



U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

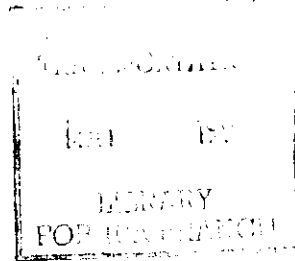
# Advisory Circular

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**AC 00-2.1**

**special canvass issue**

**(See Inside Back Cover)**



## **ADVISORY CIRCULAR CHECKLIST**

**(and STATUS of OTHER FAA PUBLICATIONS)**

**October 15, 1987**

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Initiated By: AMS-420



U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

# Advisory Circular

Subject:

Date: 10/15/87  
Initiated by: AMS-420

AC No: 00-2.1

## ADVISORY CIRCULAR CHECKLIST (and Status of Other FAA Publications)

1. Purpose. This circular transmits the revised checklist of current FAA advisory circulars (AC's) and Certain Other Publications subsequent to October 15, 1986. This checklist is issued as necessary to list all current advisory circulars.

2. Background. The first edition of the advisory circular checklist was published as a notice in the Federal Register in 1963. Over the years spiralling P.R. production rates caused the agency to seek out a means of producing the checklist at a lesser cost. In 1979 the AC checklist was processed completely in-house. Since that time there have been several revisions up to and through the second generation alphabet ending with AC 00-222. In order to keep the checklist within the generalized framework of the AC numbering system and to keep it listed as the first in the AC series the decimal point followed by a number is applied with this issue. After this issue the number following the decimal point will indicate the succeeding checklist. For example, 00-2.2, 00-2.3, 00-2.4, 00-2.5, and so on.

3. Explanation of AC system. The FAA issues advisory circulars to inform the aviation public in a systematic way of nonregulatory material of interest. Unless incorporated into a regulation by reference, the contents of an advisory circular are not binding on the public. Advisory circulars are issued in a numbered-subject system corresponding to the subject areas of the Federal Aviation Regulations (FAR's) (Title 14, Code of Federal Regulations, Chapter I, Federal Aviation Administration). An AC is issued to provide guidance and information in its designated subject area or to show a method acceptable to the Administrator for complying with a related Federal Aviation Regulation.

### 4. The Advisory Circular Checklist.

a. General. Each circular issued is listed numerically within its subject-number breakdown in Appendix I. The identification number (AC 120-1), the change number of the latest change, if any, to the right of the identification number, the title, and the issuance date for each circular are shown. A brief explanation of the contents is given for each listing. For cross-referencing purposes an alphabetical section is provided in Appendix IV.

b. Omitted numbers. In some series, some consecutive numbers are missing. These numbers were assigned to advisory circulars still in preparation which will be issued later or were assigned to advisory circulars that have been canceled.

### 5. How to order:

a. Free Advisory Circulars (AC's). If no price is listed after the AC, it is free. You can expedite the delivery of your order by using the special order blank in the back of this checklist, Appendix 1 (photocopies are acceptable). Distribution personnel will send up to ten copies of any "free" publication. Higher quantities must be approved by the issuing office. Send your order for "free" AC's to:

U.S. Department of Transportation  
Utilization and Storage Section, M-443.2  
Washington, D.C. 20590

To be added to or deleted from an AC MAILING LIST, for your convenience, we have included in the back of this checklist (Attachment 2) a "Request For Mailing List Action" sheet. Complete this sheet and mail to:

U.S. Department of Transportation  
Distribution Requirements Section, M-444.1  
Washington, D.C. 20590

b. Sale AC's. If a price is listed after the AC description the AC is sold by the Superintendent of Document, U.S. Government Printing Office. When "(Sub.)" is included with the price, the AC is available on a subscription basis only; supplements or changes to the basic document will be sent to you at no additional charge until the subscription expires. Orders for mailing to foreign countries should include an additional 25 percent of the total price to cover handling. No c.o.d. orders are accepted.

c. Other Publications for Sale. A list of certain internal FAA directives and publications is shown in Appendix V and are identified by their own numbers and/or titles.

### NOTICE

Prices on Publications that are for sale are current as of this issue. These prices are subject to change as the year progresses. Therefore, the prices charged on your order may differ from those printed in this checklist. Make check or money order in the amount listed

to Superintendent of Documents. Mail it with the exact title and stock number of the Publication you are ordering to:

Superintendent of Documents  
U.S. Government Printing Office  
Washington, D.C. 20402

GPO operates 24 bookstores located throughout the United States. For your convenience, a list of these bookstores is shown in the back of this checklist. Both the Federal Telecommunications System (FTS) and commercial phone numbers are listed after each address. All GPO bookstores accept VISA, MasterCard, and Superintendent of Documents deposit account orders.

#### SERVICE INQUIRIES

Free FAA publications are distributed by the Department of Transportation, Utilization and Storage Section, M-443.2; FAA sale publications are sold by the U.S. Government Printing Office.

There are no sale publications distributed by the Federal Aviation Administration. With the exception of the Summary of Airworthiness Directives. Every free item in our inventory is shown in this checklist without a price.

To expedite the processing of your requests, follow the exact ordering instructions given in paragraph 5.

Do not send initial orders or follow-up inquiries regarding unreceived orders to the Federal Aviation Administration. Inquiries should be addressed to the organization (Department of Transportation or Government Printing Office) with which you placed the original order.

On occasion, our supply personnel may misinterpret your request. At other times the publication(s) may be out-of-print. If you do not receive desired publication(s) after your second request please call FAA's Toll-Free Consumer Hotline: 1 (800) FAA-SURE.

b. Reproduction of Advisory Circulars. Advisory circulars may be reproduced in their entirety or in part without permission from the Federal Aviation Administration.



Michael D. Sherwin  
Director of Management Systems

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Mailing lists for Advisory Circulars are computerized. If errors in mailing occur, please notify Department of Transportation, Distribution Requirements Section, M-494.1, Washington, D.C. 20590.  
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BE SURE TO ENCLOSE THE MAILING LABEL

from the shipment together with the Advisory Circular number(s) so that your listing can be corrected.  
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 . U.S. DEPARTMENT OF TRANSPORTATION .  
 . FEDERAL AVIATION ADMINISTRATION .  
 . Publications Issued By the FAA .  
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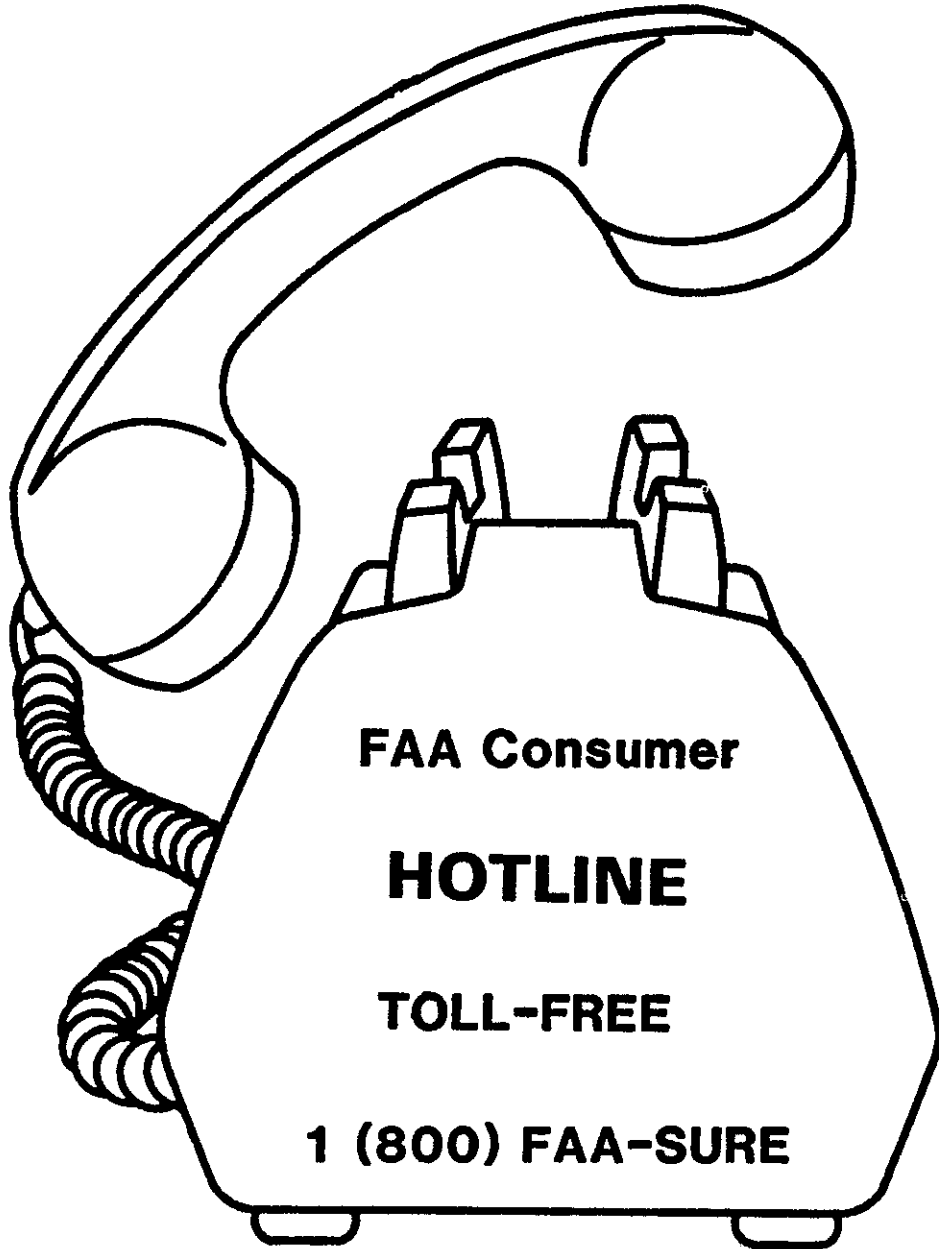
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**If You Do Not Receive  
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Call**

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## APPENDIX I

## CANCELLATIONS AND ADDITIONS

Cancellations

1. The following Advisory Circulars (AC's) are canceled. They have been revised with a letter A, B, C etc., after the consecutive number: (See additions list).

- 00-222 Advisory Circular Checklist (10-15-86). (AMS-420).
- 00-7A State and Regional Disaster Airlift (SARDA) Planning (6-3-74). (AVS-14).
- 00-32 Civil Air Patrol and State and Regional Defense Airlift Relationships (7-2-70). (AVS-14).
- 20-5E Plane Sense (6-25-81). (AVN-120).
- 20-97 High-Speed Tire Maintenance and Operational Practices (1-28-77). (AFS-310).
- 20-110C Index of Aviation Technical Standard Orders (5-13-86). (AWS-110).
- 20-118 Emergency Evacuation Demonstration From Small Airplanes (7-12-83). (ACE-111).
- 21-5H Announcement of Availability--Summary of Supplemental Type Certificates 1984 Edition (4-25-84). (AVN-113).
- 21-12 Application for U.S. Airworthiness Certificate, FAA Form 8130-b (OMB 04-R0058) (1-17-73). (AWS-202).
- 21-15E Announcement of Availability -- Aircraft, Aircraft Engines and Propeller Type Certificate Data Sheets and Specifications (2/18/86). (AVN-113).
- 29-2 Certification Of Transportation Category Rotorcraft (5-20-83). (ASW-110).
- 39-7A Airworthiness Directives for General Aviation Aircraft (9-17-82). (AFS-310).
- 43.9-1D Instructions for Completion of FAA Form 337 (OMB 04-R006D), Major Repair and Alteration (Airframe, Powerplant, Propeller, or Appliance) (9-5-79). (AFS-310).
- 61-89A Pilot Certificates: Aircraft Type Ratings (12-22-81). (AFS-840).
- 61-91D Pilot Proficiency Award Program (8-10-84). (AFS-806).
- 65-11A Airframe and Powerplant Mechanics Certification Information (4-21-71). (AFS-340).
- 65-13H FAA Inspection Authorization Directory (6-7-85). (AVN-132).
- 65-198 Inspection Authorization Study Guide (Revised June 1978). (AFS-340).
- 65-23 Certification of Repairmen (Experimental Aircraft Builders) (9-28-79). (AFS-300).
- 140-2R List of Certificated Pilot Schools (10-83). (AVN-121).
- 140-7D Federal Aviation Administration Certificated Maintenance Agencies Directory (10-83). (AVN-121).
- 150/5000-3J Address List for Regional Airports Divisions and Airports District/Field Offices (4-22-86). (ARP-11).
- 150/5100-6C Labor Requirements for the Airport Improvement Program (AIP) (10-19-83).
- 150/5200-27A Announcement of Availability--The National Fire Protection Association's Standard for Airport Fire Fighter Professional Qualifications (NFPA 1003-1978) (2-1-84). (AAS-100).
- 150/5325-5B Aircraft Data (7-30-75). (Consolidated reprint includes Change 1). (AAS-100).
- 183-29-1U Designated Engineering Representatives (7-2-86). (AVN-113).
- b. The following AC's are canceled by another identifier (if shown) or because the information contained in the circular is outdated and no longer beneficial to the aviation public:
- 21-7A Certification and Approval of Import Products (11-24-69). (AWS-200). Canceled by AC 21-23 (7-7-87).
- 29.773-1 Pilot Compartment View (1-19-66). (ASW-100). (Incorporated in AC 29-2).
- 60-16 Announcement of Availability: -- FAA-P-8080.1, IFR and VFR Pilot EXAM-0-GRAMS (9-4-80). (AVN-112).
- 60-18 Transition Period For FAA Airmen Written Tests And Unused Test Items (12-3-84). (AVN-130).
- 60-19 Announcement of Availability: New Series Test Question Books (4-1-86). (AVN-132).

- 61-56A Flight Test Guide, Instrument Pilot Airplane (5-7-76). (AVN-132). (Replaced by FAA-S-8081-4).
- 61-64A Flight Test Guide--Instrument Pilot Helicopter (5-25-77). (AVN-110). (Replaced by FAA-S-2081-4).
- 61-93 Replacing the Flight Test Guides With Practical Test Standards (3-27-84). (AVN-131).
- 65-23A Certification of Repairmen (Experimental Aircraft Builders) (7-22-87). (AFS-340).
- 91-41 Ground Operational Procedures for Aircraft Engine Emission Reduction and Fuel Conservation (3-12-74). (AEE-200).
- 91-64 Use of Remote Altimeter Settings instrument Approach Procedures (4-23-85) (AVN-220).
- 121-23 Preparation and Loading of Magnetron Tubes and Magnetic Materials for Air Shipments (2-10-77). (ACS-200). Canceled by AC 121-28 (2-19-87).
- 135-11A Air Taxi Operators (8-30-84). (AVN-121). Canceled by AC 135-13, (7-10-87).
- 150/5200-4 Foaming of Runways (12-21-66). (AAS-300).
- 150/5200-6A Security of Aircraft at Airports (6-28-68). (AAS-300).
- 150/5200-8 Use of Chemical Controls to Repel Flocks of Birds at Airports (5-2-68). (AAS-300).
- 150/5200-13 Removal of Disabled Aircraft (8-27-70). (AAS-100).
- 150/5210-10 Airport Fire and Rescue Equipment Building Guide (12-7-67). (AAS-100). Canceled by AC 150/5210-15 (7-30-87).
- 150/5230-3 Fire Prevention During Aircraft Fueling Operations (4-8-69). (AAS-100).
- 170-10 FAA Recommendations to FCC on licensing of Non-Federal Radio Navigation Aids (10-17-69). (AES-500).
- 20-127 Use of Society of Automotive Engineers (SAE) Class H11 bolts (7/8/87). (ANM-110B).
- 21-5J Announcement of Availability--Summary of Supplemental Type Certificates 1984 Edition (April 1986). (AVN-112).
- 21-12A Application for U.S. Airworthiness Certificate, FAA Form 8130-B (OMB 2120-0018) (3-26-87). (AWS-220).
- 21-15F Announcement of Availability -- Aircraft, Aircraft Engines and Propeller Type Certificate Data Sheets and Specifications (3/11/87). (AVN-113).
- 21-23 Airworthiness Certification of Civil Aircraft Engine, Propellers, and Related Products (7-7-87). (AWS-4).
- 21-17-1 Type Certification--Airships (9-30-87). (AWS-110).
- 23-7 Substantiation for an Increase in Maximum Weight, Maximum Landing Weight, or Maximum Zero Fuel Weight (7-1-87). (ACE-100).
- 23-841-1 Cabin Pressurization Systems In Small Airplanes (12-30-86). (ACE-111).
- 23-961-1 Procedures for Conducting Fuel System Hot Weather Operation Tests (1/14/87). (ACE-100).
- 25-10 Guidance for Installation of Miscellaneous Nonrequired Electrical Equipment (3-6-87). (ANM-110).
- 25-11 Transport Category Airplane Electronic Display Systems (7-16-87). (ANM-110B).
- 25-783-1 Fuselage Doors, Hatches, and Exits (12-10-86). (ANM-110).
- 27-1, Chg. 1 Certification of Normal Category Rotorcraft (9-16-87). (ASW-110).
- 29-2A Certification of Transportation Category Rotorcraft (9-16-87). (ASW-110).
- 39-7B Airworthiness Directives (4-8-87). (AFS-340).

#### Additions

2. The following advisory circulars are added to the list:

- 00-2.1 Advisory Circular Checklist (10-15-87). (AMS-420).
- 00-32A Civil Air Patrol and State and Regional Defense Airlift Relationships (3-18-87). (APR-13).
- 20-5F Plane Sense (11-12-86). (AVN-133).
- 20-110D Index of Aviation Technical Standard Orders (6-12-87). (AWS-120).
- 20-118A Emergency Evacuation Demonstration (3-9-87). (ACE-100).
- 20-126 Manufacturing Inspection Field Office Directory (12-18-86). (AWS-203).
- 61-89B Pilot Certificates: Aircraft Type Ratings (3-4-87). (AFS-840).
- 61-91E Pilot Proficiency Award Program (7-20-87). (AFS-810).
- 61-97 Announcement of Availability: FAA-S-8081-4, Instrument Rating Practical Test Standards (10-30-86).
- 61-98 Scope and Content of Biennial Flight Reviews (9-1-87). (AFS-840).
- 65-19C Inspection Authorization Study Guide (Revised May 1987). (AVN-133).

- 91-66 Noise Abatement for Helicopters (6-4-87). (AFS-840).
- 120-43 The Influence of Beards on Oxygen Mask Efficiency (1-27-87). (AFS-220).
- 120-44 Air Carrier First Aid Programs (4-17-87). (AFS-220).
- 120-45 Advanced Training Devices (Airplane Only) Evaluation and Qualification (5-11-87). (AS0-205).
- 120-46 Use of Advanced Training Devices (Airplane Only) (6-12-87). (AFS-260).
- 120-47 Survival Equipment for Use In Overwater Operations (6-12-87). (AFS-220).
- 121-28 Preparation and Loading of Magnetron Magnetic Materials for Air Transportation (3-19-87). (ACS-120).
- 135-13 List of Air Carriers Certificated by FAR Part 135 (7-10-87). (AVN-121).
- 140-2S List of Certificated Pilot Schools (7-10-87). (AVN-121).
- 140-7E Federal Aviation Administration Certificated Maintenance Agencies Directory (5-28-87). (AVN-121).
- 147-2Y Directory of FAA Certificated Aviation Maintenance Technician Schools (5-12-87). (AVN-121).
- 150/5000-3K Address List for Regional Airports Divisions and Airports District/Field Offices (9-1-87). (ARP-11).
- 150/5000-6 Announcement of Availability -- Micro-Paver, Pavement Management System (PMS) (4-16-87). (AAS-200).
- 150/5000-7 Announcement of Availability Report No. DOT/FAA/PP/87-1-- Measuring the Regional Economic Significance of Airports (5-12-87). (APP-400).
- 150/5050-7 Establishment of Airport Action Groups (6-23-87). (AAS-300).
- 150/5100-6D Labor Requirements for the Airport Improvement Program (AIP) (10-15-86). (APP-510).
- 150/5200-278 Announcement of Availability: The National Fire Protection Association's Standard for Professional Qualifications for Airport Fire Fighters (NFPA 1003-1987) (9-1-87). (AAS-100).
- 150/5210-15 Airport Rescue and Firefighting Station Building Design (7-30-87). (AAS-100).
- 150/5230-4, Chg. 2 Aircraft Fuel Storage, Handling, and Dispensing On Airports (AAS-300). (7-1-87).
- 150/5300-2D, Chg. 2 Airport Design Standards--Site Requirements for Terminal Navigational Facilities (1-30-87). (AAS-110).
- 150/5325-5C Aircraft Data (6-29-87). (AAS-100).
- 150/5335-5, Chg. 1 Standardized Method of Reporting Airport Pavement Strength--PCN (3-6-87). (AAS-200).
- 150/5300-4B, Chg. 9 Utility Airports -- Access to National Transportation--Refinement of Terminology (9-18-87). (AAS-110).
- 183-35 FAA Designated Airworthiness Representatives (DAR's), Designated Alteration Stations (DAS's) and Delegation Option Authorization (DOA) Directory (5-28-87). (AVN-130).
- 183-29-1V Designated Engineering Representatives (7-9-87). (AVN-113).

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# The **THIRD** Man

A History of  
The Airline Crew Complement Controversy

1947-1981



US Department of Transportation  
**Federal Aviation Administration**

10/15/87

A C 00-2.1  
APPENDIX II

150/5100 Federal-aid Airport Program.  
150/5150 Surplus Airport Property Conveyance Programs.  
150/5190 Airport Compliance Program.  
150/5200 Airport Safety--General.  
150/5210 Airport Safety Operations (Recommended Training, Standards, Manning).  
150/5220 Airport Safety Equipment and Facilities.  
150/5230 Airport Ground Safety System.  
150/5240 Civil Airports Emergency Preparedness.  
150/5300 Design, Construction, and Maintenance--General.  
150/5320 Airport Design.  
150/5325 Influence of Aircraft Performance on Aircraft Design.  
150/5335 Runway, Taxiway, and Apron Characteristics.  
150/5340 Airport Visual Aids.

150/5345 Airport Lighting Equipment.  
150/5360 Airport Buildings.  
150/5370 Airport Construction.  
150/5380 Airport Maintenance.  
150/5390 Heliports.  
150/5900 Planning Grants for Airports.

4. Individual circular identification numbers. Each circular has a subject number followed by a dash and a consecutive number identifying the individual circular. This consecutive number is not used again in the same subject series. Revised circulars have a letter A, B, C, etc., after the consecutive number to show complete revisions. Changes to circulars have Chg. 1, Chg. 2, Chg. 3, etc., after the identification number on pages that have been changed. The date on a revised page is changed to the date of the Change transmittal.

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# TROUBLED PASSAGE

The Federal Aviation Administration  
During The Nixon-Ford Term  
1973-1977



U.S. DEPARTMENT OF TRANSPORTATION  
Federal Aviation Administration

## APPENDIX III

## ADVISORY CIRCULAR CHECKLIST

## Important Notice

This Advisory Circular Checklist, AC 00-2, is no longer sent automatically to addressees on free advisory circular mailing lists. Persons not now receiving AC 00-2 but who wish to receive it must specifically request to be placed on the AC 00-2 mailing list (see par. b for ordering information). Up to ten copies may be sent to any one address. Persons receiving this edition of AC 00-2 need not request AC 00-2 mailing list service as they have already been transferred to the new list.

## SN Numbers

Superintendent of Documents stock numbers (SN) have been included to aid Superintendent of Documents personnel in processing orders. Please use them when ordering--along with the title and FAA AC number. To avoid unnecessary delays, do not order single-sales material and subscription sales material on the same order form, as orders are separated for processing by different departments when they arrive at Superintendent of Documents. Be sure your name and address appears on each list.

## Prices

Prices shown were in effect on the date indicated on this list. Government documents prices are subject to change without prior notice, therefore the price in effect when your order is processed will be the price charged for each publication ordered.

General  
Subject No. 00++00-2.1 Advisory Circular Checklist  
(10-15-87). (AMS-420).

Transmits the revised checklist of current FAA advisory circulars as of October 15, 1987.

## 00-ba Aviation Weather (3-3-75). (AFS-200).

Provides an up-to-date and expanded text for pilots and other flight operations personnel whose interest in meteorology is primarily in its application to flying. (88-50 Supt. Docs.) SN 050-007-00283-1.

00-7B State and Regional Disaster Airlift  
(SARDA) Planning (8-31-87). (ARP-130).

Provides guidance to develop and implement State and Regional Disaster Airlift plans governing the use of general aviation aircraft during national emergencies and natural disasters.

## 00-24B Thunderstorms (1-20-83). (AFS-260).

Describes the hazards of thunderstorms to aviation and offers guidance to help prevent accidents caused by thunderstorms.

00-25 Forming and Operating a Flying Club  
(3-24-89). (AVP-300).

Provides preliminary information that will assist anyone or any group of people interested in forming and operating a flying club (81.75 Supt. Docs.) SN 050-007-00065-1.

00-26 Definitions of "U.S. National Aviation  
Standards" (1-22-89). (APM-11).

Informs the aviation community of the approval by the FAA Administrator of a definition of U.S. National Aviation Standards, the need for such standards, and their relationship to the Federal Aviation Regulations.

00-30 Rules of Thumb for Avoiding or  
Minimizing Encounters with Clear Air  
Turbulence (3-5-70). (AFS-210).

Brings to the attention of pilots and other interested personnel, the "Rule of Thumb" for avoiding or minimizing encounters with clear air turbulence (CAT).

00-31A United States (U.S.) National Aviation  
Standard for the VOR/DME/TAC Systems  
(9-20-82). (APM-420).

Informs the aviation community of the establishment and content of the United States (U.S.) National Aviation Standard for the Very High Frequency Omnidirectional Radio Range (VOR)/Distance Measuring Equipment (DME)/Tactical Air Navigation (TACAN) Systems.

++00-32A Civil Air Patrol and State and  
Regional Defense Airlift Relationships  
(3-18-87). (APR-13).

Advises interested persons and State officials responsible for emergency planning activities of an updated memorandum of Understanding (MOU) between the Civil Air Patrol (CAP) and the Federal Aviation Administration (FAA) relative to CAP/State and Regional Disaster Airlift (SARDA) relationships.

00-33A Nickel-Cadmium Battery Operational,  
Maintenance, and Overhaul Practices  
(2-14-73). (AFS-340).

Provides guidelines for more reliable nickel-cadmium battery operation through proper operational and maintenance practices, and has been reissued to include reconditioning information.

++ Indicates new or changed material.

00-34A Aircraft Ground Handling and Servicing (7-29-74). (AFS-340).  
Contains information and guidance for the servicing and ground handling of aircraft.

00-41A FAA Quality Control System Certification Program (11-3-75). (ALG-400).  
Describes the FAA Quality Control System Certification Program and the mechanics of implementation. It is intended for guidance and information only.

00-44X Status of the Federal Aviation Regulations (7-1-86). (AGC-206).  
This circular sets forth the current publication status of Federal Aviation Regulations, any changes issued to date, and provides a price list.

00-45C Aviation Weather Services (6-12-85). (AFS-200/ADL-15).  
Supplements AC 00-6A, Aviation Weather, in that it explains the weather service in general and the use and interpretation of reports, forecasts, weather maps, and prognostic charts in detail. (#6.00 Supt. Docs.) SN D50-007-00705-1.

00-46C Aviation Safety Reporting Program (2-4-85). (ASF-200).  
This circular describes the Federal Aviation Administration's Aviation Safety Reporting Program which utilizes the National Aeronautics and Space Administration (NASA) as a third party to receive and analyze Aviation Safety Reports. This cooperative safety reporting program invites users of the National Aviation System to report to NASA actual or potential discrepancies and deficiencies involving the safety of aviation operations.

00-50A Low Level Wind Shear (1-23-79). (AFS-5).  
Provides guidance for recognizing the meteorological situations that produce the phenomenon widely known as low level wind shear.

00-52 Ozone Irritation During High Altitude Flight (7-21-77). (AFS-210).  
Defines ozone irritation, discusses its causes and symptoms, and describes a means of dealing with the problem should it occur in flight.

00-53 FAA Computer Software Quality Program (1-18-78). (ALG-410).  
Describes the FAA computer software quality program and the mechanics of implementation. For guidance and information only.

Procedural

Subject No. 10

11-2A Notice of Proposed Rulemaking Distribution System (7-26-84). (AMS-420).  
Provides the public with information relative to participation in the FAA rulemaking process and explains the availability of the Notices.

Aircraft  
Subject No. 20

20-3C Status and Availability of Military Handbooks and ANC Bulletins for Aircraft (6-1-73). (AWS-110).  
Announces the status and availability of Military Handbooks and ANC Bulletins prepared jointly with FAA, Navy, and Air Force.

++20-5F Plane Sense (11-12-86). (AVN-133).  
Provides general aviation information for the private aircraft owner and outlines requirements of owning and operating a personal type airplane.

20-18A Qualification Testing of Turbo-jet Engine Thrust Reversers (3-16-66). (ANE-100).  
Discusses the requirements for the qualification of thrust reversers and sets forth an acceptable means of compliance with the tests prescribed in Federal Aviation Regulations, Part 33, then run under nonstandard ambient air conditions.

20-24B Qualification of Fuels, Lubricants, and Additives (12-20-85). (ANE-110).  
Provides acceptable procedures for approving the qualification of fuels, lubricants, and additives for use in certificated aircraft engines.

20-27C Certification and Operation of Amateur-Built Aircraft (4-1-83). (AWS-203).  
Provides information and guidance relative to the airworthiness certification and operation of amateur-built aircraft.

20-29B Use of Aircraft Fuel Anti-icing Additives (1-18-72). (ANE-100).  
Provides information on the use of anti-icing additives PFA-55MB and Mil-I-27666 as an acceptable means of compliance with the FARs that require assurance of continuous fuel flow under conditions where ice may occur in turbine aircraft fuel systems.

20-30B Aircraft Position Light and Anticollision Light Installation (7-20-81). (AWS-130).  
Sets forth acceptable means, but not the only means, of showing compliance with the Federal Aviation Regulations (FAR) applicable to installed position lights and anticollision lights.

20-32B Carbon Monoxide (CO) Contamination in Aircraft--Detection and Prevention (11-24-72). (AWS-140).  
Provides information on the potential dangers of carbon monoxide contamination from faulty engine exhaust systems or cabin heaters of the exhaust gas heat exchanger type.

20-33B Technical Information Regarding Civil Aeronautics Manuals 1, 3, 4a, 4b, 5, 6, 7, 8, 9, 13 and 14 (5-1-75). (AWS-200).  
Advises the public that policy information contained in the subject Civil Aeronautics Manuals may be used in conjunction with specific sections of the Federal Aviation Regulations.

- 20-35C Tie-Down Sense (7-12-83). (AFS-340).**  
Provides updated information of general use on aircraft tiedown techniques and procedures.
- 20-34D Prevention of Retractable Landing Gear Failures (8-8-80). (AFS-340).**  
Updates statistical information related to landing accidents involving aircraft with retractable landing gear and suggests procedures to minimize those accidents.
- 20-35C Tie-Down Sense (7-12-83). (AFS-340).**  
Provides updated information of general use on aircraft tiedown techniques and procedures.
- 20-36Q Index of Articles (Materials, Parts, Processes and Appliances) Certified Under the Technical Standard Order System (7-16-85). (AVN-113).**  
Lists the materials, parts, and appliances for which the Administrator has received statements of conformance under the Technical Standard Order system as of August 2, 1984. Such products are deemed to have met the requirements for FAA approval as provided in Part 21, Subparts N and O. (#9-50 Supt. Docs.) SN D50-007-00710-8.
- 20-37C Aircraft Metal Propeller Blade Failure (7-15-80). (AFS-310).**  
Provides information and suggested procedures to increase service life and to minimize blade failures of metal propellers.
- 20-38A Measurement of Cabin Interior Emergency Illumination in Transport Airplanes (2-6-86). (AVS-12).**  
Outlines acceptable methods, but not the only methods, for measuring cabin interior emergency illumination on transport airplanes, and provides information as to suitable measuring instruments.
- 20-40 Placards for Battery-Excited Alternators Installed in Light Aircraft (8-11-85). (AWS-120).**  
Sets forth an acceptable means of complying with placarding rules in Federal Aviation Regulations 23 and 27 with respect to battery excited alternator installations.
- 20-41A Substitute Technical Standard Order (TSO) Aircraft Equipment (4-5-77). (AWS-120).**  
Sets forth an acceptable means for complying with rules governing aircraft equipment installations in cases involving the substitution of technical standard order equipment for functionally similar TSO approved equipment.
- 20-42C Hand Fire Extinguishers for use in Aircraft (3-7-84). (AFS-310).**  
Provides methods acceptable to the Administrator for showing compliance with the hand fire extinguisher provisions in FAR 25, 29, 91, 121, 125, 127, and 135 and provides updated general information.
- 20-43C Aircraft Fuel Control (10-20-76). (AWS-120).**  
Alerts the aviation community to the potential hazards of inadvertent mixing or contamination of turbine and piston fuels, and provides recommended fuel control and servicing procedures.
- 20-44 Glass Fiber Fabric for Aircraft Covering (9-3-85). (AWS-120).**  
Provides a means, but not the sole means, for acceptance of glass fiber fabric for external covering of aircraft structure.
- 20-45 Safelying of Turnbuckles on Civil Aircraft (9-17-85). (AWS-110).**  
Provides information on turnbuckle safelying methods that have been found acceptable by the FAA during past aircraft type certification programs.
- 20-47 Exterior Colored Band Around Exits on Transport Airplanes (2-8-86). (ANM-100).**  
Sets forth an acceptable means, but not the only means, of complying with the requirement for a 2-inch colored band outlining exits required to be openable from the outside on transport airplanes.
- 20-48 Practice Guide for Decontaminating Aircraft (5-5-86). (AFS-330).**  
The title is self-explanatory.
- 20-52 Maintenance Inspection Notes for Douglas DC-6/7 Series Aircraft (8-24-87). (Consolidated Reprint-- includes Change 1). (AFS-310).**  
Describes maintenance inspection notes which can be used for the maintenance support of certain structural parts of DC-6/7 series aircraft.
- 20-53A Protection of Aircraft Fuel Systems Against Fuel Vapor Ignition Due to Lightning (4-12-85). (ACE-111).**  
Provides information and guidance concerning an acceptable means, but not the only means, of compliance with Parts 23 25 of the Federal Aviation Regulations (FAR) applicable to preventing ignition of fuel vapors due to lightning.
- 20-56A Marking of TSO-C72b Individual Flotation Devices (4-1-75). (AWS-120).**  
Outlines acceptable methods for marking individual flotation devices which also serve as seat cushions.
- 20-57A Automatic Landing Systems (ALS) (1-12-71). (ANM-110).**  
Sets forth an acceptable means of compliance, but not the only means, for the installation approval of automatic landing systems in transport category aircraft which may be used initially in Category II operations. Approval of these aircraft for use under such conditions will permit the accumulation of data for systems which may be approved for Category IIIa in the future.
- 20-59 Maintenance Inspection Notes for Convair 240, 340/440, 240T, and 340T Series Aircraft (2-19-89). (AFS-330).**  
Describes maintenance inspection notes which can be used for the maintenance support of certain structural parts of Convair 240, 340/440, 240T, and 340T series aircraft.
- 20-59 (chg. 1) (8-24-72).**  
Provides additional material for Convair Models 240 and 600/240D; Models 340/440 and 640/340D/440D series aircraft maintenance inspection programs.

- 20-60 Accessibility to Excess Emergency Exits** (7-18-68). (ANM-110A).  
Sets forth acceptable means of compliance with the "readily accessible" provisions in the Federal Aviation Regulations dealing with excess emergency exits.
- 20-62C Eligibility, Quality, and Identification of Approved Aeronautical Replacement Parts** (8-26-76). (AFS-340).  
Provides information relative to the determination of the eligibility of aeronautical parts and materials for installation on certificated aircraft.
- 20-64 Maintenance Inspection Notes for Lockheed L-188 Series Aircraft** (8-1-69). (AWS-3).  
Describes maintenance inspection notes which can be used for the maintenance support of certain structural parts of Lockheed L-188 series aircraft.
- 20-64 Chg. 1** (10-26-73).
- 20-65 U.S. Airworthiness Certificates and Authorizations for Operation of Domestic and Foreign Aircraft** (8-11-69). (AWS-200).  
Provides general information and guidance concerning issuance of airworthiness certificates for U.S. registered aircraft, and issuance of special flight authorizations for operation in the United States of foreign aircraft not having standard airworthiness certificates issued by the country of registry.
- 20-66 Vibration Evaluation of Aircraft Propellers** (1-29-70). (ANE-100).  
Outlines acceptable means, but not the sole means, for showing compliance with the requirements of the FARs concerning propeller vibration.
- 20-67B Airborne VHF Communications Equipment Installations** (1-16-86). (AWS-120).  
Sets forth one means, but not the only means, of demonstrating compliance with the airworthiness rules governing the functioning of airborne VHF communications equipment.
- 20-68B Recommended Radiation Safety Precautions for Ground Operation of Airborne Weather Radar** (8-8-80). (AVN-112).  
Sets forth recommended radiation safety precautions for ground operation of airborne weather radar.
- 20-69 Conspicuity of Aircraft Instrument Malfunction Indicators** (5-14-70). (AWS-130).  
Provides design guidance information on methods of improving conspicuity of malfunction indication devices.
- 20-71 Dual Locking Devices on Fasteners** (12-8-70). (AWS-120).  
Provides guidance and acceptable means, not the sole means, by which compliance may be shown with the requirements for dual locking devices on removable fasteners installed in rotorcraft and transport category airplanes.
- 20-73 Aircraft Ice Protection** (4-21-71). (AWS-140).  
Provides information relating to the substantiation of ice protection systems on aircraft.
- 20-74 Aircraft Position and Anticollision Light Measurements** (7-29-71). (AWS-130).  
Contains useful information concerning measurements for intensity, covering, and color of aircraft position and anti-collision lights.
- 20-76 Maintenance Inspection Notes for Boeing B-707/720 Series Aircraft** (10-21-71). (AFS-310).  
Provides maintenance inspection notes which can be used for the maintenance support program for certain structural parts of the B-707/720 series aircraft.
- 20-77 Use of Manufacturers' Maintenance Manuals** (3-22-72). (AFS-310).  
Informs owners and operators about the usefulness of manufacturers' maintenance manuals for servicing, repairing, and maintaining aircraft, engines and propellers.
- 20-78 Maintenance Inspection Notes for McDonnell Douglas DC-8 Series Aircraft** (7-11-72). (AVS-16).  
Provides maintenance inspection notes which can be used for the maintenance support program for certain structural parts of the DC-8 series aircraft.
- 20-82 Maintenance Inspection Notes for Fairchild Hiller F-27/FH-227 Series Aircraft** (12-5-72). (AVS-16).  
Provides maintenance inspection notes which can be used for the maintenance support program for certain structural parts of Fairchild Hiller F-27/FH-227 series aircraft.
- 20-82 Chg. 1** (7-12-73).  
Provides additional material for subject advisory circular.
- 20-83 Maintenance Inspection Notes for Boeing B-737 Series Aircraft** (1-17-73). (AFS-330).  
Provides maintenance inspection notes which can be used for the maintenance support program for certain structural parts of the B-737 series aircraft.
- 20-83 Chg. 1** (8-8-74).  
Provides updating of material for the B-737 series aircraft maintenance inspection program. Inspection of selected areas of the wing, fuselage, empennage and landing gear of B-737 series aircraft are presented supplementing information currently in AC 20-83.
- 20-83 Chg. 2** (1-31-75).
- 20-84 Maintenance Inspection Notes for Boeing B-727 Series Aircraft** (1-22-73). (AFS-5).  
Provides inspection notes which can be used for the maintenance support program for certain structural parts of the B-727 series aircraft.

- 20-84 Chg. 1 (8-8-74).**  
Updates material for the B-727 series aircraft maintenance inspection program. Inspection of selected areas of the wing, fuselage, empennage and landing gear of the B-727 series aircraft are presented supplementing information currently available in AC 20-84.
- 20-84 Chg. 2 (1-31-75).**
- 20-88A Guidelines on the Marking of Aircraft Powerplant Instruments (Displays), (9-30-85). (ANM-112).**  
Provides revised guidelines on the marking of aircraft powerplant instruments and electronic displays (cathode ray tubes, etc.). These guidelines offer acceptable, but not exclusive, methods of compliance with the powerplant instrument color marking requirements. (\$1.50 Supt. Docs.) SN 050-007-00683-7.
- 20-94 Digital Clock Installation in Aircraft (3-4-76). (AFS-350).**  
Provides guidelines for operating and installing digital clocks in aircraft.
- 20-95 Fatigue Evaluation of Rotorcraft Structure (5-18-76). (ASW-100).**  
Sets forth acceptable means, not the only means, of compliance with the provisions of FAR sections 27.571 and 29.571 dealing with the fatigue evaluation of rotorcraft structure.
- 20-96 Surplus Military Aircraft--A Briefing for Prospective Buyers (12-2-76). (AWS-200).**  
Provides many answers to questions regarding the purchasing of surplus military aircraft (type certification, is the aircraft flyable, is it sold for spare parts, scrap?).
- 20-97A High-Speed Tire Maintenance and Operational Practices (5-13-87). (AFS-340).**  
Provides information and guidance for maintaining aircraft tires to ensure their continued airworthiness.
- 20-99 Antiskid and Associated Systems (5-27-77). (ANM-100).**  
Provides an acceptable means, but not the only means, of complying with the requirement that antiskid and associated systems must be designed so that no probable malfunction will result in a hazardous loss of braking or directional control of an airplane.
- 20-100 General Guidelines for Measuring Fire-Extinguishing Agent Concentrations in Powerplant Compartments (9-21-77). (AWS-140).**  
Describes the installation and use of a model GA-2A fire extinguisher agent concentration recorder in determining the distribution and concentration of fire-extinguishing agents when discharged in an aircraft powerplant compartment.
- 20-101B Omega and Omega/VLF Navigation Systems Approvals for Use in the Conterminous United States and Alaska (12-1-80). (AWS-110).**  
Presents an acceptable means of compliance--but not the only means--for the approval of Omega and Omega/Very Low Frequency (VLF) Navigation Airborne Equipment as a means of Visual Flight Rules (VFR)/Instrument Flight Rules (IFR)/Area Navigation (RNAV) en route navigation within the conterminous United States and Alaska. (\$1.75 Supt. Docs.) SN 050-007-00639-0.
- 20-103 Aircraft Engine Crankshaft Failure (3-7-78). (AFS-340).**  
Provides information and suggests procedures to increase crankshaft service life and to minimize failures.
- 20-104 Revised Powerplant Engineering Report No. 3, Standard Fire Test Apparatus and Procedure (for Flexible Hose Assemblies) (4-12-78). (AWS-140).**  
Announces the availability of the subject report.
- 20-105A Engine Power-Loss Accident Prevention (11-20-80). (AFS-343).**  
Advises of the circumstances surrounding engine power-loss accidents with recommendations on how those accidents may be prevented.
- 20-106 Aircraft Inspection for the General Aviation Aircraft Owner (April 1978). (AFS-340).**  
Describes techniques used in aircraft inspections. Designed to familiarize owner, pilots, student mechanics, and others with inspection procedures, it does NOT qualify an individual to make airworthiness determinations. (\$5.00 Supt. Docs.) SN 050-007-00449-4.
- 20-107A Composite Aircraft Structure (4-25-84). (AWS-103).**  
Sets forth an acceptable, but not the only, means of showing compliance with the provisions of FAR Parts 23, 25, 27, and 29 regarding airworthiness type certification requirements of composite aircraft structures involving fiber reinforced materials, e.g., carbon (graphite), boron, aramid (kevlar), and glass reinforced plastics. Guidance information is also presented on associated quality control and repair aspects.
- 20-108 Announcement of Availability--Report No. AS12D-73-2, Fatigue Evaluation of Wing and Associated Structure on Small Airplanes (7-17-78). (ACE-100).**  
Announces the availability of the subject report from the National Technical Information Service (NTIS), and provides ordering information. The report develops methods of fatigue evaluation which can be used to evaluate the adequacy of small structure from both a fail-safe and safe-life point of view.
- 20-109 Service Difficulty Program (General Aviation) (1-8-79). (AFS-310).**  
Describes the Service Difficulty Program as it applies to general aviation activities and provides instructions for completion of the Malfunction or Defect Report (M or D), FAA Form 8010-4.



- ++20-110D Index of Aviation Technical Standard Orders (4-12-87). (AWS-120).**  
Describes the public procedure the FAA will use to develop and issue Technical Standard Orders (TSO's) for aeronautical products to be used on civil aircraft. Presents an index of FAA TSO's which contain minimum performance standards for specified materials, parts, processes, and appliances used on civil aircraft.
- 20-111 Communication Interference Caused By Unintentional Keyed Microphones (10-10-80). (AFS-350).**  
Alerts the aviation community to the potential hazards created by unintentional keying of microphones resulting in radio transmissions from airborne, mobile, and ground based radio transmitters and gives guidance on alleviating ensuing hazards.
- 20-112 Airworthiness and Operational Approval of Airborne Systems to be Used In Lieu of Ground Proximity Warning System (GWPS) (2-19-81). (AWS-130).**  
Provides information and guidance regarding airworthiness and operational approval of airborne equipment/systems in accordance with FAR 135.153(b) and (c).
- 20-113 Pilot Precautions and Procedures to be taken in Preventing Aircraft Reciprocating Engine Induction System & Fuel System Icing Problems (10-22-81). (ACE-100).**  
Provides information pertaining to aircraft engine induction system icing and the use of fuel additives to reduce the hazards of aircraft operation that may result from the presence of water and ice in aviation gasoline and aircraft fuel systems.
- 20-114 Manufacturers' Service Documents (10-22-81). (AWS-100).**  
Suggests acceptable methods by which product manufacturers may indicate FAA approval of recommended actions prescribed in manufacturers' service documents.
- 20-115A Radio Technical Commission for Aeronautics RTCA/D0-178A (8-12-8b). (AWS-120).**  
Calls attention to the Radio Technical Commission for Aeronautics (RTCA) Document D0-178A, "Software Considerations in Airborne Systems and Equipment Certification," issued March 1985, and discusses how the document may be applied with FAA Technical Standard Order (TSO), Type Certification and Supplemental Type Certification authorizations.
- 20-116 Marking Aircraft Fuel Filler Openings With Color Coded Decals (9-17-82). (ACE-100).**  
Discusses the conditions under which color coded decals may be used to comply with the requirements in FAR Parts 23, 25, 27, and 29 for marking fuel filler openings.
- 20-117 Hazards Following Ground Deicing and Ground Operations in Conditions Conducive to Aircraft Icing (12-17-82). (AWS-3).**  
Provides information on the identified hazards associated with ground deicing and ground operations in conditions conducive to aircraft icing.
- 20-117 Chg. 1 (4-15-83).**  
Corrects an error in Figure 3-2, Appendix 3, regarding the values of "TIME TO CRYSTALLIZATION (MIN)."
- ++20-118A Emergency Evacuation Demonstration (3-9-87). (ACE-100).**  
Sets forth acceptable means, but not the only means, of showing compliance with the Federal Aviation Regulations (FAR) applicable to required emergency evacuation demonstrations from airplanes certified to the requirements of SFAR 23, SFAR 41, Appendix A of Part 135, or Part 23, commuter category.
- 20-119 Fuel Drain Valves (2-7-83). (AWS-130).**  
Provides an acceptable means, but not the only means, of compliance with the requirements of the FARs for positive locking of fuel drain valves in the closed position.
- 20-120 Nondirectional Beacon Frequency Congestion (6-18-84). (AES-520).**  
Recommends several actions that the user can take to alleviate problems of frequency congestion in the 190-535 kHz frequency range.
- 20-121 Airworthiness Approval of Airborne Loran-C Systems for Use in the U.S. National Airspace System (8-23-84). (AFS-350).**  
Establishes an acceptable means, but not the only means, of obtaining airworthiness approval of airborne Loran-C navigation systems for use under visual flight rules, and instrument flight rules as an area navigation system within the conterminous United States, Alaska, and surrounding U.S. waters.
- 20-122 Anti-misfueling Devices: Their Availability and Use (10-5-84). (AFS-340).**  
Explains the benefits of fitting reciprocating engine-powered general aviation aircraft with anti-misfueling devices and the fitting of fuel dispensing equipment with special fuel hose nozzle spouts.
- 20-123 Avoiding Or Minimizing Encounters With Aircraft Equipped With Depleted Uranium Balance Weights During Accident Investigations (12-20-84). (AFS-330).**  
Provides information and guidance to individuals who come in contact with depleted uranium contained in aircraft control surfaces during accident investigations.
- 20-124 Water Ingestion Testing for Turbine Powered Airplanes (9-30-85). (ANM-112).**  
Describes a method of demonstrating compliance with the requirements of the FAR concerning the ingestion of water from the runway/taxiway surface into the airspeed system, the engine, and essential auxiliary power unit air inlet ducts of turbine engine powered airplanes.
- 20-125 Water in Aviation Fuels (12-10-85). (AFS-340).**  
Alerts the aviation community to the potential hazards of water in aviation fuels. Additionally, it outlines recommended procedures to prevent, detect, and eliminate water in the fuel systems of aircraft.

- ++20-126 Manufacturing Inspection Field Office Directory (12-18-86).** (AWS-203).  
Advises the general public and industry of the nearest point of contact to obtain information regarding the issuance of type certificates and changes hereto, the issuance of production and/or airworthiness approvals.
- ++20-127 Use of Society of Automotive Engineers (SAE) Class H11 bolts (7/8/87).** (ANM-110B).  
Provides guidance on the use of SAE Class H11 bolts in primary structure on all aircraft, including gliders and manned free balloons, and on aircraft engines and propellers.
- 21-10 Production Certificates (5-10-76).** (AWS-200).  
Provides information concerning Subpart G of Federal Aviation Regulations (FAR) Part 21, and sets forth acceptable means of compliance with its requirements.
- 21-2E Export Airworthiness Approval Procedures (5-18-81).** (AWS-200).  
This advisory circular provides general information and guidance concerning issuance of export approvals under Federal Aviation Regulations (FAR) Part 21, Subpart L. (#6.00 Supt. Docs) SN 050-007-00644-6.
- 21-4B Special Flight Permits for Operation of Overweight Aircraft (7-30-69).** (AWS-200).  
Furnishes guidance concerning special flight permits necessary to operate an aircraft in excess of its usual maximum certificated takeoff weight.
- ++21-5J Announcement of Availability--Summary of Supplemental Type Certificates 1984 Edition (April 1986).** (AVN-113).  
Announces the availability to the public of a revised edition of the Summary of Supplemental Type Certificates (STC), dated April 1986.
- 21-6A Production Under Type Certificate Only (7-1-82).** (AWS-203).  
Provides information concerning Subpart F of FAR Part 21, and sets forth an acceptable means, not the sole means, of compliance with its requirements. (#1.75 Supt. Docs.) SN 050-007-00636-5.
- 21-9A Manufacturers Reporting Failures, Malfunctions, or Defects (5-26-82).** (AWS-203).  
Provides information to assist manufacturers of aeronautical products (aircraft, aircraft engines, propellers, appliances, and parts) in notifying the Federal Aviation Administration of certain failures, malfunctions, or defects, resulting from design or quality control problems, in the products which they manufacture.
- 21-10A Flight Recorder and Cockpit Voice Recorder Underwater Locating Devices (4-19-83).** (ANM-112).  
Suggests an acceptable means of showing compliance with the underwater locating device (ULD) requirements of the Federal Aviation Regulations (FAR) for recorder ULD's.
- 21-12A Application for U.S. Airworthiness Certificate, FAA Form 8130-6 (OMB 2120-0018) (3-26-87).** (AWS-220).  
Provides instructions on the preparation and submittal of subject form.
- 21-13 Standard Airworthiness Certification of Surplus Military Aircraft and Aircraft Built from Spare and Surplus Parts (4-5-73).** (AWS-200).  
Provides guidance and instruction on establishing eligibility and submitting application for civil airworthiness certification of surplus military aircraft and aircraft assembled from spare and surplus parts, under FAR 21.183 (d) when an FAA Type Certificate has been issued under FAR 21.21 or FAR 21.27.
- 21-14 The Role of Simulation in the Aircraft Certification Process (6-12-75).** (AWS-110).  
Informs the aviation industry that the FAA intends to conduct an exploratory program to determine the degree to which simulation can support the aircraft certification process.
- ++21-15E Announcement of Availability -- Aircraft, Aircraft Engines and Propeller Type Certificate Data Sheets and Specifications (3/11/87).** (AVN-113).  
Provides information concerning the availability of subject publications.
- 21-16B Radio Technical Commission for Aeronautics Document D0-160B (10-9-84).** (AWS-120).  
Calls attention to the RTCA Document D0-160B, "Environmental Conditions and Test Procedures for Airborne Equipment" 7/20/84; and discusses how it may be used in connection with TSO authorizations; and advises how copies may be obtained.
- 21-17 Carriage of Cargo in Restricted Category Aircraft and Other Special Purpose Operations (3-15-82).** (AWS-205).  
Advises that the carriage of cargo in a restricted category aircraft is considered a restricted category special purpose operation and provides procedures for designating other special purpose operations under FAR 21.25(b) (7). (#1.75 Supt. Docs.) SN 050-007-00638-1.
- 21-18 Bilateral Airworthiness Agreements (8-20-82).** (AWS-110).  
Makes available to interested persons copies of all current U.S. Bilateral Airworthiness Agreements (BAA) together with an explanation of their intent. (#7.00 Supt Docs.) SN 050-007-00614-4.
- 21-19 Installation of Used Engines In New Production Aircraft (4-26-82).** (AWS-200).  
Advises that under certain specified criteria, used engines may be used in new production aircraft.
- 21-20 Supplier Surveillance Procedures (7-22-82).** (AWS-200).  
Sets forth revised procedures concerning FAA surveillance of suppliers to U.S. holders of FAA production approvals; and advises as to optional procedures outside the provisions of bilateral airworthiness agreements pertaining to certification of foreign manufactured components.

- 21-21 Use of Automobile Gasoline In Agricultural Aircraft (8-24-84). (AUS-200).  
Sets forth acceptable conditions under which automobile gasoline (autogas) may be used in restricted category agricultural aircraft powered by Pratt and Whitney R-985 and R-1340 radial engines, and being used in agricultural operations under Federal Aviation Regulations Part 137.
- 21-22 Injury Criteria for Human Exposure to Impact (6/20/85). (AUS-120).  
Describes a range of impact trauma which may be used to establish bases for acceptance levels or performance criteria in the evaluation of occupant survivability characteristics in civil aircraft.
- +21-23 Airworthiness Certification of Civil Aircraft Engine, Propellers, and Related Products (7-7-87). (AUS-4).  
Provides information on the Federal Aviation Administration's (FAA) objectives, regulations, and general practices for the United States of America airworthiness certification or acceptance of civil aeronautical products imported to the U.S.
- +21.17-1 Type Certification--Airships (9-30-87). (AUS-110).  
Describes two acceptable criteria, but not the only means, for the type certification of airships that may be used by an applicant in showing compliance with new section 21.17(b) of the Federal Aviation Regulations (FAR), Part 21. General guidance relative to airship type certification is also provided.
- 21.23-1 Type Certification--Fixed-Wing Gliders (Sailplanes) (1-12-81). (AUS-120).  
Provides criteria that may be used by an applicant in showing compliance with FAR 21.23(a) for the type certification of fixed-wing gliders (Sailplanes), including self-launching (powered) gliders.
- 21.303-1A Certification Procedures for Products and Parts (8-10-72). (AUS-200).  
Provides information concerning section 21.303 of Federal Aviation Regulations, Part 21, and to set forth examples, as necessary, of acceptable means of compliance with its requirements.
- 21.303-2F Announcement of Availability--Parts Manufacturer Approvals--1984 (Microfiche) (1-22-85). (AVN-113).  
Provides information concerning the availability, price, and ordering instructions for a 24 x microfiche listing of Parts Manufacturer Approvals which have been issued under the requirements of Part 21, Subpart K of the Federal Aviation Regulations. These approvals are of interest to mechanics, operators of repair stations, and others engaged in altering, inspecting, or maintaining aircraft. ("Parts Manufacturer Approvals" publication is 823.00-- Domestic and 828.75-- Foreign Supt. Docs. SN 05D-007-00598-9).
- 21.431-1A Designated Alteration Station Authorization Procedures (12-19-85). (AUS-110).  
Updates the FAA Designated Alteration Station (DAS) authorization program; provides acceptable means of compliance with the DAS eligibility, personnel qualifications, and procedural requirements; provides information on FAA's participation in design change approval projects conducted under DAS procedures; and describes the FAA's DAS audit procedures.
- 23-2 Flammability Tests (8-20-84). (ACE-111).  
Provides information and guidance concerning compliance with FAR Part 23 CAR Part 3 applicable to flammability tests for various materials, components, and electrical wire.
- 23-3 Structural Substantiation of Secondary Structures, (9-5-85). (ACE-111).  
Provides information and guidance concerning acceptable means, but not the only means, of demonstrating compliance with the requirements of Part 23 of the Federal Aviation Regulations (FAR) applicable to the structural substantiation of secondary structures such as fairings, cowlings, antennae, etc.
- 23-4 Static Strength Substantiation of Attachment Points for Occupant Restraint System Installations (6-20-86). (ACE-111).  
Provides information and guidance concerning an acceptable means, but not the only means, of compliance with Part 23 of the Federal Aviation Regulation (FAR) applicable to the static strength substantiation of the attachment points for occupant restraint system installations which have both a safety belt and shoulder harness.
- 23-5 Cutouts in a Modified Fuselage of Small Airplanes (8-6-86). (ACE-111).  
Provides information and guidance concerning acceptable means of compliance with Part 23 of the Federal Aviation Regulation (FAR) applicable to the structural substantiation of a fuselage modified by incorporation of large or small cutouts.
- 23-6 Interpretation of Failure for Static Structural Test Programs (9-2-86). (ACE-111).  
Provides information and guidance concerning the interpretation of failure for small airplanes for static structural test programs.
- +23-7 Substantiation for an Increase in Maximum Weight, Maximum Landing Weight, or Maximum Zero Fuel Weight (7-1-87). (ACE-100).  
Provides information and guidance concerning acceptable means, but not the only means of compliance with Part 23 of the Federal Aviation Regulations (FAR) applicable to structural substantiation for an increase in maximum weight, maximum landing weight, or maximum zero fuel weight.
- 23.607-1 Self-Locking Nuts on Bolts Subject to Rotation (8-24-84). (ACE-111).  
Provides information and guidance concerning compliance with Part 23 for self-locking nuts used on bolts subject to rotation in operation.
- 23.629-1A Means of Compliance with Section 23.629, "Flutter" (10-23-85). (ACE-111).  
Presents information and guidance to provide one means, but not the only means, of complying with Section 23.629, Flutter

- (including flutter, airfoil divergence, and control reversal) of Part 23 of the Federal Aviation Regulations.
- 23.679-1 Control System Locks, 7-25-85). (ACE-111).  
Provides methods acceptable to the Administrator for showing compliance with the provisions of section 23.679(a) of the Federal Aviation Regulations (FAR) or section 3.341(a) of the Civil Air Regulations (CAR), concerning the provisions of an unmistakable warning to the pilot when the control lock is engaged.
- 23.683-1 Control System Operations Test (9-25-84). (ACE-111).  
Provides information and guidance concerning compliance with Part 23 applicable to control system operations tests.
- 23.729-1 Landing Gear Doors and Retraction Mechanism (3/26/84). (ACE-111).  
Provides information and guidance concerning acceptable means, but not the only means, of compliance with Part 23 of the Federal Aviation Regulation (FAR) applicable to the structural substantiation to the loads resulting only from all yawing conditions for the landing gear doors and retraction mechanism of small airplanes.
- 23.807-1 Emergency Exits In Small Airplanes (9-7-83). (ACE-111).  
Provides information and guidance regarding acceptable means of compliance with Part 23 of the Federal Aviation Regulations (FAR) applicable to the size and shape of the emergency exits in small airplanes.
- 23.807-2 Doors Between Pilot's Compartment and Passenger Cabin In Small Airplanes (9-22-83). (ACE-111).  
Sets forth acceptable means, but not the only means, of showing compliance with Part 3 of the Civil Air Regulations (CAR) and Part 23 of the Federal Aviation Regulations (FAR) applicable to a door between pilot's compartment and passenger cabin in small airplanes.
- 23.807-3 Emergency Exits Openable From Outside For Small Airplanes (1-20-84). (ACE-111).  
Provides information and guidance concerning external markings and identification of emergency exits which are openable from outside of the airplane.
- ++23.841-1 Cabin Pressurization Systems In Small Airplanes (12-30-86). (ACE-111).  
Provides an acceptable means, but not the only means, of showing compliance with the requirements of Sections 23.841(b)(3) and 23.841(b)(6) of the Federal Aviation Regulations (FAR) pertaining to pressurized cabins in small airplanes.
- 23.909-1 Installation of Turbochargers in Small Airplanes with Reciprocating Engines, (2-3-86). (ACE-111).  
Provides information and guidance concerning as acceptable means, but not the only means, of showing compliance with Part 23 of the Federal Aviation Regulations (FAR), applicable to approval procedures and installation of turbochargers in small airplanes. Accordingly, this material is
- neither mandatory nor regulatory in nature and does not constitute a regulation.
- 23.955-1 Substantiating Flow Rates and Pressures in Fuel Systems of Small Airplanes (6-10-85). (ACE-111).  
Provides information and guidance concerning an acceptable means, but not the only means, of compliance with Part 04a and Part 3 of the CAR and Part 23 of the Federal Aviation Regulations applicable to substantiating fuel flow rates and pressures in fuel systems of reciprocating and turbine-powered small airplanes.
- 23.959-1 Unusable Fuel Test Procedures For Small Airplanes (1-14-85). (ACE-111).  
Sets forth an acceptable means, but not the only means, of showing compliance with the Federal Aviation Regulations (FAR) for determining unusable fuel supply during certification flight tests.
- ++23.961-1 Procedures for Conducting Fuel System Hot Weather Operation Tests (1/14/87). (ACE-100).  
Provides information and guidance concerning an acceptable means, but not the only means, of showing compliance with Part 3 of the Civil Air Regulations (CAR) and Part 23 of the Federal Aviation Regulations (FAR) applicable to procedures for conducting fuel system hot weather operation tests in small airplanes.
- 23.1011-1 Procedures For Determining Acceptable Fuel/Oil Ratio As Required By FAR 23.1011(b) (11-14-83). (ACE-111).  
Provides an acceptable method of determining that the engine oil capacity is adequate to assure safe operation with the maximum fuel supply available.
- 23.1305-1 Installation of Fuel Flowmeters in Small Airplanes With Continuous-Flow, Fuel-Injection, Reciprocating Engines, (2-21-84). (ACE-111).
- 23.1419-1 Certification of Small Airplanes for Flight in Icing Conditions (9-2-86). (ACE-111).  
Sets forth an acceptable means, but not the only means, of demonstrating compliance with the ice protection requirements in Part 23 of the Federal Aviation Regulations (FAR). The Federal Aviation Administration will consider other methods of demonstrating compliance which an applicant may elect to present.
- 23.1521-1 Approval of Automobile Gasoline (Autogas) in Lieu of Aviation Gasoline (Avgas) in Small Airplanes With Reciprocating Engines (1-25-85). (ACE-111).  
Provides information and guidance concerning an acceptable means, but not the only means, of compliance with Part 3 of the Civil Air Regulations (CAR) and Part 23 of the Federal Aviation Regulations (FAR), applicable to approval procedures covering use of autogas in small airplanes.
- 25-4 Inertial Navigation Systems (INS) (ANM-100).  
Sets forth an acceptable means for complying with rules governing the installation of inertial navigation systems in transport category aircraft.

- 25-5 Installation Approval on Transport Category Airplanes of Cargo Unit Load Devices Approved as Meeting the Criteria in NAS 3610 (6-3-70). (AWS-120).  
Sets forth an acceptable means, but not the sole means, of complying with the requirements of the Federal Aviation Regulations (FAR's) applicable to the installation on transport category airplanes of cargo load devices approved as meeting the criteria in NAS 3610.
- 25-7 Flight Test Guide for Certification of Transport Category Airplanes (4-9-86). (ANM-112).  
Provides guidelines for the flight test evaluation of transport category airplanes. (§5.00 Supt. Docs.) SN 050-007-00739-6.
- 25-8 Auxiliary Fuel System Installations (5-2-86). (ANM-112).  
Sets forth acceptable means, but not the sole means, by which compliance may be shown with auxiliary fuel system installation requirements in accordance with the Federal Aviation Regulations identified within. (§3.00 Supt. Docs.) SN 050-007-00741-8.
- 25-9 Smoke Detection, Penetration, and Evacuation Tests and Related Flight Manual Emergency Procedures (7-29-86). (ANM-112).  
Provides guidelines for the conduct of certification tests relating to smoke detection, penetration, and evacuation and to evaluate related Airplane Flight Manual (AFM) procedures. These guidelines may be used to reduce the degree of subjective judgement needed in conducting tests and evaluating test results. While not mandatory this AC offers a method of demonstrating compliance with the applicable airworthiness requirements.
- ++25-10 Guidance for Installation of Miscellaneous Nonrequired Electrical Equipment (3-6-87). (ANM-110).  
Sets forth a method of compliance with the requirements of Part 25 of the Federal Aviation Regulations pertaining to installations of miscellaneous, nonrequired electrical equipment in transport category airplanes. Provides an example of a method of compliance that has been found acceptable.
- ++25-11 Transport Category Airplane Electronic Display Systems (7-16-87). (ANM-110B).  
Provides guidance for acceptance of cathode ray tube (CRT) based electronic display systems used for guidance, control, or decision-making by the pilots of transport category airplanes.
- 25.253-1A High-Speed Characteristics (12-27-76). (ANM-110A).  
Sets forth an acceptable means, but not the only means, by which compliance may be shown with FAR 25.253 during certification flight tests.
- 25.571-1A Damage-Tolerance and Fatigue Evaluation of Structure (3-5-86). (ANM-110).  
Sets forth an acceptable means of compliance with provisions of Part 25 of the Federal Aviation Regulations dealing with the dealing with the damage-tolerance and fatigue evaluation certification requirements of aircraft structure.
- 25.629-1 Flutter Substantiation of Transport Category Airplanes (1-4-85). (ANM-111).  
Provides guidance material for demonstrating compliance with the provisions of Part 25 of the Federal Aviation Regulations dealing with the design requirements for transport category airplanes to preclude flutter and other aeroelastic phenomena.
- 25.672-1 Active Flight Controls (11-15-83). (ANM-110B).  
Sets forth an equivalent means of complying with the provisions of Part 25 of the Federal Aviation Regulations (FAR) pertaining to the certification requirements of active flight controls. The procedures set forth herein apply to load alleviation systems (LAS), stability augmentation systems (SAS), and flutter suppression systems (FSS). These procedures provide compliance with Part 25 under the equivalent safety provisions of Section 21.21(b)(1) in addition to compliance with the applicable sections of Part 25.
- ++25.783-1 Fuselage Doors, Hatches, and Exits (12-10-86). (ANM-110).  
Sets forth acceptable means of compliance with the provisions of Part 25 of the Federal Aviation Regulations (FAR) dealing with the certification requirements of fuselage doors. Guidance information is provided for showing compliance with structural and functional safety standards for doors and their operating systems. The intent of the requirements and some acceptable means of compliance are discussed. Other means are acceptable if they meet the intent of the regulations. For the purpose of showing compliance with section 25.783 of FAR, hatches and exits are also considered to be doors.
- 25.785-1 Flight Attendant Seat Requirements (12-4-81). (AWS-120).  
Provides information and guidance regarding acceptable means of compliance with FARs 25.785 and 121.311, and explains the approach to be used by the FAA in establishing design criteria for flight attendant seats and galley equipment.
- 25.812-1 Floor Proximity Emergency Escape Path Marking (9/30/85). (ANM-110).  
Provides guidance material for use in demonstrating compliance with the provisions of Part 25 of the FAR requiring floor proximity emergency escape path markings.
- 25.853-1 Flammability Requirements for Aircraft Seat Cushions (9-17-86). (ANM-110).  
Provides guidance material for demonstrating compliance with the Federal Aviation Regulations (FAR) pertaining to flammability of aircraft seat cushions.
- 25.939-1 Evaluating Turbine Engine Operating Characteristics (3/19/86). (ANM-112).  
Provides guidelines for the evaluation of turbine engine (turbojet, turboprop, and turboshaft) operating characteristics for subsonic transport category airplanes.

- 25.981-1A Guidelines for Substantiating Compliance With the Fuel Tank Temperature Requirements (1-20-71). (AWS-110E).**  
Sets forth some general guidelines for substantiating compliance with fuel tank temperature airworthiness standards section 25.981.
- 25.994-1 Design Considerations to Protect Fuel Systems During a Wheel-Up Landing (7-24-86). (ANM-111).**  
Presents guidelines and methods for complying with the requirements of section 25.994 of the Federal Aviation Regulations (FAR). These guidelines pertain to protecting fuel system components located in the engine nacelles and the fuselage from damage which could result in spillage of enough fuel to constitute a fire hazard as a consequence of a wheels-up landing on a paved runway. This material is not mandatory and does not constitute a regulation.
- 25.1309-1 System Design Analysis (9-7-82). (AWS-111).**  
Provides guidance material for acceptable means, but not the only means, of demonstrating compliance with the requirements of Part 25 of the Federal Aviation Regulations which includes probabilistic terms, as introduced by Amendment 25-23, for airplane equipment, systems, and installations.
- 25.1329-1A Automatic Pilot Systems Approval (7-8-88). (ANM-110A).**  
Sets forth an acceptable means by which compliance with the automatic pilot installation requirements of FAR 25.1329 may be shown.
- 25.1455-1 Waste Water/Potable Water Drain System Certification (3-11-85). (ANM-112).**  
Sets forth a specific method of compliance with the requirements of section 25.1455 of the FAR pertaining to draining of fluids through drain masts when the fluids are subject to freezing. This method is designed to verify that draining fluids will not accumulate as ice in sufficient quantity to be hazardous. Is for guidance purposes and to set forth one method of compliance that has been found acceptable.
- 25.1457-1A Cockpit Voice Recorder Installations (11-3-89). (ANM-110A).**  
Sets forth one acceptable means of compliance with provisions of FAR 25.1457 (b), (e), and (f) pertaining to area microphones, cockpit voice recorder location, and erasure features.
- 27-1 Certification of Normal Category Rotorcraft (8/29/85). (ASW-110).**  
Consolidates FAA guidance on the certification of normal category rotorcraft. Serves as a ready reference to manufacturers, modifiers, FAA design evaluation engineers, flight test engineers, and engineering flight test pilots. Covers policy methods of compliance with Part 27 of the FAR which contains airworthiness standards for normal category rotorcraft. It includes methods of compliance in the areas of basic design, ground tests, and flight tests. (010.00 Supt. Docs.) SN 050-007-00708-b.
- +27-1 Chg. 1 (9-16-87).**  
Add 59 new paragraphs previously shown as reserved and revises 6 existing paragraphs.
- 29-1 Approval Basis for Automatic Stabilization Equipment (ASE) Installations in Rotorcraft (12-26-83). (AWS-160).**  
Gives means for compliance with flight requirements in various CAR's.
- 29-1 Chg. 1 (3-26-84).**  
Transmits revised information about the time delay of automatic stabilization equipment.
- +29-2A Certification Of Transportation Category Rotorcraft (9-16-87). (ASW-110).**  
Consolidates FAA guidance on the certification of transport category rotorcraft. In the effort to achieve standardization in rotorcraft certification, serves as a ready reference for manufacturers, modifiers, FAA design evaluation engineers, flight test engineers, and engineering flight test pilots. Provides information on methods of compliance with Part 29 of the Federal Aviation Regulations (FAR) and includes methods of compliance in the areas of basic design, ground tests, and flight tests. (010.00 Supt. Docs.) SN 050-007-00708-b. (price not available).
- 33-1B Turbine-Engine Foreign Object Ingestion and Rotor Blade Containment Type Certification Procedures (4-22-70). (ANE-100).**  
Provides guidance and acceptable means, not the sole means, by which compliance may be shown with the design and construction requirements, of Part 33 of the Federal Aviation Regulations.
- 33-2A Aircraft Engine Type Certification Handbook (6-5-72). (ANE-105).**  
Contains guidance relating to type certification of aircraft engines which will constitute acceptable means, although not the sole means, of compliance with the Federal Aviation Regulations.
- 33-3 Turbine and Compressor Rotors Type Certification Substantiation Procedures (9-9-88). (ANE-100).**  
Sets forth guidance and acceptable means, not the sole means, by which compliance may be shown with the turbine and compressor rotor substantiation requirements in FAR Part 33.
- 33-4 Design Considerations Concerning The Use Of Titanium In Aircraft Turbine Engines (7-28-83). (ANE-110).**  
Provides guidance and acceptable means, not the sole means, by which compliance may be shown with the design requirements of Part 33 to minimize the probability of the occurrence of an internal fire when titanium is used in aircraft turbine engines.
- 33.65-1 Surge and Stall Characteristics of Aircraft Turbine Engines, 12/6/85. (ANE-110).**  
Provides guidance material for acceptable means of demonstrating compliance with the requirements of Part 33 of the Federal Aviation Regulations (FAR) relative to surge and stall characteristics and thrust

- response of turbine engines. These guidelines do not constitute a regulation and are therefore not mandatory.
- 36-1D Certified and International Airplane Noise Levels (11-4-85). (AEE-110).**  
Provides noise level data for airplanes certificated under FAR Part 36 since its publication on November 18, 1969. Noise level data for international airplanes certificated to ICAO Annex 16 standards are also provided for informational purposes.
- 36-2C Measured or Estimated (Uncertificated) Airplane Noise Levels (2-12-86). (AEE-110).**  
Provides estimates of noise levels or measured noise levels from airplanes not certificated to FAR Part 36.
- 36-3D Estimated Airplane Noise Levels in A-Weighted Decibels (3-27-86). (AEE-110).**  
Provides listings of estimated airplane noise levels in units of A-Weighted Sound Level in decibels (dBA), ranked in descending order for the conditions and assumptions described in this advisory circular. This information is provided both for aircraft that have been noise type certificated under FAR Part 36 and for aircraft for which no such requirement currently exists.
- 36-4A Noise Certification Test And Analysis Procedures (1-21-86). (AEE-110).**  
Presents test and analysis procedures that have been determined to be technically acceptable means for demonstrating compliance with FAR Part 36 noise certification requirements for subsonic turbojet aircraft.
- 37-2A Test Procedures for Maximum Allowable Airspeed Indicators (10-22-74). (AUS-130).**  
Provides guidance concerning test procedures which may be used in showing compliance with the standards in FAR 37.145 (TSO-C46a).
- 39-1A Jig Fixtures; Replacement of Wing Attach Angles and Doublers on Douglas Model DC-3 Series Aircraft Airworthiness Directive 66-18-2 (3-5-70). (AFS-340).**  
Describes methods of determining that jig fixtures used in the replacement of the subject attached angles and doublers meet the requirements of Airworthiness Directive 66-18-2.
- 39-6L Announcement of Availability--Summary of Airworthiness Directives (3-14-86). (AVN-113).**  
Provides information concerning how to obtain the latest edition of subject publication.
- +39-7B Airworthiness Directives (4-8-87). (AFS-340).**  
Provides guidance and information to owners and operators of aircraft concerning their responsibility for complying with airworthiness directives (AD's) and recording AD compliance in the appropriate maintenance records.
- 43-2B Minimum Barometry for Calibration and Test of Atmospheric Pressure Instruments (10-16-80). (AFS-343).**  
Provides guidance material which may be used to determine the adequacy of barometers used in the calibration of aircraft static instruments and presents information concerning the general operation, calibration, and maintenance of such barometers.
- 43-3 Nondestructive Testing in Aircraft (5-11-73). (AFS-330).**  
Reviews the basic principles underlying nondestructive testing. (#4.50 Supt. Docs.) SN 5007-00208-4.
- 43-4 Corrosion Control for Aircraft (5-15-73). (AFS-310).**  
Summarizes current available data regarding identification and treatment of corrosive attack on aircraft structure and engine materials.
- 43-4 Chg. 1 (3-1-74).**  
Provides additional information on identification and treatment of corrosion attack on aircraft structures. Adds a new Chapter 14--Corrosion control of Aircraft used in agricultural cropdusting operations.
- 43-4 Chg. 2 (10-8-74).**  
Clarifies the discussion on the removal of corrosion and treatment of corroded areas.
- 43-6A Automatic Pressure Altitude Encoding Systems and Transponders Maintenance and Inspection Practices (11-11-77). (AFS-310).**  
Provides information on the installation encoding altimeters based upon recently acquired operating experience and on the maintenance of ATC transponders.
- 43-7 Ultrasonic Testing for Aircraft (9-24-74). (AFS-310).**  
Describes methods used in ultrasonic nondestructive testing, discusses the many advantages, and points out the simplicity of the tests. Contains many illustrations (#1.75 Supt. Docs.) SN 050-007-00282-3.
- 43-9B Maintenance Records (1-9-84). (AFS-310).**  
Discusses maintenance record requirements under FAR's 43.9, 43.11, and 91.173 and the related responsibilities of owners, operators, and persons performing maintenance, preventive maintenance, and alterations.
- 43-10A Mechanical Work Performed on U.S. and Canadian registered Aircraft (2-25-83). (AFS-310).**  
Provides updated information and guidance to aircraft owners/operators and maintenance personnel concerning mechanical work performed on U.S. registered aircraft by Canadian maintenance personnel and on Canadian registered aircraft by U.S. maintenance personnel.
- 43-11 Reciprocating Engine Overhaul Terminology and Standards (4-7-76). (AFS-310).**  
Discusses engine overhaul terminology and standards that are used by the aviation industry.
- 43-12A Preventive Maintenance (10-28-83).**  
Provides information concerning preventive maintenance, who may perform it, the standards of performance applicable to it, authority for approving aircraft for return to service, and the applicable recording requirements. It also clarifies those areas most frequently misunderstood in the past, and explains the recent changes in the rules concerning preventive maintenance.

- 43-14 Maintenance of Weather Radar Radomes (2-24-77). (AFS-310).**  
Provides guidance material useful to repair facilities in the maintenance of weather radomes.
- 43-15 Recommended Guidelines for Instrument Shops (8-15-77). (AFS-350).**  
Provides guidelines concerning environmental conditions for instrument repair and overhaul shops and information on calibration of test equipment.
- 43-16 General Aviation Airworthiness Alerts. (AVN-110).**  
Issued monthly, the General Aviation Airworthiness Alerts are prepared from information submitted by persons who operate and maintain civil aeronautical products. The alerts provide a uniform means through which service experience may be interchanged, thereby improving the service reliability of aeronautical products. The alerts are sent automatically by FAA to Mechanics with an Inspection Authorization, repair stations, air taxi operators, aviation maintenance technician schools, Designated Parachute Rigger Examiners, Designated Mechanic Examiners, Designated Manufacturing Inspection Representatives, and Designated Engineering Representatives. Therefore, these persons need not request inclusion on the AC 43 mailing list. Alerts distributed by the AC 43 mailing list are limited to one copy each.  
Back issues of the alerts are not in stock but may be requested for the previous one year period at a charge of \$1.00 each from: U.S. Department of Transportation, Federal Aviation Administration, Flight Standards National Field Office, AVN-110, P.O. Box 26460, Oklahoma City, Oklahoma 73125. Make check or money order payable to Treasurer of the United States.
- 43-17 Methods, Techniques, and Practices Acceptable to the Administrator Governing the Installation, Removal, or Changes of Identification Data and Identification Plates (9-5-79) (AFS-340).**  
Provides information and guidance concerning the installation, removal, or change of identification data and identification plates on aircraft, aircraft engines, propellers, and propeller blades and hubs.
- 43-18 Instructions for Completion of FAA Form 337 (OMB No. 2120-0020), Major Repair and Alteration (Airframe, Powerplant, Propeller, or Appliance) (5-21-87). (AFS-340).**  
Provides instructions for completing FAA Form 337, Major Repair and Alteration (Airframe, Powerplant, Propeller, or Appliance).
- 43-19-1A Acceptable Methods, Techniques and Practices--Aircraft Inspection and Repair (4-17-72). (AVN-110).**  
Contains methods, techniques, and practices acceptable to the Administrator for inspection and repair to civil aircraft. Published in 1973. (Consolidated reprint incorporates Changes 1 and 2.) (\$8.00--Supt. Docs.) SN D50-007-00461-3.
- 43-19-2A Acceptable Methods, Techniques, and Practices--Aircraft Alterations (6-9-77). (Includes Chg. 1). (AFS-340).**  
Contains methods, techniques, and practices acceptable to the Administrator for use in altering civil aircraft. (\$5.50 Supt. Docs.) SN D50-007-00625-0.
- 43-2038 Altimeter and Static System Tests and Inspections (6-20-79). (AFS-350).**  
Contains acceptable methods for testing altimeters and static systems. Also provides general information concerning the test equipment used and precautions to be taken when performing such tests.
- 45-2 Identification and Registration Marking (7-7-72). (AWS-200).**  
Provides guidance and information concerning the identification and marking requirements of Federal Aviation Regulations (FAR) Parts 21 and 45, and where considered helpful, to provide an acceptable means, but not the sole means, of compliance with the regulations.
- 45-3 Installation, Removal, or Change of Identification Data and Identification Plates on Aircraft Engines, (11/6/85). (AUS-206).**  
Provides information and guidance concerning the installation, removal, or change of identification data and identification plates on aircraft engines, and identifies an acceptable means, but not the only means, of compliance with FAR Part 45.

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- 60-4A Pilot's Spatial Disorientation (2-9-83). (AFS-5).**  
Acquaints pilots with the hazards of disorientation caused by loss of visual reference with the surface.
- 60-6B Airplane Flight Manuals (AFM), Approved Manual Materials, Markings, and Placards--Airplanes (9-25-80). (AFS-5).**  
Calls attention to the regulatory requirements relating to the subject and provides information to aid pilots to comply with these requirements.
- 60-11A Aids Authorized for Use by Airman Written Test Applicants (12-14-79). (AFS-5).**  
Clarifies FAA policy concerning aids that applicants may use when taking airman written tests.
- 60-12 Availability of Industry-Developed Guidelines for the Conduct of the Biennial Flight Review (2-11-76). (AFS-5).**  
Informs all FAA certificated flight instructors of the availability of, and how to obtain, the industry-developed guidelines for the conduct of the Biennial Flight Review.
- 60-13 The Accident Prevention Counselor Program (4-27-76). (AFS-5).**  
Provides information to acquaint the general aviation community with the accident prevention counselor program and outlines the ways the accident prevention counselor force enhances aviation safety.



**6D-14 Aviation Instructor's Handbook (7-7-76).**  
(AFS-820).

Provides the aviation instructor with comprehensive, accurate, and easily understood information on learning and teaching and to relate this information to students. Cancels AC 61-16A. (\$6.00 Supt. Docs.) SN 050-011-00072-1.

**6D-17A New Airmen Written Test System**  
(12-29-83). (AVN-132).

Announces the implementation of a new system for administering FAA written tests to pilot, aviation mechanic, flight instructor, ground instructor, flight engineer, flight navigator, and aircraft dispatcher applicants.

**61-9B Pilot Transition Courses for Complex Single Engine and Light, Twin-Engine Airplanes (1-15-74).** (AVN-112).

A guide to the procedures and standards to be followed for a thorough and comprehensive checkout in modern single- and twin-engine aircraft. (\$2.00 Supt. Docs.) SN 050-007-00226-2.

**61-10A Private and Commercial Pilots Refresher Courses (9-27-72).** (AVN-112).

Provides a syllabus of study requirements and describes the areas of training that should be emphasized. (\$3.75 Supt. Docs.) SN 050-011-00060-7.

**61-12J Student Pilot Guide (Revised 1979).**  
AVN-112).

Provides guidance for student pilots and those already in primary flight training. (\$4.25 Supt. Docs.) SN 050-007-00476-1.

**61-13B Basic Helicopter Handbook (Revised 1978).** (AVN-110).

Provides detailed information to applicants preparing for private, commercial, and flight instructor pilot certificates with a helicopter rating; includes helicopter aerodynamics, performance, and flight maneuvers. It will also be useful to certificated helicopter flight instructors as an aid in training students. (\$5.50 Supt. Docs.) SN 050-011-00074-7.

**61-21A Flight Training Handbook (Revised 1980), (with Errata Sheet).** (AFS-824).

Provides information and direction in the introduction and performance of training maneuvers for student pilots, pilots requalifying or preparing for additional ratings, and flight instructors. (\$9.00 Supt. Docs.) SN 050-007-00504-1.

**61-23B Pilot's Handbook of Aeronautical Knowledge (4-3-79).** (AVN-100).

Contains essential, information used in training and guiding applicants for pilot certification, flight instructors, and flying school staffs. (\$10.00 Supt. Docs.) SN 050-011-00077-7.

**61-27C Instrument Flying Handbook (11-5-79).**  
(AVN-100).

Provides the pilot with basic information needed to acquire an FAA instrument rating. It is designed for the reader who holds at least a private pilot certificate and is knowledgeable in all areas covered in the

"Pilot's Handbook of Aeronautical Knowledge", AC 61-23B. (\$8.50 Supt. Docs.) SN 050-007-00585-7.

**61-47A Use of Approach Slope Indicators for Pilot Training (3-26-79).** (AFS-840).

Informs pilot schools, flight instructors and student pilots of the recommendation of the Federal Aviation Administration on the use of approach slope indicator systems for pilot training.

**61-57A Type Rating, Airplane, Flight Test Guide (5-1-75).** (AVN-132).

Contains information and guidance concerning the pilot operations, procedures, and maneuvers relevant to the flight test required for an Airplane Type Rating. (\$4.25 Supt. Docs.) SN 050-007-00295-8.

**61-58A Flight Instructor Practical Test Guide (Revised 1978).** (AVN-110).

Assists instructor applicants in preparing for the Flight Instructor Practical Test. (\$3.50 Supt. Docs.) SN 050-011-00076-3.

**61-65B Certification: Pilot and Flight Instructors (8-6-84).** (AFS-840).

Provides information on standards and procedures that may be applied to satisfy the certification and currency requirements of Part 61. The advisory circular is intended as general information and guidance for pilots and flight instructors.

**61-66 Annual Pilot in Command Proficiency Checks (11-2-73).** (AFS-840).

Presents material relating to annual proficiency checks required for pilots-in-command of civil aircraft type certificated for more than one required pilot crewmember, other than those operating under Parts 121, 123, 127, 133, 135, and 137.

**61-67A Hazards Associated with Spins in Airplanes Prohibited from Intentional Spinning (10-8-82).** (AFS-840).

Informs pilots of the airworthiness standards for the type certification of small airplanes prescribed in FAR 23.221 concerning spin maneuvers. Emphasizes the importance of observing restrictions which prohibit the intentional spinning of certain airplanes. Recommends specific flight operations procedures to reduce the probability of entering an inadvertent spin during the performance of stall entries and recoveries.

**61-77 Airline Transport Pilot Airplane Practical Test Guide (Part 61 Revised) (4-23-74).** (AVN-12).

Designed to assist the applicant and his instructor in preparing for the Airline Transport Pilot Certificate with an Airplane Rating under FAR Part 61 (revised). (\$4.25 Supt. Docs.) SN 050-007-00257-2.

**61-82 Airline Transport Pilot--Helicopter--  
Flight Test Guide (8-25-76). (AVN-132).**

Describes procedures and maneuvers relevant to the ATP Certificate-- Helicopter--that is limited to VFR and that which is not limited to VFR. Includes a suggested flight test checklist. (\$2.50 Supt. Docs.) SN 050-007-00358-7.

**61-83B Nationally Scheduled (FAA) Approved,  
Industry-Conducted Flight Instructor  
Refresher Clinics (7-6-84). (AFS-840).**

Provides guidance on the preparation and approval of a training course outlined (TCO) for an industry-conducted Flight Instructor Refresher Clinic (FIRC) and sets forth guidelines to assist qualified sponsors/ organizations in obtaining approval for the use of a designated Airman Certification Representative (ACR) employed solely by the FIRC sponsor.

**61-84B Role of Preflight Preparation  
(3-18-85). (AFS-840).**

Modifies and updates the flight information available to pilots as a result of changes in the basic Airmen Information Manual format.

**++61-89B Pilot Certificates: Aircraft Type  
Ratings (3-4-87). (AFS-840).**

Provides pilot certificate designations adopted by the FAA for aircraft type ratings. It incorporates all revisions to previous listings, including new designations for aircraft type certificated as of March 1, 1987.

**61-91E Pilot Proficiency Award Program  
(7-20-87). (AFS-810).**

Describes the FAA's Pilot Proficiency Award Program and outlines the eligibility requirements to qualify for Phase I through Phase VI awards.

**61-92 Use of Distractions During Pilot  
Certification Flight Tests (1-25-80).  
(AFS-5).**

Announces the FAA's policy of incorporating into all flight tests the use of certain distractions during the performance of flight test maneuvers.

**61-94 Pilot Transition Course For Self-  
Launching Or Powered Sailplanes  
(Motorgliders) (7-31-84). (AFS-840).**

Provides recommendations, but is not the only means, that may be used by glider pilots who desire to transition into sailplanes or gliders with self-launching capability.

**61-95 Announcement of Availability:**

**FAA-S-8081, Private Pilot Practical Test Standards (8-22-84). (AVN-131).**

Announces the availability of the new Private Pilot Practical Test Standards from the Superintendent of Documents.

**61-96 Announcement of Availability:**

**FAA-S-8081-2, Commercial Pilot Practical Test Standards, (7/22/85). (AVN-131).**

Announces the availability of the new Commercial Pilot Practical Test Standards from the Superintendent of Documents.

**++61-97 Announcement of Availability:**

**FAA-S-8081-4, Instrument Rating Practical Test Standards (10-30-86). (AVN-130).**

Announces the availability of the new Instrument Rating Practical Test Standards.

**++61-98 Scope and Content of Biennial Flight  
Reviews (9-1-87). (AFS-840).**

Provides information for certificated flight instructors (CFI) to use in determining the scope and content of the flight review required by FAR Section 61.57(a).

**65-2D Airframe and Powerplant Mechanics  
Certification Guide (1-30-76). (AFS-340).**

Provides information to prospective airframe and powerplant mechanics and other persons interested in FAA certification of aviation mechanics. (\$5.00 Supt. Docs.) SN 050-007-00331-5.

**65-5A Parachute Rigger--Senior/Master--  
-Certification Guide (12-20-74). (AFS-340).**

Provides information on how to apply for a parachute rigger certificate or rating and assists the applicant in preparing for the written, oral, and practical tests. (\$1.75 Supt. Docs.) SN 050-007-00287-4.

**65-9A Airframe and Powerplant Mechanics--  
General Handbook (4-12-76). (AFS-340).**

Designed as a study manual for persons preparing for a mechanic certificate with airframe or powerplant ratings. Emphasis in this volume is on theory and methods of application, and is intended to provide basic information on principles, fundamentals, and airframe and powerplant ratings. (\$18.00 Supt. Docs.) SN 050-007-00379-0.

**++65-11B Airframe and Powerplant Mechanics  
Certification Information (4-17-87).  
(AFS-340).**

Assists applicants on the most frequently asked questions relating to the certification requirements for the airframe and powerplant mechanics tests. (\$1.00 Supt. Docs.) SN 050-007-00750-7.

**65-12A Airframe and Powerplant Mechanics  
Powerplant Handbook (4-12-76). (AFS-340)**

Designed to familiarize student mechanics with the construction, theory of operation and maintenance of aircraft powerplants. (\$12.00 Supt. Docs.) SN 050-007-00373-3.

**++65-13J FAA Inspection Authorization  
Directory (6-17-87). (AVN-130).**

Transmits a revised directory of a certificated mechanics who held an inspection authorization as of May (8... Supt. Docs.) SN 050-007-00...

**65-15A Airframe and Powerplant Mechan  
Airframe Handbook (4-12-76). (AFS-**

Designed to familiarize student mechanics with airframe construction, repair and operating theory of airframe systems. (\$13.00 Supt. Docs.) SN 050-007-00...

**++65-17C Inspection Authorization  
(Revised May 1987). (AVN-133).**

Provides guidance for persons annual and progressive inspection to approve major repairs and/or alterations of aircraft. The primary intended for mechanics who are preparing to take the inspection authorization. (8... Supt. Docs.) SN 050-007-00...-...

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- ++b5-23A Certification of Repairmen (Experimental Aircraft Builders) (7-22-87). (AFS-340).**  
Provides guidance to builders of experimental aircraft concerning certification as repairmen
- b5-24 Certification Of A Repairman (General) (2-1-83). (AFS-310).**  
Provides information and guidance to the aviation public on the procedures for certification of a repairman.
- b7-1 Medical Information for Air Ambulance Operators (3-4-74). (AAM-620).**  
Provides persons or groups interested or involved in civil air ambulance activities with information governing the transport of patients by air.
- b7-2 Medical Handbook for Pilots (5-15-74). (AAM-620).**  
An aviation medicine handbook written in pilots language that provides guidance on when, and when not, to fly. Emphasizes the fact that, to be a good pilot, you must be physically fit, psychologically sound, and well trained. Designed to complement the Pilots Handbook of Aeronautical Knowledge. (85.00 Supt. Docs.) SN 050-007-00254-8.

**Airspace**

**Subject No. 70**

- 70-2D Airspace Utilization Considerations in the Proposed Construction, Alteration, Activation and Deactivation of Airports (8-1-79). (AT0-240).**  
Advises persons proposing to construct, activate, or deactivate a civil or joint-use (civil/military) airport of the requirement to notify the Federal Aviation Administration of their plans.
- 74b0-1G Obstruction Marking and Lighting (10/22/85). (AT0-210).**  
Describes FAA's standards for marking and lighting of obstructions as identified by FAR Part 77.
- 74b0-2H Proposed Construction or Alteration of Objects that may Affect the Navigable Airspace (11-15-85). (AT0-210).**  
Informs those individuals proposing to erect or alter an object which may affect the navigable airspace regarding the need to notify the Federal Aviation Administration prior to such construction.
- 74b0-3I VFR Helicopter Operations in the Northeast Corridor (6-11-79). (ATF-4).**  
Advises interested users of special Area Navigation (RNAV) helicopter routes between Washington, D.C., and Boston, Massachusetts, known as the "Northeast Corridor" and provides guidelines to operators for the use of these routes. The use of these routes is voluntary.

**Traffic Control and General Operations**

**Subject No. 90**

- 70-2E Coordination of Air Traffic Control Procedures and Criteria (6-13-63). (AT0-210).**  
Describes Air Traffic Service policy

- respecting coordination of air traffic procedures and criteria with outside agencies and/or organizations.
- 90-23B Aircraft Wake Turbulence (12-15-72). (AFS-210).**  
Alerts pilots to the hazards of aircraft trailing vortex wake turbulence and recommends related operational procedures.
- 90-34 Accidents Resulting from Wheelbarrowing In Tricycle Gear Equipped Aircraft (2-27-88). (AFS-825).**  
Explains "wheelbarrowing", the circumstances under which it is likely to occur, and recommended corrective action.
- 90-42D Traffic Advisory Practices at Nontower Airports (4-15-85). (AT0-230).**  
This circular contains good operating practices and procedures for use when approaching or departing airports that do not have a tower in operation.
- 90-43F Operations Reservations for High-Density Traffic Airports (HDTA's) (4-22-85). (AT0-230).**  
Provides information for obtaining instrument and visual flight rules (IFR/VFR) reservations at the High Density Traffic Airports (HDTA). For reservation purposes, user groups are classified as air carrier, commuters, and others.
- 90-45A Approval of Area Navigation Systems for Use in the U.S. National Airspace System (2-21-75). (AFS-210).**  
Provides guidelines for implementation of two-dimensional area navigation (2D RNAV) within the U.S. National Airspace System (NAS). Provides for both VOR/DME dependent systems and self-contained systems such as Inertial Navigation Systems (INS). (Consolidated Reprint includes change 1 and 2).
- 90-48C Pilots' Role in Collision Avoidance (3-18-83). (AFS-820).**  
Alerts all pilots to the potential hazards of midair collision and near midair collision, and to emphasize those basic problem areas related to the human causal factors where improvements in pilot education, operating practices, procedures, and improved scanning techniques are needed to reduce midair conflicts.
- 90-50C VHF Radiofrequency Assignment Plan for Aeronautical Operations (3-10-86). (AES-500).**  
Reflects the current frequency planning and channeling for the 118 MHz to 136 MHz Aeronautical Mobile Band. The revisions and changes to this AC are required by the 1984 Agency Notice of Policy Decision on Expanding the Use of 25 KHz Channeling in the 118 MHz to 136 MHz Band. This notice was published in May 16, 1984, issue of the Federal Register.
- 90-58C VOR Course Errors Resulting from 50 kHz channel Mis-Selection (4-7-75). (AFS-310).**  
Provides information concerning a potentially hazardous situation when a 200 channel VOR receiver is inadvertently mistuned by 50 kHz from the frequency of a 100 kHz ground station.

**90-65A Air Traffic Fuel Economy Program (8-21-80). (ATO-370).**

Advises the aviation community of an expansion of an air traffic service program used to conserve aviation fuel. FAD procedures include O'Hare Airport and Denver Stapleton Airport. Offers the operator/pilot the option to delay his departure until the air traffic control system can absorb the flight with no more than approximately 30 minutes arrival holding delay at destination.

**90-66 Recommended Standard Traffic Patterns for Airplane Operations at Uncontrolled Airports (2-27-75). (AAT-10).**

Calls attention to regulatory requirements for the operations of airplanes at uncontrolled airports. Recommends voluntary use of standard traffic pattern flight procedures.

**90-67A Light Signals from the Control Tower for Ground Vehicles, Equipment, and Personnel (6-25-81). (ATO-320).**

Provides the aviation community with the meaning of the light signals used when communicating with ground vehicles, equipment, and personnel on the airport movement area from the control tower.

**90-72A Minimum Safe Altitude Warning (MSAW) (1-31-78). (ATO-320).**

Describes the capabilities and limitations of the MSAW function implemented at terminal facilities equipped with ARTS III.

**90-75 Strobe Light System Inspection Practices (2-10-77). (AFS-310).**

Advises the general aviation community of the importance of proper maintenance of capacitive discharge strobe light systems which are installed within or near fuel systems.

**90-76A Flight Operations in Oceanic Airspace (9-18-84). (ATO-331).**

Outlines the basic procedures to flight proposed into oceanic airspace under U.S. air traffic control jurisdiction.

**90-78 En Route Conflict Alert (CA) (4-27-78). (ATO-320).**

Describes the capabilities and limitations of the Conflict Alert Function that is operational in the En Route NAS Stage A program.

**90-79 Recommended Practices and Procedures for the Use of Electronic Long-Range Navigation Equipment (7-14-80). (AFS-210).**

Presents recommended operational practices and procedures for the use of electronic long-range navigation equipment in oceanic or remote land areas.

**90-80 Approval of Airborne Radar Approach (ARA) Procedures For Helicopters to Offshore Platforms (5-18-81). (AVN-100).**

Provides an acceptable means for obtaining approval of airborne radar approach procedures to offshore platforms.

**90-81 Procedures for Obtaining Publications-- Civil Non-FAA Operated Control Towers (11-9-83). (AAT-10).**

Advise operators of civil non-FAA airport traffic control towers how to obtain

recommended government publications to support their air traffic control operation.

**90-82 Random Area Navigation Routes (10-28-83). (ATO-330).**

Provides notification to all users equipped with area navigation/RNAV avionics with latitude/longitude coordinate navigation capability of a new random route service within the conterminous United States.

**90-83 Terminal Control Areas(TCA) (12-19-83). (ATO-320).**

Explains the Terminal Control Areas (TCA) and answers some of the most frequently asked questions pertaining to TCA's. This circular is designed to assist persons in complying with the requirements of Part 91 pertaining to TCA's.

**90-84 Announcement of Availability: North Pacific (NOPAC) Operations Manual, Second Edition (11-21-84). (ATO-331).**

Announces availability of the Second Edition of subject manual.

**90-85 Severe Weather Avoidance Plan (SWAP) (4-1-85). (ATO-410).**

Issued to provide users of the air traffic system with background and pertinent information relating to the Severe Weather Avoidance Plan (SWAP).

**90-86 Announcement of Availability: North Atlantic MNPS Airspace Operations Manual, Fourth Edition (7-19-85). (AFS-220).**

Announces the availability of the Fourth Edition of the North Atlantic MNPS Airspace Operations Manual. This manual provides guidance material for flight planning organizations and flightcrews involved in operating in the North Atlantic MNPS airspace. The AC states to obtain copies of the manual, write to U.S. Department of Transportation, M-494.3, Washington, D.C. 20590, and to include a self-addressed mailing label to expedite a request.

**90-87 Helicopter Dynamic Rollover, (1-27-86). (AFS-840).**

Familiarizes the helicopter pilot/instructor and pilot school personnel with the hazards, causes, and preventive measures associated with dynamic rollover in helicopters.

**90-88 Airport Radar Service Area (ARSA) (6-23-86). (ATO-320).**

Explains the Airport Radar Service Area (ARSA), and is designed to assist aviators in complying with the requirements of Federal Aviation Regulations which pertains to ARSA.

**91-5C Waivers of Subpart B, Part 91 of the Federal Aviation Regulations (FARs) (12-21-82). (ATO-220).**

Provides information concerning the submission of applications for and the issuance of waivers of Subpart B, FAR Part 91.

**91-6A Water, Slush, and Snow on the Runway (5-24-78). (AFS-5).**

Provides background and guidelines concerning the operation of turbojet aircraft with water, slush, and/or snow on the runway.

- 91-88 Use of Oxygen by Aviation Pilots/Passengers (4-7-82).** (AFS-5).  
Provides aviation personnel with information concerning the effects of atmospheric changes on the body and the use of oxygen.
- 91-13C Cold Weather Operation of Aircraft (7-24-79).** (AFS-806).  
Provides background and guidelines relating to operation of aircraft in the colder climates where wide temperature changes may occur.
- 91-14D Altimeter Setting Sources (4-9-79).** (AFS-340).  
Provides the aviation public and industry with guidelines for setting up reliable altimeter setting sources.
- 91-16 Category II Operations--General Aviation Airplanes (8-7-67).** (AFS-200).  
Sets forth acceptable means by which Category II operations may be approved in accordance with FAR Parts 23, 25, 61, 91, 97, and 135.
- 91-22A Altitude Alerting Devices/Systems (12-23-71).** (AFS-210).  
Provides guidelines for designing, installing, and evaluating altitude alerting systems.
- 91-23A Pilot's Weight and Balance Handbook (6-9-77).** (AVN-132).  
Provides an easily understood text on aircraft weight and balance for pilots who need to appreciate the importance of weight and balance control for safety of flight. Progresses from an explanation of basic fundamentals to the complete application of weight and balance principles in large aircraft operations. (\$5.00 Supt. Docs.) SN 050-007-00405-2.
- 91-26 Maintenance and Handling of Air-Driven Gyroscopic Instruments (10-29-69).** (AFS-310).  
Advises operators of general aviation aircraft of the need for proper maintenance of air-driven gyroscopic instruments and associated air filters.
- 91-32A Safety In and Around Helicopters (6-21-79).** (AFS-824).  
Provides suggestions to improve helicopter safety by means of acquainting flight and nonflight crew personnel and passengers with the precautions and procedures necessary to avoid undue hazards.
- 91-33A Use of Alternate Grades of Aviation Gasoline for Grade 80/87 and Use of Automotive Gasoline (7-18-84).** (ANE-110).  
Provides information relating to the use of alternate grades of gasoline when grade 80/87 aviation is not available and the resultant effects of the use of the alternate fuels which have higher TEL (tetraethyl lead) content. Suggestions are offered as acceptable means of avoiding engine operating difficulties when using alternate fuels. This circular also provides suggestions for added safety in the use of automotive gasoline in those aircraft engines and aircraft covered by Supplemental Type Certificates (STCs).
- 91-35 Noise, Hearing Damage, and Fatigue in General Aviation Pilots (3-28-72).** (AAM-620).  
Acquaints pilots with the hazards of regular exposure to cockpit noise. Especially pertinent are piston-engine, fixed-wing, and rotary-wing aircraft.
- 91-36C VFR Flight Near Noise-Sensitive Areas (10-19-84).** (AT0-238).  
Encourages pilots making VFR flights near noise-sensitive areas to fly at altitudes higher than the minimum permitted by regulation and on flight paths which will reduce aircraft noise in such area.
- 91-37A Truth in Leasing (1-16-78).** (AFS-820).  
Provides information and guidance for leasees and conditional buyers of U.S. registered large civil aircraft. If you are planning to charter an airplane take a moment to learn about chartered and leased aircraft.
- 91-38A Large and Turbine-Powered Multiengine Airplanes, Part 91, Subpart D (11-27-78).** (AFS-200).  
Sets forth guidelines and procedures to assist operators of large and turbine-powered multiengine airplanes in meeting the safety requirements of FAR, Part 91, Subpart D.
- 91-42D Hazards of Rotating Propeller and Helicopter Rotor Blades (3-3-83).** (AFS-310).  
Updates statistical information on propeller- and rotor-to-person accidents and offers suggestions to reduce the frequency of such accidents.
- 91-43 Unreliable Airspeed Indications (6-26-75).** (AFS-223).  
Alerts pilots to the possibility of erroneous airspeed/Mach indications that may be caused by blocking or freezing of the pitot system and advises of corrective action that can be taken.
- 91-44A Operational and Maintenance Practices for Emergency Locator Transmitters and Receivers (12-12-80).** (AVN-100/AUS-130).  
Combines and updates material in several Advisory Circulars on the subject of emergency locator transmitters (ELT) and receivers for airborne service.
- 91-45B Waivers--Airshow/Contests/Races (8-5-81).** (AFS-820).  
Provides prospective airshow sponsors with the information necessary to plan for and conduct safe, effective airshows. It is also intended to provide information pertaining to the procedures and requirements for issuance of airshow waivers.

- 91-46 Gyroscopic Instruments--Good Operating Practices (2-4-77). (AFS-804/820).**  
Issued to re-emphasize to general aviation instrument-rated pilots the need to determine the proper operation of gyroscopic instruments, the importance of instrument cross-checks and proficiency in partial-panel operations.
- 91-47 Use of Portable Electronic Devices--Radio Receivers (3-23-77). (AFS-310).**  
Intended to remind air carrier or commercial operators of the requirements of FAR 91.17 as they apply to pocket size radio receivers capable of reception in the 110-140 MHz band.
- 91-48 Acrobatics--Precision Flying With a Purpose (6-29-77). (AFS-820).**  
Provides information to persons who are interested in acrobatic flying to improve their piloting skills as recreation, sport, or as a competitive activity.
- 91-49 General Aviation Procedures for Flight in North Atlantic Minimum Navigation Performance Specifications Airspace (8-23-77). (AFS-824).**  
Sets forth acceptable means, but not the only means, of obtaining authorization to operate within specified airspace over the North Atlantic, designated as the NAT (North Atlantic) MNPS (Minimum Navigation Performance Specifications) airspace, after 0001 Greenwich Mean Time, Dec. 29, 1977. This requirement applies to persons operating under FAR Part 91 and for FAR Part 135 certificate holders, except those operating under Section 135.2.
- 91-49 Chg. 1 (2-6-78).**
- 91-50 Importance of Transponder Operation and Altitude Reporting (8-24-77). (AFS-310).**  
Provides information and guidance concerning the importance of transponder operation and altitude reporting in the National Airspace System.
- 91-51 Airplane Deice and Anti-Ice Systems (9-15-77). (AFS-806).**  
Provides information to pilots regarding ice protection system approval and the results of in-flight icing.
- 91-53 Noise Abatement Departure Profile (10-17-78). (AFS-223).**  
Provides a technical analysis and description of a generally effective standardized noise abatement departure profile that is consistent with the Federal Aviation Administration's safety responsibilities. It describes safe standard noise abatement departure profiles for turbojet-powered airplanes with a maximum certificated takeoff weight over 75,000 pounds, consistent with Federal Aviation Regulation (FAR) section 91.87; and Aviation Noise Abatement Policy, dated November 18, 1976. The profiles contained in this circular should be considered for inclusion in all air carrier training and flight operations manuals as well as in airport noise abatement plans.
- 91-54 Automatic Reporting Systems--Altimeter Setting and Other Operational Data (2-26-78). (AFS-820).**  
Provides guidelines for the development and installation of automatic reporting systems for altimeter setting and other operational data intended for use in connection with IFR operations.
- 91-55 Reduction of Electrical System Failures Following Aircraft Engine Starting (10-28-80). (AFS-310).**  
Warns general aviation aircraft owner/pilots and maintenance personnel of possible total electrical system failure following aircraft engine starting.
- 91-56 Supplemental Structural Inspection Program For Large Transport Category Airplanes (5-6-81). (AFS-310).**  
Provides guidance to manufacturers and operators for use in developing a continuing structural integrity program. The procedures set forth by this AC are applicable to the large transport category airplanes operated under Subpart D of Part 91 and FAR 121, 123, 125, and 135.
- 91-56 Chg. 1 (12-4-81).**
- 91-56 Chg. 2 (4-15-83).**
- 91-57 Model Aircraft Operating Standards (6-9-81). (ATO-220).**  
Outlines, and encourages voluntary compliance with, safety standards for model aircraft operators.
- 91-58 Use of Pyrotechnic Visual Distress Signaling Devices in Aviation (5-27-82). (AFS-820).**  
Suggests standards and procedures for the acquisition, use, and storage of pyrotechnic visual distress signaling devices that are intended for use in aircraft emergencies.
- 91-59 Inspection and Care of General Aviation Aircraft Exhaust Systems (8-20-82). (AFS-340).**  
Emphasizes the safety hazards of poorly maintained single-engine aircraft exhaust systems (reciprocating powerplants) and highlights points at which exhaust system failures occur. Further, it provides information on the kind of problems to be expected and recommends the performance of ongoing preventive maintenance and maintenance by pilots and mechanics, respectively.
- 91-60 The Continued Airworthiness of Older Airplanes (6-13-83). (AFS-310).**  
Provides information and recommendations to manufacturers and airplane owners/operators for the development and use of programs to assure the continued airworthiness of older airplanes not covered under AC 91-56, Supplemental Structural Inspection Program for Large Transport Category Airplanes.

- 91-61 A Hazard in Aerobatics: Effects on G-Forces of Pilots (2-28-84).** (AFS-800/AAM-500).  
Provides background information on G-forces, their effect on the human body and their role in safe flying, and offers suggestions for avoiding problems caused by acceleration encountered in aerobatic maneuvers.
- 91-62 Use of Child/Infant Seats In Aircraft (2-26-85).** (AWS-120).  
Provides information to assist the public in the proper use of child/infant seats aboard aircraft and provides precautions so all passengers are able to evacuate aircraft rapidly during emergencies.
- 91-63 Temporary Flight Restrictions (TFR) (4-15-85).** (ATO-230).  
Is a result of an amendment to Section 91.91, Temporary Flight Restrictions (TFR), of the Federal Aviation Regulations which became effective June 6, 1985.
- 91-65 Use of Shoulder Harness In Passenger Seats (8-4-86)** (AFS-820).  
Provides guidance and information to pilots, passengers, and maintenance personnel regarding the crash survivability aspects of small aircraft equipped with shoulder harnesses and the hazards of modifying seats, adding appendages to seats, and storage of articles, beneath the seats. Recommends inspection and maintenance of seats, lap belts and shoulder harnesses to enhance their effectiveness for crash survivability.
- 91-66 Noise Abatement for Helicopters (6-4-87).** (AFS-840).  
Presents guidelines intended to assist pilots, operators, managers, and other interested persons in the establishment of effective noise reduction procedures when operating helicopters.
- 91.11-1 Guide to Drug Hazards in Aviation Medicine (7-19-83).** (AAM-620).  
Lists all commonly used drugs by pharmacological effect on airmen with side effects and recommendations. (\$5.50 Supt. Docs.) SN 050-009-00001-7.
- 91.63-1B Canceling or Closing Flight Plans (6-24-82).** (ATO-36D).  
Explains FAA procedures for handling flight plans and emphasizes the need for cancelling or closing flight plans.
- 97-1A Runway Visual Range (RVR) (9-28-77).** (AFS-224).  
Describes RVR measuring equipment and its operating use.
- 99-1B Security Control of Air Traffic (8-2-85).** (ATO-33D).  
Provides civil aviation with recommended practices for operating aircraft within air defense identification zone or when penetrating an air defense identification zone. Also provides information on actions to be taken by airmen when operating an aircraft during air defense emergency/defense emergency or prior to these declarations when area/regional emergency security control of air traffic procedures are implemented.
- 101-1A Waivers of Part 101, Federal Aviation Regulations (6-3-81).** (ATO-223).  
Provides information on submission of applications and issuances of waivers to FAR Part 101.
- 103-4 Hazard Associated with Sublimation of Solid Carbon Dioxide (Dry Ice) Aboard Aircraft (5-1-74).** (AAM-620).  
Discusses the potential hazard associated with the sublimation of dry ice aboard aircraft. Precautionary measures and simple rules of thumb are indicated in order to preclude environmentally hazardous conditions affecting crews and passengers aboard aircraft.
- 103-6 Ultralight Vehicle Operations--Airports, ATC, and Weather (6-23-83).** (ATO-230).  
Provides guidance for the operation of ultralight vehicles in the U.S. Information includes airport and flight park operations, how to work with ATC, and the availability of weather services.
- 103-7 The Ultralight Vehicle (1-30-84).** (AFS-820).  
Provides guidance to the operators of ultralights in the United States. It discusses the elements which make up the definition of ultralight vehicles for the purposes of operating under Federal Aviation Regulation (FAR) Part 103. It also discusses when an ultralight must be operated as an aircraft under the regulations applicable to certificated aircraft.
- 105-2A Sport Parachute Jumping (4-11-79).** (AFS-820).  
Provides suggestions to improve sport parachuting safety; information to assist parachutists in complying with FAR Part 105; and a list of aircraft which may be operated with one cabin door removed, including the procedures for obtaining FAA authorization for door removal.
- 107-1 Aviation Security--Airports (5-19-72).** (ACS-100).  
Furnishes guidance to those individuals and organizations having responsibilities under Part 107 of the Federal Aviation Regulations. It also provides recommendations for establishing and improving security for restricted or critical facilities and areas the security of which is not dealt with in Part 107.
- 108-1 Air Carrier Security (10-16-81).** (ACS-3).  
Provides information and guidance for implementation of new FAR 108, Airplane Operator Security. (\$3.75 Supt. Docs.) SN 050-007-00642-0.
- 108-2 Security Rules--Carriage of Weapons and Escorted Persons (10-16-81).** (ACS-3).  
Provides information and guidance for implementation of FARs 108.11 and 108.21 concerning the carriage of weapons and passengers under the control of armed law enforcement escorts.

- 108-3 Screening of Persons Carrying U.S. Classified Material (11-6-81). (ACS-100).**  
Provides instructions for the screening of passengers carrying classified material in order to maintain the integrity of the screening process and prevent the compromise of classified material.
- 109-1 Aviation Security--Acceptance and Handling Procedures Indirect Air Carrier Security (3-3-82). (ACS-100)**  
Provides information and guidance which should be used by "indirect air carriers" when accepting and handling property to be carried by "air carriers" or by the operator of any civil aircraft for transportation in air commerce. (#2.25 Supt. Docs.) SN 050-007-00b43-8.

**AIR CARRIER AND COMMERCIAL OPERATORS AND HELICOPTERS**

**Subject No. 120**

- 120-12A Private Carriage Versus Common Carriage of Persons or Property (4-26-86). (AFS-820).**  
Furnishes FAA personal and interested segments of industry with general guidelines for determining whether current or proposed transportation operations by air constitute private or common carriage.
- 120-16C Continuous Airworthiness Maintenance Programs (8-8-80). (AFS-350).**  
Provides information and guidance on continuous airworthiness maintenance programs for operators subject to the provisions of FAR Parts 121, 127, or 135.
- 120-17A Maintenance Control by Reliability Methods (3-27-78). (AFS-330).**  
Provides information and guidance materials which may be used to design or develop maintenance reliability programs utilizing reliability control methods.
- 120-26G International Civil Aviation Organization Designator/Radio Telephony Assignment for Aircraft Operating Agencies, Aeronautical Authorities and Services (10-1-87). (AT0-210).**  
This advisory circular states the criteria for eligibility and procedures for requesting the assignment of an International Civil Aviation Organization (ICAO) three-letter designator and telephony designator for agencies, aeronautical, and services.
- 120-27A Aircraft Weight and Balance Control (5-14-80). (AFS-310).**  
Provides a method and procedures for developing a weight and balance control system.
- 120-28C Criteria for Approval of Category III Landing Weather Minima (3-9-84). (AFS-210).**  
States an acceptable means, not the only means, for obtaining approval of Category IIIa or category IIIb landing weather minima and the installation approval of the associated airborne systems.
- 120-29 Criteria for Approving Category I and Category II Landing Minima for FAR 121 Operators (9-25-70). (AFS-210).**  
Sets forth criteria used by FAA in approving turbojet landing minima of less than 300-3/4 or RVR 4,000 (Category I) and Category II minima for all aircraft.
- 120-29 Chg. 1 (12-15-71).**  
Revises Appendix 1 and deletes statement in Appendix 2 regarding 19-foot criteria (does not apply when using an approved automatic landing system).
- 120-29 Chg. 2 (7-26-72).**  
Clarifies the airborne system evaluation by stressing the necessity for meeting maintenance program requirements.
- 120-29 Chg. 3 (12-3-74).**  
Outlines the recent change in FAR Part 121 wherein both initial and recurrent pilot qualification for both Category I and II proficiency checks may be performed in a visual simulator.
- 120-30A Reporting Requirements of Air Carriers, Commercial Operators, Travel Clubs, and Air Traffic Operators of Large and Small Aircraft (9-8-76). (AFS-310).**  
This advisory circular is issued to clarify the mechanical reliability reporting requirements contained in Parts 121, 127, and 135 of the Federal Aviation Regulations (FAR) and the accident and incident reporting requirements of Part 830 (old Part 430) of the National Transportation Safety Board (NTSB), Safety Investigation Regulations.
- 120-31A Operational and Airworthiness Approval of Airborne Omega Radio Navigation Systems as a Means of Updating Self-Contained Navigation Systems (4-21-77). (AFS-260).**  
Sets forth an acceptable means, but not the only means, of obtaining airworthiness and operational approval of airborne OMEGA navigation systems used in updating self-contained navigation systems such as Doppler and Inertial Radar for operations outside the United States under FAR Part 121.
- 120-32 Air Transportation of Handicapped Persons (3-25-77). (AFS-223).**  
Identifies some of the problems handicapped air travelers face and provides some guidelines to airline personnel to help alleviate these problems.
- 120-33 Operational Approval of Airborne Long-Range Navigation Systems for Flight Within the North Atlantic Minimum Navigation Performance Specifications Airspace (6-24-77). (AFS-223).**  
Sets forth acceptable means, but not the only means, for operators certificated under FAR Parts 121 and 123 and operators utilizing large aircraft under FAR 135.2, to obtain approval to operate within a specific airspace over the NAT (North Atlantic) MNPS (Minimum Navigation Performance Specifications) airspace after 0001 Greenwich Mean Time, Dec. 29, 1977.



- 120-34 Air Transportation of Mental Patients (6-29-77). (AFS-223).  
Provides guidelines to organizations and persons responsible for transportation of mental patients and outlines the responsibilities of those escorting such persons.
- 120-35A Line-Oriented Flight Training Programs (8-11-81). (AFS-260).  
Sets forth one means, not the only means, acceptable to the Administrator for approval of a line-oriented training program under FAR 121.409.
- 120-36 Air Carrier Dispersal Planning Program (6-5-78). (ATF-10).  
Provides guidance to air carrier management in the development of individual fleet dispersal plans for use in case of a nuclear attack on the United States.
- 120-37 Operational and Airworthiness Approval of Airborne Omega Radio Navigational Systems as a Sole Means of Long Range Navigation Outside the United States (10-10-78). (AWS-130).  
Establishes an acceptable means of obtaining airworthiness and operational approval of Airborne Omega Navigational Systems as a sole means of long range navigation for operations conducted outside the United States in accordance with FAR 121, 123, or large aircraft operated under FAR 135.2.
- 120-38 Transport Category Airplanes Cabin Ozone Concentrations (10-10-80). (AFS-260).  
Provides guidance concerning acceptable means, but not the only means, for an air carrier to demonstrate compliance with the maximum permissible cabin ozone (O<sub>3</sub>) concentrations established by Section 121.578 of the Federal Aviation Regulations.
- 120-39 Hazards of Waste Water Ice Accumulation Separating From Aircraft In Flight (10-31-80). (AFS-331).  
This advisory circular emphasizes the potential hazards to life and property due to lavatory fluid and potable water systems' ice accumulation and resultant separation from aircraft in flight.
- 120-40A Airplane Simulator And Visual System Evaluation (7-31-86). (AS0-205).  
Sets forth one means that would be acceptable to the Administrator for the evaluation of airplane simulators to be used in training programs or for airman checking under Title 14 Code of Federal Regulations (CFR). This Advisory Circular is not an all encompassing document and applicable regulations should be referenced to assure compliance with the provisions therein.
- 120-41 Criteria For Operational Approval Of Airborne Wind Shear Alerting and Flight Guidance Systems (11-7-83). (AFS-210).  
Establishes an acceptable means, but not the only means, of obtaining operational approval of an airborne wind shear alerting and flight guidance system. It describes acceptable simulation test criteria, wind field modeling data, and minimum performance parameters for evaluating candidate systems.
- 120-42 Extended Range Operation With Two-Engine Airplanes, (6-6-85). (AFS-210-/ANM-110).  
States an acceptable means but not the only means for obtaining approval under FAR Section 121.161 for two-engine airplanes to operate over a route that contains a point farther than one hour flying time at the normal one-engine inoperative cruise speed (in still air) from an adequate airport.
- ++120-43 The Influence of Beards on Oxygen Mask Efficiency (1-27-87). (AFS-220).  
Provides information about the effects of beards on masks in continuous flow and demand oxygen systems.
- ++120-44 Air Carrier First Aid Programs (4-17-87). (AFS-220).  
Provides guidance about first aid program resources, subjects, equipment, and pertinent regulations.
- ++120-45 Advanced Training Devices (Airplane Only) Evaluation and Qualification (5-11-87). (AS0-205).  
Provides information, guidelines, and criteria as one means that would be acceptable to the FAA Administrator for the evaluation and use of airplane Advanced Training Devices (ATD) which may be used in training programs or for airman training or checking under Part 135 of FAR's. Includes equipment validation tests and tolerances for ATD's and procedures for acquiring FAA evaluation and qualification.
- ++120-46 Use of Advanced Training Devices (Airplane Only) (6-12-87). (AFS-260).  
Sets forth an acceptable means, but not the only means, of showing compliance for use of airplane Advanced Training Devices (ATD's) in training conducted under Part 135 of the FAR.
- ++120-47 Survival Equipment for Use In Overwater Operations (6-12-87). (AFS-220).  
Provides information regarding the survival items that should be carried during aircraft extended overwater operations. Provides a means, but not the only means, for compliance with the pertinent regulations.
- 121-1A Standard Operations Specifications-- Aircraft Maintenance Handbook (6-26-73). (AFS-330).  
Provides procedures acceptable to the Federal Aviation Administration which may be used by operators when establishing inspection intervals and overhaul times.
- 121-1A Chg. 1 (1-23-75).  
Updates the overhaul and inspection/check period of selected airframes, powerplants, propellers, and appliances in relation to current industry standards.
- 121-1A Chg. 2 (8-19-76).  
121-1A Chg. 3 (2-18-77).  
121-1A Chg. 4 (7-7-78).
- 121-b Portable Battery-Powered Megaphones (1-5-66). (AWS-110).  
Sets forth an acceptable means for complying with rules (applicable to various persons operating under Part 121 of the Federal Aviation Regulations) that prescribe the installation of approved megaphones.

- 121-13 Self-Contained Navigation Systems (Long Range) (10-14-69). (AFS-224).**  
States an acceptable means, not the only means, of compliance with the referenced sections of the FAR as they apply to persons operating under Parts 121 or 123 who desire approval of Doppler RADAR navigation systems or Inertial Navigation Systems (INS) for use in their operations.
- 121-13 Chg. 1 (7-31-70).**  
Assures standardization of the Minimum Equipment List (MEL) with respect to Inertial Navigation Systems (INS) through the appropriate Flight Operations Evaluation Board (FOEB).
- 121-13 Chg. 2 (12-21-70).**  
Permits all flight training for Doppler and INS qualification, to be completed in a simulator or training device approved for conducting the required pilot training and qualifications in the use of these systems.
- 121-16 Maintenance Certification Procedures (11-9-70). (AFS-330).**  
Provides guidance for the preparation of an Operations Specification--Preface Page which will afford nominal and reasonable relief from approved service and overhaul time limits when a part is borrowed from another operator.
- 121-218 Information Guide for Training Programs and Manual Requirements in the Air Transportation of Hazardous Materials (12-22-83). (ACS-130).**  
Provides certificate holders operating aircraft under Code of Federal Regulations (CFR) Title 14, Parts 121 and 135, Federal Aviation Regulations, with information relevant to CFR Title 49 and the International Civil Aviation Organization (ICAO) Technical Instructions for the Safe Transport of Dangerous Goods by Air.
- 121-22 Maintenance Review Board (MRB) (1-12-77). (AFS-330).**  
Provides guidelines for establishing and conducting a MRB on newly manufactured aircraft, powerplant, or appliance to be used in air carrier service.
- 121-24 Passenger Safety Information Briefing and Briefing Cards (6-23-77). (AFS)-223).**  
Contains information and guidance material for use by air carriers in the preparation of passenger safety information briefings.
- 121-25 Additional Weather Information: Domestic and Flag Air Carriers (9-16-77). (AFS)-224).**  
Provides guidance and standards to domestic and flag air carriers for approval of a system for obtaining forecasts and reports of adverse weather phenomena.
- 121-26 Airports--Required Data (6-29-81). (AFS-250).**  
Provides guidance as to acceptable methods for compliance with changes to the Federal Aviation Regulations 121.97(b) and 121.117(b).
- 121-27 Guide For Air Carriers, Freight Forwarders, and Shippers in Obtaining Information Dealing with the Transportation of Hazardous Materials by Air (12-22-83). (ACS-100).**  
Provides air carriers, freight forwarders, and shippers with sources of regulatory and training information and provides office locations and telephone numbers where technical assistance may be obtained dealing with the provisions of the appropriate regulations concerning the transportation by air of commodities which have been designated as regulated hazardous materials.
- 121-28 Preparation and Loading of Magnetron Magnetic Materials for Air Transportation (3-19-87). (ACS-120).**  
Provides information relevant to the preparation and loading of magnetic materials for shipment in civil aircraft.
- 121.195(d)-1 Alternate Operational Landing Distances for Wet Runways; Turbojet Powered Transport Category Airplanes (11-19-65). (ANM-100).**  
Sets forth an acceptable means, but not the only means, by which the alternate provision of section 121.195(d) may be met.
- 121.445-1A Pilot In Command Qualifications for Special Areas/Routes And Airports. FAR 121.445 (3-25-81). (AFS-260).**  
Provides information for all Part 121 certificate holders concerning those areas/routes and airports where the Administrator has determined that special qualifications are required of pilots in command as provided in FAR 121.445.
- 125-1 Operations of Large Airplanes Subject to Federal Aviation Regulations Part 125 (1-22-81). (AFS-820).**  
Sets forth one means that would be acceptable to the Administrator to assist persons in complying with the requirements of FAR Part 125. It also provides (in Chapter 1) a test of applicability for those operations which may be subject to Part 125.
- 129-3 Foreign Air Carrier (6-10-82). (ACS-120).**  
Provides information and guidance for the implementation of Change 7 to FAR Part 129 (sections 129.25, 129.26, and 129.27) which became effective 9/11/81. The sensitive nature of many security procedures precludes full discussion in this AC. FAA Security Inspectors located throughout the U.S., as well as Foreign Air Carrier Principal Security Inspectors, located at FAA offices in Brussels, Belgium, and at FAA Regional Headquarters in the U.S., having responsibility for those foreign air carriers operating within the FAA offices geographical area of responsibility, are available to discuss the many issues that may arise regarding implementation and procedural details of security safeguards. (82.50 Supt. Docs.) SN 050-007-00641-1.
- 133-1A Rotorcraft External-Load Operations in Accordance with FAR Part 133 (10-16-79). (AFS-824).**  
Provides information for persons interested in applying for a Rotorcraft External-Load Operator Certificate.

**135-38 Air Taxi Operators and Commercial Operators (12-1-78).** (Consolidated reprint includes changes 1 and 2). (AFS-250).  
Sets forth guidelines and procedures to assist persons in complying with the requirements of Federal Aviation Regulations, Part 135, Revised December 1, 1978.

**135-4A Aviation Security: Air Taxi Commercial Operators (ATCO) (4-15-76).** (ACS-100).  
Provides recommended security measures applicable to ATCO operations that should minimize the effects of crimes directed against air transportation.

**135-5B Maintenance Program Approval for Carry-On Oxygen Equipment for Medical Purposes (9-26-83).** (AFS-310).  
Provides a means whereby air taxi operators may submit a maintenance program to comply with FAR Part 135, Section 135.91, of the Federal Aviation Regulations.

**135-7 FAR 135: Additional Maintenance Requirements for Aircraft Type Certificated for Nine or Less Passenger Seats (10-24-78).** (AFS-350).

Provides information on establishing methods for compliance with additional maintenance requirements of FAR Part 135, Revised December 1, 1978, for certain air taxi operators and commercial operators (ATCO).

**135-9 FAR Part 135 Icing Limitations (5-30-81).** (AFS-250).

To provide guidance to commuter/air taxi operators to assist them to comply with Section 135.227.

**135-10 Approved Aircraft Inspection Program (9-17-81).** (AFS-330).

Provides principal information and guidance for approved aircraft inspection programs.

**135-12 Passenger Information, FAR Part 135: Passenger Safety Information Briefing And Briefing Cards (10-9-84).** (AFS-250).

Provides information regarding the items that should be covered in oral briefings and on information cards. Provides specific information for aircraft having a maximum passenger seating configuration excluding any pilot seat, of 30 seats or less and a maximum payload capacity of 7500 pounds or less. It also provides suggestions about making this information more interesting and meaningful.

**++135-13 List of Air Carriers Certificated by FAR Part 135 (7-10-87).** (AVN-121).

Transmits a listing of air carriers that were certificated by the FAA under the provisions of FAR Part 135 as of February 27, 1987. (88-00 Supt. Docs.) SN 050-007-00760-4.

**135.1b9-1 Small Propeller-Driven Air Taxi Airplanes That Meet Sections 135.1b9 (formerly 135.144) (9-24-79).** (AWS-110).

Provides a summary of and information on small propeller-driven air taxi airplanes that comply with section 135.1b9(b) and may continue operations under FAR 135 with ten or more passenger seats.

**137-1 Agricultural Aircraft Operations (11-29-65).** (AFS-820).

Explains and clarifies the requirements of FAR Part 137 and provides additional information, not regulatory in nature, which will assist interested persons in understanding the operating privileges and limitations of this Part.

**139.12-1 Airport Operations Specifications (2-3-75).** (AAS-300).

Presents guidelines to assist airport operators in developing airport operations specifications in compliance with the requirements of amended FAR Part 139.

**139.49-1 Programs for Training of Fire Fighting and Rescue Personnel (11-12-74).** (AAS-100).

Outlines suggested training programs for airport fire fighting and rescue personnel involved in operating airport fire fighting and rescue equipment and the principles of aircraft fire fighting and rescue techniques. Schools and Other Certificated Agencies

Subject No. 140

**++140-2S List of Certificated Pilot Schools (7-10-87).** (AVN-121).

Provides a listing of pilot schools that were FAA certificated as of May 22, 1987. (81-75 Supt. Docs.) SN 050-007-00763-9.

**140-6C The Development and Use of Major Repair Data Under Provisions of Special Federal Aviation Regulation No. 36 (2-3-84).** (AFS-340).

Advises that SFAR 36 has been extended for an additional 5 years. Provides information related to the issuance of an authorization to allow repair stations, air carriers and air taxi/commercial operators of large aircraft to develop and use major repair data not specifically approved by the Administrator in accordance with the requirements of SFAR 36.

**++140-7E Federal Aviation Administration Certificated Maintenance Agencies Directory (5-28-87).** (AVN-121).

Transmits a consolidated directory of all FAA certificated repair stations and parachute lofts as of April 7, 1987, under the authority of FAR Part 145, Repair Stations, and FAR Part 149, Parachute Lofts.. (84-50 Supt. Docs.) SN 050-007-00756-6.

**141-1 Pilot School Certification (8-29-74).** (AFS-820).

Sets forth guidelines to assist persons in obtaining a pilot school certificate and associated ratings under FAR Part 141 (revised).

- 141-2A Written Tests Prepared by Pilot Schools With Examining Authority Under Part 141 (Revised) of the Federal Aviation Regulations (10-3-75.) (AVN-132).**  
Provides guidance to FAR Part 141 Pilot Schools with examining authority in developing final written tests for FAA certificates and ratings which are equal in scope, depth, and difficulty to comparable written tests prescribed by the Administrator. Also prescribes procedures for administering, maintaining security of, and replacing those tests.
- 145-2 Repair Station Limited Ratings Beech 18 Series Aircraft (4-21-76). (AFS-340).**  
Advises of a required limited repair station rating to perform X-ray inspection of the Beech 18 wing and center section spar, and of the procedures for application.
- 145-3 Guide For Developing and Evaluating Repair Station Inspection Procedures Manuals (2-13-81). (AFS-310).**  
An aid to the development of a repair station inspection procedures manual that adequately covers all pertinent FARs.
- 145-3 Chg. 1 (2-10-82).**
- 145-4 Inspection, Retread, Repair and Alterations of Aircraft Tires (9-27-82). (AFS-340).**  
Provides guidance for the development, qualification, and approval of aircraft tire repair and retread process specifications, and the use of special nondestructive inspection (NDI) techniques. The information sets forth an acceptable means, but not the only means of developing a process specification for approval.
- 145.101-1B Application for Air Agency Certificate--Manufacturer's Maintenance Facility (11-30-83). (AWS-202).**  
Provides manufacturers with the procedures for obtaining a repair station certificate with a limited rating for a manufacturer (known as a manufacturer's maintenance facility (MMF)).
- +147-2Y Directory of FAA Certificated Aviation Maintenance Technician Schools (5-12-87). (AVN-121).**  
Transmits directory of all FAA certificated aviation maintenance technician schools as of February 24, 1987. (\$1.00 Supt. Docs.) SN 050-007-00754-00754-0.

## AIRPORTS

Subject NO 150

## AIRPORT PLANNING

- 150/5000-4B Announcement of Availability-- Airport Research and Technical Reports (2-11-85). (AAS-100).**  
Alerts the public to the availability of published research and technical reports sponsored by the Federal Aviation Administration (FAA) on a variety of airport related subjects.
- 150/5000-5A Designated U.S. Airports Serving International Air Traffic (5-16-85). (AAS-120).**  
Explains the different categories of U.S. airports designated to serve international air traffic and provides a listing of such airports.
- +150/5000-6 Announcement of Availability -- Micro-Paver, Pavement Management System (PMS) (4-16-87). (AAS-200).**  
Announces the availability of the Micro-Paver Program, Version 1.0.
- +150/5000-7 Announcement of Availability Report No. DOT/FAA/PP/87-1-- Measuring the Regional Economic Significance of Airports (5-12-87). (APP-400).**  
Announces the availability of the report "Measuring the Regional Economic Significance of Airport."
- 150/5020-1 Noise Control and Compatibility Planning for Airports (8-5-83). (AEE-110).**  
Provides general guidance for noise control and compatibility planning for airports. Provides specific guidance for preparation of airport noise exposure maps and airport noise compatibility programs by airport operators for submission under FAR Part 150 and the Aviation Safety and Noise Abatement Act of 1979. Contains an expanded Table of Land Uses Normally Compatible with Various Levels of Noise.
- 150/5020-2 Noise Assessment Guidelines for New Heliports (12-9-83). (AEE-110).**  
Provides technical guidance for local planners, other government agencies, and operators in calculating the acoustic involvement near new Heliports.
- 150/5050-3A Planning the State Airport System (6-72). (APP-400).**  
Provides general guidance in preparing a State airport system plan. (\$6.00 Supt. Docs.) SN 050-007-00184-3.
- 150/5050-4 Citizen Participation in Airport Planning (9-26-75). (APP-600).**  
Provides guidance for citizen involvement in airport planning. Although not mandatory for airport grant programs, it demonstrates the need for early citizen participation.
- 150/5050-5 The Continuous Airport System Planning Process (11-28-75). (APP-400).**  
The purpose of this advisory circular is to provide guidance on the Continuous Airport System Planning Process (CASPP). This process is utilized in establishing a planning capability to monitor and assess the effects of changes in the many variables and issues influencing a plan with the objective of maintaining a plan responsive to current and forecast conditions. In addition to describing the components of a CASPP, sponsor organizational structures and federal financial participation in continuous planning activities are discussed.
- +150/5000-3K Address List for Regional Airports Divisions and Airports District/Field Offices (9-1-87). (ARP-11).**  
Transmits the address list for all regional Airports Divisions and Airports District/Field Offices.

- 150/5050-b Airport-Land Use Compatibility Planning (12-30-77). (APP-400).  
Provides generalized guidance for compatible land use planning in the vicinity of both new and existing airports. Provides guidance which may be used in developing noise control plans. (\$5.50 Supt. Docs.) SN 050-007-00417-b.
- +150/5050-7 Establishment of Airport Action Groups (6-23-87). (AAS-300).  
Provides guidance on the establishment of airport action groups.
- 150/5060-5 Airport Capacity And Delay (9-23-83). (AAS-100).  
Explains how to compute airport capacity and aircraft delay for airport planning and design.
- 150/5060-5 Chg. 1 (5-16-84).  
Revises chapter 5 to incorporate the National Technical Information Service (NTIS) acquisition codes for the recently documented Airfield Delay Simulation Model (ADSIM). It also identifies minor pen and ink corrections.
- 150/5070-3 Planning the Airport Industrial Park (9-30-85). (APP-400).  
Provides guidance to communities, airport boards, and industrial developers for the planning and development of Airport Industrial Parks.
- 150/5070-5 Planning the Metropolitan Airport System (5-22-70). (APP-400).  
Gives guidance in developing airport-system plans for large metropolitan areas. It may be used by metropolitan planning agencies and their consultants in preparing such system plans and by the FAA in reviewing same. (\$5.50 Supt. Docs.) SN 050-008-00003-7.
- 150/5070-6A Airport Master Plans (6-85). (APP-400).  
Provides guidance for the preparation of airport master plans, pursuant to the provisions of the Airport and Airway Improvement Act of 1982. (\$4.75 Supt. Docs.) SN 050-007-00703-5.

#### FEDERAL-AID AIRPORT PROGRAMS

- +150/5100-6D Labor Requirements for the Airport Improvement Program (AIP) (10-15-86). (APP-510).  
Encompasses the basic labor and associated requirements for the Airport Improvement Program (ADAP). It is intended for sponsors using program assistance and for contractors and subcontractors working on projects under the program.
- 150/5100-10A Accounting Records Guide for Airport Aid Program Sponsors (4-13-76). (APP-500).  
This advisory circular sets forth recordkeeping requirements imposed on sponsor of Airport Development Aid Program (ADAP) and the Planning Grant Program (PGP) projects by the Airport and Airway Development Act of 1970, as amended. In addition, the Federal Aviation Regulations (FARs) require a sponsor to establish and

maintain a financial management system that meets the standards set forth in FAR 152, Appendix K. This circular provides detailed explanations of these requirements.

- 150/5100-11 Land Acquisition and Relocation Assistance Under the Airport Development Aid Program (2-10-75). (APP-600).  
Provides guidance to sponsors of airport development projects under the Airport Development Aid Program to meet the requirements of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (Public Law 91-646).
- 150/5100-13 Development of State Standards for General Aviation Airports (3-1-77). (AAS-200).  
Provides guidelines and programming procedures for the development of state standards for general aviation airports as provided for in the Airport and Airway Development Act Amendments of 1976.
- 150/5100-14A Architectural, Engineering, and Planning Consultant Services for Airport Grant Projects (2-7-85). (AAS-200).  
Provides guidance for airport sponsors in the selection and employment of architectural, engineering, and planning consultants under Federal Aviation Administration airport grant programs.
- 150/5100-14A, Chg. 1 (4-16-86).
- 150/5100-15 Civil Rights Requirements For The Airport Improvement Program (AIP) (9/24/84). (APP-510).  
Encompasses the basic civil rights requirements for the Airport Improvement Program (AIP). It is intended for sponsors using program assistance and for contractors and subcontractors working on projects under the program.
- 150/5100-16 Airport Improvement Program Grant Assurance Number One - General Federal Requirements, (7-22-85). (APP-510).  
Describes those Federal requirements contained in Assurance 1 of the Part V Assurance (FAA Form 5100-100) which are incorporated into all grants issued pursuant to the Airport and Airway Improvement Act of 1982.
- #### SURPLUS AIRPORT PROPERTY CONVEYANCE PROGRAMS
- 150/5150-2B Federal Surplus Personal Property for Public Airport Purposes (10-1-84). (APP-510).  
Attempts to Acquaints public airport owners and other interested parties with the Federal Surplus Personal Property Program for public airports and to outline procedures to be used in applying for and acquiring surplus personal property for this purpose.

## AIRPORT SAFETY--GENERAL

## AIRPORT COMPLIANCE PROGRAM

- 150/5190-1A Minimum Standards for Commercial Aeronautical Activities on Public Airports (12-16-85). (AAS-310).  
Provides basic information and broad guidance material to assist the owners of public airports in developing and applying minimum standards for commercial aeronautical activities on public airports.
- 150/5190-2A Exclusive Rights at Airports (4-4-72). (Consolidated reprint incorporates ch. 1). (AAS-300).  
Makes available to public airport owners, and to other interested persons, basic information and guidance on FAA's policy regarding exclusive rights at public airports on which Federal funds, administered by FAA, have been expended.
- 150/5190-4 A Model Zoning Ordinance to Limit Height of Objects Around Airports (8-23-77). (AAS-100).  
Provides a model zoning ordinance to be used as a guide to control the height of objects around airports.
- 150/5190-4 Chg. 1 (12-5-83).  
Adds a FOCUS paragraph which alerts the potential user of the advisory circular to the possibility that an object which exceeds the height limits of a zoning ordinance based on the obstruction surfaces described in Subpart C of FAR Part 77, Objects Affecting Navigable Airspace, current edition, is not necessarily a hazard to air navigation.
- 150/5200-12A Fire Department Responsibility in Protecting Evidence at the Scene of an Aircraft Accident (4-8-85). (AAS-100).  
Furnishes general guidance for airport, employees, airport management and other personnel responsible for firefighting and rescue operations, at the scene of an aircraft accident, on the proper presentation of evidence.
- 150/5200-15C Announcement of Availability--International Fire Service Training Association's Manual 206, Aircraft Fire Protection and Rescue Procedures (Second Edition, 1978) (8-26-82). (AAS-100).  
Explains the nature of the manual and tells how it can be obtained.
- 150/5200-18A Airport Safety Self-Inspection (12-18-85). (AAS-310).  
Suggests functional responsibility, procedures, a checklist, and schedule for an airport safety self-inspection.
- 150/5200-21A Announcing the Availability of U.S. Air Force Technical Order (T.O. 00-105E-9) Aircraft Emergency Rescue Information (2-24-81). (AAS-100).  
Explains the nature of the Technical Order and tells how it can be obtained.
- 150/5200-22 Announcing the Availability of the International Civil Aviation Organization Airport Services Manual, DOC-9137-AN-898, Part 3, Bird Control and Reduction (3-16-76). (AAS-100).  
Announces the availability of the manual, explains its purpose, and tells how to obtain copies.
- 150/5200-23A Airport Snow and Ice Control (1-25-85). (AAS-120).  
Provides guidance to assist airport owners/operators to establish or improve airport snow and ice control programs.
- 150/5200-23A Chg. 1 (2/26/86).  
++150/5200-27B Announcement of Availability: The National Fire Protection Association's Standard for Professional Qualifications for Airport Fire Fighters (NFPA 1003-1987) (9-1-87). (AAS-100).  
Explains the nature of the standard and tells how it can be obtained for use as an airport fire fighter program guide.
- 150/5210-2A Airport Emergency Medical Facilities and Services (11-27-84). (AAS-300).  
Provides information and advice so that airports may take specific voluntary preplanning actions to assure at least minimum first-aid and medical readiness appropriate to the size of the airport in terms of permanent and transient personnel.
- 150/5210-5B Painting, Marking, and Lighting of Vehicles Used on an Airport (7-11-86). (AAA-120).  
Provides guidance, specifications, and standards, in the interest of airport personnel safety and operational efficiency, for painting, marking, and lighting of vehicles operating in the airport air operations areas.
- 150/5210-6C Aircraft Fire and Rescue Facilities and Extinguishing Agents (1-28-85). (AAS-100).  
Outlines scales of protection considered as the recommended level compared with the minimum level in Federal Aviation Regulation Part 139.49 and tells how these levels were established from test and experience data.
- 150/5210-7B Aircraft Fire and Rescue Communications (4-30-84). (AAS-120).  
Provides guidance information for planning and implementing an airport communications system for airport fire and rescue service.
- 150/5210-12 Fire and Rescue Service for Certificated Airports (3-2-72). (AAS-100).  
Furnishes guidance and explains to Federal Aviation Administration (FAA) airport inspectors and airport management the minimum criteria to be applied when evaluating the aircraft fire and rescue service required at an airport for its compliance with the requirements of FAR Part 139.
- 150/5210-13 Water Rescue Plans, Facilities, and Equipment (5-4-72). (AAS-300).  
Suggests planning procedures, facilities, and equipment to effectively perform rescue operations when an aircraft lands in a body of water, swamp, or tidal area where normal aircraft firefighting and rescue service vehicles are unable to reach the accident scene.

150/5210-14 Airport Fire and Rescue Personnel Protective Clothing (3-12-86). (AAS-100).  
Developed to assist airport management in the development of local procurement specifications for an acceptable, cost-effective proximity suit for use in aircraft rescue and firefighting operations.

++150/5210-15 Airport Rescue and Firefighting Station Building Design (7-30-87). (AAS-100).

Provides standards and guidance for planning, designing, and constructing and airport rescue and firefighting station.

150/5220-4A Water Supply Systems for Aircraft Fire and Rescue Protection (12-11-85). (AAS-120).

Provides guidance for the water source selection and standards for a water distribution system designed to support aircraft rescue and firefighting (ARF) service operations on airports.

150/5220-9 Aircraft Arresting System for Joint Civil/Military Airports (4-6-70). (AAS-300).

Updates existing policy and describes and illustrates the various types of military aircraft emergency arresting systems that are now installed at various joint civil/military airports. It also informs users of criteria concerning installations of such systems at joint civil/military airports.

150/5220-10 Guide Specification for Water/Foam Type Aircraft Fire and Rescue Trucks (5-26-72). (Consolidated reprint incorporates changes 1 and 2). (AAS-100).

Assists airport management in the development of local procurement specifications.

150/5220-11 Airport Snowblower Specification Guide (4-10-78). (AAS-100).

Provides information covering a variety of multiple capacity rotary snowblowers.

150/5220-12 Airport Snowsweeper Specification Guide (6-12-78). (AAS-100).

Provides information covering multiple capability airport snowsweepers. The information is for the use of all airport operators.

150/5220-13A Runway Surface Condition Sensor--Interim Specification Guide (4-22-83). (AAS-100).

Provides guidance on electronic systems which monitor runway surface conditions. The guidance is intended for use by airport operators, engineers and planners.

150/5220-14A Airport Fire and Rescue Vehicle Specification Guide (2-25-85). (AAS-100).

Assists airport management in the development of local procurement specifications.

150/5220-15 Buildings for Storage and Maintenance of Airport Snow Removal and Ice Control Equipment: A Guide (3-25-83). (AAS-120).

Provides standards for site selection, design and construction of buildings for the storage and maintenance of airport snow removal and ice control equipment and materials.

150/5220-16 Automated Weather Observing Systems (AWOS) for Non-Federal Applications, (4-11-86). (AAS-200).

Contains the FAA standard for non-Federal Automated Weather Observing Systems.

150/5230-4 Aircraft Fuel Storage, Handling, and Dispensing On Airports (8-27-82). (AAS-300).

Provides information on aviation fuel deliveries to airport storage and the handling, cleaning, and dispensing of fuel into aircraft.

150/5230-4, Chg. 1 (2-20-86).

++150/5230-4, Chg. 2 (7-1-87).

150/5280-1 Airport Operations Manual (6-16-72). (AAS-310).

Sets forth guidelines to assist airport operators in developing an Airport Operations Manual in compliance with the requirements of FAR Part 139.

150/5280-1 Chg. 1 (3-24-81).

150/5280-3 Fire Fighting Exemptions Under the 1976 Amendment to the Federal Aviation Act (2-4-77). (AAS-100).

Outlines the type of information that may be used as justification in supporting petitions for exemption from a portion or all of the fire fighting and rescue requirements of Part 139.

#### DESIGN CONSTRUCTION, AND MAINTENANCE--GENERAL

150/5300-2D Airport Design Standards--Site Requirements for Terminal Navigational Facilities (3-10-80). (AAS-100).

This advisory circular contains information on electronic and visual navigational aids and air traffic control facility siting and clearance requirements that influence the physical layout of airports. The information is needed by persons developing an airport layout plan or an airport master plan.

150/5300-2D Chg.1 (7-25-80).

Corrects a possible misinterpretation that the time reference scanning beam microwave landing system (MLS) has been officially adopted as the international standard MLS.

++150/5300-2D Chg.2 (1-30-87).

Deletes the obsolete Category II and III obstacle critical area.

150/5300-4B Utility Airports--Air Access to National Transportation (6-24-75).

(Consolidated reprint incorporates Changes 1 thru 9). (AAS-110).

Establishes design standards for utility airports which are constructed for aircraft of 12,500 pounds (5670 kg) maximum gross weight or less. (MS-50 Supt. Docs.) SN 050-007-00630-6.

++150/5300-4B Chg. 9 (9-18-87).

- 150/5300-7B FAA Policy on Facility Relocations Occasioned by Airport Improvements or Changes (11-8-72). (ABU-10).**  
Reaffirms the aviation community of the FAA policy governing responsibility for funding relocation, replacement and modification to air traffic control and air navigation facilities that are made necessary by improvements or changes to the airport.
- 150/5300-9A Predesign, Prebid, and Preconstruction Conferences for Airport Grant Projects (5-1-85). (AAS-200).**  
Provides guidance for conducting predesign, prebid, and preconstruction conferences for projects funded under the FAA airport grant program.
- 150/5300-11 Announcement of Availability Report No. FAA-AAS-80-1, National Runway Friction Measurement Program (4-21-81). (AAS-200).**  
Announces the availability of the National Runway Friction Measurement Program Final Report.
- 150/5300-12 Airport Design Standards-- Transport Airports (2-28-83). (AAS-110).**  
Presents the Federal Aviation Administration's (FAA) standards for the development of transport airports. A transport airport accommodates, or is expected to accommodate, airplanes in Aircraft Approach Categories C or D, i.e., airplanes with approach speeds of 121 knots or greater.
- 150/5300-12 Chg. 1 (3-14-85).**  
Provides separation standards to accommodate certain nonprecision operations by aircraft in Airplane Design Groups I and II. It also changes the standard for the runway end gradient to 0.8 percent.
- 150/5320-5B Airport Drainage (7-1-70). (AAS-200).**  
Provides guidance for engineers, airport managers, and the public in the design and maintenance of airport drainage systems. (\$5.50 Supt. Docs.) SN 050-007-00149-5.
- 150/5320-6C Airport Pavement Design and Evaluation (12-7-78). (Consolidated reprint incorporates Change 1.) (AAS-200).**  
Provides guidance to the public for the design and evaluation of pavements at civil airports.
- 150/5320-10 Environmental Enhancement at Airports Industrial Waste Treatment (4-16-73). (AAS-100).**  
Provides basic information on the nature and treatment of industrial wastes produced at airports.
- 150/5320-10 Chg. 1 (11-18-74).**
- 150/5320-11 Runway Categorization -- Aeronautical Studies Airport Owners' Responsibilities (9-21-73). (AAS-100).**  
Emphasizes the need for airport owners to maintain runway and approach zone categories and locations on file with FAA so that they may be given consideration under the regulations of FAR Part 77.
- 150/5320-12A Measurement, Construction, and Maintenance of Skid Resistant Airport Pavement Surfaces (7-11-86). (AAS-200).**  
Contains guidance on determining runway surface friction characteristics, specifications for friction measuring equipment, and procedures for the construction and maintenance of skid resistance airport pavement surfaces.
- 150/5320-14 Airport Landscaping for Noise Control Purposes (1-31-78). (APP-400).**  
Provides guidance to airport planners and operators in the use of tree and vegetation screens in and around airports.
- 150/5325-3 Background Information on the Aircraft Performance Curves for Large Airplanes (1-26-65). (Consolidated reprint includes Change 1). (AAS-110).**  
Provides airport designers with information on aircraft performance curves for design which will assist them in an objective interpretation of the data used for runway length determination.
- 150/5325-4 Runway Length Requirements for Airport Design (4-5-65). (Consolidated reprint includes Changes 1 through 11). (AAS-100).**  
Presents aircraft performance curves and sets forth standards for the determination of runway lengths to be provided at airports. The use of these standards is required for project activity under the Federal-Aid Airport Program when a specific critical aircraft is considered as the basis for the design of a runway.
- 150/5325-4 Chg. 12 (7-27-77).**
- 150/5325-4 Chg. 13 (3-13-78).**
- 150/5325-4 Chg. 14 (9-27-78).**
- ++150/5325-5C Aircraft Data (6-29-87). (AAS-100).**  
Presents a listing of principal aircraft weights and dimensions which affect airport facility design. It is to be used for guidance in airport development. Data presented are for common civil aircraft and those military aircraft which frequently utilize civil facilities.
- 150/5335-2 Airport Aprons (1-27-65). (AAS-100).**  
Provides the criteria for airport aprons which are acceptable in accomplishing a project meeting the eligibility requirements of the Federal-aid Airport Program.
- 150/5335-5 Standardized Method of Reporting Airport Pavement Strength--PCN (6-15-83). (AAS-200).**  
Provides guidance for using the standardized International Civil Aviation Organization (ICAO) method to report airport pavement strength. The standardized method is known as the ACN/PCN method.
- 150/5335-5 Chg. 1 (3-6-87).**



- 150/5340-1E Marking of Paved Areas on Airports (11-4-80). (AAS-200).  
Describes standards for marking paved runways, taxiways, closed and/or hazardous areas on airports.
- 150/5340-4C Installation Details for Runway Centerline Touchdown Zone Lighting Systems (5-6-75). (AAS-200). (Consolidated reprint includes Change 1).  
Describes standards for the design and installation of runway centerline and touchdown zone lighting systems.
- 150/5340-4C Chg. 2 (8-11-78).
- 150/5340-5B Segmented Circle Airport Marker System (12-21-84). (AAS-200).  
Sets forth standards for a system of airport marking consisting of certain pilot aids and traffic control devices.
- 150/5340-5B Chg. 1 (2-25-85).  
Transmits figure 1 which was inadvertently omitted from subject AC.
- 150/5340-14B Economy Approach Lighting Aids (6-17-70). (Consolidated reprint includes Changes 1 and 2). (AAS-200).  
Describes standards for the design selection, siting, and maintenance of economy approach lighting aids.
- 150/5340-17B Standby Power for Non-FAA Airport Lighting Systems (1-6-86). (AAS-200).  
Describes standards for the design, installation, and maintenance of standby power for nonagency owned airport visual aids associated with the National Airspace System (NAS) and the national system of airports.
- 150/5340-18B Standards for Airport Sign Systems (8-21-84). (AAS-200).  
Contains the Federal Aviation Administration standards for the location and installation of signs for use on airports.
- 150/5340-19 Taxiway Centerline Lighting System (11-14-68). (AAS-200).  
Describes the recommended standards for design, installation, and maintenance of a taxiway centerline lighting system.
- 150/5340-21 Airport Miscellaneous Lighting Visual Aids (3-25-71). (AAS-200).  
Describes standards for the system design, installation, inspection, testing, and maintenance of airport miscellaneous visual aids; i.e., airport beacons, beacon towers, wind cones, wind tees, and obstruction lights.
- 150/5340-23A Supplemental Wind Cones (6-24-75). (AAS-200).  
Describes standards for the performance and location of supplemental wind cones.
- 150/5340-24 Runway and Taxiway Edge Lighting System (9-3-75). (AAS-200).  
Describes standards for the design, installation, and maintenance of runway and taxiway edge lighting.
- 150/5340-24 Chg. 1 (11-25-77).  
Transmits changes to the basic advisory circular.
- 150/5340-26 Maintenance of Airport Visual Aid Facilities (8-26-82). (Spanish Language Version Available). (AAS-100).  
Provides recommended guidelines for maintenance of airport visual aid facilities.
- 150/5340-27A Air-to-Ground Radio Control of Airport Lighting Systems (3-4-86). (AAS-200).  
Contains the FAA standard operating configurations for air-to-ground radio control of airport lighting systems.
- 150/5345-1R Approved Airport Lighting Equipment (7-7-86). (AAS-200).  
Contains a listing of manufacturers that have obtained qualification approval to specifications for airport lighting equipment.
- 150/5345-3D Specification for L-821 Panels for Remote Control of Airport Lighting (8-8-86). (AAS-200).  
Contains the specification requirements for panels used for remote control of airport lighting systems.
- 150/5345-5A Circuit Selector Switch (3-23-82). (AAS-200).  
This advisory circular contains a specification for a circuit selector switch for use in airport lighting circuits.
- 150/5345-7D Specification for L-824 Underground Electrical Cable for Airport Lighting Circuits (5-19-81). (AAS-200).  
Describes the specification requirements for L-824 electrical cables.
- 150/5345-7D Chg. 1 (1-4-82).
- 150/5345-10E Specification for Constant Current Regulators Regulator Monitors (10-16-84). (AAS-200).  
Contains a specification for constant current regulators used on airport lighting circuits, and for a monitor that reports on the status of the regulator.
- 150/5345-12C Specification for Airport and Heliport Beacon (1-9-84). (AAS-200).  
Contains equipment specifications for light beacons which are used to locate and identify civil airports, seaplane bases, and heliports.
- 150/5345-13A Specification for L-841 Auxiliary Relay Cabinet Assembly for Pilot Control of Airport Lighting Circuits (8-8-86). (AAS-200).  
Contains the specification requirements for a relay cabinet used to control airfield lighting circuits. The L-841 consists of an enclosure containing a DC power supply, control circuit protection and 20 pilot relays.
- 150/5345-26B Specification for L-823 Plug and Receptacle, Cable Connectors (1-28-81). (AAS-200).  
Describes the subject specification requirements.
- 150/5345-26B Chg. 1 (1-4-82).
- 150/5345-26B Chg. 2 (8-3-82).

- 150/5345-27C Specification for Wind Cone Assemblies (7-19-85). (AAS-200).**  
This advisory circular contains a specification for wind cone assemblies to be used to provide wind information to pilots of aircraft.
- 150/5345-28D Precision Approach Path Indicator (PAPI) Systems (5-23-85). (AAS-250).**  
Describes the specification requirements for visual approach slope indicator (VASI) and simple abbreviated visual approach slope indicator (SAVASI) equipment and accessories.
- 150/5345-39B FAA Specification L-853, Runway and Taxiway Centerline Retroreflective Markers (12-9-80). (AAS-200).**  
Describes specification requirements for L-853 Runway and Taxiway Retroreflective markers, for the guidance of the public.
- 150/5345-39B Chg. 1 (1-4-82).**
- 150/5345-42B FAA Specification L-857, Airport Light Bases, Transformer Houses, and Junction Boxes (9-21-82). (AAS-200).**  
Describes specification requirements for airport light bases, transformer housings, and junction boxes for the guidance of the public.
- 150/5345-42B Chg. 1 (1-4-82).**
- 150/5345-43C Specification for Obstruction Lighting Equipment (6-10-80). (AAS-200).**  
This advisory circular contains the specification for equipment used in obstruction lighting systems.
- 150/5345-43C Chg. 1 (1-4-82).**
- 150/5345-44D Specification for Taxiway and Runway Signs (4-30-84). (AAS-200).**  
Contains the specification for signs to be use on Taxiways and Runways to provide information to Aircraft Pilots.
- 150/5345-45 Lightweight Approach Light Structure (5-10-73). (AAS-200).**  
Presents the specifications for lightweight structures for supporting lights as used in visual navigational aid systems.
- 150/5345-45 Chg. 1 (1-4-82).**
- 150/5345-46A Specification for Runway and Taxiway Light Fixtures (6-7-84). (AAS-200).**  
Contains specifications for light fixtures to be used on airport runways and taxiways.
- 150/5345-47 Isolation Transformers for Airport Lighting Systems (7-28-75). (AAS-200).**  
Contains the specifications requirements for series-to-series isolation transformers for use in airport lighting systems.
- 150/5345-47 Chg. 1 (1-4-82).**
- 150/5345-49A Specification L-854, Radio Control Equipment (8-8-86). (AAS-200).**  
Contains the specification for radio control equipment to be used for controlling airport lighting facilities.
- 150/5345-50 Specification for Portable Runway Lights (10-16-78). (AAS-200).**  
Creates a standard and specification for a battery operated light unit to be used to outline a runway area temporarily.
- 150/5345-50 Chg. 1 (1-4-82).**
- 150/5345-51 Specification for Discharge-Type Flasher Equipment (8-14-81). (AAS-200).**  
Contains the specifications for discharge-type flashing light equipment to be used for runway and identification lights (REIL) and for an omnidirectional approach lighting system (ODALS).
- 150/5345-51 Chg. 1 (1-4-82).**
- 150/5355-1A International Signs to Facilitate Passengers Using Airports (11-3-71). (AAS-100).**  
Informs airport authorities of the desirability to provide international signs and diagrammatic maps within terminal buildings and of the need of clearly marked road signs for airports.
- 150/5355-2 Fallout Shelters in Terminal Buildings (4-1-69). (AAS-100).**  
Furnishes guidance for the planning and design of fallout shelters in airport terminal buildings.
- 150/5360-2 Airport Cargo Facilities (4-6-64). (AAS-100).**  
Provides guidance material on air cargo facilities.
- 150/5360-4A Announcement of Availability of Guidelines for Federal Inspection Services Facilities at International Airports of Entry and at Landing Rights Airports (10-7-77). (AAS-200).**  
Announces the availability of a booklet containing more current information on the requirements for Federal Inspection Services at airports of entry and at landing rights airports.
- 150/5360-5A Announcement of Availability of the International Civil Aviation Organization (ICAO) Computer Data Bank Materials (10-26-84). (AAS-102).**  
Announces the availability of computer data bank material on airports shown in the International Civil Aviation Organization (ICAO) Regional Air Navigation Plans and how it can be obtained.
- 150/5360-6 Airport Terminal Building Development with Federal Participation (10-5-76). (AAS-100).**  
Provides guidance pertaining to Federal participation in airport terminal building construction under the provisions of the Airport and Airway Development Act, as amended.

- 150/5360-7 Planning and Design Consideration for Airport Terminal Building Development (9-5-76). (AAS-100).  
Presents planning and design procedures to be considered in airport terminal building development funded under the Airport and Airway Development Act, as amended.
- 150/5360-8A Announcement of Availability of Information on Foreign Airport Planning, Design, Construction, and Trade Opportunities (10-26-84). (AAS-102).  
Provides information on trade opportunity programs and publications relating to foreign airport planning, design, and construction.
- 150/5360-9 Planning and Design of Airport Terminal Facilities at Non-Hub Locations (4-4-80). (AAS-100).  
This advisory circular provides guidance material for the planning and design of airport terminal buildings at non-hub locations.
- 150/5360-10 Announcement of Availability - Airport Landslide Simulation Model (ALSIM) (4-24-84). (AAS-3).  
Announces the availability and describes some of the features of a dynamic simulation computer model for use by airport planners, designers, and operators in evaluating and comparing the effectiveness of alternative airport terminal and landslide configurations and facilities.
- 150/5360-11 Energy Conservation for Airport Buildings (5-31-84). (AAS-200).  
Provides guidance for promoting energy conservation in the design and operation of airport buildings; for initiating energy conservation programs; and for conducting airport building energy assessments.
- 150/5360-12 Airport Signing and Graphics (12-23-85). (AAS-110).  
Provides guidance on airport related signs and graphics.
- 150/5370-2C Operational Safety on Airports During Construction (5-31-84). (AAS-300).  
Concerning operational safety on airports with special emphasis on safety during periods of construction activity, to assist airport operators in complying with Part 139.
- 150/5370-4 Procedures Guide for Using the Standard Specifications for Construction of Airports (5-29-89). (AAS-200).  
Provides guidance to the public in the use and application of the Standard Specifications for Construction of Airports.
- 150/5370-6A Construction Progress and Inspection Report--Federal-Aid Airport Program (3-6-81). (AAS-200).  
Provides guidance for submission of a report on construction progress of Airport Development Aid Program (ADAP) projects.
- 150/5370-10 Standards for Specifying Construction of Airports (10-24-74). (AAS-200).  
Provides construction standards usually used to specify grading, drainage, paving, lighting, fencing, and turfing items of work on civil airports. (812.00 Supt. Docs.) SN 050-007-00264-5. (Changes free from FAA.) (Changes 1 through 23 consolidated).

- 150/5370-10 Chg. 24 (4-16-86).
- 150/5370-11 Use of Nondestructive Testing Devices in the Evaluation of Airport Pavements (6-4-76). (AAS-200).  
Provides guidance to the public on the use of nondestructive testing devices as aids in the evaluation of the load-carrying capacity of airport pavements.
- 150/5370-11 Chg. 1 (7-11-80).  
Transmits a revised curve showing the relationship between dynamic stiffness Modulus and Pavement Strength for use in the evaluation of flexible pavements.
- 150/5370-12 Quality Control of Construction for Airport Grant Projects (9/6/85). (AAS-200).  
Provides information to ensure the quality of construction accomplished under the FAA Airports grant program.
- 150/5380-5A Debris Hazards at Civil Airports (2-25-81). (AAS-100).  
Discusses problems of debris at airports, gives information on foreign objects, and tells how to eliminate such objects from operational areas.
- 150/5380-6 Guidelines and Procedures for Maintenance of Airport Pavements (12-3-82). (AAS-200).  
Provides guidelines and procedures for maintenance of rigid and flexible airport pavements. (87.00 Supt. Docs.) SN 050-007-00627-6.
- 150/5390-1B Heliport Design Guide (8-22-77). (AAS-100).  
Contains design guidance material for the development of heliports, both surface and elevated.
- 150/5390-1B Chg. 1 (5-18-79).  
Transmits revisions to the recommended quantities of fire extinguishing agents for ground-level heliports and to guidance on offshore helicopter facilities.
- 150/5390-1B Chg. 2 (7-28-86).

#### AIR NAVIGATIONAL FACILITIES

Subject No. 170

- 170-6C Use of Radionavigation Land Test Station and Signal Generators (2-13-81). (AES-500).  
Gives information as to the frequencies on which the FAA will authorize and the FCC will license radionavigation land test stations. It also discusses the interference potential of signal generators operating in aeronautical bands of the radio spectrum and how this interference can be alleviated.
- 170-9 Criteria for Acceptance of Ownership and Servicing of (Civil Aviation Interest(s) Navigational and Air Traffic Control Systems and Equipment (11-26-68). (APM-11).  
Contains a revised FAA policy under which the FAA accepts conditional ownership of equipment and systems from civil aviation

interests, without the use of Federal funds, and operates, maintains, and provides the logistic support of such equipment.

170-11 Amendment of Federal Aviation Regulation Part 171 (FAR-171)--Cost of Flight and Ground Inspections (9-17-70). (APM-11).

Alerts the public to the amendment to FAR Part 171 pertaining to the payment of ground and flight inspection charges prior to the issuance of an approved IFR procedure.

170-13 Approach Lighting System Configurations and Energy Conservation (9-6-77). (APM-11).

Advises interested persons of the agency's plan for the next several years to improve federally owned approach light systems installed on instrument approach runways by adding low-impact resistance structures and reducing energy consumption.

#### ADMINISTRATIVE

Subject No. 180

183-32E FAA Designated Maintenance Technician Examiner Directory (4-24-86). (AVN-133).

Transmits a consolidated directory of Designated Mechanic Examiners (DMEs) (appendix 1) and Designated Parachute Rigger Examiners (DPREs) (appendix 2), as of April 16, 1986, under the authority of Federal Aviation Regulation Part 183.

183-33A Designated Airworthiness Representatives (10-1-85). (AWS-206).

Contains information and guidance concerning the selection and appointment of Designated Airworthiness Representatives (DAR's), and identifies the specific functions which may be delegated to them.

183-34 FAA Designated Airworthiness Representatives (Maintenance and Manufacturing) Directory (5-9-86). (AVN-133).

Transmits a consolidated directory of Designated Airworthiness Representatives (DAR's) for both Maintenance (appendix 1) and Manufacturing (appendix 2), as of April 16, 1986, under the authority of Federal Aviation Regulation Part 183.

++183-35 FAA Designated Airworthiness Representatives (DAR's), Designated Alteration Stations (DAS's) and Delegation Option Authorization (DOA) Directory (5-26-87). (AVN-130).

Transmits a consolidated directory of subject directory as of March 13, 1987, designated under the authority of Federal Aviation regulations (FAR) Parts 21 and 183.

++183-29-1V Designated Engineering Representatives (7-9-87). (AVN-113).

Lists Designated Engineering Representatives who are available for consulting work. DERs, as direct representatives of the Federal Aviation Administration, are privileged to approve engineering or flight test information as complying with the Federal Aviation Regulations (within particular categories and subject to prescribed limitations).

#### FLIGHT INFORMATION

Subject No. 210

210-5A Military Flying Activities (8-1-80). (ATO-330).

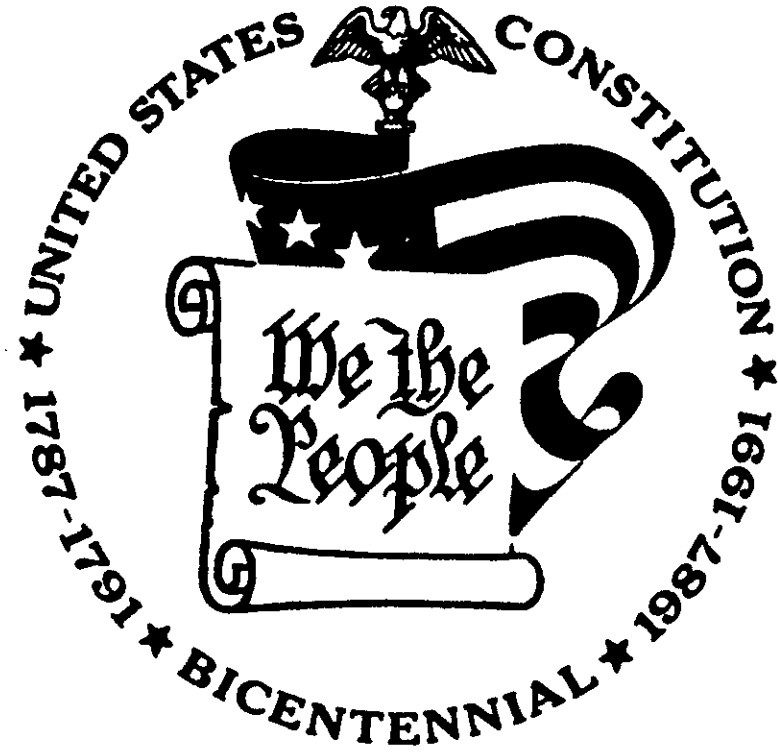
Presents information about military flying activities in the National Airspace System, describes the various types of routes and areas allocated for this purpose, and explains how information on the location and status of these routes and areas can be obtained.

211-2 Recommended Standards for IFR Aeronautical Charts (3-20-87). (ATO-250).

Sets forth standards recommended by the Federal Aviation Administration for the guidance of the public in the issuance of IFR aeronautical charts for use in the National Airspace System (NAS).

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## APPENDIX IV

## ALPHABETICAL LIST OF ADVISORY CIRCULARS

This list ignores the "The" "A", and "FAA" in creating an alphabetical order (Acronym shown after each listing indicates the routing symbol of the Office of Primary Interest (OPI). Each Title is shown alphabetically succeeding the identification number.

NUMBER -- TITLE IS LISTED ALPHABETICALLY

A

43.13-1A  
-- Acceptable Methods, Techniques and Practices--Aircraft Inspection and Repair (4-17-72). (AVN-110). (88.00--Supt. Docs.) SN 050-007-00461-3.

43.13-2A  
-- Acceptable Methods, Techniques, and Practices--Aircraft Alterations (6-9-77). (AFS-340). (85.50 Supt. Docs.) SN 050-007-00625-0. (Includes Chg. 1).

20-60  
-- Accessibility to Excess Emergency Exits (7-18-68). (ANM-110A).

90-34  
-- Accidents Resulting from Wheelbarrowing In Tricycle Gear Equipped Aircraft (2-27-68). (AFS-825).

150/5100-10A  
-- Accounting Records Guide for Airport Aid Program Sponsors (4-13-76). (APP-500).

91-48  
-- Acrobatics--Precision Flying With a Purpose (6-29-77). (AFS-820).

25.672-1  
-- Active Flight Controls (11-15-83). (ANM-110B).

135-7  
-- Additional Maintenance Requirements for Aircraft Type Certificated for Nine or Less Passenger Seats; FAR 135: (10-24-78). (AFS-350).

121-25  
-- Additional Weather Information: Domestic and Flag Air Carriers (9-16-77). (AFS-224).

150/5000-3K  
-- Address List for Regional Airports Divisions and Airports District/Field Offices (9-1-87). (ARP-11).

150/5200-24  
-- Address List of State Offices of Emergency Medical Services (10-11-77). (AAS-100).

43-4  
-- Advanced Ground Instructor Written Test Guide, 1980 (4-28-80). (AFS-310).-- (6 5.50 Supt. Docs.) SN 050-007-00555-5.

120-45  
--Advanced Training Devices (Airplane Only) Evaluation and Qualification (5-11-87). (AS0-205).

00-2.1  
-- Advisory Circular Checklist (10-15-87). (AMS-420).

20-123  
-- Advoding Or Minimizing Encounters With Aircraft Equipped With Depleted Uranium Balance Weights During Accident Investigations (12-20-84). (AFS-330).

137-1  
-- Agricultural Aircraft Operations (11-29-65). (AFS-820).

60-11A  
-- Aids Authorized for Use by Airman Written Test Applicants (12-14-79). (AFS-5).

120-36  
-- Air Carrier Dispersal Planning Program (6-5-78). (ATF-10).

120-44  
--Air Carrier First Aid Programs (4-17-87). (AFS-220).

108-1  
-- Air Carrier Security (10-16-81). (ACS-3). (83.75 Supt. Docs.) SN 050-007-00642-0.

135-38  
-- Air Taxi Operators and Commercial Operators (12-1-78). (Consolidated reprint includes changes 1 and 2). (AFS-250).

90-65A  
-- Air Traffic Fuel Economy Program (8-21-80). (AT0-370).

120-32  
-- Air Transportation of Handicapped Persons (3-25-77). (AFS-223).

120-34  
-- Air Transportation of Mental Patients (6-29-77). (AFS-223).

150/5340-27A  
-- Air-to-Ground Radio Control of Airport Lighting Systems (3-4-86). (AAS-200).

20-67B  
-- Airborne VHF Communications Equipment Installations (1-16-86). (AUS-120).

150/5220-9  
-- Aircraft Arresting System for Joint Civil/  
Military Airports (4-6-70). (AAS-300).

150/5325-5C  
--Aircraft Data (6-29-87). (AAS-100).  
20-103  
-- Aircraft Engine Crankshaft Failure (3-7-78).  
(AFS-340).

33-2A  
-- Aircraft Engine Type Certification Handbook  
(6-5-72). (ANE-105).

150/5210-6C  
-- Aircraft Fire and Rescue Facilities and  
Extinguishing Agents (1-30-85). (AAS-100).

150/5210-7B  
-- Aircraft Fire and Rescue Communications  
(4-30-84). (AAS-120).

20-43C  
-- Aircraft Fuel Control (10-20-76). (AWS-120).

150/5230-4  
-- Aircraft Fuel Storage, Handling, and  
Dispensing On Airports (8-27-82). (AAS-300).

00-34A  
-- Aircraft Ground Handling and Servicing  
(7-29-74). (AFS-340).

20-73  
-- Aircraft Ice Protection (4-21-71). (AWS-140).

20-106  
-- Aircraft Inspection for the General Aviation  
Aircraft Owner (April 1978). (AWS-3). (\$5.00  
Supt. Docs.) SN 050-007-00449-4.

20-37C  
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-- Specification for Constant Current Regulators Regulator Monitors (10-16-84). (AAS-200).

150/5345-51

-- Specification for Discharge-Type Flasher Equipment (8-14-81). (AAS-200).

150/5345-3D

-- Specification for L-821 Panels for Remote Control of Airport Lighting (8-8-86). (AAS-200).

150/5345-26B

-- Specification for L-823 Plug and Receptacle, Cable Connectors (1-28-81). (AAS-200).

150/5345-7D

-- Specification for L-824 Underground Electrical Cable for Airport Lighting Circuits (5-19-81). (AAS-200).

150/5345-13A

-- Specification for L-841 Auxiliary Relay Cabinet Assembly for Pilot Control of Airport Lighting Circuits (8-8-86). (AAS-200).

150/5345-43C

-- Specification for Obstruction Lighting Equipment (6-10-80). (AAS-200).

150/5345-5D

-- Specification for Portable Runway Lights (10-16-78). (AAS-200).

150/5345-46A

-- Specification for Runway and Taxiway Light Fixtures (6-7-84). (AAS-200).

150/5345-44D

-- Specification for Taxiway and Runway Signs (4-30-84). (AAS-200).

- 150/5345-27C  
-- Specification for Wind Cone Assemblies (7-19-85). (AAS-200).
- 105-2A  
-- Sport Parachute Jumping (4-11-79). (AFS-82D).
- 21-13  
-- Standard Airworthiness Certification of Surplus Military Aircraft and Aircraft Built from Spare and Surplus Parts (4-5-73). (AWS-200).
- 121-1A  
-- Standard Operations Specifications-- Aircraft Maintenance Handbook (6-26-73). (AFS-530).
- 150/5335-5  
-- Standardized Method of Reporting Airport Pavement Strength--PCN (6-15-83). (AAS-200).
- 150/5340-18B  
-- Standards for Airport Sign Systems (8-21-84). (AAS-200).
- 150/5370-10  
-- Standards for Specifying Construction of Airports (10-24-74). (AAS-200). (\$12.00 Supt. Docs.) SN 050-007-00264-5. (Changes free from FAA).
- 150/5340-17B  
-- Standby Power for Non-FAA Airport Lighting Systems (1-6-86). (AAS-200).
- 00-7B  
-- State and Regional Disaster Airlift (SARDA) Planning (8-31-87). (ARP-130).
- 23-4  
--Static Strength Substantiation of Attachment Points for Occupant Restraint System Installations (6-20-86). (ACE-111).
- 20-3C  
-- Status and Availability of Military Handbooks and ANC Bulletins for Aircraft (6-1-73). (AWS-110).
- 00-44X  
-- Status of the Federal Aviation Regulations (7-1-86). (AGC-206).
- 90-75  
-- Strobe Light System Inspection Practices (2-10-77). (AFS-310).
- 23-3  
Structural Substantiation of Secondary Structures (7/5/85). (ACE-111).
- 61-12J  
-- Student Pilot Guide (Revised 1979). (AVN-11E). (\$4.25 Supt. Docs.) SN 050-007-00476-1.
- 23-7  
--Substantiation for an Increase in Maximum Weight, Maximum Landing Weight, or Maximum Zero Fuel Weight (7-1-87). (ACE-100).
- 23.955-1  
-- Substantiating Flow Rates and Pressures in Fuel Systems of Small Airplanes (6-10-85). (ACE-111).
- 20-41A  
-- Substitute Technical Standard Order (TSO) Aircraft Equipment (4-5-77). (AWS-120).
- 91-5b  
-- Supplemental Structural Inspection Program For Large Transport Category Airplanes (5-6-81). (AFS-310).
- 150/5340-23A  
-- Supplemental Wind Cones (6-24-75). (AAS-200).
- 21-20  
-- Supplier Surveillance Procedures (7-22-82). (AWS-200).
- 33.65-1  
-- Surge and Stall Characteristics of Aircraft Turbine Engines, 12/6/85. (ANE-110).
- 20-9b  
-- Surplus Military Aircraft--A Briefing for Prospective Buyers (12-2-76). (AWS-200).
- 120-47  
-- Survival Equipment for Use In Overwater Operations (6-12-87). (AFS-220).
- 25.1309-1  
-- System Design Analysis (9-7-82). (AWS-111).
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- 150/5340-19  
-- Taxiway Centerline Lighting System (11-14-88). (AAS-200).
- 20-33B  
-- Technical Information Regarding Civil Aeronautics Manuals 1, 3, 4a, 4b, 5, 6, 7, 8, 9, 13 and 14. (5-1-75). (AWS-200).
- 91-63  
-- Temporary Flight Restrictions (TFR) (4-15-85). (ATO-230).
- 90-83  
-- Terminal Control Areas(TCA) (12-19-83). (ATO-320).
- 37-2A  
-- Test Procedures for Maximum Allowable Airspeed Indicators (10-22-74). (AWS-130).
- 00-24B  
-- Thunderstorms (1-20-83). (AFS-26D).
- 20-35C  
-- Tie-Down Sense (7-12-83). (AFS-340).

10/15/87

A C 00-2.1  
APPENDIX IV

90-420  
-- Traffic Advisory Practices at Nontower Airports (4-15-85). (ATO-230).  
25-11  
--Transport Category Airplane Electronic Display Systems (7-16-87). (ANM-110B).

120-38  
-- Transport Category Airplanes Cabin Ozone Concentrations (10-10-80). (AFS-260).

91-37A  
-- Truth in Leasing (1-16-78). (AFS-820).

33-3  
-- Turbine and Compressor Rotors Type Certification Substantiation Procedures (9-9-68). (AWS-140).

33-1B  
-- Turbine-Engine Foreign Object Ingestion and Rotor Blade Containment Type Certification Procedures (4-22-70). (AWS-140).

21.17-1  
--Type Certification--Airships (9-30-87). (AWS-110).

21.23-1  
-- Type Certification-Fixed-Wing Gliders (Sailplanes) (1-12-81). (AWS-120).

61-57A  
-- Type Rating, Airplane, Flight Test Guide (5-1-75). (AVN-132). (4.25 Supt. Docs.) SN 050-007-00259-8.

U

20-65  
-- U.S. Airworthiness Certificates and Authorizations for Operation of Domestic and Foreign Aircraft (8-11-69). (AWS-200).

103-6  
-- Ultralight Vehicle Operations-Airports, ATC, and Weather (6-23-83). (ATO-230).

103-7  
-- Ultralight Vehicle; The (1-30-84). (AFS-820).

43-7  
-- Ultrasonic Testing for Aircraft (9-24-74). (AFS-310). (4.75 Supt. Docs.) SN 050-007-00282-3.

00-31A  
-- United States (U.S.) National Aviation Standard for the VOR/DME/TAC Systems (9-20-82). (APM-420).

91-43  
-- Unreliable Airspeed Indications (6-26-75). (AFS-223).

23.959-1  
-- Unusable Fuel Test Procedures for Small Airplanes (1-14-85). (ACE-111).

120-46  
-- Use of Advanced Training Devices (Airplane Only) (6-12-87). (AFS-260).

21-21  
-- Use Of Automobile Gasoline In Agricultural Aircraft (8-24-84). (AWS-200).

20-29B  
-- Use of Aircraft Fuel Anti-icing Additives (1-18-72). (AWS-120).

91-33A  
-- Use of Alternate Grades of Aviation Gasoline for Grade 80/87 and Use of Automotive Gasoline (7-18-84). (ANE-110).

61-47A  
-- Use of Approach Slope Indicators for Pilot Training (3-26-79). (AFS-840).

91-62  
-- Use of Child/Infant Seats In Aircraft (2-26-85). (AWS-120).

61-92  
-- Use of Distractions During Pilot Certification Flight Tests (1-25-80). (AFS-5).

20-77  
-- Use of Manufacturers' Maintenance Manuals (3-22-72). (AFS-310).

150/5370-11  
-- Use of Nondestructive Testing Devices in the Evaluation of Airport Pavements (6-4-76). (AAS-200).

91-88  
-- Use of Oxygen by Aviation Pilots/ Passengers (4-7-82). (AFS-5).

91-47  
-- Use of Portable Electronic Devices--Radio Receivers (3-23-77). (AFS-330).  
91-58  
-- Use of Pyrotechnic Visual Distress Signaling Devices in Aviation (5-27-82). (AFS-820).

170-6C  
-- Use of Radionavigation Land Test Station and Signal Generators (2-13-81). (AES-500).

20-127  
--Use of Society of Automotive Engineers (SAE) Class H11 bolts (7/8/87). (ANM-110B).

91-65  
--Use of Shoulder Harness In Passenger Seats (8-4-86). (AFS-829).

150/5300-4B  
-- Utility Airports--Air Access to National Transportation (6-24-75). (AAS-100). (45.50 Supt. Docs.) SN 050-007-00630-6.

V

91-36C  
-- VFR Flight Near Noise-Sensitive Areas  
(10-19-84). (AT0-238).

90-50C  
-- VHF Radiofrequency Assignment Plan for  
Aeronautical Operations (3-10-86). (AES-500).

90-58C  
-- VOR Course Errors Resulting from 50 kHz  
channel Mis-Selection (4-7-75). (AFS-310).

20-66  
-- Vibration Evaluation of Aircraft Propellers  
(1-29-70). (AUS-140).

W

101-1A  
-- Waivers of Part 101, Federal Aviation  
Regulations (6-3-81). (AT0-223).

91-5C  
-- Waivers of Subpart B, Part 91 of the Federal  
Aviation Regulations (FARs) (12-21-82).  
(AT0-220).

91-45B  
-- Waivers--Airshow/Contests/Races (8-5-81).  
(AFS-820).

25.1455-1  
-- Waste Water/Potable Water Drain System  
Certification (3-11-85). (ANM-112).

150/5210-13  
-- Water Rescue Plans, Facilities, and Equipment  
(5-9-72). (AAS-300).

20-125  
--Water in Aviation Fuels (12-10-85). (AFS-340).

20-124  
--Water Ingestion Testing for Turbine Powered  
Airplanes (9-30-85). (ANM-112).

150/5220-4A  
-- Water Supply Systems for Aircraft Fire and  
Rescue Protection (12-11-85). (AAS-120).

91-6A  
-- Water, Slush, and Snow on the Runway  
(5-24-78). (AFS-5).

141-2A  
-- Written Tests Prepared by Pilot Schools With  
Examining Authority Under Part 141 (Revised) of  
the Federal Aviation Regulations (10-3-75).  
(AVN-132).

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## APPENDIX V

Other FAA Published Documents Of Interest To  
The General Public And The Aviation Community

## INTERNAL PUBLICATIONS

++Air Traffic Control Handbook, 7110.65E  
(5-1-87).

Prescribes air traffic control procedures and phraseology for use by personnel providing air traffic control services. Controllers are required to be familiar with the provisions of this handbook which pertain to their operational responsibility and to exercise their best judgment if they encounter situations not covered by it. (Sub. \$40.00 domestic, \$50.00 foreign--Supt. Docs.) SN 950-002-00000-0. (AT0-300).

## ++Chg. 1 (7-30-87).

## Contractions, 7340.1J (6-1-86).

Gives approved word and phrase contractions used by personnel connected with air traffic control, communications weather, charting, and associated services. (Sub. \$28.00 domestic, \$35.00 foreign--Supt. Docs.) SN 950-003-00000-6 (AT0-300).

## Chg. 1 (10-1-86).

## ++Chg. 2 (12-5-86).

## ++Chg. 3 (5-1-87).

## ++Chg. 4 (10-1-87).

## Data Communications, 7110.80C (5-8-86).

Provides procedures for use by personnel providing communications service. It contains Services A and B teletypewriter operating procedures, and the U.S. Service A Weather Schedules. (Sub. \$34.00 domestic, \$42.50 foreign--Supt. Docs.) SN 950-004-00000-2 (AT0-210).

## Chg. 1 (8-28-86).

## Chg. 2 (4-9-87).

## ++Chg. 3 (7-30-87).

## Flight Services, 7110.10H (5-8-86).

Prescribes procedures and phraseology for use by personnel providing flight assistance services. (Sub. \$46.00 domestic, \$47.50 foreign--Supt. Docs.) SN 950-032-00000-6 (AT0-300).

## Chg. 1 (8/28/86).

## Chg. 2 (5-1-87).

## ++Chg. 3 (7-30-87).

## ++Location Identifiers 7350.5-R (11-19-87).

Lists location identifiers authorized by the Federal Aviation Administration, Department of the Navy, and Canadian Ministry of Transport.

Also lists United States airspace fixes and procedure codes and includes guidelines for requesting identifiers and procedures for making assignments. Subscription service consists of three basic manuals issued every 112 days and one change per basic (issued 56 days after issuance basic). Effective date will coincide with aeronautical charting date. (Sub. \$21.00 domestic, \$31.50 foreign--Supt. Docs.) TD 4.310: SN 950-035-00000-5 (AT0-210).

Oceanic Air Traffic Control, 7110.83A  
(1/16/86).

Prescribes standards and practices for providing air traffic services in international oceanic airspace delegated to the United States by the International Civil Aviation Organization. (\$ ... Supt. Docs.) SN . Not Priced.

United States Standard for Terminal Instrument  
Procedures (TERPS), 8260.3B (July 1976).

Contains criteria which shall be used to formulate, review, approve, and publish procedures for instrument approach and departure of aircraft to and from civil and military airports. These criteria are for application at any location over which an appropriate U.S. agency exercises jurisdiction. (\$7.00 single copy, Supt. Docs.) (Changes sold separately as issued.) SN 050-007-00345-5. (AF0-730)

## Chg. 1 (2-6-79).

Adds new Table B, Effect of HAT/HAA on Visibility Minimums (Chap. 2) and adds new Chapter 12, Departure Procedures. (\$6.00 Supt. Docs.) SN 050-007-00488-5.

Chg. 2 (10-79) (\$1.75 Supt. Docs.) SN  
050-007-00498-2.Chg. 3 (6-3-80) (\$4.75 Supt. Docs.) SN  
050-007-00545-8.Chg. 4 (4-1-83) (\$4.00 Supt. Docs.) SN  
050-007-00635-7.Chg. 5 (11-15-83) (\$1.50 Supt. Docs.) SN  
050-007-00671-3.Chg. 6 (1-27-84) (\$1.00 Supt. Docs.) SN  
050-007-00675-6.Chg. 7 (12-6-84) (\$1.50 Supt. Docs.) SN  
050-007-00693-4.Chg. 8 (3-24-86) (\$1.50 Supt. Docs.) SN  
050-007-00740-0.

## FLIGHT INFORMATION

## Airman's Information Manual:

++Basic Flight Information and ATC Procedures  
(7-30-87).

This part is issued every 16 weeks and contains basic fundamentals required to fly in the U.S. National Airspace System. Among other



data it also contains adverse factors affecting Safety of Flight; Health and Medical Facts of interest to pilots; ATC information affecting rules, regulations and procedures; a Pilot/Controller Glossary; Air Defense Identification Zones (ADIZ); Designated Mountainous Areas; and Emergency Procedures. (Annual Sub. \$20.00 domestic; \$25.00 foreign--Supt. Docs.) SN 750-001-00000-9. (AT0-210)

**Notices to Airmen (Class II)**

Issued every 14 days and contains current Notices to Airmen considered essential to the safety of flight as well as supplemental data to aeronautical publications. (Annual subscription \$66.00 domestic, \$82.50 foreign--Supt. Docs.) SN 750-004-00000-8. (AT0-210)

**Airport/Facility Directory.**

Provides information on each airport's associated city and State, runway characteristics, lighting communications, and radio nav aids. Published and sold by the National Ocean Survey in seven volumes each covering a specific geographic area of the conterminous United States. For prices and subscription rates write to:

Distribution Division (C44)  
Office of Aeronautical Charting  
and Cartography  
National Ocean Survey, NOAA  
Riverdale, Maryland 20804  
(Phone 301-436-6990)

**++International Flight Information Manual, Vol. 35 (April 1987)**

This Manual is primarily designed as a preflight and planning guide for use by U.S. nonscheduled operators, business and private aviators contemplating flights outside of the United States.

The Manual, which is complemented by the International Notices to Airmen publication, contains foreign entry requirements, a directory of aerodromes of entry including operational data, and pertinent regulations, and restrictions. It also contains passport, visa, and health requirements for each country. Published annually with quarterly amendments. (Annual Sub. \$27.00 domestic, \$33.75 foreign--Supt. Docs.) SN 950-034-00000-9 (AT0-213-D).

**++International Notices to Airmen**

Covers foreign NOTAM data and associated navigational data generally classified as "Special Notices." Published biweekly. (Annual Sub. \$29.00 domestic, \$36.25 foreign--Supt. Docs.) SN 750-003-00000-1. (AT0-213D).

**United States Aeronautical Information Publication, Tenth Edition, (9-26-85).**

This is a comprehensive aeronautical publication containing regulations and data required for safe aircraft operations in the U.S. National Airspace System (NAS). It is produced in accordance with the recommended standards of the International Civil Aviation Organization (ICAO). (Sub. \$65.00 domestic, \$81.25 foreign--Supt. Docs.) SN 950-001-00000-3. (AT0-210).

Chg. 1 (1-1-86).

Chg. 2 (5-6-86).

Chg. 3 (8-28-86).

++Chg. 5 (4-9-87).

++Chg. 6 (7-30-87).

++Chg. 7 (11-19-87).

**PRODUCTION/DESIGN APPROVALS**

**Parts Manufacturer Approvals, 1984**

This publication is a 24x microfiche listing of parts manufacturer approvals (PMA) which have been issued under the requirements described in Part 21, Subpart K, of the Federal Aviation Regulations. These approvals are of interest to mechanics, operators of repair stations, and others engaged in altering, inspecting, or maintaining aircraft who need to determine whether certain modification or replacement parts are eligible for installation on type certificated products. Republished annually. (\$23.00 domestic, \$28.75 foreign-- Supt. Docs.) SN 050-007- 00690-0. (AVN-113).

**Summary of Supplemental Type Certificates, April 1986**

Contains all supplemental type certificates issued by FAA regarding design changes in aircraft, engines, or propellers. List includes description of change, the model and type certificate number, the supplemental type certificate number, and the holder of the change. Semi-annual Supplements provided. Sub. \$58.00 domestic, \$72.50 foreign--Supt. Docs.) TD 4.36:980. (AVN-113).

**Type Certificate Data Sheets and Specifications**

Type Certificate Data Sheets and Specifications (TC Data Sheets) are compiled by FAA from information supplied by the manufacturer. The TC Data Sheets describe the type design and set forth the limitations prescribed by the applicable Federal Aviation Regulations. They also include any other limitations and information found necessary for type certification of a particular product. They are also sold through Supt. Docs. on Microfiche. (Sub. \$76.00 domestic, \$95.25 foreign).

Vol. I Single Engine Airplanes (Sub. \$114.00 domestic, \$142.50 foreign--Supt. Docs.) SN 950-048-00000-0.

Vol. II Small Multiengine Airplanes (Sub. \$109.00 domestic, \$136.25 foreign--Supt. Docs.) SN 950-049-00000-6.

Vol. III Large Multiengine Airplanes (Sub. \$114.00 domestic, \$142.50 foreign--Supt. Docs.) SN 950-050-00000-4.

Vol. IV Rotorcraft, Gliders, and Balloons (Sub. \$109.00 domestic, \$136.25 foreign--Supt. Docs.) SN 950-051-00000-1.

Vol. V Aircraft Engines and Propellers (Sub. \$107.00 domestic, \$133.75 foreign--Supt. Docs.) SN 950-052-00000-7.

Vol. VI Aircraft Listing and Aircraft Engine and Propeller Listing (SN 050-007-00631-4) (Single Copy \$11.00 domestic, \$14.00 foreign--Supt. Docs.).

Volumes I, II, III, IV, and V are sold on a subscription basis and monthly supplementary service is included in the sale price.

Volume VI is sold on a single-sale basis and will be issued as a revised edition when sufficient changes warrant. (\$10.00 Supt. Docs.) SN 050-007-00360-9. (AWS-111/AVN-113).

Renewal prices for current subscribers of Vols. I and II will be \$98.00 domestic, \$122.50 foreign; Vol. III, \$102.00 domestic, \$127.50 foreign; Vol. IV, \$98.00 domestic, \$122.50 foreign; Vol. V, \$94.00 domestic, \$117.50 foreign effective with the January 1987 supplements.

#### AIRWORTHINESS INFORMATION

The Summary of Airworthiness Directives-- Volumes I and II (Containing books 1 & 2), Biweekly listing (Supplements to the AD's) and the Summary Index are sold and distributed for the Superintendent of Documents by the Federal Aviation Administration from Oklahoma City, Oklahoma. Requests for subscriptions to either of these publications should be sent to:

U.S. Department of Transportation, Federal Aviation Administration, P.O. Box 25461, Attn: AAC-23, Oklahoma City, Okla. 73125.

Subscription service consists of the summary and automatic biweekly updates to each summary for a 2-year period. Make certified checks or money orders payable to Federal Aviation Administration. AD's are also sold on Microfiche. (Sub. \$70.00 domestic, \$87.50 foreign).

Summary of Airworthiness Directives for Small Aircraft Volume I (1984).

Present, in volume form, all the Airworthiness Directives for small aircraft issued after 1970. AD's for engines, propellers, and equipment are included in each volume. Each volume is arranged alphabetically by product manufacturer. (\$4.00 domestic, \$105.00 for foreign handling.) SN 050-007-81037-4.

Summary of Airworthiness Directives for Large Aircraft Volume II (1984).

Presents, in volume form, all the Airworthiness Directives for large aircraft (over 12,500 pounds maximum certificated takeoff weight) issued after 1970. AD's for engines, propellers, and equipment are included in each volume. (\$85.00 domestic, \$106.25 for foreign handling.) SN 050-007-81038-2.

VFR/IFR Exam-0-Grams

Brief, timely, and graphic articles developed and published on a continuing basis, Pilot Exam-0-Grams, FAA-P-8080-1, are non-directive in nature and are issued as an information service, particularly to individuals interested in FAA Airman Written Tests. They relate to concepts, practices, and procedures critical to aviation safety, common misconceptions among pilot applicants, and areas which cause difficulty in written tests. (Sub. \$20.00 domestic, \$25.00 foreign--Supt. Docs.) Renewals \$7.00 domestic; \$8.75 foreign List ID; IVPEG.

Chg. 1 (9/85).

#### FAA WRITTEN TEST QUESTION BOOKS

FAA-T-8080-1A, Private Pilot Question Book (11-12-85). eff. March 1986. (AVN-131).

Developed by the FAA to be used by testing centers and FAA designed written test examiners when administering all categories of Private Pilot written tests. It serves as an official test book as well as test guide for applicant study. (\$5.00 Supt. Docs.) SN 050-007-00648-9.

FAA-T-8080-2A, Commercial Pilot Question Book (12-20-85). eff. March 1986 (AVN-131).

Developed by the FAA for use by applicants who are preparing for the Commercial Pilot Rating Written Test and also for use by the FAA testing centers and FAA designated written test examiners in administering the test. It serves as an official test book as well as test guide for applicant study. (\$6.50 Supt. Docs.) SN 050-007-00731-1.

FAA-T-8080-3A, Flight Instructor Question Book (10-24-85). eff. March 1986 (AVN-131).

Used by FAA testing centers and FAA designated written test examiners when administering all categories of Flight Instructor written tests. It serves as an official test book as well as test guide for applicant study. (\$3.25 Supt. Docs.) SN 050-007-00719-1.

FAA-T-8080-4A, Fundamentals of Instructing and Ground Instructor Basic--Advanced Question Book (11-12-85). eff. March 1986 (AVN-131).

Developed for use by applicants who are preparing for the Fundamentals of Instructing and Basic or Advanced Ground Instructor written test and also used by FAA testing centers and FAA designated written test examiners in administering these tests. (\$4.50 Supt. Docs.) SN 050-007-07201-5.

**FAA-T-8080-5A, Airline Transport Pilot Airplane--FAR 121 Aircraft Dispatcher, Flight Navigator Question Book (9/1/85). (AVN-131).**

Developed by the FAA for use by applicants who are preparing for the Airline Transport Pilot Airplane--FAR Part 121, Aircraft Dispatcher, and Flight Navigator written test and also for use by FAA testing centers and FAA designated written test examiners in administering those tests. It serves as an official test book as well as test guide for applicant study. (\$8.00 Supt. Docs.) SN 050-007-00652-7.

**FAA-T-8080-6B, Airline Transport Pilot FAR 135 Question Book (10-31-85). eff. March 1986 (AVN-131).**

Developed to be used by FAA testing centers and FAA designated written test examiners when administering the ATP--Airplane (FAR Part 135), ATP--Helicopter (VFR) and (IFR), ATP--Gyroplane (VFR) written tests. It serves as an official test book as well as test guide for applicant study (\$9.50 Supt. Docs.) SN 050-007-00721-3.

**FAA-T-8080-7A, Instrument Rating Question Book (12-3-85). eff. March 1986 (AVN-131).**

Developed by the FAA for use by applicants who are preparing for the Instrument Rating Written Test and for use by FAA testing centers and FAA designated written test examiners in administer the test. It serves as an official test book as well as test guide for applicant study. (\$9.00 Supt. Docs.) SN 050-007-00732-9.

**FAA-T-8080-8A, Flight Engineer Question Book (10-31-85). eff. March 1986 (AVN-131).**

Used by FAA testing centers and FAA written test examiners when administering the Flight Engineer written test. It serves as an official test book as well as test guide for applicant study. (\$8.00 Supt. Docs.) SN 050-007-00722-1.

**FAA-T-8080-9, Parachute Rigger Question Book (10-24-85). eff. March 1986 (AVN-133).**

Developed by the FAA for use by applicants who are preparing for the Parachute Rigger Written Test and also for use by FAA Testing Centers and FAA Designated Written Test Examiners in administering the test. It serves as an official test book as well as a test guide for applicant study. (\$1.25 Supt. Docs.) SN 050-007-00735-3.

**FAA-T-8080-10A, Aviation Mechanic--General Question Book (9-23-85). eff. March 1986 (AVN-133B).**

Developed by the FAA for use by applicants who are preparing for the Aviation Mechanic General Written Test and also for use by FAA testing centers and FAA designated written test examiners in administering the test. It serves as an official test book as well as test guide for applicant study. (\$2.75 Supt. Docs.) SN 050-007-00723-0.

**FAA-T-8080-11A, Aviation Mechanic Powerplant Question Book (9-23-85). eff. March 1986 (AVN-133B).**

Developed by the FAA for use by applicants who are preparing for the Aviation Mechanic Powerplant Written Test and also for use by FAA testing centers and FAA designated written test

examiners in administering the test. It serves as an official test book as well as test guide for applicant study. (\$3.50 Supt. Docs.) SN 050-007-00724-8.

**FAA-T-8080-12A, Aviation Mechanic Airframe Question Book (9-23-85). eff. March 1986 (AVN-133).**

Developed by the FAA for use by applicants who are preparing for the Aviation Mechanic Airframe Written Test and also for use by FAA testing centers and FAA designated written test examiners in administering the test. It serves as an official test book as well as test guide for applicant study. (\$2.50 Supt. Docs.) SN 050-007-00725-6..

#### FAA PRACTICAL TEST STANDARDS

**FAA-S-8081-1, Private Pilot-- Practical Test Standards (5-17-84). (Consolidated reprint (JAN. 1987) includes Change 1). (AVN-131).**

Contains the standards which establish the practical test requirements for private pilot certification in all aircraft categories and associated classes. To be used by FAA inspectors and designated pilot examiners when conducting airman practical tests (oral and practical). Flight instructors and applicants will find these standards helpful in practical test preparation. (\$18.00 domestic, \$22.50 foreign-- Supt. Docs.) List ID: PPTS-1A.

Chg. 1 (9/1/85).

**FAA-S-8081-2, Commercial Pilot Practical Test Standards, July 1985, effective 8/1/85. (AVN-132).**

Contains the standards which establish the practical test requirements for commercial pilot certification in all aircraft categories and associated classes. To be used by FAA inspectors and designated pilot examiners when conducting airman practical tests (oral and practical). Flight instructors and applicants will find these standards helpful in practical test preparation. (\$21.00 domestic, \$26.25 foreign-- Supt. Docs.) SN 950-056-00000-

Chg. 1 (July 1986).

**FAA-S-8081-3 (Not Published).**

**FAA-S-8081-4, Instrument Rating Practical Test Standards, July 1986, effective 9/12/86. (AVN-131). Note: (Supersedes AC 61-56A & AC 61-64A on 7/31/87).**

Contains the standards which establish the practical test requirements for instrument rating certification in all aircraft categories and associated classes. To be used by FAA inspectors and designated pilot examiners when conducting airman practical tests (oral and practical). Flight instructors and applicants will find these standards helpful in practical test preparation. (\$14.00 Supt. Docs.) SN 950-060-00000-0.

**FAA PRACTICAL TEST STANDARDS**  
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- \*\*\*FAA-S-8081-6, Flight Instructor Airplane Practical Test Standards for Single-Engine and Multiengine Airplanes (10-8-87). (AVN-131).
- \*\*\*FAA-S-8081-7, Flight Instructor Practical Test Standards for Rotocraft/Helicopter and Rotocraft/Gyroplane (10-8-87). (AVN-131).
- \*\*\*FAA-S-8081-8, Flight Instructor Practical Test Standards for Glider (10-8-87). (AVN-131).
- \*\*\*FAA-S-8081-9, Flight Instructor Practical Test Standards for Instrument Airplane and Rotocraft/Helicopter (10-8-87). (AVN-131).

**MISCELLANEOUS CATEGORY**

- Access TRAVEL, Airports: A Guide to accessibility of Terminals (1979)**  
Available from Supt. Docs. SN 050-007-00535-1;  
Price--\$45.00 package of 100.
- Airport Activity Statistics of the Certificated Route Air Carriers--Calendar Year Data (1985).**  
Title self explanatory. (\$23.00 Supt. Docs.)  
SN 050-007-00742-6. (AMS-420). Price may change.
- Aeronautical Science Course Study 6A-20-10, (1969).**  
Educational material. (\$3.05 Supt. Docs.) SN 050-007-00060-0 (AP0).
- Alcoholism and Drug Abuse Program.**  
Title self explanatory. (\$4.50 Supt. Docs.)  
SN 050-007-00466-4. (AAM).
- Aviation Weather System Plan (October 1985).**  
Describes the present aviation weather system, assesses airspace requirements, defines the requirements for the aviation weather system, and details and developmental programs to support implementation of a national aviation weather system. Also described are state aviation weather activities and weather programs/activities of their Government agencies.) (\$7.00 Supt. Docs.) SN 050-007-00670-5. (AP0).
- Bonfires to Beacons: Federal Civil Aviation Policy Under the Air Commerce Act, 1926-1938.**  
Examines the background to the passage of the first Federal civil aviation regulatory stature in 1926. (\$16.00 Supt. Docs.) SN 050-007-00419-2. (APA-4).
- Basic Glider Handbook (1962).**  
Provides individual glider designers, the glider industry, and glider operating organizations with guidance material that augments the glider airworthiness certification requirements of the Federal Aviation Regulations. (\$4.75 Supt. Docs.) SN 050-011-00004-6. (AWS-111).
- ++Census of U.S. Civil Aircraft, CY 1986.  
Provides statistical data on the registered civil fleet, air carrier aircraft, and general aviation aircraft both registered and active, detailed reports for general aviation aircraft by owner's state and county, and registered aircraft by make and model. (\$13.00 Supt. Docs.) SN 050-007-00758-2. (AMS-420).

**Caution: It is Illegal and Extremely Dangerous to take on Board an Airplane or Check With Your Luggage Any Hazardous Materials (Sept. 1979).**

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**The Cutting Air Crash.**

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**Design, Art, and Architecture--A Study of Airports (1981).**

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++FAA Air Traffic Activity, FY 86.

Furnishes terminal and en route air traffic activity information (i.e., operations, flight plans filed) of the National Airspace System. The data is from the FAA-operated Airport Traffic Control Towers, Air Route Traffic Control Centers, Flight Service Stations, and Approach Control Facilities. (\$11.00 Supt. Docs.) SN 050-007-00757-4. (AMS-420).

++FAA Aviation Forecasts--Fiscal Years 1987-1998, FAA-AP0-87-1 (1/87).

Provides forecasts of aviation at Federal Aviation Administration facilities. (\$6.50 Supt. Docs.) SN 050-007-00733-7. (AP0-110).

++FAA Directory (Current Edition).

Title self explanatory. Issued bi-annually. (\$ ...--Supt. Docs.) SN 050-007-00749-3 (AMS-420). Not priced as of 10/8/87.

++FAA Aviation News (Issued Bi-monthly).

Copies available from Supt. Docs. SN 750-002-00000-5. Sub. \$5.50 domestic, \$6.90 foreign. Single copy domestic \$1.00 and \$1.25 single copy foreign. (AFS-807).

**FAA Plan for Research, Engineering and Development --Volume I, Plan Overview (October 1985).**

Overview of FAA's RE&D plans into the 21st century. These plans/projects are first steps in evolution of National Airspace System Plan.

**FAA Plan for Research, Engineering and Development --Volume II, Plan Overview (October 1985).**

Description of RE&D Project Plans. Volumes I and II sold as a set. (---Supt. Docs.) SN 050-007-717-5)

++FAA Statistical Handbook of Aviation--Calendar Year 1985.

Serves as a convenient source for historical data on civil aviation activities, and to assist in evaluating progress. (\$..00 Supt. Docs.) SN 050-007-00...-. (AMS-420).

Fiber Composite Analysis and Design, Volumes I and II, (Current Edition).

Pertains to the analysis and design problems of fiber composites. (# Supt. Docs.) SN 050-007-00716-7).

Final Environmental Impact Statement--Comments and Responses--Metropolitan Washington Airport (1980).

Copies available from Supt. Docs. SN 050-007-00543-1. Basic \$17.00, Appendix, SN 050-007-00544-0, \$7.00.

General Aviation Activity an Avionics Survey, CY 85.

Presents the results of subject survey conducted to obtain information on the activity and avionics of the U.S. registered general aviation aircraft fleet. Reveals estimated flying time of the active general aviation aircraft, and other statistics by manufacturer/model group, aircraft type, state and region of based aircraft, and primary use. Estimates are included on fuel consumption, lifetime airframe hours, avionics, and engine hours. (#... Supt. Docs.) SN 050-007-00752-3 (AMS-420).

General Aviation Pilot Awareness Training Syllabus Spec. REOT. Abridged.

Copies available from Supt. Docs. SN 050-007-00470-2. Price--\$6.00.

Information Resources Management Plan (October 1985).

Vol. I: Strategic Overview-- provides the agency's planners a framework where the long-term goals for each agency information area are delineated, and the general direction to achieve those goals is addressed.

Vol. II: Systems Plan FY 86 - FY 90 (the 5-year tactical plan)-- provides a sound basis for both the executive and legislative branches to access funding needs properly. (Both Volumes \$15.00 - Supt. Docs.) SN 050-007-00691-8. Copies also available from FAA Headquarters (800 Independence Avenue, S.W., Washington, D.C., Room 723) on a walk in basis. (AES-310).

++National Airspace System Plan--Facilities, Equipment and Associated Development (April 1987).

A revised plan of the Federal Aviation Administration to improve air traffic control and airway facilities services to the year 2000. (\$17.00 Supt. Docs.) SN 050-007-00751-5. (AES-10).

National Aviation System Policy Summary, 1972.

Copies available from Supt. Docs. SN 050-007-00175-4. Price--\$3.50.

National Plan for Intergrated Airport System, (1986 - 1995) October 1986.

Estimates the costs associated with establishing a system of airports adequate to meet and anticipate the needs of civil aviation and support the Department of Defense and Postal Service. It draws selectively from local, regional, and State planning studies. The estimate represents the total cost of airport development items which are eligible for Federal

aid under the Airport and Airway Improvement Act of 1982. (\$21.00 Supt. Docs.) SN 050-007-00709-4.

Safe, Separated and Soaring: A History of Federal Civil Aviation Policy, 1961-1972 (1980).

Provides a narrative history of the evolution of Federal civil aviation policy during the Kennedy and Johnson Administrations and the first Nixon Administration. Fourth and concluding volume of a history of FAA and its predecessor agencies. ("Bonfires to Beacons," "Take-off at Mid-Century" and "Turbulence Aloft" were preceding books. (paperback, \$2.00). SN 050-007-00566-1. (cloth, \$16.00) SN-050-007-00581-4. Supt. Docs. (APA-4).

"Safety in the Air" A Curriculum Designed for Middle School Students (Current Edition).

Designed to teach middle school students basic principles and concepts of the theory of flight and the Air Traffic Control System, with safety measures built into the system. (\$3.50 Supt. Docs.) SN 050-007-00661-6. (AP0).

Take-off At Mid-Century: Federal Aviation Policy in the Eisenhower Years, 1953-1961.

Provides a history of the Civil Aeronautics Administration during the Eisenhower years. It also examines the events that led to the CAA's demise, and the creation of the Federal Aviation Agency. (\$12.00 Supt. Docs.) SN 050-007-00355-2. (APA-4).

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Terminal Area Forecasts, FY 1987 - 2000.

Contains forecasts of aviation activity for 840 airports in the United States for FY 1987 -2000. These include 398 airports with FAA air traffic control towers and radar approach control service and 15 FAA contract towers. (\$22.00 Supt. Docs.) SN 050-007-00753-1. (AP0-110).

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Tells the story of the agency during the years 1973-77, including major issues of safety, security, and the development of the civil aviation industry. (#..... Supt. Docs.) SN 050-007-00..... (APA-110).

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