/11/07**
- [N8000.344](#) Requirements and Guidance Regarding Proper Use of FAA Form 8110-3 **Cancellation Date 12/18/07**
- [N8000.354](#) Two-Year Inspection Authorization (IA) and Renewal (Effective 02/21/07) **NOT on RGL HISTORY**
- [N8300.119](#) MANUFACTURER’S REPAIR OR SERVICE DATA (7/28/05) **(Cancelled – See N8300.122 below)**
- [N8300.121](#) USE AND DISTRIBUTION OF FAA FORM 337, INCLUDING AUTOMATED SUBMISSION AND RETENTION SYSTEM (ASRS) **Cancellation Date 6/12/07**
- [N8300.122](#) Use of MANUFACTURER’S REPAIR OR SERVICE DATA as FAA-Approved Data for Major Repairs for Aircraft Issued A Type Certificate Prior to January 1, 1980 (06/21/2006) **Cancellation Date 6/21/07**

- [N8900.24](#) Flight Standards Inspector Signature Authority, Flight Manual Supplements **NOT on RGL HISTORY**
- [N8900.25](#) Supplemental Type Certificate Information **NOT on RGL HISTORY**
- [N8900.74](#) Parts Marking (06/05/09)
- [N8900.84](#) Eclipse EA-500 Avionics Installation or Alteration Evaluation Requirements

(4) FAA Forms

- [FAA Form 337](#) (10-06) Major Repair and Alteration Form
- [FAA Form 337](#) Major Repair and Alteration Form
- [FAA Form 8110-3](#) Statement of Compliance with The Federal Aviation Regulations
- [FAA Form 8100-9](#) Statement of Compliance with The Federal Aviation Regulation

3. 適航驗證辦公室所提之 Approved Model List STC 參考資料。

- Order 8110.4C Section 4-13, Approved Model List (AML) STCs
- Advisory Circular AC 23-22, Guidance for Approved Model List (AML) Supplemental Type Certificated (STC) Approval of Part 23 Airplane Avionics Installations
- ASW-100-09-001 Memo dated June 30, 2010, Policy Statement on Approved Model List (AML) Supplemental Type Certificate (STC) Approval of Avionics Installations on Rotorcraft