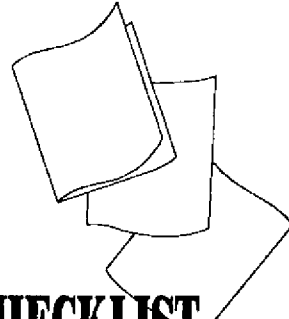
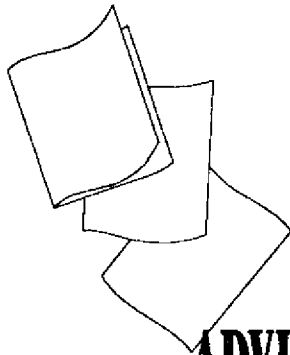




U.S. Department
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**Federal Aviation
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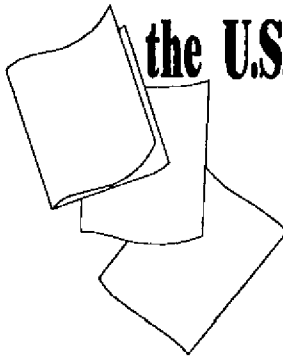
Advisory Circular

AC 00-2.7

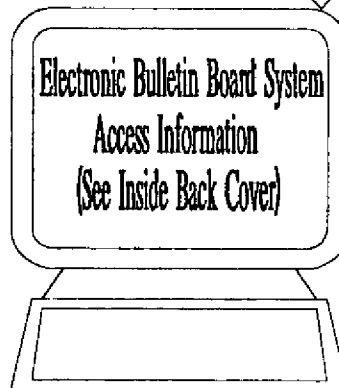
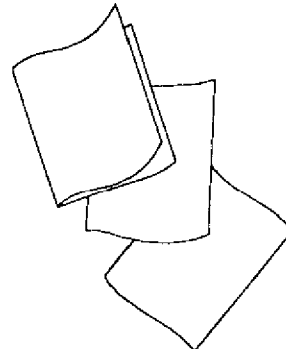


ADVISORY CIRCULAR CHECKLIST

**(and status of other FAA Publications for sale by
the U.S. Government Printing Office (GPO))**



October 15, 1993



Initiated By: AIT-200



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

Advisory Circular

**Subject: ADVISORY CIRCULAR CHECKLIST
(and Status of Other FAA Publications)**

**Date: 10/15/93
Initiated By: AIT-200**

AC No: 00-2.7

1. Purpose. This circular transmits the revised checklist of Federal Aviation Administration (FAA) Advisory Circulars (AC's). It also lists the current status of certain other FAA publications sold by the Superintendent of Documents, U.S. Government Printing Office (GPO). This checklist is published on an annual basis in October.

2. Cancellation. AC 00-2.6 dated October 15, 1992, is canceled.

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. The checklist is divided into six appendices. Appendix 1 provides a cancellations and additions listing. Appendix 2 gives information on the title and the issuance date for each circular shown. A brief explanation of the contents is given for each

listing. For cross-referencing purposes an alphabetical section is provided as Appendix 4. To make it easy for the user, a listing of FAA publications sold by GPO is provided in Appendix 5. You'll find it easy to order the desired publications by using the handy order forms/blanks located in Appendix 6 of this checklist.

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 6 (photocopies are acceptable) or send it through FAX: 202-366-3911. 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:

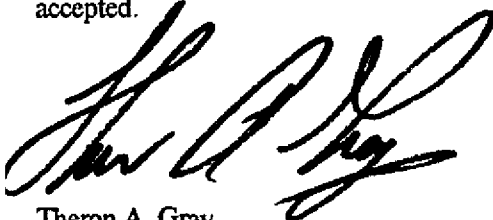
U.S. Department of Transportation
General Services Section,
M-4025
Washington, D.C. 20590

To be added to or deleted from an AC MAILING LIST, for your convenience, we have included in the back of

this checklist (Appendix 6) a "Request For Mailing List Action" sheet. Complete this sheet and mail to:

U.S. Department of Transportation
Distribution Requirements Section,
M-483.1
Washington, D.C. 20590

b. Publications for Sale. A list of FAA advisory circulars, directives, and other publications is shown in Appendix 5. All of these publications are for sale by the U.S. Government Printing Office (GPO) with the exception of the Summary of Airworthiness Directives which are available from U.S. Department of Transportation, Federal Aviation Administration (FAA) for GPO. When "(Sub.)" is included with the price, the publication 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.



Theron A. Gray
Assistant Administrator
for Information Technology

To expedite the processing of your requests, follow the exact ordering instructions given above.

Do not send initial orders or follow-up inquiries to the Federal Aviation Administration regarding orders not received. 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 written request please follow instructions provided in Appendix 6.

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

Mailing lists for Advisory Circulars are computerized. If errors in mailing occur, please notify Department of Transportation, Distribution Requirements Section, M-483.1, Washington, D.C. 20590.

BE SURE TO ENCLOSE THE MAILING LABEL from the shipment together with the Advisory Circular number(s) so that your listing can be corrected.

CONTENTS

Electronic Bulletin Board System Access--
Informationinside back cover

Purposei
Cancellationi
Explanationi
The AC Checklisti
How to Orderi
Reproduction of Advisory Circulars.....ii
Appendix 1. Cancellations and Additions (4 Pages).
Appendix 2. Circular Numbering System (3 Pages).
Appendix 3. Numerical Section (36 Pages).
Appendix 4. Alphabetical Section (17 Pages).
Appendix 5. FAA Publications for sale
by the U.S. Government Printing
Office (GPO) (9 Pages).
U.S. Government Bookstores10
GPO International Distributors11

Appendix 6. Unfilled Requests Problems/FAA-SURE/
Sample Forms:
Free Publications Order Blank (1 page)
Single Sale Order Form (1 page)
Subscription Order Form (1 page)
Request For Mailing List Action (2 pages)

APPENDIX 1

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 (except AC 00-2.): (See additions list).

00-2.6	Advisory Circular Checklist (10-15-92). (AIT-200).	21.303-2G	Announcement of Availability :Parts Manufacturer Approvals 1988 (Microfiche) (10-21-88). (AVN-113).
00-44DD	Status of the Federal Aviation Regulations (8/92).(AGC-10).	33-2A	Aircraft Engine Type Certification Handbook (6-5-72). (ANE-105).
20-36R	Index of Articles (Materials, Parts, Processes and Appliances) Certified Under the Technical Standard Order System (June 1991). (AFS-630).	90-66	Recommended Standard Traffic Patterns for Airplane Operations at Uncontrolled Airports (2-27-75). (AAT-10).
20-109	Service Difficulty Program (General Aviation) (1-8-79). (AFS-310).	91-53	Noise Abatement Departure Profile (10-17-93). (AFS-400).
20-110G	Index of Aviation Technical Standard Orders (6-19-91). (AIR-120).	91-62	Use of Child/Infant Seats in Aircraft (2-26-85). (AIR-120).
20-115A	Radio Technical Commission for Aeronautics TCA/DO-178A (8-12-86). (AIR-220)	120-51	Cockpit Resource Management Training (121-89). (AFS-210).
20-126C	Aircraft Certification Service Field Office Directory (1-16-92). (AVN- 113).	120-55	Air Carrier Operational Approval and Use of TCAS II (11-23-91). (AFS-450).
20-131	Airworthiness and Operational Approval of Traffic Alert and Collision Avoidance Systems (TCAS II) and Mode S Transponders (10-3-88). (ANM-111).	140-2U	List of Certificated Pilot Schools (7-21-92). (AVN-132).
21-5K	Announcement of Availability: Summary of Supplemental Type Certificates 1993 Edition (July 1989). (AVN-113).	140-7F	Federal Aviation Administration Certificated Maintenance Agencies Directory (8-7-92). (AVN-132).
21-15H	Announcement of Availability: Aircraft, Aircraft Engines and Propeller Type Certificate Data Sheets and Specifications (3-26-91).(AVN-113).	141-1	Pilot School Certification (8-29-74). (AFS-820).
21.17-2	Type Certification Fixed Wing Gliders (Sailplanes) Including Powered Gliders (7-13-89). (AIR-112).	147-2Z	Directory of FAA Certificated Aviation Maintenance Technician Schools (10-3-91). (AVN-130).
		150/5000-9	Announcement of Availability: Report No. DOT/FAA/PP/92-5, Guidelines for the Sound Insulation of Residences Exposed to Aircraft Operations (1-19-93). (APP-510).
		150/5000-10	Announcement of Availability: Report No. DOT/FAA/PP/92-6, Estimating the Regional Economic Significance of Airports (1-19-93). (APP-400).
		150/5340-1F	Marking of Paved Areas on Airports (10-22-87). (AAS-200).
		183-32G	FAA Designated Maintenance Technician Examiner Directory (3-24-88). (AVN-132).

183.29-1AA Designated Engineering Representatives (8-6-92). (AVN-113)

2. The following Advisory Circulars (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:

-
- 61-66 Annual Pilot in Command Proficiency Checks (11-2-73).(AFS-840). (canceled by AC 120-45A dated 2-5-92).
 - 90-83 Terminal Control Areas(TCA) (12-19-83). (ATO-320).
 - 90-86 Announcement of Availability: North Atlantic Minimum Navigation Performance Standards (MNPS) Airspace Operations Manual, Fourth Edition. (7-19-85). (AFS-220)
 - 91-47 Use of Portable Electronic Devices--Radio Receivers (3-23-77). (AFS-310). Canceled by AC 91.21-1 dated 8-20-93.
 - 150/5220-11 Airport Snowblower Specification Guide (4-10-78). (AAS-100). Canceled by AC 150/5220-2Q dated 6-30-92.)
 - 150/5220-15 Building for Storage and Maintenance of Airport Snow Removal and Ice Control Equipment: A Guide (3-25-83). (AAS-120). Canceled by AC 150/5220-18 dated 10-15-92).

Additions

3. The following Advisory Circulars (AC's) are added to the list:

-
- 00-2.7 Advisory Circular Checklist (10-15-93). (AIT-200).
 - 00-44EE Status of the Federal Aviation Regulations (8-93). (AGC-10).
 - 20-36S Index of Articles (Materials, Parts, Processes and Appliances)Certified Under the Technical Standard Order System (September 1993). (AFS-613).
 - 20-109A Service Difficulty Program (General Aviation) (4-8-93). (AFS-634).
 - 20-110H Index of Aviation Technical Standard Orders (5-6-93). (AIR-120).

- 20-115B Radio Technical Commission for Aeronautics, Inc.Document RTCA/DO-178B (1-11-93).(AIR-130).
- 20-126D Aircraft Certification Service Field Office Directory (4-14-93). (AFS- 613).
- 20-131A Airworthiness and Operational Approval of Traffic Alert and Collision Avoidance Systems (TCAS II) and Mode S Transponders (3-29-93). (ANM-111).
- 21-5L Announcement of Availability: Summary of Supplemental Type Certificates 1993 Edition (May 1993). (AFS-613).
- 21-15I Announcement of Availability: Aircraft, Aircraft Engines and Propeller Type Certificate Data Sheets and Specifications (2-11-93).(AVN-113).
- 21-32 Control of Parts Shipped Prior to Type Certificate Issuance (10-14-92). (AIR-220).
- 21-33 Quality Assurance of Software Used in Aircraft or Related Products (2-3-93). (AIR-220).
- 21-34 Shoulder Harness Safety Installations (6-4-93). (AIR-120).
- 21-35 Computer Generated/Stored Records (6-4-93). (AIR-220).
- 21-36 Quality Assurance Control for Products Acceptance Software (8-11-93).(AIR-200).
- 21.17-1A, Chg. 1 Type Certification--Airships (10-30-92). 92).(ACE-112).
- 21.17-2A Type Certification Fixed Wing Gliders (Sailplanes) Including Powered Gliders (2-10-93). (AIR-112).
- 21.17-3 Type Certification of Very Light Airplanes Under FAR 21.17(b) (12-21-92). (AIR-110).
- 21.303-2H Announcement of Availability: :Parts Manufacturer Approvals--1992 (Microfiche) (10-13-92).(AFS-613).
- 23-8A Chg. 1 Flight Test Guide for Certification of Part 23 Airplanes (8-30-93).
- 23-11 Certificatin of Very Light Airplanes with Powerplants and Propellers Certificated to Parts 33 and 35 of the Federal Aviation Regulations. (12-2-92). (ACE-111).

23-12	Structural Substantiation of Part 23 Airplane Modifications Involving Increased Engine Power (1-27-93). (ACE-111).	91-53A	Noise Abatement Departure Profile (7-22-93). (AFS-430).
23-13	Fatigue and Fail-Safe Evaluation of Flight Structure and Pressurized Cabin for Part 23 Airplanes (4-15-93). (ACE-111).	91-62A	Use of Child Seats in Aircraft (10-15-92). (AIR-121).
23-14	Type Certification for Conversion from Reciprocating Engine to Turbine Engine-Powered Part 23 Airplanes (9-30-93). (ACE-100).	91.21-1	Use of Portable Electronic Devices Aboard Aircraft (8-20-93). (AFS-350).
23.701-1	Flap Interconnections in Part 23 Airplanes (11-13-92). (ACE-111).	120-40B, Chg. 2	Airplane Simulator Qualification (6-9-93). (ASO-205).
23.1311-1	Installation of Electronic Display Instrument Systems in Part 23 Airplanes (6-11-93). (ACE-111).	120-51A	Crew Resource Management Training (2-10-93). (AFS-210).
23.1521-2	Type Certification of Oxygenates and Oxygenated Gasoline Fuels in Part 23 Airplanes with Reciprocating Engines (1-21-93). (ACE-111).	120-55A	Air Carrier Operational Approval and Use of TCAS II (8-27-93). (AFS-450).
25.703-1	Takeoff Configuration Warning Systems (3-17-93). (ANM-111).	120-59	Air Carrier Internal Evaluation Programs (10-10-26-92). (AFS-201).
25.773-1	Pilot Compartment View for Transport Category Airplanes (1-8-93). (ANM-111).	140-2V	List of Certificated Pilot Schools (3-29-93). (AFS-632).
25.1523-1	Minimum Flightcrew (2-2-93). (ANM-111).	140-7G	Federal Aviation Administration Certificated Maintenance Agencies Directory (7-15-93). (AFS-632).
33-2B	Aircraft Engine Type Certification Handbook (6-30-93). (ANE-110).	141-1A	Pilot School Certification (2-18-93). (AFS-554).
35.37-1	Composite Propeller Blade Fatigue Substantiation (5-11-93). (ANE-110).	147-2AA	Directory of FAA Certificated Aviation Maintenance Technician Schools (8-18-93). (AFS-640).
65-26	Charles Taylor "Master Mechanic Award (4-23-93). (AFS-360).	150/5000-9A	Announcement of Availability: Report No. DOT/FAA/PP/92-5, Guidelines for the Sound Insulation of Residences Exposed to Aircraft Operations (7-3-93). (APP-510).
90-66A	Recommended Standard Traffic Patterns and Practices for Aeronautical Operations at Airports without Operating Control Towers (8-26-93). (ATP-234).	150/5000-10A	Announcement of Availability: Report No. DOT/FAA/PP/92-6, Estimating the Regional Economic Significance of Airports (7-3-93). (APP-400).
90-92	Guidelines for the Operational Use of Loran-C Navigation Systems Outside the U.S. NAS (2-5-93). (AFS-430).	150/5000-11	Announcement of Availability All Cargo Carrier Activity Report (FAA Form 5100-108, Revised). (3-34-93). (APP-400).
90-92, Chg. 1	(2-5-93). (AFS-430).	150/5000-15	Use of Value Engineering for Engineering and Design of Airport Grant Projects (9-9-93). (AAS-200).
90-93	Operating Procedures for Airport Traffic Control Towers (ATCT) That Are Not Operated by, or Under Contract with, the United States (Non-Federal (7/19/93). (ATP-230).	150/5220-18	Buildings For Storage and Maintenance of Airport Snow and Ice Control Equipment and Materials (10-15-92). (AAS-100).

150/5220-21	Guide Specifications for Lifts Used to Board Airline Passengers with Mobility Impairments (2-10-93). (AAS-100).	150/5370-10A, Chg. 5,	Standards for Specifying Construction of Airports (4-2-93).(AAS-200).
150/5300-13 Chg. 3	Airport Design (9-1-93). AAS-100).	183-32H	FAA Designated Technical Personnel Examiners Directory (12-18-92). (AFS-632).
150/5300-14	Design of Aircraft Deicing Facilities (8-23-93). (AAS-100).	183.29-1BB	Designated Engineering Representatives (July 1993). (AFS-613).
150/5300-15	Use of Value Engineering for Engineering and Design of Airport Grant Projects (9-9-93). (AAS-200).		

APPENDIX 2 ADVISORY CIRCULAR NUMBERING SYSTEM

The Circular Numbering System

1. General. The advisory circular numbers relate to the FAR subchapter titles and correspond to the Parts, and when appropriate, to the specific sections of the Federal Aviation Regulations.

2. General and specific subject numbers. The subject numbers and related subject areas are as follows:

General Subject Number(1)	Specific Subject Number(2)	Subject
00		GENERAL
	1	Definitions and Abbreviations
10		PROCEDURAL RULES
	11	General Rule-Making Procedures
	13	Investigation and Enforcement Procedures
20		AIRCRAFT
	21	Certification Procedures for Products and Parts
	23	Airworthiness Standards: Normal, Utility, and Acrobatic Category Airplanes
	25	Airworthiness Standards: Transport Category Airplanes
	27	Airworthiness Standards: Normal Category Rotorcraft
	29	Airworthiness Standards: Transport Category Rotorcraft
	31	Airworthiness Standards: Manned Free Balloons
	33	Airworthiness Standards: Aircraft Engines
	34	Fuel Venting and Exhaust Emission Requirements for Turbine Engine Powered Airplanes
	35	Airworthiness Standards: Propellers
	36	Noise Standards: Aircraft Type and Airworthiness Certification
	39	Airworthiness Directives
	43	Maintenance, Preventive Maintenance, Rebuilding and Alteration
	45	Identification and Registration Marking
	47	Aircraft Registration
	49	Recording of Aircraft Titles and Security Documents

General Subject Number(1)	Specific Subject Number(2)	Subject
60		AIRMEN
	61	Certification: Pilots and Flight Instructors
	63	Certification: Flight Crewmembers Other Than Pilots
	65	Certification: Airmen Other Than Flight Crewmembers
	67	Medical Standards and Certification
70		AIRSPACE
	71	Designation of Federal Airways, Area Low Routes, Controlled Airspace, and Reporting Points
	73	Special Use Airspace
	75	Establishment of Jet Routes and Area High Routes
	77	Objects Affecting Navigable Airspace
90		AIR TRAFFIC AND GENERAL OPERATING RULES
	91	General Operating and Flight Rules
	93	Special Air Traffic Rules and Airport Traffic Patterns
	95	IFR Altitudes
	97	Standard Instrument Approach Procedures
	99	Security Control of Air Traffic
	101	Moored Balloons, Kites, Unmanned Rockets and Unmanned Free Balloons
	103	Ultralight Vehicles
	105	Parachute Jumping
	107	Airport Security
	108	Airplane Operators Security
	109	Indirect Air Carrier Security
120		AIR CARRIERS, AIR TRAVEL CLUBS, AND OPERATORS FOR COMPENSATION OR HIRE: CERTIFICATION AND OPERATIONS
	121	Certification and Operations: Domestic, Flag, and Supplemental Air Carriers and Commercial Operators of Large Aircraft

General Subject Number(1)	Specific Subject Number(2)	Subject
	125	Certification and Operations: Airplanes Having a Seating Capacity of 20 or More Passengers or a Maximum Payload Capacity of 6,000 Pounds or More
	127	Certification and Operations of Scheduled Air Carriers with Helicopters
	129	Operations of Foreign Air Carriers
	133	Rotorcraft External-Load Operations
	135	Air Taxi Operators and Commercial Operators
	137	Agricultural Aircraft Operations
	139	Certification and Operations: Land Airports Serving CAB-Certificated Air Carriers
140		SCHOOLS AND OTHER CERTIFICATED AGENCIES
	141	Pilot Schools
	143	Ground Instructors
	145	Repair Stations
	147	Aviation Maintenance Technician Schools
150		AIRPORT NOISE COMPATIBILITY PLANNING
	151	Federal Aid to Airports
	152	Airport Aid Program
	155	Release of Airport Property from Surplus Property Disposal Restrictions
	156	State Block Grant Pilot Program
	157	Notice of Construction, Alteration, Activation, and Deactivation of Airports
	158	Passenger Facilities Charges
	159	National Capital Airports
	159/10	Washington National Airport
	159/20	Dulles International Airport
	161	Notice and Approval of Airport Noise and Access Restrictions
	169	Expenditures of Federal Funds for Nonmilitary Airports or Air Navigational Facilities Thereon
170		NAVIGATIONAL FACILITIES
	170	Establishment and Discontinuance Criteria for Airport Traffic Control Tower Facilities

General Subject Number(1)	Specific Subject Number(2)	Subject
	171	Non-Federal Navigation Facilities
	180	ADMINISTRATIVE REGULATIONS
	183	Representatives of the Administrator
	185	Testimony by Employees and Production of Records in Legal Proceedings
	187	Fees
	189	Use of Federal Aviation Administration Communication System.
	190	WITHHOLDING SECURITY INFORMATION; WAR RISK INSURANCE; AIRCRAFT LOAN GUARANTEE PROGRAM
	191	Withholding Security Information from Disclosure Under the Air Transportation Security Act of 1974
	210	FLIGHT INFORMATION
	211	Aeronautical Charts and Flight Information Publications
	212	Publication Specification: Charts and Publications

1---Based on FAR Subchapter Titles (Excluding the 210 series).

2--Based on FAR Part Titles (Excluding the 210 series).

3. Within the General Subject Number Areas, specific selectivity in advisory circular mail lists is available corresponding to the applicable FAR Parts. For example: under the 60 general subject area, separate mail lists for advisory circulars issued in the 61, 63, 65, or 67 series are available. An AC numbered "60" goes to all numbers in the 60 series_61, 63, 65, 67. Breakdown of subject numbers. When the volume of circulars in a series warrants a and a subsubject number. Material in the 150 series, Airports, issubsubject breakdown, the general number is followed by a slash issued under the following subsubjects:

150/5000	Airport Planning.
150/5020	Noise Control and Compatibility Planning for Airports.
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.

General Subject Number(1)	Specific Subject Number(2)	Subject
	150/5300	Design, Construction, and Maintenance-General.
	150/5320	Airport Design
	150/5325	Influence of Aircraft Performance on Air-craft Design.

General Subject Number(1)	Specific Subject Number(2)	Subject
	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.

4. Individual circular identification numbers. Each circular has a subject number either followed by a dash and a consecutive number (135-15) or a period with a specific FAR section number, followed by a dash and a consecutive number (135.169-2) 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.

APPENDIX 3

NUMERICAL LIST OF ADVISORY CIRCULARS

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. 5 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.

General**Subject No. 00**

- **00-2.7 Advisory Circular Checklist (10-15-93). (AIT-200).**
Transmits the revised checklist of current FAA advisory circulars as of October 15, 1993.
- 00-6A 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 (\$8.50 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
- 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 (3-24-69). (AFS-800).**
Provides preliminary information that will assist anyone or any group of people interested in forming and operating a flying club.
- 00-26 Definitions of "U.S. National Aviation Standards" (1-22-69). (AND-20).**
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.

00-30A Rules of Thumb for Avoiding or Minimizing Encounters with Clear Air Turbulence (11-21-88). (AFS-400).

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). (ANN-130).

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 prac-

tices, and has been reissued to include reconditioning information.

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

Contains information and guidance for the servicing and ground handling of aircraft.

00-41B FAA Quality Control System Certification Program (10-10-89). (ASU-430).

Describes the Federal Aviation Administration (FAA) Quality Control System Certification Program and the mechanics of implementation. It is intended for guidance and information only

■ **00-44EE Status of the Federal Aviation Regulations (8/93). (AGC-200).**

This circular sets forth the current publication status of Federal Aviation Regulations (FARs), any changes issued to date, and provides a price list, and ordering instructions

00-45C Aviation Weather Services (6-12-85). (AFS-400/ACM-100).

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. (\$11.00 Supt. Docs.) SN 050-007-00705-1

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.

00-53 FAA Computer Software Quality Program (1-18-78). (ASU-410).

Describes the FAA computer software quality program and the mechanics of implementation. For guidance and information only.

00-54 Pilot Windshear Guide (11-25-88). (AFS-200).

Communicates key windshear information relevant to flightcrews. Appendix 1 of this advisory circular is the Pilot Windshear Guide, which is only one section of the two-volume Windshear Training Aid.

Procedural

Subject No. 10

11-2A Notice of Proposed Rulemaking Distribution System (7-26-84). (AIT-200).

Provides the public with information relative to participation in the FAA rule-making 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). (AIR-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). (AFS-630).

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 Turbojet 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.

20-27D Certification and Operation of Amateur-Built Aircraft (6-22-90). (AIR-230).

Provides guidance and information 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-J-27686 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). (AIR-120).

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). (ACE-110).

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). (AIR-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.

20-34D 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.

20-36S Index of Articles (Materials, Parts, Processes and Appliances) Certified Under the Technical Standard Order System (September 1993). (AFS-613).

Lists the materials, parts, and appliances for which the Administrator has received statements of conformance under the Technical Standard Order system as of May 1993. Such products are deemed to have met the requirements for FAA approval as provided in Part 21, Subparts N and O. (\$ Supt. Docs.) SN 050-007-.....

20-37D Aircraft Metal Propeller Maintenance (8-15-89). (AFS-340).

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 (2-8-66). (ANM-100).

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 (8-11-65). (ACE-100).

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). (AIR-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). (ACE-110).

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). (AIR-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 (9-3-65). (ACE-100).

Provides a means, but not the sole means, for acceptance of glass fiber fabric for external covering of aircraft structure.

20-45 Safeying of Turnbuckles on Civil Aircraft (9-17-65). (ACE-100).

Provides information on turnbuckle safetying 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 (2-8-66). (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 (5-5-66). (AFS-330).

The title is self-explanatory.

20-52 Maintenance Inspection Notes for Douglas DC-6/7 Series Aircraft (8-24-67). (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). (AIR-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 (2-19-69). (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). (AIR-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). (AIR-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). (AIR-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). (AFS-600).

Sets forth recommended radiation safety precautions for ground operation of airborne weather radar.

20-69 Conspicuity of Aircraft Instrument Malfunction Indicators (5-14-70). (AIR-120).

Provides design guidance information on methods of improving conspicuity of malfunction indication devices.

20-71 Dual Locking Devices on Fasteners (12-8-70). (AIR-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). (AIR-120).

Provides information relating to the substantiation of ice protection systems on aircraft.

20-74 Aircraft Position and Anticollision Light Measurements (7-29-71). (AIR-120).

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-330).

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-340).

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). (ANM-100).

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). (AFS-230). (Includes change 1).

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.

20-83 Maintenance Inspection Notes for Boeing B-737 Series Aircraft (1-17-73). (AFS-330). (Includes changes 1 and 2).

Provides maintenance inspection notes which can be used for the maintenance

support program for certain structural parts of the B-737 series aircraft.

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). (AIR-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). (AIR-120).

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.

20-101C Airworthiness Approval of Omega/VLF Navigation Systems for the United States NAS and Alaska (9-12-88). (ACE-130W/AIR-120).

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. (\$1.50 Supt. Docs.) SN 050-007-00887-2.

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). (AIR-120).

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 recom-

mendations 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). (AIR-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. ASI20-73-2, 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.

20-109A Service Difficulty Program (General Aviation) (4-8-93). (AFS-634).

Describes the Service Difficulty Program as it applies to general aviation activities. Instructions for completion of the revised FAA Form 8010-4 (10-92), Malfunction or Defect Report are provided.

20-110H Index of Aviation Technical Standard Orders (5-6-93). (AIR-120).

Describes the public procedure the Federal Aviation Administration (FAA) will use to develop and issue Technical Standard Orders (TSO's) for aeronautical articles to be used on civil aircraft. Presents an index of the FAA TSO's which contain minimum

performance standards for specific materials, parts processes, and appliances used in 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). (AIR-120).

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). (AIR-100).

Suggests acceptable methods by which product manufacturers may indicate FAA approval of recommended actions prescribed in manufacturers' service documents.

20-115B Radio Technical Commission for Aeronautics, Inc. Document RTCA/DO-178B (1-11-93). (AIR-130).

Calls attention to RTCA, Inc., (formerly the Radio Technical Commission for Aeronautics) Document RTCA/DO- 178B, "Software Considerations in Airborne Systems and Equipment Certification," issued December 1992. It discusses how the document may be applied with FAA technical standard order (TSO), authorizations, type certification (TC), or supplemental type certification authorization (STC).

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). (AIR-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). (AIR-120).

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). (ASM-500).

Recommends several actions that the user can take to alleviate problems of frequency congestion in the 190-535 kHz frequency range.

20-121A Airworthiness Approval of Airborne Loran-C Navigation Systems for Use in the U.S. National Airspace System (NAS) (8-24-88). (AIR-120).

Establishes an acceptable means, but not the only means, of obtaining airworthiness approval of airborne Loran-C navigation systems for use under VFR (visual flight rules) and IFR (instrument flight rules)

within the conterminous United States, Alaska, and surrounding U.S. waters.

20-122A Anti-misfueling Devices: Their Availability and Use (1-29-91). (AFS-340).

Includes information relating to the Society of Automotive Engineers (SAE) standard dimensions for fueling ports now being incorporated during new aircraft production by all General Aviation Manufacturer's Association member companies. It also makes recommendations to the fuel suppliers and Fixed Base Operators to change their fuel dispensing nozzles to meet the dimensions referenced in the SAE standard.

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.

20-126D Aircraft Certification Service Field Office Directory (4-14-93). (AFS-613).

Provides the nearest points of contact for information on issuance of type and supplemental type certificates and changes, as well as, 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.

20-128 Design Considerations for Minimizing Hazards Caused by Uncontained Turbine Engine and Auxiliary Power Unit Rotor and Fan Blade Failures (3-9-88). (ANM-111).

Sets forth a method of compliance with the requirements of Sections 23.903(b)(1), 25.901(d) and 25.903(d)(1) of the FAR pertaining to design precautions taken to minimize the hazards to an airplane in the event of uncontained engine or auxiliary power unit rotor (compressor and turbine) failure and engine fan blade failures. It is for guidance and to provide a method of compliance that has been found acceptable.

20-129 Airworthiness Approval of Vertical Navigation (VNAV) Systems for use in the U.S. NAS and Alaska (9-12-88). (ACE-130W).

Establishes an acceptable means, but not the only means, of obtaining airworthiness approval of an airborne vertical navigation system for use under visual flight rules (VFR) and instrument flight rules (IFR) within the conterminous United States, Alaska and surrounding U.S. waters.

20-130 Airworthiness Approval of Multi-Sensor Navigation Systems for use in the U.S. National Airspace System (NAS) and Alaska (9-12-88). (ACE-130W).

Establishes an acceptable means, but not the only means, of obtaining airworthiness approval of a multi-sensor area navigation system for use under visual flight rules (VFR) and instrument flight rules (IFR) within the conterminous United States, Alaska and surrounding U.S. waters.

20-131A Airworthiness and Operational Approval of Traffic Alert and Collision Avoidance Systems (TCAS II) and Mode S Transponders (3-29-93). (ANM-111).

Provides guidance material for the airworthiness and operational approval of Traffic

Alert and Collision Avoidance Systems (TCAS II) and Mode S transponders. Like all AC material, this AC is not mandatory and does not constitute a regulation. Issued for guidance purposes and to outline a method of compliance with the rules.

20-132 Public Aircraft (12-21-88). (AIR-200).

Provides guidance that public aircraft status does not exist outside the territorial limits of the United States.

20-133 Cockpit Noise and Speech Interference Between Crewmembers (3-22-89). (AIR-121).

Provides information about the relationship between flight crew members cockpit voice communication and cockpit noise levels. Guidance, on speech interference levels, noise measurement and measurement systems, and methods to improve cockpit communication, is provided for those manufacturers, owners or operators who believe cockpit noise may be a problem on their aircraft. This guidance material is relevant to the operation of all types of civil aircraft.

20-134 Test Procedures for Maximum Allowable Airspeed Indicators (2-14-90). (AIR-120).

Provides guidance concerning test procedures which may be used in showing compliance with the standards in technical standards orders C 46a.

20-135 Powerplant Installation and Propulsion System Component Fire Protection Test Methods, Standards and Criteria (2-15-90). (ANM-112).

Provides guidance for use in demonstrating compliance with the powerplant fire protection requirements of the Federal Aviation Regulations (FAR). Included in this document are methods for fire testing of materials and components used in the propulsion engines and APU installations, and in areas adjacent to designated fire zones, as well as the rationale for these methods.

20-136 Protection of Aircraft Electrical/Electronic Systems Against the Indirect Effects of Lightning (3-5-90). (ANM-111).

Provides information and guidance concerning an acceptable means, but not the

only means, of compliance with Parts 23, 25, 27, and 29 of the FAR as applicable for preventing hazardous effects, due to lightning, from occurring to electrical/electronic systems performing critical essential functions. This material is neither mandatory nor regulatory in nature and does not constitute a regulation. The applicant may elect to establish an alternative method of compliance that is acceptable to the FAA.

20-137 Dynamic Flight Evaluation of Seat Restraint Systems & Occupant Restraint for Rotocraft (Normal and Transport (3-30-92). (ASW-111).

Provides guidance regarding acceptable means but not the only means of compliance with Parts 27 and 29 of the Federal Aviation Regulations (FAR) applicable to dynamic testing of seats intended for use in Normal and Transport Category.

21-1B Production Certificates (5-10-76). (AIR-200).

Provides information concerning Subpart G of Federal Aviation Regulations (FAR) Part 21, and sets forth acceptable means of compliance with its requirements.

21-2G Export Airworthiness Approval Procedures (7-9-92). (AFS-600/AIR-230).

This advisory circular contains special requirements that have been submitted to the Federal Aviation Administration (FAA) by other governments, concerning export airworthiness approval procedures. (\$14.00 Supt. Docs) SN 050-007-00057-7.

21-4B Special Flight Permits for Operation of Overweight Aircraft (7-30-69). (AIR-200).

Furnishes guidance concerning special flight permits necessary to operate an aircraft in excess of its usual maximum certificated takeoff weight.

21-5L Announcement of Availability: Summary of Supplemental Type Certificates 1993 Edition (May 1993). (AFS-613).

Announces the availability to the public of a revised edition of the Summary of Supplemental Type Certificates (STC), dated January 1993.

21-6A Production Under Type Certificate Only (7-1-82). (AIR-200).

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). (AIR-200).

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.

21-12A Application for U.S. Airworthiness Certificate, FAA Form 8130-6 (OMB 2120-0018) (3-26-87). (AIR-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). (AIR-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. (d) when an FAA Type Certificate has been issued under FAR 21.21 or FAR 21.27.

21-15I Announcement of Availability: Aircraft, Aircraft Engines and Propeller Type Certificate Data Sheets and Specifications (2-11-93). (AFS-632).

Provides information concerning the availability of subject publications.

21-16C Radio Technical Commission for Aeronautics Document DO-160C (2-14-90). (AIR-120).

Calls attention to subject, "Environmental Conditions and Test Procedures for Airborne Equipment" dated 12/4/89, and discusses how it may be used in connection with technical standard order (TSO) authorizations.

21-17 Carriage of Cargo in Restricted Category Aircraft and Other Special Purpose Operations (3-15-82). (AIR-200).

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). (AIR-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). (AIR-200).

Advises that under certain specified criteria, used engines may be used in new production aircraft.

21-20 Supplier Surveillance Procedures (7-22-82). (AIR-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). (AIR-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). (AIR-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).
(AIR-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.

**21-24 Extending a Production Certificate to a Facility Located in a Bilateral Airworthiness Agreement Country (4-14-89).
(AIR-220).**

Contains information and guidance concerning: (1) FAA production certificate (PC) holders located in the U.S. that plan to extend their PC to include a facility located in another country; (2) and the issuance of a PC to an applicant located in the U.S. when the applicant is engaged in a multinational coproduction program whereby major manufacturing facilities will be located in other countries.

21-25 Modified Seats and Berths Initially Approved Under a Technical Standard Order (4-24-89). (AIR-121).

Provides information and procedural guidance concerning the approval and installation of modified Technical Standard Order (TSO) seats and berths in U.S. type certificated aircraft.

21-26 Quality Control for the Manufacture of Composite Structures (6-26-89). (AIR-220).

Provides information and guidance concerning an acceptable means, but not the only means, of demonstrating compliance with the requirements of FAR Part 21, Certification Procedures for Products and Parts, regarding quality control (QC) systems for the manufacture of composite structures involving fiber reinforced materials, e.g., carbon (graphite), boron, aramid (Kevlar), and glass reinforced polymeric materials. Provides guidance regarding the essential features of QC systems for composites as mentioned in AC 20-107.

21-26, Chg. 1 (1-26-90).

Modifies the term "Rheometrics Dynamic Spectroscopy (RDS)," which has been shown to be specific to one manufacturer, to "Dynamic Rheological Analysis," which is more generic term.

21-27 Production Certification Multi-national/Multicorporate Consortia 7-14-89). (AIR-220).

Provides information and describes criteria to be emphasized in evaluating and approving the quality control system of a multinational and/or multicorporate consortium seeking a production certificate (PC). This AC would not apply to a type certificate holder who enters into a licensing agreement with a manufacturer who at the time of license holds a PC. Production Certificate extensions are addressed in AC 21-24.

21-28 Airworthiness Certification of U.S. Produced Aircraft and Engine Kits Assembled Outside the United States (6-20-90). (AIR-220).

Provides information and guidance concerning airworthiness certification requirements for aircraft or aircraft engines, assembled from kits by aircraft or aircraft engine manufacturers located in other countries.

21-29A Detecting and Reporting Suspected Unapproved Parts (7-16-92). (AIR-220).

Provides information and guidance to the aviation community for detecting and reporting suspected unapproved aircraft parts, and includes procedures for referral of such reports to the appropriate Federal Aviation Administration (FAA) office. Introduces FAA Form 8120-11, Suspected Unapproved Parts Notification which provides a standardized method of reporting suspected unapproved parts to the FAA. The guidance is relevant to any member of the aviation concerned with installation of parts, including repair stations and manufacturers of aeronautical products.

21-30 Announcement of Availability: FAA Order 8130.21, Procedure for Completion of FAA Form 8130-3, Airworthiness Approval Tags (8-30-91). (AIR-200).

Announces the availability to the public of Federal Aviation Administration (FAA) of subject Order dated June 21, 1991.

Provides guidance in the issuance of export airworthiness approvals for new and newly overhauled Class II and Class III aircraft products.

21-31 Quality Control for the Manufacture of Non-Metallic

Compartment Interior Components (11-15-91). (AIR-220).

Provides information and guidance concerning compliance with the requirements of Federal Aviation Regulations (FAR) Part 21, Certification Procedures for Products and Parts.

21-32 Control of Parts Shipped Prior to Type Certificate Issuance (10-14-92). (AIR-220).

Provides information and guidance concerning the control of parts proposed to be shipped by manufacturers with an approved production inspection system (APIS) or production certificate (PC) (production approval holders) in advance of type certification of a new aircraft, aircraft engine, or propeller (product).

21-33 Quality Assurance of Software Used In Aircraft or Related Products (2-3-93). (AIR-220).

Provides an acceptable means, but not the only means, to show compliance with the quality assurance requirements of FAR Part 21, Certification Procedures for Products and Parts, as applicable to the production of software used in type certificated aircraft or related products (airborne software). Also provides supplemental guidance for the establishment of a quality control or inspection to control the development and production of software used in type certification aircraft.

21-34 Shoulder Harness-Safety Installations (6-4-93). (AIR-120).

Provides information and guidance pertinent to an acceptable means, but not the only means, for installation of shoulder harness and safety belt restraint systems at all seat locations on all previously type certificated aircraft.

21-35 Computer Generated/Stored Records (6-4-93). (AIR-220).

Provides information and guidance concerning controls for managing information systems that generate and store records used in the manufacture of products and parts. Describes an acceptable means, but not the sole means, of compliance with the Federal Aviation Regulations (FAR).

21-36 Quality Assurance Control for Products Acceptance Software (8-11-93). (AIR-200).

Provides information and guidance concerning control of software and related digital input/output data (used by production approval holders (PAH) and their suppliers during manufacture, inspection and/or test) designed for use in the acceptance of airborne products. Provides an acceptable means, but not the only means, of compliance with the applicable Federal Aviation Regulations

21.17-1A Type Certification Airships (9-25-92). (ACE-100).

Describes two acceptable criteria for the type certification of airships that may be used by an applicant in showing compliance with section 21.17(b) of the Federal Aviation Regulations (FAR), Part 21. General guidance relative to airship type certification is also provided.

■ **21.17-1A, Chg. 1 (10-30-92).**

■ **21.17-2A Type Certification Fixed Wing Gliders (Sailplanes) Including Powered Gliders (2-10-93). (AIR-112).**

Provides information and guidance concerning acceptable means of showing compliance with Section 21.17(b) of Part 21 of the Federal Aviation Regulations (FAR) for type certification of gliders and powered gliders. General guidance relative to glider type certification is also provided.

■ **21.17-3 Type Certification of Very Light Airplanes Under FAR 21.17(b) (12-21-92). (AIR-110).**

Provides a means but not the only means for the type, production, and airworthiness certification of very light airplanes (VLA); and designates the "Joint Aviation Requirements for Very Light Aeroplanes" (JAR-VLA), issued April 25, 1990, by the Joint Aviation Authorities (JAA) of Europe as an acceptable airworthiness criteria that provides in equivalent level of safety under FAR 21.17(b) for Federal Aviation Administration (FAA) type certification of VLA as a special class of aircraft. Provides other acceptable uses of the JAR-VLA in the United States aircraft certification regulatory system.

21.303-1A Certification Procedures for Products and Parts (8-10-72). (AIR-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.

21.303-2H Announcement of Availability: Parts Manufacturer Approvals—1992 (Microfiche) (10-13-92). (AFS-613).

Provides information concerning how to obtain the latest edition of parts manufacturing approvals, which are valid through August 1992. The listing is available on 24x, 98-frame microfiche only (nominal size 4x6 inches)

21.431-1A Designated Alteration Station Authorization Procedures (12-19-85). (AIR-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 of 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.

23-8A Flight Test Guide for Certification of Part 23 Airplanes (2-9-89). (ACE-111).

Provides information and guidance concerning compliance with Part 23 of the Federal Aviation Regulations (FAR) concerning flight tests and pilot judgements. (\$12.00 Supt. Docs.) SN 050-007-00817-1

■ **23-8A Chg. 1 (8-30-93). (\$6.50 Supt. Docs.) SN 050-007-01013-3.**

23-9 Evaluation of Flight Loads on Small Airplanes with T, V, +, or Y Empennage Configurations (1-27-88). (ACE-111).

Provides information and guidance concerning compliance with Part 23 of the Federal Aviation Regulations (FAR) applicable to evaluation of empennage design flight loads on configurations where the horizontal tail surfaces are supported

by the vertical tail, or have appreciable dihedral.

23-10 Auxiliary Fuel Systems for Reciprocating and Turbine Powered Part 23 Airplanes (8-5-91). (ACE-111).

Provides information and guidance concerning acceptable means of showing compliance with Part 23 of the Federal Aviation Regulations (FAR), applicable to auxiliary fuel systems in Part 23 airplanes. It is intended to be used for auxiliary fuel system installations in the airplane including fuselage, wing, or external configurations.

23-11 Type Certification of Very Light Airplanes with Powerplants and Propellers Certificated to Parts 33 and 35 of the Federal Aviation Regulations (FARs). (12-2-92). (ACE-111).

Provides an acceptable means of compliance with Part 23 of FAR for type certification of certain small airplanes.

23-12 Structural Substantiation of Part 23 Airplane Modifications Involving Increased Engine Power (1-27-93). (ACE-111).

Provides information and guidance concerning acceptable means of demonstrating compliance with the requirements of Part 23 of the Federal Aviation Regulations (FAR) applicable to the structural substantiation of modifications involving increased engine power.

23-13 Fatigue and Fail-Safe Evaluation of Flight Structure and Pressurized Cabin for Part 23 Airplanes (4-15-93). (ACE-111).

Provides information and guidance concerning an acceptable means of demonstrating compliance with the requirements of Part 23 of the Federal Aviation Regulations (FAR) regarding fatigue and fail-safe evaluation of metallic airplane structure.

23-14 Type Certification for Conversion from Reciprocating Engine to Turbine Engine-Powered Part 23 Airplanes (9-30-93). (ACE-100).

Provides information and guidance concerning an acceptable means of showing compliance with Part 23 through amdt.23-45 of the Federal Aviation

Regulations applicable to replacing reciprocating engines with gas turbine engines (turbopropeller, turbojet, or turbopropeller).

23.562-1 Dynamic Testing of Part 23 Airplane Seat/Restraint Systems and Occupant Protection (6-22-89). (ACE-111).

Provides information and guidance regarding compliance with Part 23 of the Federal Aviation Regulations (FAR) applicable to dynamic testing of airplane seats.

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.

23.701-1 Flap Interconnections in Part 23 Airplanes (11-13-92). (ACE-111).

Provides information and guidance concerning an acceptable means of showing compliance with the requirements of Section 23.701 (amendment 23-42) of the Federal Aviation Regulations (FAR) applicable to flap interconnections.

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.

23.807-2 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 an 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 (12-21-84). (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 the installation of fuel flowmeters/fuel totalizers in small airplanes with continuous-flow, fuel-injection, reciprocating engines.

23.1309-1A Equipment, Systems, and Installations in Part 23 Airplanes (6-3-92). (ACE-111).

Provides guidance and information for an acceptable means for showing compliance with requirements of Section 23.1309(a) and (b) (amendment 23-41) of the Federal Aviation Regulations (FAR) for subject.

23.1309-1A, Chg. 1 (8-5-92).

23.1311 1 Installation of Electronic Display Instrument Systems in Part 23 Airplanes (6-11-93). (ACE-111).

Provides an acceptable means of showing compliance with the Federal Aviation Regulations (FAR), applicable to the installation of electronic display instrument system in Part 23 airplanes.

23.1329-2 Automatic Pilot System Installation in Part 23 Airplanes. (3-4-91). (ACE-111).

Sets forth acceptable means, but not the only means, of showing compliance with the Federal Aviation Regulations (FAR), applicable to automatic pilot system installation in Part 23 airplanes.

23.1419-2 Certification of Part 23 Airplanes for Flight in Icing Conditions (1-3-92). (ACE-100).

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.

23.1521-1A Approval of Non-oxygenated Automobile Gasoline (Autogas) Instead of Aviation Gasoline (Avgas) in Part 23 Airplanes With Reciprocating Engines (1-2-91). (ACE-111).

Sets forth acceptable 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. These procedures also apply to those airplanes approved under Part 4e of the CAR.

23.1521-2 Type Certification of Oxygenates and Oxygenated Gasoline Fuels in Part 23 Airplanes with Reciprocating Engines (1-21-93). (ACE-111).

Provides information and guidance concerning an acceptable 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 for certification of alternate fuels. Also apply to those airplanes approved under Part 4a of the CAR and Aeronautics Bulletin 7a.

25-4 Inertial Navigation Systems (INS) (2-18-66). (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). (AIR-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 maybe 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.

25-12 Airworthiness Criteria for the Approval of Airborne Windshear Warning Systems in Transport Category Airplanes (11-2-87). (ANM-111).

Provides guidance for the airworthiness approval of airborne windshear warning systems in transport category airplanes.

25-13 Reduced and Derated Takeoff Thrust (Power) Procedures (5-4-88). (ANM-112).

Provides guidance for the certification and use of reduced thrust (power) for takeoff and derated takeoff and derated thrust on turbine powered transport category airplanes. Serves as a ready reference for those involved with airplane certification and operation..

25-14 High Lift and Drag Devices (5-4-88). (ANM-112).

Sets forth an acceptable means of compliance with the provisions of Part 25 of the FAR dealing with the certification requirements for high lift and drag devices. Guidance information is provided for showing compliance with structural and functional safety standards for high lift and drag devices and their operating systems.

25-15 Approval of Flight Management Systems in Transport Category Airplanes (11-20-89). (ANM-111).

Provides guidance material for the airworthiness approval of flight management systems (FMS) in transport category airplanes. Is issued for guidance purposes and to outline a method of compliance with the rules. In lieu of following this method without deviation, the applicant may elect to follow an alternate method, provided the alternate method is also found by the FAA to be an acceptable means of complying with the requirement of Part 25.

25-16 Electrical Fault and Fire Prevention and Protection (4-5-91). (ANM-111).

Provides information and guidance on electrically caused faults, overheat, smoke, and fire in transport category airplanes. Acceptable means are provided to minimize the potential for these conditions to occur, and to minimize or contain their effects when they do occur.

25-17 Transport Airplane Cabin Interiors Crashworthiness Handbook (7-15-91). (ANM-114).

Provides acceptable certification methods, but not necessarily the only acceptable methods, for demonstrating compliance with the crashworthiness requirements of Part 25 of the FAR for transport category airplanes. (\$11.00 Supt. Docs.) SN 050-007-00915-1.

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.

25.562-1 Dynamic Evaluation of Seat Restraint Systems and Occupant Protection on Transport Airplanes (3-6-90). (ANM-112).

Provides information and guidance regarding acceptable means of compliance with Part 25 of the Federal Aviation Regulations (FAR) applicable to dynamic testing of seats intended for use in transport category airplanes.

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.

25.703-1 Takeoff Configuration Warning Systems (3-17-93). (ANM-111).

Provides guidance for the certification of takeoff configuration warning systems installed in transport category airplanes.

25.773-1 Pilot Compartment View for Transport Category Airplanes (1-8-93). (ANM-111).

Provides guidance for demonstrating compliance with the airworthiness standards for transport category airplanes pertaining to pilot compartment view. These criteria include the properties of transport materials necessary to assure adequate visibility from the flight deck.

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). (AIR-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.

25.803-1 Emergency Evacuation Demonstrations (11-13-89). (ANM-114).

Provides guidance material on a means, but not the only means, of compliance with the FAR concerning (1) conduct of full-scale emergency evacuation demonstrations, and (2) use analysis and tests for emergency evacuation demonstrations in lieu of conducting an actual demonstration.

25.807-1 Uniform Distribution of Exits (8-13-90). (ANM-114).

Provides guidance material for acceptable means, but not the only means, of demonstrating compliance with the requirements for distributing required passenger emergency exits uniformly. Addresses only those passenger-carrying airplanes, including mixed passenger/cargo ("combi") configurations, with a type certification basis for Amendment 25-15 or later with respect to Section 25.807(c) or airplanes with an earlier type certification basis required by Section 25.2 to meet Section 25.807, Amendment 25-15. Does not address airplanes with only one pair of required exits.

25.812-1A Floor Proximity Emergency Escape Path Marking (5-22-89). (ANM-114).

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.

25.963-1 Fuel Tank Access Covers (7-29-92). (ANM-112).

Sets forth a means of compliance with the provisions of Part 25 of the FAR dealing with the certification requirements for fuel tank access covers on turbine powered transport category airplanes. Guidance information is provided for showing compliance with the impact and fire resistance requirements of Section 25.963(e).

25.981-1A Guidelines for Substantiating Compliance With the Fuel Tank Temperature Requirements (1-20-71). (AIR-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.

25.1309-1A System Design Analysis (6-21-88). (ANM-112).

Describes various acceptable means for showing compliance with the requirements of section 25.1309(b), (c), and (d) of the Federal Aviation Regulations (FAR). These means are intended to provide guidance for the experience engineering and operational judgement that must form the basis for compliance findings.

25.1329-1A Automatic Pilot Systems Approval (7-8-68). (ANM-110A).

Sets forth an acceptable means by which compliance with the automatic pilot installation requirements of FAR 25.1329 may be shown.

25.1357-1 Circuit Protective Device Accessibility (9-20-88). (ANM-111).

Describes acceptable means of compliance with the requirements of section 25.1357(d) and (f) of the FAR with respect to the accessibility of circuit protection devices (CPD), such as circuit breakers or fuses. An applicant may elect to use any alternative means found to be acceptable by the FAA for compliance with the FAR.

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 (11-3-69). (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.

25.1523-1 Minimum Flightcrew (2-2-93). (ANM-111).

Sets forth a method of compliance with the requirements of Section 25.1523 of the FAR which contains the certification requirements for minimum flightcrew on transport category airplanes.

25.1529-1 Instructions for Continued Airworthiness of Structural Repairs on Transport Airplanes (8-1-91). (ANM-112).

Provides instructions to ensure continued airworthiness of structural repairs on transport category airplanes. It addresses the approval procedures to follow when making structural repairs to structure certificated under the damage tolerance requirements of Section 25.571 of FAR, Amendment 25-45, and to type designs

with Supplemental Inspection Documents which were based on these criteria.

27-1 Certification of Normal Category Rotorcraft (8-29-85). (Consolidated reprint incorporates changes 1 and 2). (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 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. (\$24.00 Supt. Docs.) SN 050-007-00924-1.

27-1, Chg. 3 (9-12-91). (\$9.50 Supt. Docs.) SN 050-007-00916-0.

Revises 12 paragraphs and adds 20 new paragraphs previously shown as reserved. Several paragraphs were renumbered for better continuity between AC 27-1 and AC 29-2A.

29-1 Approval Basis for Automatic Stabilization Equipment (ASE) Installations in Rotorcraft (12-26-63). (AIR-160).

Gives means for compliance with flight requirements in various CAR's.

29-1, Chg. 1 (3-26-64).

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. (\$36.00 Supt. Docs.) SN 050-007-00767-1.

29-2A, Chg. 1 (4-24-89). (\$9.00 Supt. Docs.) SN 050-007-00825-2.

Revises 13 paragraphs and adds 32 new paragraphs previously shown as reserved.

29-2A, Chg. 2 (9-24-91). (\$11.00 Supt. Docs.) SN 050-007-00918-6.

Revises existing material in 17 paragraphs and adds new material for 41 paragraphs previously as "RESERVED."

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.

■ **33-2B Aircraft Engine Type Certification Handbook (6-30-93). (ANE-110).**

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 (9-9-68). (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.

33-5 Turbine Engine Rotor Blade Containment/Durability (11-7-89). (ANE-110).

Provides guidance and acceptable methods, but not the only methods, that may be used by an applicant in showing compliance with the turbine engine rotor blade containment requirements of Part 33 of the Federal Aviation Regulations (FAR).

33.47-1 Detonation Testing In Reciprocating Aircraft Engines (6-27-88). (ANE-110).

Provides guidance material for acceptable means of demonstrating compliance with the requirements of FAR Part 33, relating to detonation testing for reciprocating aircraft 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.

■ **35.37-1 Composite Propeller Blade Fatigue Substantiation (5-11-93). (ANE-110).**

Provides guidance and an acceptable method, but not the only method, by which composite propeller blades can be fatigue for determination of safe vibrating loading, as required by FAR Part 35.37.

■ **35.37-1, Chg. 1 (9-7-93). (ANE-110).**

36-1F Noise Levels for Certificated and Foreign Aircraft (6-5-92). (AEE-110).

Provides noise level data for airplanes certificated under FAR Part 36. Noise level data for foreign airplanes certificated to ICAO Annex 16 standards are also provided in a separate appendix 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.

36-3F Estimated Airplane Noise Levels in A-Weighted Decibels (8-10-90). (AEE-110).

Provides listings of estimated airplane noise levels in units of A-weighted sound levels in decibels (dBA). A-weighted noise levels were estimated for each airplane as they might occur during type certification tests conducted under Appendices A, B and C of Federal Aviation Regulations Part 36.

36-4B Noise Certification Handbook (3-23-88). (AEE-3).

Promotes uniformity of implementation of the noise certification requirements of Part 36 of the Federal Aviation Regulations (FAR) by presenting technically acceptable test, analysis, and documentation procedures for subsonic turbojet airplanes that may be used by applicants for demonstrating compliance with Part 36. Where appropriate, FAA policy governing such certifications is reviewed.

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.

39-6P Announcement of Availability Summary of Airworthiness Directives (2-18-92). (AFS-632).

Announces the availability of 1992 edition of subject publication in paper copy and microfiche and also provides information for ordering these publications.

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.

43-4A Corrosion Control for Aircraft (7-25-91). (AFS-340).

Summarizes current available data regarding identification and treatment of corrosive attack on aircraft structure and engine materials.

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 non-destructive 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). (AFS-340).

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-350).

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. (AFS-632).

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.

43-203B 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.

43.9-1E Instructions for Completion of AA 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).

43.13-1A Acceptable Methods, Techniques and Practices Aircraft Inspection and Repair (4-17-72). (AFS-600). (with Errata Sheet).

Contains methods, techniques, and practices acceptable to the Administrator for inspection and repair to civil aircraft. Published in 1973. (Consolidated reprint incorporates Changes 1, 2, and 3.) (\$18.00 Supt. Docs.) SN 050-007-00806-6.

43.13-2A 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. (\$7.00 Supt. Docs.) SN 050-007-00625-0.

43.13-2A Chg. 2 (10-30-89). (\$1.00 Supt. Docs.) SN 050-007-00848-1.

45-2A Identification and Registration Marking (4-16-92). (AIR-230).

Provides guidance and information concerning the identification and marking requirements of Federal Aviation Regulations (FAR) Part 45, and describes 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). (AIR-200).

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.

Airmen

Subject No. 60

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-820).

Calls attention to the regulatory requirements relating to the subject and provides information to aid pilots to comply with these requirements.

60-11B Aids Authorized for Use by Airman Written Test Applicants (10-10-90). (AFS-840).

Clarifies FAA policy concerning aids that applicants may use when taking airman written tests.

60-13 The Accident Prevention Counselor Program (4-27-76). (AFS-20).

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.

60-14 Aviation Instructor's Handbook (7-7-76). (AFS-632).

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. (\$7.00 Supt. Docs.) SN 050-011-00072-1.

60-20 Announcement of Availability: New Airmen Written Test System (6-1-88). (AFS-632).

Announces the availability of the new series written test question books for use in the airman certification program.

60-21 Announcement of Availability: A Series of Aeronautical Decision Making Training Manuals (7-20-90). (AFS-830).

Informs all FAA certificated pilots, flight instructors, designated pilot examiners, aviation medical examiners, air traffic controllers, and other interested persons of the availability of aeronautical decision making (ADM) training manuals.

60-22 Aeronautical Decision Making (12-13-91). (AFS-550).

Provides introductory material, background information, and reference material on aeronautical decision making. Provides a systematic approach to risk assessment and stress management in aviation, illustrates how personal attitudes can influence decision making and how these attitudes can be modified to enhance safety in the cockpit.

61-9B Pilot Transition Courses for Complex Single Engine and Light, Twin-Engine Airplanes (1-15-74). (AFS-630).

A guide to the procedures and standards to be followed for a thorough and comprehensive checkout in modern single- and twin-engine aircraft. (\$3.00 Supt. Docs.) SN 050-007-00226-2.

61-10A Private and Commercial Pilots Refresher Courses (9-27-72). (AFS-632).

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.

61-12L Student Pilot Guide (July 31, 1992). AFS-632).

Serves as a guide for prospective student pilots and for those already engaged in flight training. It should answer most of the questions that the student may have prior to or during pilot training. This guide presents, in a "how to go about it" fashion, general procedures for obtaining Student, Private, and Recreational Pilot Certificates. (\$1.25 Supt. Docs.) SN 050-007-00959-3.

61-13B Basic Helicopter Handbook
(Revised 1978). (AFS-632). (with
Errata Sheet).

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-600).

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. (\$17.00 Supt. Docs.) SN 050-007-00504-1.

**61-23B Pilot's Handbook of
Aeronautical Knowledge (4-3-79).**
(AFS-632).

Contains essential, information used in training and guiding applicants for pilot certification, flight instructors, and flying school staffs. (\$10.00 Supt. Docs.) SN 050-011-00077-1.

61-27C Instrument Flying Handbook
(11-5-79). (Rev. 1980). (AFS-600).

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 AC 61-23B, "Pilot's Handbook of Aeronautical Knowledge". (\$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.

**61-65C Certification: Pilot and Flight
Instructors (2-11-91).** (AFS-840).

Provides guidance for pilots and flight instructors on the certification standards, written test procedures, and other requirements contained in FAR Part 61.

**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.

61-67B Stall Spin Awareness Training
(5-17-91). (AFS-840).

Explains the stall and spin awareness training required under FAR Part 61 and offers guidance to flight instructors who provide that training. Informs pilots of the airworthiness standards for the type certification of small airplanes prescribed in FAR 23.221 concerning spin maneuvers and emphasizes the importance of observing restrictions which prohibit the intentional spinning of certain airplanes.

**61-83C Nationally Scheduled (FAA)
Approved, Industry-Conducted
Flight Instructor Refresher Clinics**
(10-25-88). (AFS-840).

Provides guidance on the preparation and approval of a training course outline (TCO) for industry-conducted flight instructor refresher clinics (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. Adherence to this advisory circular provides an acceptable method for approval of an FIRC.

**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.

**61-89D Pilot Certificates: Aircraft Type
Ratings (2-21-91).** (AFS-840).

Provides a generic type rating curriculum that may serve as a basis for schools to develop a training requirements of Federal Aviation Regulations Parts 61 and 141.

**61-91F Pilot Proficiency Award
Program (3-6-91).** (AFS-20).

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

**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.

**61-98A Currency and Additional
Qualification Requirements for
Certificated Pilots (3-26-91).** (AFS-
840).

Provides information for certificated pilots and flight instructors to use in complying with flight review required by FAR Section 61.56, the recent flight experience requirements of FAR Section 61.57, and the general limitations contained in FAR Section 61.31(d), (e), and (g). It also provides guidance regarding transition to other makes and models of aircraft.

61-101 Presolo Written Test (4-21-89).
(AFS-632).

Provides guidance to flight instructors in developing a written test to administer to student pilots prior to solo flight.

**61-102 Computer-Assisted Airmen
Knowledge Testing (5-3-89).** (AFS-
630).

Announces the implementation of a prototype computerized airmen knowledge testing method applicable to all Federal Aviation Administration (FAA) pilot and flight engineer certification areas and disseminates information to all interested commercial vendors desiring to qualify as FAA-approved computer testing designees (CTD's).

**61-103 Announcement of Availability:
Industry-Developed Transition
Training Guidelines for High
Performance Aircraft (5-23-89).**
(AFS-840).

Informs all FAA certificated pilots and flight instructors of the availability of industry-developed guidelines (and how to order) for pilots transitioning into high performance single and multiengine piston-powered small airplanes and single and multiengine turbopropeller small airplanes.

**61-105 Announcement of Availability:
FAA-S-8081-9A, Flight
Instructor Practical Test**

**Standards for Instrument
(Airplane and Helicopter) (5-22-
90). (AFS-840).**

Announces the availability of subject.

**61-107 Operations of Aircraft at
Altitudes Above 25,000 Feet MSL
and/or MACH numbers (Mmo)
Greater Than .75 (1-23-91). (AFS-
830).**

Alerts pilots transitioning to complex, high-performance aircraft which are capable of operating at high altitudes and high airspeeds of the need to be knowledgeable of the special physiological and aerodynamic considerations involved within this realm of operations.

**61-108 Announcement of Availability:
FAA-S-8081-6A, FAA-T-8080-17,
FAA-T-8080-18, and FAA-T-8080-
19. (12-11-91). (AFS-630).**

Announces the availability of FAA-S-8081-6A, Flight Instructor Practical Test Standards for Airplane (Single-engine and Multiengine); FAA-T-8080-17, Airline Transport Pilot and Dispatcher Written Test Book; FAA-T-8080-18, Flight and Ground Instructor Written Test Book; and FAA-T-8080-19, Flight Engineer Written Test Book.

**61-109 DAnnouncement of Availability:
FAA-T-8080-10D, FAA-T-8080-
11D, FAA-T-8080-12D, FAA-T-
8080-15A, FAA-T-8080-16A, and
FAA-T-8080-20 (8-17-92). (AFS-
630).**

Announces the availability of FAA-T-8080-10D, Aviation Mechanic General Written Test Book, FAA-T-8080-11D, Aviation Mechanic Powerplant Written Test Book, FAA-T-8080-12D, Aviation Mechanic Airframe Written Test Book, FAA-T-8080-15A, Recreational Pilot and Private Pilot Written Test Book, FAA-T-8080-16A, Commercial Pilot Written Test Book, and FAA-T-8080-20, Instrument Rating Written Test Book.

**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.

**65-5B Parachute Rigger Senior/Master-
certification Guide (7-25-88). (AFS-
632).**

Provides information to persons interested in becoming certificated parachute riggers. Provides information on how to apply for a parachute rigger certificate and ratings, and assists the applicant in preparing for the written, oral, and practical tests. (\$1.25 Supt. Docs.) SN 050-007-00805-8.

**65-9A Airframe and Powerplant
Mechanics--General Handbook
(4-12-76). (AFS-632).**

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-632).**

Designed to familiarize student mechanics with the construction, theory of operation, and maintenance of aircraft powerplants. (\$12.00 Supt. Docs.) SN 050-007-00373-1.

**65-13M FAA Inspection Authorization
Directory (9-3-92). (AFS-632).**

Transmits a listing of all certificated mechanics who held an inspection authorization as of August 19, 1992. (\$15.00 Supt. Docs.) SN 050-007-00972-1.

**65-15A Airframe and Powerplant
Mechanics Airframe Handbook (4-
12-76). (AFS-632).**

Designed to familiarize student mechanics with airframe construction, repair, and the operating theory of airframe systems. (\$13.00 Supt. Docs.) SN 050-007-00391-9.

**65-19E Inspection Authorization Study
Guide (Revised April 1991). (AFS-
632).**

Provides guidance for persons who conduct annual and progressive inspections and approve major repairs and/or major alterations of aircraft. The guide is primarily intended for mechanics who hold or who are preparing to take the test for an inspection authorization (IA). This guide stresses the important role that certificated mechanics who hold an inspection authorization have in air safety (\$1.50 Supt. Docs.) SN 050-007-00901-1.

**65-23A Certification of Repairmen
(Experimental Aircraft Builders)
(7-22-87). (AFS-340).**

Provides guidance to builders of experimental aircraft concerning certification as repairmen.

**65-24 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.

**65-25 Aviation Maintenance Technician
Awards Program (8/28/92). (AFS-
300).**

Outlines the requirements for participation in the Federal Aviation Administration's Aviation Maintenance Technician Awards Program.

**65-26 Charles Taylor "Master
Mechanic Award (4-23-93). (AFS-
360).**

Announces the Charles Taylor "Master Mechanic" award. The new FAA award recognizes aviation maintenance personnel who have at least 50 years of experience in the aviation maintenance industry.

**67-1 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.

**67-2 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. (\$5.00 Supt. Docs.) SN 050-007-00254-8.

Air Traffic Control and General Operations

Airspace

Subject No. 90

Subject No. 70

70-2D Airspace Utilization

Considerations in the Proposed Construction, Alteration, Activation and Deactivation of Airports (8-1-79). (ATP-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.

70/7460-1H Obstruction Marking and Lighting (6-7-91). (eff. 8-1-91). (ATP-240).

Describes the FAA standards for marking and lighting structures to promote aviation safety.

70/7460-1H, Chg. 1 (8-16-91).

Amends the Federal Aviation Administration's (FAA) standards for marking and lighting structures to promote safety.

70/7460-1H, Chg. 2 (7-15-92).

Amends the Federal Aviation Administration's (FAA) standards for marking and lighting structures to promote safety.

70/7460-2I Proposed Construction or Alteration of Objects that may Affect the Navigable Airspace (11-3-88). (ATP-210).

Provides information to persons proposing to erect or alter an object which may affect the navigable airspace. Explains the need to notify FAA Federal Aviation Administration (FAA) before construction begins and FAA's response to these notices as required by FAR Part 77.

73-2 IFR 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 safe use of these routes. The use of these routes is voluntary.

90-23E Aircraft Wake Turbulence (10-1-91). (AFS-430).

Alerts pilots to the hazards of aircraft wake turbulence and recommends related operational procedures.

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

Explains "wheelbarrowing", the circumstances under which it is likely to occur, and recommended corrective action.

90-42F Traffic Advisory Practices at Airports Without Operating Control Towers (5-21-90). (ATP-236).

Contains good operating practices and procedures for use when approaching or departing airports without an operating control tower and airports that have control towers operating part time. Includes changes in radio frequencies and phraseology.

90-43F Operations Reservations for High-Density Traffic Airports (HDTA's) (4-22-85). (ATM-100).

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). (Consolidated Reprint includes change 1 and 2).

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).

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.

90-50D Requirements for 760-Channel VHF Radio for Aeronautical Operations (4-9-92). (ASM-520).

Encourages aircraft owners to upgrade their air-ground radio communication systems. Describes and upgrades civil air traffic control frequencies in the very high frequency (118.000 to 136.975 MHz) band. The 136.000 to 136.975 MHz band become available for aeronautical use on January 1, 1990.

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.

90-66A Recommended Standard Traffic Patterns and Practices for Aeronautical Operations at Airports without Operating Control Towers (8-26-93). (ATP-234).

Calls attention to regulatory requirements and recommended procedures for aeronautical operations at airports without operating control towers. It recommends traffic patterns and operational procedures for aircraft, lighter than air, glider, parachute, rotorcraft, and ultralight vehicle operations where such use is not in conflict with existing procedures in effect at those airports.

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

90-72B Minimum Safe Altitude Warning (MSAW) En Route Safe Altitude Warning (E-MSAW) (6-24-91). (ATP-127).

Describes the capabilities and limitations MSAW and En Route-MSAW contains only information which does not impose requirements on the public or the FAA.

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.

90-76B Flight Operations in Oceanic Airspace (1-29-90). (ATP-342).

Provides basic information for flights into oceanic airspace under U.S. air traffic control jurisdiction.

90-79 Recommended Practices and Procedures for the Use of Electronic Long-Range Navigation

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

90-80A Approval of Airborne Radar Approach (ARA) Procedures For Helicopters to Offshore Platforms (10-21-88). (AFS-630).

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.

90-87 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.

90-89 Amateur-Built Aircraft Flight Testing Handbook (9-18-89). (AFS-20).

Provides an amateur-builder with procedures and recommendations on how to develop a flight test plan for his/her aircraft. (\$3.25 Supt. Docs.) SN 050-007-00840-6

90-91 National Route Program (4-24-92). (ATM-110).

Describes the procedures to be used under the National Route Program, which combines the Wind Route and Direct Route programs.

■ **90-92 Guidelines for the Operational Use of Loran-C Navigation Systems Outside the U.S. NAS (2-5-93). (AFS-430).**

Contains guidance to be used by pilots for the operational use of Loran-C navigation systems under visual flight rules and instrument flight rules while operating outside the U.S. NAS and beyond the coverage of standard International Civil Aviation Organization navigation aids. These navigation aids include very high frequency omnidirectional beacons. Also contains guidance which is applicable for use while over the Gulf of Mexico and other coastal waters.

■ **90-92, Chg. 1 (6-15-93).**

■ **90-93 Operating Procedures for Airport Traffic Control Towers (ATCT) That Are Not Operated by, or Under Contract with, the United States (Non-Federal) (7-19-93). (ATP-230).**

Recommends government publications and procedures for the operation by, equipment installation at, and maintenance of, record keeping by, accident/incident reporting by, tower specialist training for, and management of a non-Federal ATCT (NFCT).

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-430).

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

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-400).

Provides guidelines for designing, installing, and evaluating altitude alerting systems.

91-23A Pilot's Weight and Balance Handbook (6-9-77). (AFS-632).

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). (ATO-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 propellers-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). (AFS-630/AIR-120).

Combines and updates material in several Advisory Circulars on the subject of emergency locator transmitters (ELT) and receivers for airborne service.

91-45C Waivers: Aviation Events (2-1-90). (AFS-20).

Provides prospective aviation event sponsors and other interested parties with information necessary to assist in planning and conducting a safe aviation event. In addition, it provides information on the application process for a certificate of Waiver or Authorization.

91-46 Gyroscopic Instruments. Good Operating Practices (2-4-77). (AFS-350).

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.

91-48 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-820).

Provides information and guidance concerning the importance of

transponderoperation 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.

91-53A Noise Abatement Departure Profile (7-22-93). (AFS-430).

Describes acceptable criteria for safe noise abatement departure profiles (NADP) for subsonic turbojet-powered airplanes with a maximum certificated gross takeoff weight of more than 75,000 pounds. These procedures provide the user with one means, although not the only means, of establishing acceptable NADP's. These departure profiles are consistent with the airworthiness standards required by the Federal Aviation Regulations Part 25 for type certification and Part 91 for general airplane operations.

91-54 Automatic Reporting Systems--Altimeter Setting and Other Operational Data (2-26-79). 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). (AIR-107).

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 or 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.

91-62A Use of Child Seats In Aircraft (10-15-92). (AIR-121).

Provides information to assist the public in the proper use of child seats aboard aircraft and provides precautions so all occupants are able to exit rapidly from aircraft during emergencies.

91-63A Temporary Flight Restrictions (TFR) (10-31-90). (ATP-234).

Describes the types of conditions under which the FAA impose a temporary flight restriction. Also explains which elements have been delegated authority by the Administrator to issue TFR's and lists the types of responsible agencies/offices from which the FAA will accept requests to establish TFR's. Examples of NOTAM's for each type of TFR are also provided.

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 effectivity 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.

91-67 Minimum Equipment Requirements for General Aviation Operations Under FAR Part 91 (6-28-91). (AFS-550).

Describes acceptable methods for the operation of aircraft under Federal Aviation Regulations Part 91 with certain inoperative instrument and equipment, which are not essential for safe flight.

91-68 Pilot Qualification and Operation of all Surplus Military Turbine-Powered Airplanes (2-25-92). (AFS-820).

Provides information and guidance to pilots who wish to become qualified to operate surplus military turbine-powered airplanes under a letter of authorization, as required by operating limitations issued for this type of aircraft.

91-69 Seaplane Safety for FAR Part 91 Operations (3-13-92). (AFS-820).

Provides information to FAR Part 91 seaplane operators regarding seaplane

preflight, oral briefings for seaplane passengers, the use of safety belts and shoulder harnesses in seaplanes, escape/egress after capsizing, water survival, and flotation gear for seaplane occupants. Recommends that seaplane operators equip their aircraft with approved flotation gear that is readily available to, and preferably worn by, each occupant and that pilots in command brief passengers on the location and use of flotation gear and the location and operation of each normal and emergency exit.

91.11-1 Guide to Drug Hazards in Aviation Medicine (7-19-63). (AAM-620).

Lists all commonly used drugs by pharmaceutical effect on airmen with side effects and recommendations. (\$5.50 Supt. Docs.) SN 050-009-00001-7.

91.21-1 Use of Portable Electronic Devices Aboard Aircraft (8-20-93). (AFS-350).

Provides aircraft operators with information and guidance for assistance in the compliance of FAR Section 91.21.

91.83-1B Canceling or Closing Flight Plans (6-24-82). (ATP-110).

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-400).

Describes RVR measuring equipment and its operating use.

99-1C Security Control of Air Traffic (4-20-89). (ATP-140).

Provides civil aviation with recommended practices for operating aircraft within air defense identification zone or when penetrating an air defense identification zone (ADIZ) during peacetime conditions. Specifies the procedures for use during an air defense emergency/defense emergency or prior to these declarations when procedures for Security Control of Air Traffic and Navigation Aids are in effect. Also provides information for airmen to use when area/sector/regional Emergency Security Control of Air Traffic procedures

101-1A Waivers of Part 101, Federal Aviation Regulations (6-30-81). (ATO-223).

Provides information on submission of applications and issuance of waivers of 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.

105-2C Sport Parachute Jumping (1-2-91). (AFS-340/820).

Provides suggestions to improve sport parachuting safety and disseminates information to assist all parties associated with sport parachuting in complying with FAR Part 105, Parachute Jumping. It also contains a list of aircraft which may be operated with one cabin door removed and includes procedures for obtaining FAA authorization for flight with 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 050-007-00643-8.

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.

120-26H International Civil Aviation Organization Three-Letter and Radio Telephony Designators (6-21-91). (ATP-215).

Defines the criteria and procedures required for an International Civil Aviation Organization (ICAO) three-letter and/or telephony designator assignment.

120-27B Aircraft Weight and Balance Control (10-25-90). (AFS-330A).

Provides guidance to certificate holders that are required to have an approved weight and balance control program by the Federal Aviation Regulations (FAR) Part 121 or elect to have an approved program under FAR Part 135.

120-28C Criteria for Approval of Category III Landing Weather Minima (3-9-84). (AFS-410).

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 (9-8-76). (AFS-330).

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.

120-35B Line Operational Simulations: Line-Oriented Flight Training, Special Purpose Operational Training, Line Operational Evaluation (9-6-90). (AFS-210).

Presents guidelines for the design and implementation of subject advisory circular.

120-36A Air Carrier Dispersal Planning Program (12-16-88). (APR-130).

Updates subject plan.

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). (AIR-120).

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 (O₃) 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.

120-40B Airplane Simulator

Qualification (7-29-91). (ASO-205).

Provides an acceptable means, but not the only means, of compliance with the Federal Aviation Regulations (FAR) regarding the evaluation of and qualification of airplane simulators used in training programs or airmen checking under Title 14 Code of Federal Regulations (CFR).

120-40B, Chg. 1 (1-24-92). (AFS-214).

120-40B, Chg. 2 (6-9-93). (AFS-205).

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.

120-42A Extended Range Operation With Two-Engine Airplanes (ETOPS) (12-30-88). (AFS-210).

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.

120-45A Airplane Flight Training Device Qualification (2-5-92). (ASO-205).

Provides an acceptable means of ensuring compliance with the FAR regarding the evaluation and qualification of all training

devices in which flight training, qualification, or certification of airmen under Title 14, Code of Federal Regulations, is accomplished. Specifies the criteria to be used by the FAA when qualifying a device and determining what the qualification level should be.

120-46 Use of Advanced Training Devices (Airplane Only) (6-12-87). (AFS-210).

Sets forth an acceptable means, but not the only means, of showing compliance for use of airplane Advanced Training Devices (ATS'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.

120-48 Communication and Coordination Between Flight Crewmembers and Flight Attendants (7-13-88). (AFS-220).

Presents information on common problems associated with crew coordination between flight crewmembers and flight attendants and how these problems can be avoided.

120-49 Certification of Air Carriers (11-23-88). (AFS-200).

Provides information and guidance material on the certification process of air carriers under FAR Part 121 and Part 135. It provides information that can be used by applicants who desire to be certificated as an air carrier in accordance with FAR Part 121 and Part 135.

120-50 Guidelines for Operational Approval of Windshear Training Programs (10/10/89). (AFS-210).

This advisory circular provides guidance for approval of low-altitude windshear training for FAR Parts 121 and 135 certificate holders. Compliance with these guidelines is not, in itself, mandatory and does not constitute a regulation. This advisory circular is issued for guidance purposes to outline a method of compliance with the FAR. An applicant may elect to follow an alternate method,

provided that alternate method is found acceptable by the FAA.

120-51A Crew Resource Management Training (2-10-93). (AFS-210).

Presents guidelines for developing, implementing, reinforcing, and accessing Crew Resource Management (CRM) training programs for flight crewmembers and other personnel essential to flight safety. These programs are designed to become an integral part of training and operations. Guidelines are for reference by FAR Parts 121 and 135 certificate holders to increase the efficiency with which flight personnel perform by focusing on communications skills, teamwork, task allocation, and decisionmaking.

120-52 Radiation Exposure of Air Carrier Crewmembers (3-5-90). (CAMI-AAM-600).

Provides (a) information on cosmic radiation and or air shipments of radioactive material as sources of ionizing radiation exposure during air travel; (b) guidelines for exposure to radiation; (c) estimates of the amounts of galactic cosmic radiation received on air carrier flights on various routes to and from, or within, the contiguous United States (table 1); and (d) example calculations for estimating health risks from exposure to galactic cosmic radiation.

120-53 Crew Qualification and Pilot Type Rating Requirements for Transport Category Aircraft Operated Under FAR Part 121 (5-13-91). (AFS-200).

Provides an acceptable means, but not the only means, of compliance with the FAR regarding qualification and type rating of flight crewmembers operating under FAR Part 121. Included are criteria for determination and approval of training, checking, and currency necessary for safe operation of aircraft in air carrier operations, particularly for pilots who frequently fly different variants of the same type aircraft. Describes the process by which the FAA determines "type rating" requirements applicable to the pilot in command of new or modified aircraft.

120-54 Advanced Qualification Program (8-9-91). (AFS-210).

Provides FAA guidance for approval of an Advanced Qualification Program (AQP) under SFAR 58.

120-55A Air Carrier Operational Approval and Use of TCAS II (8-27-93). (AFS-450).

Provides an acceptable means, but not the only means, to address Traffic Alert and Collision Avoidance System (TCAS) issues related to installation of TCAS II regarding compliance with Federal Aviation Regulations Parts 121, 125, and 129 requirements for air carriers.

120-56 Air Carrier Voluntary Disclosure Reporting Procedures (1-23-92). (AFS-201).

Provides information and guidance material that may be used by air carrier certificate holders operating under Federal Aviation Regulations Parts 121 and 135 when electing to voluntarily disclose apparent violations to the Federal Aviation Administration.

120-57 Surface Movement Guidance and Control System (9-4-92). (AFS-410).

Describes the standards and provides guidance in the development of a Surface Movement Guidance and Control System (SMGCS) plan for U.S. airports conducting operations in visibility conditions less than 1,200 feet runway visual range.

120-58 Pilot Guide for Large Aircraft Ground Deicing (9-30-92). (AFS-400).

Contains recommendations for ensuring safe operations of large airplanes during icing conditions and guidelines for the development of adequate procedures for the deicing of large airplanes.

120-59 Air Carrier Internal Evaluation Programs (10-26-92). (AFS-201).

Provides information and guidance material that may be used by air carrier certificate holders, operating under Federal Aviation Regulations (FAR) Parts 121 and 135, to design or develop an Internal Evaluation Program. The procedures and practices outlined in this AC can be applied to maintenance, flight operations, and security aspects of an air carrier's organization. Internal evaluation guidance for certificate holders other than those

operating under FAR Pars 121 and 135 may be issued separately in the future.

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).

121-6 Portable Battery-Powered Megaphones (1-5-66). (AIR-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.

121-21B 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.

121-24A Passenger Safety Information Briefing and Briefing Cards (5-9-89). (AFS-220).
Provides information regarding the items that are required to be, or should be, covered in oral passenger briefings and on passenger briefing cards. Provides specific information about air carrier operations conducted under FAR Part 121. It also provides suggestions about making this information interesting meaningful.

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 (1-3-84). (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.

121-29 Carry on Baggage (11-2-87). (AFS-220).

Provides guidance about the information which should be contained in an air carrier's approved carry-on baggage program and provides guidance and suggestions about the means, but not the only means, of compliance with FAR Section 121.589.

121-30 Guidelines for Developing an Anti-Drug Plan for Aviation Personnel (3-16-89). (AAM-220).

Provides guidelines for developing an anti-drug plan as required by the final rule entitled "Anti-Drug Program for Personnel Engaged in Specified Aviation Activities" (53 FR 47024; 14 CFR 61, 63, 65, 121, and 135).

121.195(d)-1A Operational Landing Distances for Wet Runways: Transport Category Airplanes (6-19-90). (AFS-430).

Sets forth an acceptable means, but not the only means, of showing compliance with Federal Aviation Regulations Section 121.195(d) pertaining to operational landing distances on wet runways. It is for guidance purposes and provides an example of a method of compliance that has been found acceptable..

121.445-1D Pilot-In-Command Qualifications For Special Areas/Routes And Airports. FAR Section 121.445 (6-20-90). (AFS-220).

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 Section 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. (\$2.50 Supt. Docs.) SN 050-007-00641-1.

129-4 Maintenance Programs for U.S. Registered Aircraft Under FAR Part 129 (3-1-88). (AFS-300).

Provides information and guidance about acceptable maintenance programs for U.S. registered aircraft subject to FAR Part 129.

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.

135-4A 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.

135-12A Passenger Safety Information Briefing and Briefing Cards (FAR Part 135) (3-28-91). (AFS-250).

Provides information regarding items to be covered in oral passenger briefings and and passenger briefing cards in air carrier operations conducted under Federal Aviation Regulations (FAR) Part 135.

135-13A List of Air Carriers Certificated by FAR Part 135 (8-6-92). (AFS-632).

Transmits a list of air carriers that were certificated by the FAA under the provisions of FAR Part 135, and the list is current as of June 5, 1992. (\$6.50 Supt. Docs.) SN 050-007-00961-5.

135-14A Emergency Medical Services/-Helicopter (EMS/H) (6-20-91). (AFS-250).

Provides information and guidance material which may be used by Air Ambulance and Emergency Medical Service/Helicopter (EMS/H) operators. It must be emphasized that this AC diminishes neither the force nor the effect of the FAR. The regulations, of course, are always controlling. This AC does not interpret the regulations; interpretations are issued only under established national FAA procedures.

135-15 Emergency Medical Service/-Airplane (EMS/A) (11-19-90). (AFS-250).

Provides information and guidance material which may be used by Air Ambulance and Emergency Medical Service/Airplane (EMS/A). These guidelines are applicable to EMS/A operations under FAR Part 135 and are also recommended for EMS operations conducted by public service and other operators.

135.169-1 Small Propeller-Driven Air Taxi Airplanes That Meet Sections 135.169 (formerly 135.144) (9-24-79). (AIR-110).

Provides a summary of and information on small propeller-driven air taxi airplanes that comply with section 135.169(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.

139.49-1 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.

139.201-1 Airport Certification Manual (ACM) and Airport Certification Specifications (ACS) (7-15-88). (AAS-310).

Provides methods acceptable to the Administrator for showing compliance with the

ACM and ACS requirements contained in Part 139 of the FAR.

Schools and Other Certificated Agencies

Subject No. 140

140-2V List of Certificated Pilot Schools (3-29-93). (AFS-632).

Transmits a listing of pilot schools that are certificated by the Federal Aviation Administration (FAA) as of March 8, 1993. (\$2.25 Supt. Docs.) SN 050-007-00979-8

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.

140-7G Federal Aviation Administration Certificated Maintenance Agencies Directory (7-15-93). (AFS-632).

Transmits a consolidated directory of all certificated FAA repair stations, manufacturer's maintenance facilities, and parachute lofts. The repair stations, and manufacturer's maintenance facilities were certificated under the authority of FAR Part 145, and the directories are current as of May 12, 1993, and May 27, 1993, respectively. (\$9.50 Supt. Docs.) SN 050-007-01003-6.

141-1A Pilot School Certification (2-18-93). (AFS-554).

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

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). (AIR-200).

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)).

147-2AA Directory of FAA Certificated Aviation Maintenance Technician Schools (8-18-93). (AFS-640)

Transmits a directory of all FAA certificated aviation maintenance technician schools as of August 10, 1993, under the authority of FAR Part 147, Aviation Maintenance Technician Schools. (\$3.00 Supt. Docs.) SN 050-007-01009-5.

147-3 Certification and Operation of Aviation Maintenance Technician Schools (AMTS) (5-22-91). (AFS-340).

Provides guidance to assist persons in obtaining and maintaining Federal Aviation Administration certification of an AMTS. FAR Part 147, Aviation Maintenance Technician Schools, specifies requirements for the certification and operation of an AMTS. The regulation

includes both the curriculum requirements and operating rules for all certificated AMTS.

Airports

Subject No. 150

AIRPORT PLANNING

150/5000-3Q Address List for Regional Airports Divisions and Airports District/Field Offices (9-29-93). (ARP-11).

Transmits the address list for all regional Airports Divisions and Airports District/Field Offices.

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.

150/5000-5B Designated U.S. International Airports (7-28-88). (AAS-3).

Explains the different categories of U.S. airports designated to serve international air traffic and provides a listing of these 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 Airports."

150/5000-8 Office of Airport Safety and Standards Electronic Bulletin Board (7-27-92). (AAS-120).

Provides guidance in the use of the FAA Airports Bulletin Board System.

150/5000-9A Announcement of Availability Report No. DOT/FAA/PP/92-5, Guidelines for the Sound Insulation of Residences Exposed to Aircraft Operations (7-3-93). (APP-510).

Announces the availability of subject report.

150/5000-10A Announcement of Availability Report No. DOT/FAA/PP/92-6, Estimating the Regional Economic Significance of Airports (7-3-93). (APP-400).

Announces the availability of subject report.

150/5000-11 Announcement of Availability All Cargo Carrier Activity Report (FAA Form 5100-108, Revised). (3-34-93). (APP-400).

Provides guidance for the submission of FAA Form 5100-108 (revised as of March 1993).

150/5020-1 Noise Control and Compatibility Planning for Airports (8-5-83). (ARP-11).

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.

150/5050-3B Planning the State Aviation System (1-6-89). (APP-400).

Provides general guidance in preparing a State airport system plan. (\$3.75 Supt. Docs.) SN 050-007-00813-9.

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.

150/5050-7 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). (Consolidated reprint includes change I).

Explains how to compute airport capacity and aircraft delay for airport planning and design.

150/5070-3 Planning the Airport Industrial Park (9-30-65). (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.

150/5100-13 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.

150/5100-14B Architectural, Engineering, and Planning Consultant Services for Airport Grant Projects (11-21-88). (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.

150/5100-15A Civil Rights Requirements For The Airport Improvement Program (AIP) (3-31-89). (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.

150/5100-16A Airport Improvement Program Grant Assurance Number One—General Federal Requirements, (10-4-88). (APP-510).

Describes the Federal requirements contained in Assurance 1 of the Grant Assurances required by the Airport and Airway Improvement Act of 1982, as amended. It is intended for sponsors receiving assistance under the Airport Improvement.

SURPLUS AIRPORT PROPERTY CONVEYANCE PROGRAMS

150/5150-2B Federal Surplus Personal Property for Public Airport Purposes (10-1-84). (APP-510).

Attempts to Acquaint 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 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 change 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.

150/5190-4A A Model Zoning Ordinance to Limit Height of Objects Around Airports (12-14-87). (AAS-100). (Editorially updated).

Provides a model zoning ordinance to be used as a guide to control the height of objects around airports.

AIRPORT SAFETY-- GENERAL

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.

150/5200-15D Announcement of Availability Training Association's Manual 206, Aircraft Fire Protection and Rescue Procedures (Second Edition, 1978) (1-21-88). (AAS-120).

Explains the nature of the manual and tells how it can be obtained.

150/5200-18B Airport Safety Self-Inspection (5-2-88). (AAS-310).

Provides information to airport operators on airport self-inspection programs and identifies items that should be included in such a program.

150/5200-18B Autoinspeccion De Seguridad Para Los Aeropuertos (5-2-88). (AAS-310). (Spanish Version).

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.

150/5200-27B 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.

150/5200-28 Notices to Airmen (NOTAMS) for Airport Operators (10-2-87). (AAS-300).

Provides guidance for use of the NOTAM system for airport condition information.

150/5200-29 Announcement of Availability: Airport Self Inspection Videotape (11-6-87). (AAS-310).

Announces the availability of Airport Self Inspection Videotape and tells how it can be obtained.

150/5200-30A Airport Winter Safety and Operations (10-1-91). (AAS-100).

Provides guidance to assist airport owners/operators in the development of an acceptable airport snow and ice control program and to provide guidance on appropriate field condition reporting procedures.

150/5200-30A, Chg. 1 (11-22-91). (AAS-100).

150/5200-31 Airport Emergency Plan (1-27-89). (AAS-310).

Provides guidance for the preparation of emergency plans at civil airports.

150/5200-32 Announcement of Availability: Bird Strike Incident/Ingestion Report (2-14-90). (AAS-310).

Explains the nature of the revision of FAA Form 5200-7, Bird Strike Incident/Ingestion Report and how it can be obtained.

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 pre-

planning 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). (AAS-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.

150/5210-13A Water Rescue Plans, Facilities, and Equipment (5-31-91). (AAS-120).

Provides guidance to assist airport operators in preparing for water rescue operations.

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 an airport rescue and firefighting station.

150/5210-16 Announcement of Availability: Standardized Basic Aircraft Rescue and Firefighting

Curriculum (A Basic ARFF Training Course). (2-21-89). (AAS-314).

Announces availability of subject Course.

150/5220-4B Water Supply Systems for Aircraft Fire and Rescue Protection (7-29-92). (AAS-120).

Provides guidance for the selection of a water source and standards for the design of a distribution system to support aircraft rescue and firefighting (ARFF) 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.

150/5220-10A Guide Specification for Water/Foam Aircraft Rescue and Firefighting Vehicles (7-3-91). (AAS-120).

Contains performance standards, specifications, and recommendations for the design, construction, and testing of a family of aircraft rescue and firefighting (ARFF) vehicles.

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.

150/5220-13B Runway Surface Condition Sensor Specification Guide (3-27-91). (AAS-100).

Provides guidance to assist airport operators, consultants, and design engineers in the preparation of procurement specifications for sensor systems which monitor and report runway surface conditions.

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.

150/5220-16A Automated Weather Observing Systems (AWOS) for Non-Federal Applications, (6-12-90). (ANW-140).

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

150/5220-17A Design Standards for an Aircraft Rescue and Firefighting Training Facility (1-31-92). (AAS-100).

Contains standards, specifications, and recommendations for the design of an aircraft rescue and firefighting training facility utilizing either propane or a flammable liquid hydrocarbon (FLH) as the fuel.

150/5220-18 Buildings For Storage and Maintenance of Airport Snow and Ice Control Equipment and Materials (10-15-92). (AAS-100).

Provides guidance for site selection, design and construction of buildings used to store and maintain airport snow and ice control equipment and materials.

150/5220-20 Airport Snow and Ice Control Equipment (6-30-92). (AAS-120).

Provides guidance to assist airport operators in the procurement of snow and ice control equipment for airport use.

150/5220-21 Guide Specifications for Lifts Used to Board Airline Passengers with Mobility Impairments (2-10-93). (AAS-100).

Contains performance standards, specifications, and recommendations for the design, construction, and testing of lifts used to assist in the boarding of airline passengers with mobility impairments.

150/5230-4 Aircraft Fuel Storage, Handling, and Dispensing On Airports (8-27-82). (AAS-300). (Consolidated reprint includes changes 1 and 2).

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

**DESIGN CONSTRUCTION,
AND MAINTENANCE--
GENERAL**

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.

150/5300-13 Airport Design (9-29-89). AAS-110).

Contains the FAA's standards and recommendations for airport design. (\$18.00 Supt. Docs.) SN 050-007-853-8.

150/5300-13, Chg. 1 (6-5-91). (AAS-110). Clarifies the Federal Aviation Administration's standards, recommendations, and guidance for airport design. (\$4.50 Supt. Docs.) SN 050-007-907-1.

150/5300-13, Chg. 2 (2-24-92). (AAS-110). (\$2.75 Supt. Docs.) SN 050-007-929-1.

150/5300-13, Chg. 3 (9-1-93). (AAS-100). (\$4.25 Supt. Docs.) SN 050-007-01012-5.

150/5300-14 Design of Aircraft Deicing Facilities (8-23-93). (AAS-100).

Provides standards, specifications, and guidance for designing aircraft deicing facilities.

150/5300-15 Use of Value Engineering for Engineering and

Design of Airport Grant Projects (9-9-93). (AAS-200).

Provides guidance for the use of value engineering (VE) in airport projects funded under the Airport Grant Program.

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 Changes 1 and 2). (AAS-200).

Provides guidance to the public for the design and evaluation of pavements at civil airports.

150/5320-12B Measurement, Construction, and Maintenance of Skid Resistant Airport Pavement Surfaces (11-12-91). (AAS-200).

Contains guidelines and procedures for the design and construction of skid-resistant pavement; pavement evaluation, without or with friction equipment; and maintenance of high skid-resistant pavements.

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.

150/5320-15 Management of Airport Industrial Waste (2-11-91). (AAS-100).

Provides basic information on the characteristics, management, and regulations of industrial wastes generated at airports.

150/5325-4A Runway Length Requirements for Airport Design (1-29-90). (AAS-110). (Consolidated reprint includes Change 1 dtd 3-11-91).

Provides design standards and guidelines for determining recommended runway lengths.

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 Organiza-

tion (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).

150/5340-1G Standards for Airport Markings (9-27-93). (AAS-300).

Contains the Federal Aviation Administration (FAA) standards for marking used on airport runways, taxiways, and aprons.

150/5340-4C Installation Details for Runway Centerline Touchdown Zone Lighting Systems (5-6-75). (AAS-200). (Consolidated reprint includes Changes 1 and 2).

Describes standards for the design and installation of runway centerline and touchdown zone lighting systems.

150/5340-5B Segmented Circle Airport Marker System (12-21-84). (AAS-200). (Consolidated reprint includes change 1).

Sets forth standards for a system of airport marking consisting of certain pilot aids and traffic control devices.

150/5340-14B Economy Approach Lighting Aids (6-19-70). (AAS-200). (Consolidated reprint includes Changes 1 and 2).

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.

150/5340-18C Standards for Airport Sign Systems (7-31-91). (AAS-4).

Contains the Federal Aviation Administration standards for the siting and installation of signs on airport runways and taxiways. **150/5340-18C, Chg. 1 (11-13-91). (AAS-4).**

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 lees, and obstruction lights.

150/5340-23B Supplemental Wind Cones (5-11-90). (AAS-200).

Describes criteria for the location and performance of supplemental wind cones.

150/5340-24 Runway and Taxiway Edge Lighting System (9-3-75). (AAS-200). (Consolidated reprint includes change 1).

Describes standards for the design, installation, and maintenance of runway and taxiway edge lighting.

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.

150/5345-1U Approved Airport Equipment (2-20-89). (AAS-200).

Contains a listing of manufacturers that have obtained qualification approval to specifications for airport 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). (Consolidated reprint includes change 1).

Describes the specification requirements for L-824 electrical cables.

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). (Consolidated reprint includes changes 1 and 2).

Describes the subject specification requirements.

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.

150/5345-28D, Chg. 1 (11-1-91). (AAS-250).

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. (Consolidated reprint includes change 1).

150/5345-42C Specification for Airport Light Bases, Transformer Houses, Junction Boxes and Accessories (6-8-89). (AAS-200).

Contains specification for containers designed to serve as airport light bases, transformer housings, junction boxes and related accessories.

150/5345-42C, Chg. 1 (10-29-91). (AAS-200).

Corrects, clarifies, and revises portions of the specification and corrects drafting errors.

150/5345-43D Specification for Obstruction Lighting Equipment (7-15-88). (AAS-200).

Contains the FAA specification for obstruction lighting equipment.

150/5345-44E Specification for Taxiway and Runway Signs (12-16-91). (AAS-200).

Contains a specification for signs to be used on taxiways and runways.

150/5345-45A Lightweight Approach Light Structure (12-9-87). (AAS-200).

Presents the specifications for lightweight structures for supporting lights as used in visual navigational aid systems.

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.

150-5345-47A Isolation Transformers for Airport Lighting Systems (12-9-87). (AAS-200).

Contains the specifications requirements for series-to-series isolation transformers for use in airport lighting systems.

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). (Consolidated reprint includes change 1).

Creates a standard and specification for a battery operated light unit to be used to outline a runway area temporarily.

150/5345-51 Specification for Discharge-Type Flasher Equipment (8-14-81). (AAS-200). (Consolidated reprint includes change 1).

Contains the specifications for discharge-type flashing light equipment to be used for runway and identification lights (REIL) and for an omnidirectional approach lightning system (ODALS).

150-5345-52 Generic Visual Glideslope Indicators (CVGI) (6-21-88). (AAS-200).

Contains the FAA standards for generic visual glideslope indicators systems. GVGI systems provide pilots with visual glideslope guidance during approaches for landing at general aviation 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.

150/5360-5A 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.

150/5360-8A 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.

150/5360-13 Planning and Design Guidelines for Airport Terminal Facilities (4-22-88). (AAS-100).

Provides guidelines for the planning and design of airport terminal buildings and related access facilities.

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.

150/5370-6B Construction Progress and Inspection Report--Airports Grant Program (8-7-89). (AAS-200).

Provides guidance for submission of a report on construction progress of Airport

Development Aid Program (ADAP) projects.

150/5370-10A Standards for Specifying Construction of Airports (2-17-89). (AAS-200).

Provides standards for construction of airports. Items covered include earthwork, drainage, paving, turfing, lighting, and incidental construction. (\$18.00 Supt. Docs.) SN 050-007-00821-0.

150/5370-10A, Chg. 1 (6-15-90). Revised Item P-501, Portland Cement Concrete Pavement, to reflect the use of cementitious materials and chemical admixtures.

150/5370-10A, Chg. 2 (11-2-90). Revised Items P-155, D-701, D-705, D-751, and F-162, have been revised to reflect changes in material specifications and new materials.

150/5370-10A, Chg. 3 (1-9-91). Revised Item P-625, Coal-Tar Emulsion Sealcoat, is withdrawn.

150/5370-10A, Chg. 4 (7-7-92). (AAS-200). Revised Item P-401, Plant Mix Bituminous Pavements to incorporate quality assurance provisions.

■ **150/5370-10A, Chg. 5 (4-2-93). (AAS-200).** Revises Table 2 and deletes requirement for voids filled with asphalt.

150/5370-11 Use of Nondestructive Testing Devices in the Evaluation of Airport Pavements (6-4-76). (AAS-200). (Consolidated reprint includes change 1).

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.

150/5370-12 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.

150/5370-13 Offpeak Construction of Airport Pavements Using Hot-Mix Asphalt (8-27-90). (AAS-200).

Provides guidance for the planning, coordination, management, design, testing, inspection, and execution of offpeak construction of airport pavements using hot mix asphalt paving materials.

150/5370-14 Hot Mix Asphalt Paving Handbook (10-15-91). (AAS-200).

Provides guidance on asphalt paving operations including plant operations, transportation of materials, surface preparation, laydown and compaction. (\$13.00 Supt. Docs.) SN 050-007-00925-9.

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. (\$7.00 Supt. Docs.) SN 050-007-00627-6.

150/5380-7 Pavement Management System (9-28-88). (AAS-200).

Presents the concepts of a Pavement Management System, discusses the essential components of such a system, and outlines how it can be used in making cost-effective decisions regarding pavement maintenance and rehabilitation.

150/5390-2 Heliport Design (1-4-88). (AAS-100).

Contains FAA guidelines, recommendations, and design standards for heliports and helistops developed after the date of this publication.

150/5390-3 Vertiport Design (5-31-91). (AAS-100).

Provides guidance to planners and communities interested in developing a civil vertiport or vertistop.

AIR NAVIGATIONAL FACILITIES

Subject No. 170

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

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). (ASM-500).

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). (APS-440).

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.

170-14 Implementation of 50 kHz/Y Channels for ILS/VOR/DME (7-30-92). (ASM-500).

Advises aircraft owners, operators, and radio equipment manufacturers of the FAA's continued implementation of 50 kHz/Y or Omnidirectional Range (VOR) frequency assignments.

ADMINISTRATIVE

Subject No. 180

183-32H FAA Designated Technical Personnel Examiners Directory (12-18-92). (AFS-632).

Transmits a consolidated directory of FAA Designated Mechanic Examiners (DME's) (appendix 1) and Designated Parachute Rigger Examiners (DPRE's) (appendix 2), as of October 23, 1992, under the authority of Federal Aviation Regulation Part 183.

183-33A Designated Airworthiness Representatives (10-1-85). (AIR-200). (with Errata Sheet).

Contains information and guidance concerning the selection and appointment of Designated Airworthiness Representatives (DAR's) and identifies the specific functions which may be designated to DAR's as authorized by Federal Aviation Administration (FAA), Director of Airworthiness.

183-35D FAA Designated Airworthiness Representatives (DAR's), Designated Alteration Stations (DAS's) and Delegation Option Authorization (DOA) and SFAR Part 36 Directory (12-30-91). (AFS-632).

Transmits a consolidated directory of Designated Airworthiness Representatives (DAR's) for both Maintenance (appendix 1, as of December 2, 1991), Manufacturing (appendix 2, as of December 2, 1991); Designated Alteration Stations (DAS's) (appendix 3, as of December 2, 1991);

manufacturing organizations with Delegation Option Authorization (DOA's) (appendix 4, as of December 2, 1991); and organizations certificated under the provisions of SFAR Part 36 (appendix 5, as of September 1990).

183.29-1BB Designated Engineering Representatives (July 1993). (AFS-613)

Lists Designated Engineering Representatives (DER) who are available for consulting work. DERs, as direct representatives of the Federal Aviation Administration (FAA), are authorized to approve engineering or flight test information that complies with the Federal Aviation Regulations (FAR's) (within particular categories and subject to prescribed limitations.

FLIGHT INFORMATION

Subject No. 210

210-5B Military Flying Activities (8-8-90). (ATM-400).

Provides 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 (3-20-67). (ATP-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).

APPENDIX 4

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 Responsibility

(OPR). Each Title is shown alphabetically succeeding the identification number.

TITLE IS LISTED ALPHABETICALLY

A	
43.13-1A	91-48
Acceptable Methods, Techniques and Practices-- Aircraft Inspection and Repair (4-17-72). (AFS-600). (\$18.00--Supt. Docs.) SN 050-007-00461-3.	Acrobatics: recision Flying With a Purpose (6-29-77). (AFS-820).
43.13-2A	25.672-1
Acceptable Methods, Techniques, and Practices-- Aircraft Alterations (6-9-77). (AFS-340). (\$7.00 Supt. Docs.) SN 050-007-00625-0. (Includes Chg. 1).	Active Flight Controls (11-15-83). (ANM-110B).
20-60	135-7
Accessibility to Excess Emergency Exits (7-18-68). (ANM-110A).	Additional Maintenance Requirements for Aircraft Type Certificated for Nine or Less Passenger Seats; FAR 135: (10-24-78). (AFS-350).
60-13	121-25
The Accident Prevention Counselor Program (4-27-76). (AFS-20).	Additional Weather Information: Domestic and Flag Air Carriers (9-16-77). (AFS)-224).
90-34	150/5000-3Q
Accidents Resulting from Wheelbarrowing In Tricycle Gear Equipped Aircraft (2-27-68). (AFS-825).	Address List for Regional Airports Divisions and Airports District/Field Offices (9-29-932). (ARP-11).
150/5100-10A	120-54
Accounting Records Guide for Airport Aid Program Sponsors (4-13-76). (APP-500).	Advanced Qualification Program (8-9-91). (AFS-210).
	00-2.7
	Advisory Circular Checklist (10-15-93). (AIT-200).
	20-123
	Advoiding Or Minimizing Encounters With
	Aircraft Equipped With Depleted Uranium Balance Weights During Accident Investigations (12-20-84). (AFS-330). 60-22
	Aeronautical Decision Making (12-13-91). (AFS-550).
	137-1
	Agricultural Aircraft Operations (11-29-65). (AFS-820).
	60-11B
	Aids Authorized for Use by Airman Written Test Applicants (10-10-90). (AFS-840).
	120-36A
	Air Carrier Dispersal Planning Program (12-16-88). (APR-130).
	120-44
	Air Carrier First Aid Programs
	120-59
	Air Carrier Internal Evaluation Programs (10-26-92). (AFS-201). (4-17-87). (AFS-220).
	120-55A
	Air Carrier Operational Approval and Use of TCAS II (8-27-93). (AFS-450).
	108-1
	Air Carrier Security (10-16-81). (ACS-3). (\$3.75 Supt. Docs.) SN 050-007-00642-0.
	120-56
	Air Carrier Voluntary Disclosure Reporting Procedures (11-23-92). (AFS-201).
	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). (AIR-120).
	150/5220-9
	Aircraft Arresting System for Joint Civil/ Military Airports (4-6-70). (AAS-300).
	20-126D

- _____ Aircraft Certification Service Field Office Directory (4-14-93). (AFS-613).
- 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). (AIR-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). (AIR-120).
- 20-106
_____ Aircraft Inspection for the General Aviation Aircraft Owner (April 1978). (AFS-340). (\$9.00 Supt. Docs.) SN 050-007-00449-4.
- 20-37D
_____ Aircraft Metal Propeller Maintenance (8-15-89). (AFS-340).
- 20-30B
_____ Aircraft Position Light and Anticollision Light Installation (7-20-81). (AIR-120).
- 20-74
_____ Aircraft Position and Anticollision Light Measurements (7-29-71). (AIR-120). 90-23E
- _____ Aircraft Wake Turbulence (10-1-91). (AFS-430).
- 120-27B
_____ Aircraft Weight and Balance Control (10-25-90). (AFS-330A).
- 65-11B
_____ Airframe and Powerplant Mechanics Certification Information (4-17-87). (AFS-340). (\$1.00 Supt Docs.) SN 050-007-00750-7.
- 65-12A
_____ Airframe and Powerplant Mechanics Powerplant Handbook (4-12-76). (AVN-12). (\$12.00 Supt. Docs.) SN 050-007-00373-1.
- 65-15A
_____ Airframe and Powerplant Mechanics Airframe Handbook (4-12-76). (AVN-12). (\$13.00 Supt. Docs.) SN 050-007-00391-9.
- 65-2D
_____ Airframe and Powerplant Mechanics Certification Guide (1-30-76). (AFS-340). (\$5.00 Supt. Docs.) SN 050-007-00331-5.
- 65-9A
_____ Airframe and Powerplant Mechanics--General Handbook (4-12-76). (AVN-12). (\$18.00 Supt. Docs.) SN 050-007-00379-0.
- 91-51
_____ Airplane Deice and Anti-Ice Systems (9-15-77). (AFS-806).
- 60-6B
_____ Airplane Flight Manuals (AFM), Approved Linual Materials, Markings, and Placards Airplanes (9-25-80). (AFS-5).
- 120-45A
_____ Airplane Flight Training Device Qualification (2-5-92). (ASO-205).
- 120-40B
_____ Airplane Simulator Qualification (7-29-91). (ASO-205).
- 150/5060-5
_____ Airport Capacity And Delay (9-23-83). (AAS-100).
- 139.201-1
_____ Airport Certification Manual (ACM) and Airport Certification Specifications (ACS) (7-15-88). (AAS-310).
- 150/5300-13
_____ Airport Design (9-29-89). (AAS-110). (\$18.00 Supt. Docs.) SN 050-007-853-8.
- 150/5320-5B
_____ Airport Drainage (7-1-70). (AAS-200). (\$5.50 Supt. Docs.) SN 050-007-00149-5.
- 150/5210-2A
_____ Airport Emergency Medical Facilities and Services (11-27-84). (AAS-300).
- 150/5200-31
_____ Airport Emergency Plan (1-27-89). (AAS-310).
- 150/5210-14
_____ Airport Fire and Rescue Personnel Protective Clothing (3-12-86). (AAS-100).
- 150/5220-14A
_____ Airport Fire and Rescue Vehicle Specification Guide (2-25-85). (AAS-100). 10/15/87
- 150/5100-16A
_____ Airport Improvement Program Grant Assurance Number One--General Federal Requirements, (10-4-88). (APP-510).
- 150/5320-14
_____ Airport Landscaping for Noise Control Purposes (1-31-78). (APP-400).
- 150/5070-6
_____ Airport Master Plans (2-5-71). (APP-400). (\$5.00 Supt. Docs.) SN 050-008-00004-5.
- 150/5340-21
_____ Airport Miscellaneous Lighting Visual Aids (3-25-71). (AAS-200).
- 150/5320-6C
_____ Airport Pavement Design and Evaluation (12-7-78). (Consolidated reprint incorporates Change 1.) (AAS-200).
- 150/5210-15
_____ Airport Rescue and Firefighting Station Building Design (7-30-87). (AAS-100).
- 150/5200-18B
_____ Airport Safety Self-Inspection (5-2-88). (AAS-310).
- 150/5200-18B
_____ Autoinspeccion De Seguridad Para Los Aeropuertos (5-2-88). (AAS-310). (Spanish Version).
- 150/5360-12
_____ Airport Signing and Graphics (12-23-85). (AAS-110).
- 150/5220-20

- ___ Airport Snow and Ice Control Equipment (6-30-92).
- 150/5220-11
___ Airport Snowblower Specification Guide (4-10-78). (AAS-100).
- 150/5220-12
___ Airport Snowsweeper Specification Guide (6-12-78). (AAS-100).
- 150/5200-30A
___ Airport Winter Safety and Operations (10-1-91). (AAS-100).
- 121-26
___ Airports—Required Data (6-29-81). (AFS-250).
- 70-2D
___ Airspace Utilization Considerations in the Proposed Construction, Alteration, Activation and Deactivation of Airports (8-1-79). (ATP-240).
- 20-131A
___ Airworthiness Approval of Traffic Alert and Collision Avoidance Systems (TCAS II) and Mode S Transponders (3-29-93). (ANM-111).
- 20-121A
___ Airworthiness Approval of Airborne Loran-C Navigation Systems for Use in the U.S. National Airspace System (NAS) (8-24-88). (ACE-120).
- 20-130
___ Airworthiness Approval of Multi-Sensor Navigation Systems for use in the U.S. National Airspace System (NAS) and Alaska (9-12-88). (ACE-130W).
- 20-101C
___ Airworthiness Approval of Omega/VLF Navigation Systems for Use in the U.S. National Airspace System (NAS) and Alaska (9-12-88). (ACE-130W/AIR-120).
- 20-129
___ Airworthiness Approval of Vertical Navigation (VNAV) Systems for use in the U.S. NAS and Alaska (9-12-88). (ACE-130W).
- 21-23
___ Airworthiness Certification of Civil Aircraft Engine, Propellers, and Related Products (7-7-87). (AIR-4).
- 21-28
___ Airworthiness Certification of U.S. Produced Aircraft and Engine Kits Assembled Outside the United States (6-28-90). (AIR-220).
- 25-12
___ Airworthiness Criteria for the Approval of Airborne Windshear Warning Systems in Transport Category Airplanes (11-2-87). (ANM-111).
- 39-7B
___ Airworthiness Directives (4-8-87). (AFS-340).
- 20-112
___ Airworthiness and Operational Approval of Airborne Systems to be Used In Lieu of Ground Proximity Warning System (GWPS) (2-19-81). (AIR-120).
- 91-14D
___ Altimeter Setting Sources (4-9-79). (AFS-340).
- 43-203B
___ Altimeter and Static System Tests and Inspections (6-20-79). (AFS-350).
- 91-22A
___ Altitude Alerting Devices/Systems (12-23-71). (AFS-400). 90-89
- ___ Amateur-Built Aircraft Flight Testing Handbook (9-18-89). (AFS-20).
- 170-11
___ Amendment of Federal Aviation Regulation Part 171 (FAR 171) - Cost of Flight and Grand Inspections (9-17-70). (ASM-500).
- 21-15I
___ Announcement of Availability: Aircraft, Aircraft Engines and Propeller Type Certificate Data Sheets and Specifications (2-11-93). (AFS-613).
- 150/5360-10
___ Announcement of Availability: Airport Landslide Simulation Model (ALSIM) (4-24-84). (AAS-3).
- 150/5200-29
___ Announcement of Availability: Airport Self Inspection Videotape (11-6-88). (AAS-310).
- 150/5000-4B
___ Announcement of Availability: Airport Research and Technical Reports (2-11-85). (AAS-100).
- 150/5200-32
___ Announcement of Availability: Bird Strike Incident/Ingestion Report (2-14-90). (AAS-310).
- 150/5000-11
___ Announcement of Availability: All Cargo Carrier Activity Report (FAA Form 5100-108, Revised). (3-34-93). (APP-400).
- 61-108
___ Announcement of Availability: FAA-S-8081-6A, FAA-T-8080-17, FAA-T-8080-18, and FAA-T-8080-19 (12-11-91). (AVN-132).
- 61-109
___ Announcement of Availability: FAA-T-8080-10D, FAA-T-8080-11D, FAA-T-8080-12D, FAA-T-8080-15A, and FAA-T-8080-20 (8-17-92). (AFS-600).
- 21-30
___ Announcement of Availability: FAA Order 8130.21, Procedure for Completion of FAA Form 8130-3, Airworthiness Approval Tags (8-30-91). (AIR-200).
- 50/5370-14
___ Announcement of Availability: Hot Mix Asphalt Paving Handbook (12-19-91). (AAS-200).
- 150/5360-8A
___ Announcement of Availability of Information on Foreign Airport Planning, Design, Construction, and Trade Opportunities (10-26-84). (AAS-102).
- 61-103
___ Announcement of Availability: Industry-Developed Transition Training Guidelines for High Performance Aircraft (5-23-89). (AFS-840).
- 150/5360-5A
___ Announcement of Availability of the International Civil Aviation Organization (ICAO) Computer Data Bank Materials (10-26-84). (AAS-102).
- 150/5000-6
___ Announcement of Availability: Micro-Paver, Pavement Management

System (PMS) (4-16-87).
(AAS-200).

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).

60-20

____Announcement of
Availability: New Airmen
Written Test System (6-1-
88). (AVN-131).

21.303-2H

____Announcement of
Availability: Parts
Manufacturer Approvals--
1992 (Microfiche) (10-13-
92). (AFS-613).

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).

150/5000-9

Announcement of
Availability: Report No.
DOT/FAA/PP/92-5,
Guidelines for the Sound
Insulation of Residences
Exposed to Aircraft
Operations (1-19-93). (APP-
510).

150/5000-10

____Announcement of
Availability: Report No.
DOT/FAA/PP/92-6,
Estimating the Regional
Economic Significance of
Airports (1-19-93). (APP-
400).

150/5300-11

____Announcement of
Availability: Report No.
FAA-AAS-80-1, National
Runway Friction

Measurement Program (4-
21-81). (AAS-200).

60-21

____Announcement of
Availability: A Series of
Aeronautical Decision
Making Training Manuals
(7-20-90). (AFS-830).

150/5210-16

____Announcement of
Availability: Standardized
Basic Aircraft Rescue and
Firefighting Curriculum (A
Basic ARFF Training
Course) (2-21-89). (AAS-
314).

39-6P

____Announcement of
Availability: Summary of
Airworthiness Directives (2-
18-92). (AFS-600).

21-5K

____Announcement of
Availability: Summary of
Supplemental Type
Certificates (July 1989).
(AFS-600).

150/5200-15D

____Announcement of
Availability: Training
Association's Manual 206,
Aircraft Fire Protection and
Rescue Procedures (Second
Edition, 1978) (1-21-88).
(AAS-120).

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).

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).

61-66

____Annual Pilot in
Command Proficiency
Checks (11-2-73). (AFS-840).

20-122A

____Anti-misfueling Devices:
Their Availability and Use
(1-29-91). (AFS-340).

20-99

____Antiskid and Associated
Systems (5-27-77). (ANM-
100).

145.101-1B

____Application for Air
Agency Certificate--
Manufacturer's
Maintenance Facility (11-30-
83). (AIR-200).

21-12A

____Application for U.S.
Airworthiness Certificate,
FAA Form 8130-6
(OMB2120-0018) (3-26-87).
(AIR-220).

170-13

____Approach Lighting
System Configurations and
Energy Conservation (9-6-
77). (APS-440).

29-1

____Approval Basis for
Automatic Stabilization
Equipment (ASE)
Installations in Rotorcraft
(12-26-63). (ASW-100).

90-80

____Approval of Airborne
Radar Approach (ARA)
Procedures For Helicopters
to Offshore Platforms (5-18-
81). (AFS-600).

90-45A

____Approval of Area
Navigation Systems for Use
in the U.S. National Airspace
System (2-21-75). (AFS-210).

23.1521-1A

____Approval of Non-
oxygenated Automobile
Gasoline (Autogas) Instead of

Aviation Gasoline (Avgas) in
Part 23 Airplanes With
Reciprocating Engines (1-2-
91). (ACE-111).

25-15

____Approval of Flight
Management Systems in
Transport Category
Airplanes (11-20-89). (ANM-
111).

135-10

____Approved Aircraft
Inspection Program (9-17-
81). (AFS-330).

150/5345-1U

____Approved Airport
Equipment (2-20-89). (AAS-
200).

150/5100-14B

____Architectural,
Engineering, and Planning
Consultant Services for
Airport Grant Projects (11-
21-88). (AAS-200).

150/5220-16A

____Automated Weather
Observing Systems (AWOS)
for Non-Federal
Applications, (6-12-90).
(ANW-140).

20-57A

____Automatic Landing
Systems (ALS) (1-12-71).
(ANM-110).

23.1329-2

____Automatic Pilot System
Installation in Part 23
Airplanes (3-4-91). (ACE-
111).

25.1329-1A

____Automatic Pilot Systems
Approval (7-8-68). (ANM-
110A).

43-6A

____Automatic Pressure
Altitude Encoding Systems
and Transponders
Maintenance and Inspection

- Practices (11-11-77). (AFS-310).
- 91-54
____Automatic Reporting Systems<197>Altimeter Setting and Other Operational Data (2-26-78). (AFS-820).
- 25-8
____Auxiliary Fuel System Installations (5-2-86). (ANM-112).
- 23-10
____Auxiliary Fuel Systems for Reciprocating and Turbine Powered Part 23 Airplanes (8-5-91). (ACE-111).
- 60-14
____Aviation Instructor's Handbook (7-7-76). (AFS-820). Cancels AC 61-16A. (\$7.00 Supt. Docs.) SN 050-011-00072-1.
- 65-25
____Aviation Maintenance Technician Awards Program (8/28/92). (AFS-300).
- 00-46C
____Aviation Safety Reporting Program (2-4-85). (ASF-200).
109-1
____Aviation Security--Acceptance and Handling Procedures Indirect Air Carrier Security (3-3-82). (ACS-100). (\$2.25 Supt. Docs.) SN 050-007-00643-8.
- 107-1
____Aviation Security--Airports (5-19-72). (ACS-100).
- 135-4A
____Aviation Security: Air Taxi Commercial Operators (ATCO) (4-15-76). (ACS-100).
- 00-6A
____Aviation Weather (3-3-75). (AFS-5). (\$8.50 Supt. Docs.) SN 050-007-00283-1.
- 00-45C
____Aviation Weather Services (6-12-85). (AFS-400/AMC-100)
- B**
- 150/5325-3
____Background Information on the Aircraft Performance Curves for Large Airplanes (1-26-65). (AAS-110).
- 61-13B
____Basic Helicopter Handbook (Revised 1978). (AFS-820). (\$5.50 Supt. Docs.) SN 050-011-00074-7.
- 21-18
____Bilateral Airworthiness Agreements (8-20-82). (AIR-110). (\$7.00 Supt. Docs.) SN 050-007-00614-4.
- 150/5220-18
____Buildings For Storage and Maintenance of Airport Snow and Ice Control Equipment and Materials (10-15-92). (AAS-100).
- C**
- 23.841-1
____Cabin Pressurization Systems In Small Airplanes (12-30-86). (ACE-111).
- 91.83-1B
____Canceling or Closing Flight Plans (6-24-82). (ATP-110).
- 20-32B
____Carbon Monoxide (CO) Contamination in Aircraft--Detection and Prevention (11-24-72). (ACE-110).
- 121-29
____Carry on Baggage (11-2-87). (AFS-220).
- 21-17
____Carriage of Cargo in Restricted Category Aircraft and Other Special Purpose Operations (3-15-82). (AIR-200). (\$1.75 Supt. Docs.) SN 050-007-00638-1.
- 91-16
____Category II Operations--General Aviation Airplanes (8-7-67). (AFS-200).
- 65-24
____Certification Of A Repairman (General) (2-1-83). (AFS-310).
- 120-49
____Certification of Air Carriers (11-1-88). (AFS-200).
- 27-1
____Certification of Normal Category Rotorcraft (8-29-85). (ASW-110). (\$24.00 Supt. Docs.) SN 050-007-00924-1.
- 27-1 Chg. 3
____Certification of Normal Category Rotorcraft (4-24-89). (ASW-110). (\$9.50 Supt. Docs.) SN 050-007-00916-0.
- 23.1419-2
____Certification of Part 23 Airplanes for Flight in Icing Conditions (1-3-92). (ACE-100).
- 65-23A
____Certification of Repairmen (Experimental Aircraft Builders) (7-22-87). (AFS-340).
- 29-2A
____Certification of Transportation Category Rotorcraft (9-16-87). (ASW-110). (\$36.00 Supt. Docs.) SN 050-007-767-1.
- 21.303-1A
____Certification Procedures for Products and Parts (8-10-72). (AIR-200).
- 147-3
____Certification and Operation of Aviation Maintenance Technician Schools (AMTS) (5-22-91). (AFS-340).
20-27D
____Certification and Operation of Amateur-Built/Aircraft (6-22-90). (AIR-200).
- 61-65C
____Certification: Pilot and Flight Instructors (2-11-91). (AFS-840).
- 65-26
Charles Taylor "Master Mechanic Award (4-23-93). (AFS-360).
- 25.1357-1
____Circuit Protective Device Accessibility (9-20-88). (ANM-111).
- 150/5345-5A
____Circuit Selector Switch (3-23-82). (AAS-200).
- 150/5050-4
____Citizen Participation in Airport Planning (9-26-75). (APP-600).
- 00-32A
____Civil Air Patrol and State and Regional Defense Airlift Relationships (3-18-87). (ARP-130).
- 150/5100-15A
____Civil Rights Requirements For The Airport Improvement

Program (AIP) (3/31/89).
(APP-510).

20-133

___Cockpit Noise and
Speech Interference Between
Crewmembers (3-22-89).
(AIR-121).

25.1457-1A

___Cockpit Voice Recorder
Installations (11-3-69).
(ANM-110A).

91-13C

___Cold Weather Operation
of Aircraft (7-24-79). (AFS-
806).

120-48

___Communication and
Coordination Between Flight
Crewmembers and Flight
Attendants (7-13-88). (AFS-
220).

20-111

___Communication
Interference Caused By
Unintentional Keyed
Microphones (10-10-80).
(AFS-350).

20-107A

___Composite Aircraft
Structure (4-25-84). (AIR-
103).

61-102

___Computer-Assisted
Airmen Knowledge Testing
(5-3-89). (AVN-131).

00-53

___Computer Software
Quality Program; FAA (1-
18-78). (ASU-410).

20-69

___Conspicuity of Aircraft
Instrument Malfunction
Indicators (5-14-70). (AIR-
120).

150/5370-6B

___Construction Progress
and Inspection Report--

Airports Grant Program (8-
7-89). (AAS-200).

91-60

___Continued
Airworthiness of Older
Airplanes; The (6-13-83).
(AFS-310).

150/5050-5

___Continuous Airport
System Planning Process;
The (11-28-75). (APP-400).

120-16C

___Continuous
Airworthiness Maintenance
Programs (8-8-80). (AFS-
350).

21-32

___Control of Parts
Shipped Prior to Type
Certificate Issuance (10-14-
92).

23.679-1

___Control System Locks,
(7-25-85). (ACE-111).

23.683-1

___Control System
Operations Test (9-25-84).
(ACE-111).
43-4A

___Corrosion Control for
Aircraft (7-25-91). (AFS-
340).

120-53

___Crew Qualification and
Pilot Type Rating
Requirements for Transport
Category Aircraft Operated
Under FAR Part 121 (5-13-
91). (AFS-200).

120-51A

___Crew Resource
Management Training (2-10-
93). (AFS-210).

120-41

___Criteria For
Operational Approval Of
Airborne Wind Shear
Alerting and Flight Guidance

Systems (11-7-83). (AFS-
210).

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).
(ASM-500).

120-28C

___Criteria for Approval of
Category III Landing
Weather Minima (3-9-84).
(AFS-410).

120-29

___Criteria for Approving
Category I and Category II
Landing Minima for FAR
121 Operators (9-25-70).
(AFS-210).

23-5

___Cutouts in a Modified
Fuselage of Small Airplanes
(8-6-86). (ACE-111).

61-98A

___Currency and
Additional Qualification
Requirements for
Certificated Pilots (3-26-91).
(AFS-840).

D

25.571-1A

___Damage-Tolerance and
Fatigue Evaluation of
Structure (3-5-86). (ANM-
112).

150/5380-5A

___Debris Hazards at Civil
Airports (2-25-81). (AAS-
100).

00-26

___Definitions of U.S.
National Aviation Standards
(1-22-69). (AND-20).

33-4

___Design Considerations
Concerning The Use Of
Titanium In Aircraft Turbine
Engines (7-28-83). (ANE-
110).

20-128

___Design Considerations
for Minimizing Hazards
Caused by Uncontained
Turbine Engine and
Auxiliary Power Unit Rotor
and Fan Blade Failures (3-9-
88). (ANM-111).

25.994-1

___Design Considerations to
Protect Fuel Systems During
a Wheel-Up Landing (7-24-
86). (ANM-111).

150/5300-14

___Design of Aircraft
Deicing Facilities (8-23-93).
(AAS-100).

150/5220-17A

___Design Standards for an
Aircraft Rescue and
Firefighting Training Facility
(1-31-92). (AAS-100).

183-35D

___FAA Designated
Airworthiness Representa-
tives (DAR's), Designated
Alteration Stations (DAS's)
and Delegation Option
Authorization (DOA)
Directory (12-30-91). (AVN-
132).

183-33A

___Designated
Airworthiness
Representatives (10-1-85).
(AIR-200). (This AC was
erroneously canceled in AC 00-
2.6 dated 10-15-92.).

21.431-1A

___Designated Alteration
Station Authorization Proce-
dures (12-19-85). (AIR-110).

183.29BB

- ____ Designated Engineering Representatives (July 1993). (AFS-613)
- 183-32H
____ FAA Designated Technical Personnel Examiners Directory (12-18-92). (AFS-632).
- 150/5000-5B
____ Designated U.S. International Airports (7-28-88). (AAS-3).
- 21-29A
____ Detecting and Reporting Suspected Unapproved Parts (7-16-92). (AIR-220).
- 33.47-1
____ Detonation Testing In Reciprocating Aircraft Engines (6-27-88). (ANE-110).
- 140-6C
____ Development and Use of Major Repair Data Under Provisions of Special Federal Aviation Regulation No. 36; The (2-3-84). (AFS-340).
- 150/5100-13
____ Development of State Standards for General Aviation Airports (3-1-77). (AAS-200).
- 20-94
____ Digital Clock Installation in Aircraft (3-4-76). (AFS-350). 90-82B
____ Direct routes in the Conterminous U.S. (6-29-90). (ATM-110).
- 147-2AA
____ Directory of FAA Certificated Aviation Maintenance Technician Schools (8-18-93). (AFS-640). (S... Supt. Docs.) SN 050-007-00...-..
- 23.807-2
____ Doors Between Pilot's Compartment and Passenger Cabin In Small Airplanes (9-22-83). (ACE-112).
- 20-71
____ Dual Locking Devices on Fasteners (12-8-70). (AIR-120).
- 25.562-1
____ Dynamic Evaluation of Seat Restraint Systems and Occupant Protection on Transport Airplanes (3-6-90). (ANM-112).
- 20-137
____ Dynamic Flight Evaluation of Seat Restraint Systems & Occupant Restraint for Rotocraft (Normal and Transport (3-30-92). (ASW-111).
- 23.562-1
____ Dynamic Testing of Part 23 Airplane Seat/Restraint Systems and Occupant Protection (6-22-89). (ACE-111).
- E**
- 150/5340-14B
____ Economy Approach Lighting Aids (6-19-70). (Consolidated reprint includes Changes 1 and 2). (AAS-200).
- 20-62C
____ Eligibility, Quality, and Identification of Approved Aeronautical Replacement Parts (8-26-76). (AFS-340).
- 25-16
____ Electrical Fault and Fire Prevention and Protection (4-5-91). (ANM-111).
- 20-118A
____ Emergency Evacuation Demonstration (3-9-87). (ACE-100).
- 25.803-1
____ Emergency Evacuation Demonstrations (11-13-89). (ANM-114).
- 23.807-3
____ Emergency Exits Openable From Outside For Small Airplanes (1-20-84). (ACE-111).
- 135-15
____ Emergency Medical Service/Airplane (EMS/A) (11-19-90). (AFS-250).
- 35-14A
____ Emergency Medical Services/Helicopter (EMS/H) (6-20-91). (AFS-250).
- 150/5360-11
____ Energy Conservation for Airport Buildings (5-31-84). (AAS-200).
- 20-105A
____ Engine Power-Loss Accident Prevention (11-20-80). (AFS-343).
- 23.1309-1A
____ Equipment, Systems, and Installations in Part 23 Airplanes (6-3-92). (ACE-111).
- 150/5050-7
____ Establishment of Airport Action Groups (6-23-87). (AAS-300).
- 36-3F
____ Estimated Airplane Noise Levels in A-Weighted Decibels (8-10-90). (AEE-110).
- 25.939-1
____ Evaluating Turbine Engine Operating Characteristics (3/19/86). (ANM-112).
- 23-9
____ Evaluation of Flight Loads on Small Airplanes with T, V, +, or Y Empennage Configurations (1-27-88). (ACE-111).
- 150/5190-2A
____ Exclusive Rights at Airports (4-4-72). (Consolidated reprint incorporates ch. 1). (AAS-300).
- 21-24
____ Extending a Production Certificate to a Facility Located in a Bilateral Airworthiness Agreement Country (4-14-89). (AIR-220).
- 21-2G
____ Export Airworthiness Approval Procedures (7-9-92). (AFS-600/AIR-230). (\$14.00 Supt. Docs) SN 050-007-00957-7.
- 120-42A
____ Extended Range Operation With Two-Engine Airplanes (ETOPS) (12-30-88). (AFS-210).
- 20-47
____ Exterior Colored Band Around Exits on Transport Airplanes (2-8-66). (ANM-100).
- F**
- 150/5355-2
____ Fallout Shelters in Terminal Buildings (4-1-69). (AAS-100).
- 135-9
____ FAR Part 135, Icing Limitations (5-30-81). (AFS-250).
- 20-95
____ Fatigue Evaluation of Rotorcraft Structure (5-18-76). (ASW-100).

- 140-7F
____Federal Aviation Administration Certificated Maintenance Agencies Directory (8-7-92). (AVN-132). (\$9.00 Supt. Docs.) SN 050-007-00960-7.
- 150/5150-2B
____Federal Surplus Personal Property for Public Airport Purposes (10-1-84). (APP-510).
- 23-13
____Fatigue and Fail-Safe Evaluation of Flight Structure and Pressurized Cabin for Part 23 Airplanes (4-15-93). (ACE-111).
- 150/5200-12A
____Fire Department Responsibility in Protecting Evidence at the Scene of an Aircraft Accident (4-8-85). (AAS-100).
- 25.853-1
____Flammability Requirements for Aircraft Seat Cushions (9-17-86). (ANM-110).
- 23-2
____Flammability Tests (8-20-84). (ACE-111).
- 23.701-1
____Flap Interconnections in Part 23 Airplanes (11-13-92). (ACE-111).
- 25.785-1
____Flight Attendant Seat Requirements (12-4-81). (AIR-120).
- 90-76B
____Flight Operations in Oceanic Airspace (1-29-90). (ATO-342).
- 23-8A
____Flight Test Guide for Certification of Part 23 Airplanes (2-9-89). (ACE-111). (\$12.00 <197>Supt. Docs.) SN 050-007-00817-1.
- 25-7
____Flight Test Guide for Certification of Transport Category Airplanes (4-9-86). (ANM-112).
- 61-21A
____Flight Training Handbook (Revised 1980), (with Errata Sheet). (AFS-824).
- 25.812-1A
____Floor Proximity Emergency Escape Path Marking (5-22-89). (ANM-114).
- 25.629-1
____Flutter Substantiation of Transport Category Airplanes (1-4-85). (ANM-111).
- 129-3
____Foreign Air Carrier (6-10-82). (ACS-120). (\$2.50 Supt. Docs.) SN 050-007-00641-1.
- 00-25
____Forming and Operating a Flying Club (3-24-69). (AFS-800).
- 20-119
____Fuel Drain Valves (2-7-83). (AIR-120).
- 25.963-1
____Fuel Tank Access Covers (7-29-92). (ANM-112).
- 25.783-1
____Fuselage Doors, Hatches, and Exits (12-10-86). (ANM-110).
- G**
- 43-16
____General Aviation Airworthiness Alerts. (AFS-600).
- 91-49
____General Aviation Procedures for Flight in North Atlantic Minimum Navigation Performance Specifications Airspace (8-23-77). (AFS-824).
- 20-100
____General Guidelines for Measuring Fire-Extinguishing Agent Concentrations in Powerplant Compartments (9-21-77). (AIR-140).
- 150-5345-52
____Generic Visual Glideslope Indicators (CVGI) (6-21-88). (AAS-200).
- 20-44
____Glass Fiber Fabric for Aircraft Covering (9-3-65). (AIR-120).
- 25-10
____Guidance for Installation of Miscellaneous Nonrequired Electrical Equipment (3-6-87). (ANM-110).
- 121-27
____Guide For Air Carriers, Freight Forwarders, and Shippers in Obtaining Information Dealing with the Transportation of Hazardous Materials by Air (1-3-84). (ACS-100).
- 145-3
____Guide For Developing and Evaluating Repair Station Inspection Procedures Manuals (2-13-81). (AFS-310). 150/5220-21
____Guide Specifications for Lifts Used to Board Airline Passengers with Mobility Impairments (2-10-93). (AAS-100).
- 150/5220-10A
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- 91.11-1
____Guide to Drug Hazards in Aviation Medicine (7-19-63). (AAM-620). (\$5.50 Supt. Docs.) SN 050-009-00001-7.
- 150/5380-6
____Guidelines and Procedures for Maintenance of Airport Pavements (12-3-82). (AAS-200). (\$7.00 Supt. Docs.) SN 050-007-00627-6.
- 120-50
____Guidelines for Operational Approval of Windshear Training Programs (10/10/89). (AFS-210).
- 121-30
____Guidelines for Developing an Anti-Drug Plan for Aviation Personnel (3-16-89). (AAM-220).
- 25.981-1A
____Guidelines for Substantiating Compliance With the Fuel Tank Temperature Requirements (1-20-71). (AIR-110E).
- 90-92
____Guidelines for the Operational Use of Loran-C Navigation Systems Outside the U.S. NAS (2-5-93). (AFS-430).
- 20-88A
____Guidelines on the Marking of Aircraft Powerplant Instruments (Displays) (9-30-85). (ANM-112).
- 91-46
____Gyroscopic Instruments <197> Good Operating Practices (2-4-77). (AFS-804/820).

H

- 20-42B
____Hand Fire Extinguishers for use in Aircraft (8-25-82). (ACE-110).
- 103-4
____Hazard Associated with Sublimation of Solid Carbon Dioxide (Dry Ice) Aboard Aircraft (5-1-74). (AAM-620).
- 91-61
____Hazard in Aerobatics: Effects or G-Forces of Pilots; A (2-28-84). (AFS-800/AAM-500).
- 20-117
____Hazards Following Ground Deicing and Ground Operations in Conditions Conducive to Aircraft Icing (12-17-82). (AIR-3).
- 91-42D
____Hazards of Rotating Propeller and Helicopter Rotor Blades (3-3-83). (AFS-310).
- 120-39
____Hazards of Waste Water Ice Accumulation Separating From Aircraft In Flight (10-31-80). (AFS-331).
- 90-87
____Helicopter Dynamic Rollover (1-27-86). (AFS-840).
- 150/5390-2
____Heliport Design (1-4-88). (AAS-100).
- 25-14
____High Lift and Drag Devices (5-4-88). (ANM-112).
- 25.253-1A
____High-Speed Characteristics (12-27-76). (ANM-110A).
- 20-97A
____High-Speed Tire Maintenance and Operational Practices (5-13-87). (AFS-340).
- 150/5370-14
____Hot Mix Asphalt Paving Handbook (10-15-91). (AAS-200). (\$13.00 Supt. Docs.) SN 050-007-00925-9.
- I
- 73-2
____IFR Helicopter Operations in the Northeast Corridor (6-11-79). (ATF-4).
- 45-2A
____Identification and Registration Marking (4-16-92). (AIR-230).
- 170-14
____Implementation of 50 kHz/Y Channels for ILS/VOR/DME (7-30-92). (ASM-500).
- 91-50
____Importance of Transponder Operation and Altitude Reporting (8-24-77). (AFS-820).
- 20-36R
____Index of Articles (Materials, Parts, Processes and Appliances) Certified Under the Technical Standard Order System (June 1991). (AFS-600). (\$24.00 Supt. Docs.) SN 050-007-909-7.
- 20-110G
____Index of Aviation Technical Standard Orders (6-19-91). (AIR-120).
- 25-4
____Inertial Navigation Systems (INS) (2-18-66). (ANM-110).
- 120-43
____The Influence of Beards on Oxygen Mask Efficiency (1-27-87). (AFS-220).
- 121-21B
____Information Guide for Training Programs and Manual Requirements in the Air Transportation of Hazardous Materials (12-22-83). (ACS-130).
- 21-22
____Injury Criteria for Human Exposure to Impact (6/20/85). (AIR-120).
- 65-13M
____Inspection Authorization Directory; FAA (9-3-92). (AVN-132). (\$15.00 Supt. Docs.) SN 050-007-00972-1.
- 65-19E
____Inspection Authorization Study Guide (Revised April 1991). (AVN-142). (\$1.50 Supt. Docs.) SN 050-007-00901-1.
- 91-59
____Inspection and Care of General Aviation Aircraft Exhaust Systems (8-20-82). (AFS-340).
- 145-4
____Inspection, Retread, Repair and Alterations of Aircraft Tires (9-27-82). (AFS-340).
- 25-5
____Installation Approval on Transport Category Airplanes of Cargo Unit Load Devices Approved as Meeting the Criteria in NAS 3610 (6-3-70). (AIR-120).
- 150/5340-4C
____Installation Details for Runway Centerline Touchdown Zone Lighting Systems (5-6-75). (AAS-200).
- 23.1305-1
____Installation of Fuel Flowmeters in Small Airplanes With Continuous-Flow, Fuel-Injection, Reciprocating Engines, (12-21-84). (ACE-111).
- 23.909-1
____Installation of Turbochargers in Small Airplanes with Reciprocating Engines (2/3/86). (ACE-111).
- ____Installation of Used Engines In New Production Aircraft (4-26-82). (AIR-200).
- 45-3
____Installation, Removal, or Change of Identification Data and Identification Plates on Aircraft Engines, (11-6-85). (AIR-200).
- 43.9-1E
____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).
- 25.1529-1
____Instructions for Continued Airworthiness of Structural Repairs on Transport Airplanes (8-1-91). (ANM-112).
- 61-27C
____Instrument Flying Handbook (11-5-79). (Rev. 1980). (AFS-600). (\$8.50 Supt. Docs.) SN 050-007-00585-7)
- 120-26H
____International Civil Aviation Organization Three-Letter and Radio Telephony Designators (6-21-91). (ATP-215).
- 23-6
____Interpretation of Failure for Static Structural Test

Programs (9-2-86). (ACE-111).

150/5345-47A

___Isolation Transformers for Airport Lighting Systems (12-19-87). (AAS-200).

J

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).

L

150/5100-6D

___Labor Requirements for the Airport Improvement Program (AIP) (10-15-86). (APP-510). 23.729-1

___Landing Gear Doors and Retraction Mechanism (3/26/84). (ACE-111). 91-38A

___Large and Turbine-Powered Multiengine Airplanes, Part 91, Subpart D (11-27-78). (AFS-200).

90-67A

___Light Signals from the Control Tower for Ground Vehicles, Equipment, and Personnel (6-25-81). (ATO-320).

150/5345-45A

___Lightweight Approach Light Structure (12-9-88). (AAS-200).

120-35B

___Line Operational Simulations: Line-Oriented Flight Training, Special Purpose Operational Training, Line Operational Evaluation (9-6-90). (AFS-210).

135-13A

___List of Air Carriers Certificated by FAR Part 135 (8-6-92). (AVN-132). (\$6.50 Supt. Docs.) SN 050-007-961-5.

140-2V

___List of Certificated Pilot Schools (3-29-93). (AFS-632). (\$... Supt. Docs.) SN 050-007-00... ..

M

121-16B

___Maintenance Certification Procedures (11-9-70). (AFS-330).

120-17A

___Maintenance Control by Reliability Methods (3-27-78). (AFS-330).

20-52

___Maintenance Inspection Notes for Douglas DC-6/7 Series Aircraft (8-24-67). (Consolidated Reprint Includes Change 1). (AFS-310).

20-59

___Maintenance Inspection Notes for Convair 240, 340/440, 240T, and 340T Series Aircraft (2-19-69). (AFS-330).10/15/87

20-64

___Maintenance Inspection Notes for Lockheed L-188 Series Aircraft (8-1-69). (AIR-3).

20-82

___Maintenance Inspection Notes for Fairchild Hiller F-27/FH-227 Series Aircraft (12-5-72). (AFS-5).

20-83

___Maintenance Inspection Notes for Boeing B-737 Series Aircraft (1-17-73). (AFS-330).

20-76

___Maintenance Inspection Notes for Boeing B-707/720 Series Aircraft (10-21-71). (AFS-310).

20-78

___Maintenance Inspection Notes for McDonnell Douglas DC-8 Series Aircraft (7-11-72). (AVS-16).

20-84

___Maintenance Inspection Notes for Boeing B-727 Series Aircraft (1-22-73). (AFS-5).

135-5B

___Maintenance Program Approval for Carry-On Oxygen Equipment for Medical Purposes (9-26-83). (AFS-310).

129-4

___Maintenance Programs for U.S. Registered Aircraft Under FAR Part 129 (3-1-88). (AFS-300).

43-9B

___Maintenance Records (1-9-84). (AFS-310).

121-22

___Maintenance Review Board (MRB) (1-12-77). (AFS-330).

91-26

___Maintenance and Handling of Air-Driven Gyroscopic Instruments (10-29-69). (AFS-310).

150/5340-26

___Maintenance of Airport Visual Aid Facilities (8-26-

82). (Spanish Language Version Available). (AAS-100).

43-14

___Maintenance of Weather Radar Radomes (2-24-77). (AFS-310).

150/5320-15

___Management of Airport Industrial Waste (2-11-91). (AAS-100).

21-9A

___Manufacturers Reporting Failures, Malfunctions, or Defects (5-26-82). (AIR-200).

20-114

___Manufacturers' Service Documents (10-22-81). (AIR-100).

20-116

___Marking Aircraft Fuel Filler Openings With Color Coded Decals (9-17-81). (ACE-100).

150/5340-1G

___Marking of Paved Areas on Airports (9-27-93). (AAS-300).

20-56A

___Marking of TSO-C72b Individual Flotation Devices (4-1-75). (AIR-120).

23.629-1A

___Means of Compliance with Section 23.629, Flutter (10-23-85). (ACE-111).

36-2C

___Measured or Estimated (Uncertificated) Airplane Noise Levels (2-12-86). (AEE-110).

150/5320-12B

___Measurement, Construction, and Maintenance of Skid Resistant Airport Pavement

- Surfaces (11-12-91). (AAS-200).
- 20-38A
____Measurement of Cabin Interior Emergency Illumination in Transport Airplanes (2-8-66). (ANM-100).
- 43-10A
____Mechanical Work Performed on U.S. and Canadian registered Aircraft (2-25-83). (AFS-310).
- 67-2
____Medical Handbook for Pilots (5-15-74). (AAM-620). (\$5.00 Supt. Docs.) SN 050-007-00254-8.
- 67-1
____Medical Information for Air Ambulance Operators (3-4-74). (AAM 620).
- 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).
- 210-5B
____Military Flying Activities (8-8-90). (ATM-400).
- 43-2B
____Minimum Barometry for Calibration and Test of Atmospheric Pressure Instruments (10-16-80). (AFS-343).
- 91-67
____Minimum Equipment Requirements for General Aviation Operations Under FAR Part 91.
- 25.1523-1
____Minimum Flightcrew (2-2-93). (ANM-111). (6-28-91). (AFS-550).
- 90-72B
____Minimum Safe Altitude Warning (MSAW) En Route Safe Altitude Warning (E-MSAW) (6-24-91). (ATP-127).
- 150/5190-1A
____Minimum Standards for Commercial Aeronautical Activities on Public Airports (12-16-85). (AAS-310).
- 91-57
____Model Aircraft Operating Standards (6-9-81). (ATO-220).
- 150/5190-4A
____Model Zoning Ordinance to Limit Height of Objects Around Airports; A (12-14-87). (AAS-100). (Editorially updated).
- 21-25
____Modified Seats and Berths Initially Approved Under a Technical Standard Order (4-24-89). (AIR-121).
- N**
- 90-91
____National Route Program (4-24-92). (ATM-110).
- 61-83C
____Nationally Scheduled (FAA) Approved, Industry-Conducted Flight Instructor Refresher Clinics (10-25-88). (AFS-840).
- 00-33A
____Nickel-Cadmium Battery Operational, Maintenance, and Overhaul Practices (2-14-73). (AFS-340).
- 91-53
____Noise Abatement Departure Profile (10-17-78). (AFS-400).
- 91-66
____Noise Abatement for Helicopters (6-4-87). (AFS-840).
- 36-4B
____Noise Certification Handbook (3-23-88). (AEE-3)
- 150/5020-1
____Noise Control and Compatibility Planning for Airports (8-5-83). (ARP-11).
- 91-35
____Noise, Hearing Damage, and Fatigue in General Aviation Pilots (3-28-72). (AAM-620).
- 36-1E
____Noise Levels for U.S. Certificated and Foreign Aircraft (6-5-92). (AEE-110). 43-3
____Nondestructive Testing in Aircraft (5-11-73). (AFS-330). (\$4.50 Supt. Docs.) SN 050-007-00208-4.
- 20-120
____Nondirectional Beacon Frequency Congestion (6-18-84). (ASM-500).
- 11-2A
____Notice of Proposed Rulemaking Distribution System (7-26-84). (AMS-420).
- 150/5200-28
____Notices to Airmen (NOTAMS) for Airport Operators (10-2-87). (AAS-300).
- O**
- 150/5000-8
____Office of Airport Safety and Standards Electronic Bulletin Board (7-27-92). (AAS-120).
- 150/5370-13
____Offpeak Construction of Airport Pavements Using Hot-Mix Asphalt (8-27-90). (AAS-200).
- 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).
- 121.195(d)-1A
____Operational Landing Distances for Wet Runways: Transport Category Airplanes (6-19-90).
- 150/5370-2C
____Operational Safety on Airports During Construction (5-31-84). (AAS-300).
- 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).
- 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). (AIR-120).
- 91-44A
____Operational and Maintenance Practices for Emergency Locator

Transmitters and Receivers (12-12-80). (AFS-600/AIR-120).

90-43F

Operations Reservations for High-Density Traffic Airports (HDTA's) (4-22-85). (ATM-100).

61-107

Operations of Aircraft at Altitudes Above 25,000 Feet MSL and/or MACH numbers (Mmo) Greater Than .75 (1-23-91). (AFS-830).

125-1

Operations of Large Airplanes Subject to Federal Aviation Regulations Part 125 (1-22-81). (AFS-820).

P

150/5210-5B

Painting, Marking, and Lighting (7-11-86). (AAA-120).

65-5B

Parachute Rigger<197>Senior/Master-Certification Guide (7-25-88). (AVN-133). (\$1.25 Supt. Docs.) SN 050-007-00805-8.

135-12A

Passenger Safety Information Briefing and Briefing Cards (FAR Part 135) (3-28-91). (AFS-250).

121-24A

Passenger Safety Information Briefing and Briefing Cards (5-9-89). (AFS-220).

150/5380-7

Pavement Management System (9-28-88). (AAS-200).

61-89D

Pilot Certificates: Aircraft Type Rating (2-21-91). (AFS-840).

25.773-1

Pilot Compartment View for Transport Category Airplanes (1-8-93). (ANM-111).

121.445-1D

Pilot-In-Command Qualifications For Special Area/Routes And Airports. FAR Section 121.445 (6-20-90). (AFS-220).

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).

61-91F

Pilot Proficiency Award Program (3-6-91). (AFS-20).

91-68

Pilot Qualification and Operation of all Surplus Military Turbine-Powered Airplanes (2-25-92). (AFS-820).

141-1A

Pilot School Certification (2-18-93). (AFS-554).

61-94

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

61-9B

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

112). (\$3.00 Supt. Docs.) SN050-007-00226-2.

00-54

Pilot Windshear Guide (11-25-88). (AFS-200). 61-23B

Pilot's Handbook of Aeronautical Knowledge (4-3-79). (AFS-600). (\$10.00 Supt. Docs.) SN 050-011-00077-7.

60-4A

Pilot's Spatial Disorientation (2-9-83). (AFS-5).

91-23A

Pilot's Weight and Balance Handbook (6-9-77). (AVN-132). (\$5.00 Supt. Docs.) SN 050-007-00405-2.

90-48C

Pilots' Role in Collision Avoidance (3-18-83). (AFS-820).

20-40

Placards for Battery-Excited Alternators Installed in Light Aircraft (8-11-65). (ACE-100).

20-5E

Plane Sense (11-12-86). (AVN-133).

150/5360-13

Planning and Design Guidelines for Airport Terminal Facilities (4-22-88). (AAS-100).

150/5360-9

Planning and Design of Airport Terminal Facilities at Non-Hub Locations (4-4-80). (AAS-100).

150/5070-3

Planning the Airport Industrial Park (9-30-65). (APP-400).

150/5070-5

Planning the Metropolitan Airport System (5-22-70). (APP-400). (\$5.50 Supt. Docs.) SN 050-008-00003-7.

150/5050-3B

Planning the State Aviation System (1-6-89). (APP-400). (\$3.75 Supt. Docs.) SN 050-007-00813-9.

150/5300-7B

Policy on Facility Relocations Occasioned by Airport Improvements or Changes; FAA (11-8-72). (ABU-10).

121-6

Portable Battery-Powered Megaphones (1-5-66). (AIR-110).

20-135

Powerplant Installation and Propulsion System Component Fire Protection Test Methods, Standards and Criteria (2-15-90). (ANM-112).

20-136

Protection of Aircraft Electrical/Electronic Systems Against the Indirect Effects of Lighthing (3-5-90). (ANM-111).

20-48

Practice Guide for Decontaminating Aircraft (5-5-66). (AFS-330).

150/5345-28D

Precision Approach Path Indicator (PAPI) Systems (5-23-85). (AAS-250).

150/5300-9A

Predesign, Prebid, and Preconstruction Conferences for Airport Grant Projects (5-1-85). (AAS-200).

121-28

___Preparation and Loading of Magnetron Magnetic Materials for Air Transportation(3-19-87). (ACS-120).

61-101
___Presolo Written Test (4-21-89). (AVN-132).

20-34D
___Prevention of Retractable Landing Gear Failures (8-8-80). (AFS-340).

43-12A
___Preventive Maintenance (10-28-83).(AFS-340).

120-12A
___Private Carriage Versus Common Carriage of Persons or Property (4-26-86). (AFS-820).

61-10A
___Private and Commercial Pilots Refresher Courses (9-27-72). (AVN-112). (\$3.75 Supt. Docs.) SN 050-011-00060-7.

23.1011-1
___Procedures For Determining Acceptable Fuel/Oil Ratio As Required By FAR 23.1011(b) (11-14-83). (ACE-111).

23.961-1
___Procedures for Conducting Fuel System Hot Weather Operation Tests (1/14/87). (ACE-100).

90-81
___Procedures for Obtaining Publications<197> Civil Non-FAA Operated Control Towers (11-9-83). (AAT-10).

21-1B
___Production Certificates (5-10-76). (AIR-200).

21-27

___Production Certification Multinational/Multicorporate Consortia (7-14-89). (AIR-220).

21-6A
___Production Under Type Certificate Only (7-1-82). (AIR-200). (\$1.75 Supt. Docs.) SN 050-007-00636-5.

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

70/7460-2I
___Proposed Construction or Alteration of Objects that may Affect the Navigable Airspace (11-15-85). (ATO-210).

20-53A
___Protection of Aircraft Fuel Systems Against Fuel Vapor Ignition Due to Lightning (4-12-85). (ACE-111).

20-132
___Public Aircraft (12-21-88). (AIR-200).

Q

20-18A
___Qualification Testing of Turbo-jet Engine Thrust Reversers (3-16-66). (ANE-100).

20-24B
___Qualification of Fuels, Lubricants, and Additives for Aircraft Engines (12-20-85). (ANE-110).

21-36
___Quality Assurance Control for Products Acceptance Software (8-11-93).(AIR-200).

21-33

___Quality Assurance of Software Used In Aircraft or Related Products (2-3-93). (AIR-220).

21-26
___Quality Control for the Manufacture of Composite Structures (6-26-89). (AIR-220).

21-31
___Quality Control for the Manufacture of Non-Metallic Compartment Interior Components (11-15-91). (AIR-220).

00-41B
___FAA Quality Control System Certification Program (10-10-89). (ASU-430).

150/5370-12
___Quality Control of Construction for Airport Grant Projects (9-6-85). (AAS-200).

R

120-52
___Radiation Exposure of Air Carrier Crewmembers (3-5-90). (CAMI-AAM-600).

20-115B
___Radio Technical Commission for Aeronautics (RTCA, Inc. Document RTCA/DO-178B (1-11-93). (AIR-130).

21-16C
___Radio Technical Commission for Aeronautics Document DO-160C (2-14-90). (AIR-120).

43-11
___Reciprocating Engine Overhaul Terminology and Standards (4-7-76). (AFS-310).

170-10

___Recommendations to FCC on licensing of Non-Federal Radio Navigation Aids; FAA (10-17-69). (ASM-500).

43-15
___Recommended Guidelines for Instrument Shops (8-15-77). (AFS-350). 90-79

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

20-68B
___Recommended Radiation Safety Precautions for Ground Operation of Airborne Weather Radar (8-8-80). (AVN-112).

90-66A
___Recommended Standard Traffic Patterns and Practices for Aeronautical Operations at Airports without Operating Control Towers (8-26-93). (ATP-234).

211-2
___Recommended Standards for IFR Aeronautical Charts (3-20-67). (ATP-250).

25-13
___Reduced and Derated Takeoff Thrust (Power) Procedures (5-4-88). (ANM-112).

91-55
___Reduction of Electrical System Failures Following Aircraft Engine Starting (10-28-80). (AFS-310).

145-2
___Repair Station Limited Ratings Beech 18 Series Aircraft (4-21-76). (AFS-340).

120-30A
___Reporting Requirements of Air Carriers, Commercial

Operators, Travel Clubs, and Air Taxi Operators of Large and Small Aircraft (9-8-76). (AFS-330).

90-50D

___Requirements for 760-Channel VHF Radio for Aeronautical Operations T(4-9-92). (ASM-520).

20-104

___Revised Powerplant Engineering Report No. 3, Standard Fire Test Apparatus and Procedure (for Flexible Hose Assemblies) (4-12-78). (AIR-140).

61-84B

___Role of Preflight Preparation (3-18-85). (AFS-840).

133-1A

___Rotorcraft External-Load Operations in Accordance with FAR Part 133 (10-16-79). (AFS-824).

00-30A

___Rules of Thumb for Avoiding or Minimizing Encounters with Clear Air Turbulence (11-21-88). (AFS-400).

150/5325-4A

___Runway Length Requirements for Airport Design (1-29-90). (AAS-110).
150/5220-13B

___Runway Surface Condition Sensor Specification Guide (3-27-91). (AAS-100).

97-1A

___Runway Visual Range (RVR) (9-28-77). (AFS-400).

150/5340-24

___Runway and Taxiway Edge Lighting System (9-3-75). (AAS-200).

S

91-32A

___Safety In and Around Helicopters

20-45

___Safetying of Turnbuckles on Civil Aircraft (9-17-65). (AIR-110).

108-3

___Screening of Persons Carrying U.S. Classified Material (11-6-81). (ACS-100).

91-69

___Seaplane Safety for FAR Part 91 Operations (3-13-92). (AFS-820).

99-1C

___Security Control of Air Traffic (4-20-89). (ATP-140).

108-2

___Security Rules--Carriage of Weapons and Escorted Persons (10-16-81). (ACS-3).

150/5340-5B

___Segmented Circle Airport Marker System (12-21-84). (AAS-200).

121-13

___Self-Contained Navigation Systems (Long Range) (10-14-69). (AFS-224).

23.607-1

___Self-Locking Nuts on Bolts Subject to Rotation (8-24-84). (ACE-111).

20-109A

___Service Difficulty Program (General Aviation) (4-8-93). (AFS-643).

135.169-1

___Small Propeller-Driven Air Taxi Airplanes That Meet Sections 135.169 (formerly 135.144) (9-24-79). (AIR-110).

25-9

___Smoke Detection, Penetration, and Evacuation Tests and Related Flight Manual Emergency Procedures (7-29-86). (ANM-112).

21-4B

___Special Flight Permits for Operation of Overweight Aircraft (7-30-69). (AIR-200).

150/5345-39B

___Specification L-853, Runway and Taxiway Centerline Retroreflective Markers (9-17-71). (AAS-200).

150/5345-49A

___Specification L-854, Radio Control Equipment (8-8-86). (AAS-200).

150/5345-12C

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105-2C

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- 00-7B
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- 20-3C
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- 00-44EE
____Status of Federal Aviation Regulations (August 1993) (AGC-200).
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33-3

____Turbine and Compressor Rotors Type Certification Substantiation Procedures (9-9-68). (ANE-100).

33-1B

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21.17-3

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U

20-65

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91-43

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23.959-1

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150/5370-11

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91-58

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170-6C

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91-65

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150/5300-15

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V

91-36C

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90-58C

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50/5390-3

____Vertiport Design (5-31-91). (AAS-100).

20-66

____Vibration Evaluation of Aircraft Propellers (1-29-70). (ANE-100).

W

101-1A

____Waivers of Part 101, Federal Aviation Regulations (6-3-81). (ATO-223).

91-5C

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

91-45C

___Waivers: Aviation
Events (2-1-90). (AFS-20).

25.1455-1

___Waste Water/Potable
Water Drain System

Certification (3-11-85).
(ANM-112).

150/5210-13A

___Water Rescue Plans,
Facilities, and Equipment
(5-31-91). (AAS-120).

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).

150/5220-4B

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150/5380-6 **Guidelines and Procedures for Maintenance of Airport Pavements (12-3-82).** (AAS-200). (\$7.00 Supt. Docs.) SN 050-007-00627-6.

INTERNAL PUBLICATIONS

■ **Air Traffic Control Handbook, 7110.65H (9-16-93).** 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. \$72.00 domestic, \$90.00 foreign--Supt. Docs.) SN 950-002-00000-0. (ATP-211).

■ **Chg. 1 (10-4-93)**

■ **Contractions, 7340.1M (10-1-93).** Contains approved word and phrase contractions used by personnel of FAA. It is also used by other agencies that

provide air traffic control, communications, weather, charting, and associated services. (Sub. \$38.00 domestic, \$47.50 foreign--Supt. Docs.) SN 950-003-00000-6 (ATP-215).

■ **Chg. 1 (8-28-92).**

■ **Chg. 2 (12-9-92).**

■ **Chg. 3 (5-3-93).**

■ **Chg. 4 (10-1-93).**

■ **Facility Operation and Administration Handbook, 7210.3K (9-16-93).**

Provides direction and guidance for day-to-day operation of facilities and offices under the administrative jurisdiction for the Federal Aviation Administration's Associate Administrator for Air Traffic. It contains information generally applicable to two or more types of facilities. It also contains instructions unique to center, terminal, or flight service facilities. (\$27.00 Supt. Docs.) SN 050-007-00980-1. (ATP-211).

■ **Chg. 1 (10-4-93)**

■ **Flight Services, 7110.10K (1993).** Prescribes procedures and phraseology for use by personnel providing flight assistance services. (Sub. \$52.00 domestic, \$65.00 foreign--Supt. Docs.) SN 950-032-00000-6 (ATP-212).

■ **Location Identifiers, 7350.6K (9-16-93).**

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. \$32.00 domestic, \$40.00 foreign--Supt. Docs.) TD 4.310; SN 950-035-00000-5 (ATP-214).

United States Standard for Terminal Instrument Procedures (TERPS), 8260.3B (July 1976). (Consolidated reprint includes changes 1 thru14).

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. (\$..... single copy. Supt. Docs.) (Changes sold separately as issued.) SN 050-007-00..... (AFS-13).

■ **Chg. 15 (9-10-93)** (\$..... Supt Docs.) SN 050-007- -

Airworthiness Inspector's Handbook, 8300.10 (November 1988). (Consolidated reprint includes changes 1 thru 5).

Contains procedural steps required for Federal Aviation Administration (FAA) airworthiness inspector's to accomplish their job tasks. (\$35.00 single copy. Supt. Docs.) (Changes sold separately as issued.) SN 050-007-00922-4. (AFS-300)

Chg. 6 (6-24-92) (\$12.00 Supt Docs.) SN 050-007-00955-1.

Chg. 7 (7-17-92) (\$23.00 Supt Docs.) SN 050-007-00958-5.

Chg. 8 (7-24-92) (\$16.00 Supt Docs.) SN 050-007-00966-6.

■ **Chg. 9 (8-13-93)** (\$29.00 Supt Docs.) SN 050-007-01011-7.

Air Transportation Operations Inspector's Handbook, 8400.10 (August 1988). (Consolidated reprint includes changes 1 thru 5).

Directs the activities of operations aviation safety inspectors ASI's who are responsible for the certification, technical administration and surveillance of air carriers and certifies the air operators who conduct their operation in accordance with FAR Part 121 and 135. (\$37.00 single copy. Supt. Docs.) (Changes sold separately as issued.) SN 050-007-00923-2. (AFS-200)

Chg. 6 (7-28-92) (\$17.00 Supt Docs.) SN 050-007-00968-2.

Chg. 7 (9-30-92) (\$21.00 Supt Docs.) SN 050-007-00974-7.

■ **Chg. 8 (9-10-93)** (\$13.00 Supt Docs.) SN 050-007-01014-1.

General Aviation Operations Inspector's Handbook, 8700.1 (October 1988). (Consolidated reprint includes changes 1 thru 7).

Directs the activities of operations aviation safety inspectors ASI's who are responsible for the certification, technical administration and surveillance of airmen, air operators, and air agencies. (\$42.00 single copy. Supt. Docs.) (Changes sold separately as issued.) SN 050-007-00921-6. (AFS-800)

Chg. 8 (3-1-93) (\$15.00 Supt. Docs.) SN 050-007-00977-1.

■ Chg. 9 (6-1-93) (\$19.00 Supt. Docs.) SN 050-007-00997-6.

FLIGHT INFORMATION

■ **Airman's Information Manual: Official Guide to Basic Flight Information and ATC Procedures (8-16-93).**

Basic and Supplement effective with 1/6/94 basic manual. 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. \$58.00 domestic; \$72.50 foreign-Supt. Docs.) SN 750-001-00000-9. (ATP-214)

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 \$208.00 domestic, \$260.00 foreign-Supt. Docs.) SN 750-004-00000-8. (ATP-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 Branch (N/CG33)
National Ocean Service, NOAA
6501 Lafayette Avenue
Riverdale, Maryland 20804
Phone: 301-436-6990
Fax: 301-436-6829

International Flight Information Manual, Vol. 40 (April 1992)

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 (ATP-216).

■ **International Notices to Airmen**

Covers foreign NOTAM data and associated navigational data generally classified as 'Special Notices.' Published biweekly. (Annual Sub. \$57.00 domestic, \$71.25 foreign--Supt. Docs.) SN 750-003-00000-1. (ATP-213D).

■ **United States Aeronautical Information Publication Thirteenth Edition, (5/93).**

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. \$87.00 domestic, \$108.75 foreign--Supt. Docs.) SN 950-001-00000-3. (ATP-214).

PRODUCTION/DESIGN APPROVALS

Parts Manufacturer Approvals

This publication is a 24x, 98 frame 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. (\$3.75 domestic, \$4.69 foreign--Supt. Docs.) SN 050-007-00963-1. (AFS-613).

Summary of Supplemental Type Certificates, July 1989

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. \$56.00 domestic, \$70.00 foreign--Supt. Docs.) SN 050-007-00982-8. (AFS-613).

Type Certificate Data Sheets and Specifications (AFS-613).

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. Volumes I-VI are also sold through Supt. Docs. on Microfiche (1-year subscription). (Sub. \$92.00 domestic, \$115.00 foreign).

Vol. I Single Engine Airplanes

(Sub. \$167.00 domestic, \$208.75 foreign--Supt. Docs.) SN 950-048-00000-0.

Vol. II Small Multiengine Airplanes

(Sub. \$155.00 domestic, \$193.75 foreign--Supt. Docs.) SN 950-049-00000-6.

Vol. III Large Multiengine Airplanes
(Sub. \$171.00 domestic, \$213.75 foreign--Supt. Docs.) SN 950-050-00000-4.

Vol. IV Rotorcraft, Gliders, and Balloons
(Sub. \$163.00 domestic, \$203.75 foreign--Supt. Docs.) SN 950-051-00000-1.

Vol. V Aircraft Engines and Propellers
(Sub. \$159.00 domestic, \$198.75 foreign--Supt. Docs.) SN 950-052-00000-7.

Vol. VI Aircraft Listing and Aircraft Engine and Propeller Listing (SN 050-007-00893-7) (Single Copy \$31.00 domestic, \$38.75 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. (Microfiche 24x edition (1-year subscription) (Vols. I-VI \$93.00 domestic, \$116.25 foreign--Supt. Docs.).

Volume VI is sold on a single-sale basis and will be issued as a revised edition when sufficient changes warrant.

AIRWORTHINESS INFORMATION

The Summary of Airworthiness Directives--

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: AMZ-330,
Oklahoma City, Okla. 73125.
Phone: 405-954-4870
Fax: 405-954-2930

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. \$164.00 domestic, \$205.00 foreign).

Summary of Airworthiness Directives for Small Aircraft, Book 2

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. (\$203.00 domestic, \$253.75 for foreign handling.) SN 950-045-00000-1.

Summary of Airworthiness Directives for Large Aircraft, Book 2

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. (\$222.00 domestic, \$277.50 for foreign handling.) SN 950-046-00000-7.

FAA WRITTEN TEST QUESTION BOOKS

FAA-T-8080-1B, Private Pilot Question Book (2-4-88). eff. March 1988 (AFS-631). (Canceled by FAA-T-8080-15).
FAA-T-8080-2B, Commercial Pilot Question Book (1-12-88). eff. March 1988 (AFS-631). (Canceled by FAA-T-8080-16).

FAA-T-8080-3C, Fundamentals of Instructing, Flight Instructor, Ground Instructor-Basic and Advanced Question Book (3-20-89). (AFS-631). (Canceled by FAA-T-8080-18).

FAA-T-8080-4A, Fundamentals of Instructing and Ground Instructor Basic--Advanced Question Book (11-12-85). (AFS-63) (Canceled by FAA-T-8080-3B, (2-29-88).

FAA-T-8080-5C, Airline Transport Pilot, Aircraft Dispatcher, and Flight Navigator Question Book (3-22-89). (AFS-631). (Canceled by FAA-T-8080-17).

FAA-T-8080-7C, Instrument Rating Question Book (2-21-90). (AFS-630). (Canceled by FAA-T-8080-20).

FAA-T-8080-8C, Flight Engineer Question Book (3-10-89). eff. March 1989 (AFS-631). (Canceled by FAA-T-8080-19).

■ **FAA-T-8080-9C, Parachute Rigger Question Book (September 1993)** (AFS-632).

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. (\$4.25. Supt. Docs.) SN 050-007-01000-1.

FAA-T-8080-10D, Aviation Mechanic General Question Book (May 1992). (AFS-632).

Presents the Aviation Mechanic General Written Test for use by FAA testing centers and FAA designated written test examiners in administering the tests. It serves as an official test book as well as test guide for applicant study. (\$6.50 Supt. Docs.) SN 050-007-00947-0.

FAA-T-8080-11D, Aviation Mechanic Powerplant Question Book (May 1992). (AFS-632).

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. (\$7.50 Supt. Docs.) SN 050-007-00946-1.

FAA-T-8080-12D, Aviation Mechanic Airframe Question Book (May 1992). (AFS-632).

Presents the Aviation Mechanic Airframe Written Test for use by FAA testing centers and FAA designated written test examiners in administering the tests. It serves as an official test book as well as test guide for applicant study. (\$8.50 Supt. Docs.) SN 050-007-00948-8.

FAA-T-8080-14, Recreational Pilot Question Book (4-25-89). (AFS-632). (Canceled by FAA-T-8080-15).

■ **FAA-T-8080-15B, Recreational Pilot and Private Pilot Written Test Book (1993). (AFS-632).**

Presents subject test to be used by FAA testing centers and FAA designated written test examiners in administering all categories of Recreational Pilot and Private Pilot written tests. It serves as an official test book as well as test guide for applicant study. (\$12.00 Supt. Docs.) SN 050-007-00993-3.

■ **FAA-T-8080-16B, Commercial Pilot Written Test Book (1993). (AFS-632).**

Presents subject book to be used by FAA testing centers and FAA designated written test examiners when administering the commercial pilot written tests. It serves as an official test book as well as test guide for applicant study. (\$13.00. Supt. Docs.) SN 050-007-00994-1.

■ **FAA-T-8080-17A, Airline Transport Pilot and Aircraft Dispatcher Written Test Book (1993). (AFS-632).**

Use by FAA testing centers and FAA designated written test examiners when administering those tests. It serves as an official test book as well as test guide for applicant study. (\$24.00 Supt. Docs.) SN 050-007-00987-9.

■ **FAA-T-8080-18A, Flight and Ground Instructor Written Test Book (1993). (AFS-632).**

Presents the Flight and Ground Instructor written tests to be used by FAA testing centers and FAA designated written test examiners when administering subject tests. It serves as an official test book as well as test guide for applicant study. (\$13.00 Supt. Docs.) SN 050-007-00984-4.

■ **FAA-T-8080-19A, Flight Engineer Written Test Book (1993). (AFS-632).**

Used by FAA testing centers and FAA designated written test examiners when administering all categories of flight engineer written tests. An applicant for a flight engineer certificate must pass a basic written test and a class rating written test appropriate to the class of aircraft on which a rating is desired. It serves as an official test book as well as test guide for applicant study. (\$9.50 Supt. Docs.) SN 050-007-00995-0.

■ **FAA-T-8080-20A, Instrument Rating Written Test Book (1993). (AFS-632).**

Developed by the FAA to be used by FAA testing centers and FAA designated written test examiners when administering the all categories of instrument rating tests. An applicant for an instrument rating must pass a basic written test and a class rating written test appropriate to the class of aircraft on which a rating is desired. Serves as an official test book as well as test guide for applicant study. (\$20.00 Supt. Docs.) SN 050-007-00996-8.

FAA COMPUTERIZED TESTING SUPPLEMENTS

■ **FAA-CT-8080-1A, Computerized Testing Supplement for Commercial Pilot (1993). (AFS-632).**

Developed by the FAA for use by FAA designated testing examiners when administering the commercial pilot computerized tests. Supplement material is extracted from FAA-T-8080-16A. (\$6.50 Supt. Docs.) SN 050-007-00989-5

■ **FAA-CT-8080-2A, Computerized Testing Supplement for Recreational Pilot and Private Pilot (1993). (AFS-632).**

Developed by the FAA for use by FAA designated testing examiners when administering the recreational pilot and private pilot computerized tests. Supplement material is extracted from FAA-T-8080-15B. (\$6.00 Supt. Docs.) SN 050-007-00990-9.

■ **FAA-CT-8080-3A, Computerized Testing Supplement for Instrument Rating (1993). (AFS-632).**

Developed by the FAA for use by FAA designated testing examiners when administering the instrument rating computerized tests. Supplement material is extracted from FAA-T-8080-20A. (\$14.00 Supt. Docs.) SN 050-007-00991-7.

■ **FAA-CT-8080-4, Computerized Testing Supplement for Aviation Mechanic General, Powerplant, and Airframe (May 1992). (AFS-632).**

Developed by the FAA for use by FAA designated testing examiners when administering the aviation mechanic general, powerplant, and airframe computerized tests. Supplement material is extracted from FAA-T-8080-12D. (\$4.25 Supt. Docs.) SN 050-007-00945-3.

■ **FAA-CT-8080-5, Computerized Testing Supplement for Flight and Ground Instructor (1993). (AFS-632).**

Developed by the FAA for use by FAA designated testing examiners when administering subject tests. Supplement material is extracted from FAA-T-8080-18A. (\$3.75 Supt. Docs.) SN 050-007-00985-2.

■ **FAA-CT-8080-6, Computerized Testing Supplement for Flight Engineer (1993). (AFS-632).**

Developed by the FAA for use by FAA designated testing examiners when administering subject tests. Supplement material is extracted from FAA-T-8080-19A. (\$3.00 Supt. Docs.) SN 050-007-00992-5.

■ **FAA-CT-8080-7, Computerized Testing Supplement for Airline Transport Pilot Aircraft Dispatcher, and Flight Navigator (1993). (AFS-632).**

Developed by the FAA for use by FAA designated testing examiners when administering subject tests. Supplement material is extracted from FAA-T-8080-17A. (\$14.00 Supt. Docs.) SN 050-007-00986-1

FAA PRACTICAL TEST STANDARDS

■ **FAA-S-8081-1A, Private Pilot--Practical Test Standards (11-2-87). (AFS-632).**

Contains the standards which establish for the private pilot certification practical tests for all aircraft categories classes. FAA inspectors and designated pilot examiners will conduct practical tests in compliance with these standards. Flight instructors and applicants will find these standards helpful in practical test preparation. (\$15.00 Supt. Docs.) SN 050-007-00775-2.

FAA-S-8081-2 Commercial Pilot Practical Test Standards, July 1985, effective 8/1/85. (AFS-632). (with Errata sheet)

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 950-056-00003-7. (Consolidated reprint includes changes 1 & 2).

FAA-S-8081-3, Recreational Pilot Practical Test Standards (4-21-89). (AFS-632).

Contains standards that set forth the practical test requirements for recreational pilot certification in airplane and rotorcraft category aircraft. To be used by FAA inspectors and designated pilot examiners when conducting recreational pilot airmen practical tests. (\$4.25 Supt. Docs.) SN 050-007-00827-9.

FAA-S-8081-4A, Instrument Rating Practical Test Standards, (3-28-89). (AFS-632).

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. (\$2.00 Supt. Docs.) SN 950-060-00822-8.

FAA-S-8081-5, Airline Transport Pilot and Type Rating Practical Test Standards (11-1-88). (AFS-632).

Contains the standards which establish the practical test requirements for Airline Transport Pilot and Type Rating certification for airplanes and helicopters. It is to be used by FAA inspectors and designated pilot examiners when conducting practical tests (oral and practical). Flight instructors and applicants will find these standards helpful in practical test preparation. (\$2.00 Supt. Docs.) SN 050-007-00809-1.

FAA-S-8081-6A, Flight instructor Practical Test Standards for Airplane - Single-Engine and Multiengine (4-9-91). (AFS-632).

Developed as a standard to be used by FAA inspectors and designated pilot examiners when conducting flight instructor - airplane (single-engine) and flight instructor - airplane (multiengine) practical tests. Flight instructors are expected to use this book when preparing flight instructor applicants for practical tests. (\$6.50 Supt. Docs.) SN 050-007-00898-8.

FAA-S-8081-7, Flight instructor Practical Test Standards for Rotorcraft/Helicopter and Rotorcraft/Gyroplane (10-8-87). (AFS-632).

Contains the standards which establish the practical test requirements for flight instructor certification practical tests for rotorcraft category and the helicopter and gyroplane classes. It is to be used by FAA inspectors and designated pilot examiners when conducting practical tests in compliance with these standards. Flight instructors and applicants will find these standards helpful in practical test preparation. (\$6.50 Supt. Docs.) SN 050-007-00769-8.

FAA-S-8081-8, Flight instructor Practical Test Standards for Glider (10-8-87). (AFS-632).

Contains the standards which establish the practical test requirements for flight instructor certification practical tests for the glider category. It is to be used by FAA inspectors and designated pilot examiners when conducting practical tests in compliance with these standards. Flight instructors and applicants will find these standards helpful in practical test preparation. (\$4.00 Supt. Docs.) SN 050-007-00771-0.

FAA-S-8081-9A, Flight Instructor -- Instrument (Airplane and Helicopter) Practical Test Standards (1-22-90). (AFS-632). eff. March 1990.

Developed as a standard to be used by FAA inspectors and designated pilot examiners when conducting flight instructor--instrument (airplane) and flight instructor --instrument (helicopter) practical tests. Flight instructors are expected to use this book when preparing

flight instructor applicants for practical tests). (\$2.75 Supt. Docs.) SN 050-007-00864-3.

FAA-S-8081-10, Aircraft Dispatcher Practical Test Standards (5-22-90). (AFS-632).

Developed as a standard to be used by FAA inspectors and designated examiners when conducting the aircraft dispatcher practical test. Instructors are expected to use this book when preparing applications for the practical test. (\$1.50 Supt. Docs.) SN 050-007-00876-7.

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 (1992).** Title self explanatory. (\$33.00 Supt. Docs.) SN 050-007-01001-0. (APO-110).

Aeronautical Science Course Study GA-20-10, (1969). Educational material. (\$3.05 Supt. Docs.) SN 050-007-00060-0 (APO).

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. (APO-4).

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 statute 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. (ACE-100).

Census of U.S. Civil Aircraft, CY 1991.

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. (\$23.00 Supt. Docs.) SN 050-007-00949-6. (APO-110.)

Caution: It is Illegal and Extremely Dangerous to take on Board an Airplane or Check With Your Luggage Any Hazardous Materials (Sept. 1979). Copies available from Supt. Docs. SN 050-007-00484-2. Price--\$5.00--Package/100.

The Cutting Air Crash.

Analyzes the political repercussions that followed the death of Senator Bronson Cutting of New Mexico in an air crash in 1935. (\$4.00 Supt. Docs.) SN 050-007-00677-2. (APA-4).

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

Emphasis functional, visual, and aesthetic improvements of both exterior and interior treatment of airport terminals. Also access roads, graphic aids, and related facilities. For use by airport managers, sponsors, architects, landscape architects, and interior designers. For use in renovation or new construction. (\$5.50 Supt. Docs.) SN 050-007-00575-0. (APP-600).

FAA Air Traffic Activity, FY 92.

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. (\$15.00 Supt. Docs.) SN 050-007-00983-6. (APO-110).

■ **FAA Aviation Forecasts--Fiscal Years 1993-2004, FAA-APO-93-1(2/93).**

Provides forecasts of aviation at Federal Aviation Administration facilities. (\$15.00 Supt. Docs.) SN 050-007-01008-7. (APO-110).

FAA Aviation News

Copies available from Supt. Docs. SN 750-002-00000-5. Sub. \$8.00 domestic, \$10.00 foreign. Single copy domestic \$1.50 and \$1.88 single copy foreign. (AFS-807).

■ **FAA Directory (Current Edition).**

Title self explanatory. Issued bi-annually. (\$15.00 Supt. Docs.) SN 050-007-00971-2. (ABA-20).

FAA Statistical Handbook of Aviation--Calendar Year 1991.

Serves as a convenient source for historical data on civil aviation activities, and to assist in evaluating progress. (\$9.50 Supt. Docs.) SN 050-007-00970-4. (APO-110).

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

Pertains to the analysis and design problems of fiber composites. (\$16.00 Supt. Docs.) SN 050-007-00716-7. (ACT-330).

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

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

■ **Flight Check: The Story of Flight Inspection (1993).**

Covers the history of the flight inspection program from its inception to today. (\$... Supt. Docs.) SN 050-007-01010-9.

■ **General Aviation Activity an Avionics Survey, CY 91.**

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. (\$21.00 Supt. Docs.) SN 050-007-00969-1 (APO-110).

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 (IRMP) (December 1989).

Vol. I: Strategic Overview--(Not being published this year).

Vol. II: Systems Plan FY 89 - FY 93 (5-year plan)--focuses on a 5-year planning horizon and includes funding requirements for specific projects for each of the 5 years. The project summaries and ongoing systems fact sheets reflect the status of the IRMP planning data base as of October 1989. Volume II \$17.00 Supt. Docs.) SN 050-007-00872-4. (AIT-200).

National Air Traffic Training Program, Terminal Refresher, VFR Tower, TR-1 through TR-14 (2/91).

A fourteen (14) unit self study program for recurrent training of seldom used and complex routine procedures used by Airport Tower Controllers. (\$17.00 Supt. Docs.) SN 050-007-00931-3 (ATZ-120.6).

National Air Traffic Training Program, Terminal Instructional Program Guide, TP-12-0-1C (2/91).

Provides guidance in administering a facility training program, outlines mandatory training objectives, and evaluations for measuring training objectives. (\$10.00 Supt. Docs.) SN 050-007-00930-5 (ATZ-120.6)

National Air Traffic Training Program, Terminal Self Study, Phase VI, 55026, Flight (2/91).

Covers developmental training of the duties and responsibilities of a flight data position in a modern Airport Air Traffic Control Tower. (\$41.00 Supt. Docs.) SN 050-007-00932-1 (ATZ-120.6).

National Air Traffic Training Program, Terminal Self Study, Phase VII, 55027, Clearance Delivery (2/91).

Covers developmental training of the duties and responsibilities of a Clearance Delivery position in a modern Airport Air Traffic Control Tower. (\$6.00 Supt. Docs.) SN 050-007-00933-0 (ATZ-120.6).

National Air Traffic Training Program, Terminal Self Study, Phase VIII, 55028, Ground Control (2/91).

Covers developmental training of the duties, responsibilities and separation utilized by a Local Ground Control position in an Airport Air Traffic Control Tower. (\$24.00 Supt. Docs.) SN 050-007-00934-8 (ATZ-120.6).

National Air Traffic Training Program, Terminal Self Study, Phase IX, 55029, Local Control (2/91).

Covers developmental training of the duties, responsibilities and separation utilized by a Local Control position in an Airport Air Traffic Control Tower. (\$41.00 Supt. Docs.) SN 050-007-00935-6 (ATZ-120.6).

National Plan for Intergrated Airport System, (1990-1999).

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. (\$28.00 Supt. Docs.) SN 050-007-00903-8.

North Atlantic International General Aviation Operations Manual (October 1990)

Provides International General Aviation (IGA) pilots information necessary in flight planning and operation in the North Atlantic Oceanic region. (\$2.25 Supt. Docs.) SN 050-007-00886-4). (ATP-140).

■ Pilots and Aviation Maintenance Technicians for the Twenty-First Century—An Assessment of Availability and Quality (July 1993).

Contains several recommendations for alleviating potential shortages of subject. (\$9.00..Supt. Docs.) SN 050-007-01005-2 (AVR-2/AFS-33)

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, \$8.00). SN 050-007-00566-1. (cloth, \$16.00) SN-050- 007-00581-4. Supt. Docs. (APA-4).

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).

The Third Man: A History of the Airline Crew Complement Controversy 1941-1981.

Gives an analysis of how many pilots and crewmembers it takes to fly an aircraft. (\$5.50 Supt. Docs.) SN 050-007-00761-2).(APA-110).

■ Terminal Area Forecasts, FY 1993 - 2005, FAA-APO-93-9 (July 1993).

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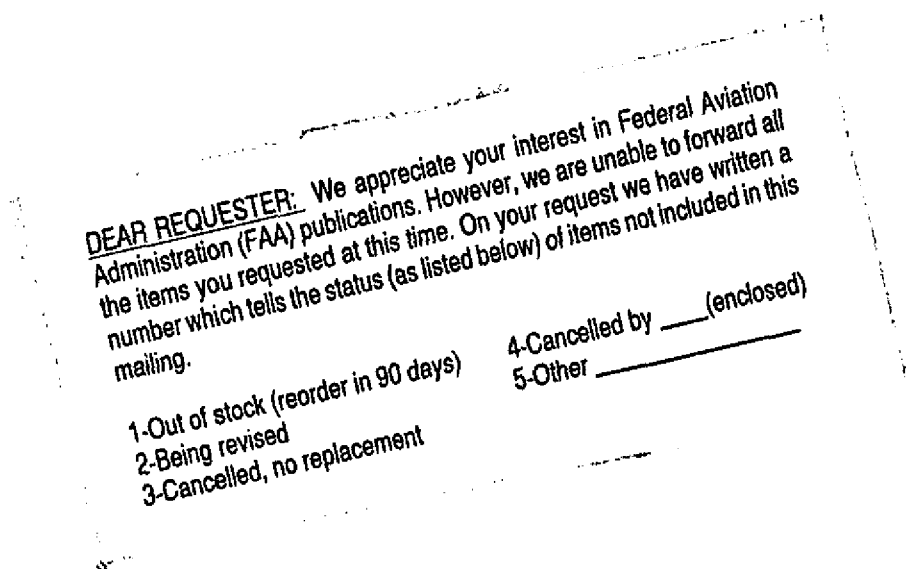


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45	Identification and Registration Marking	
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61	Certification: Pilots and Flight Instructors	
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67	Medical Standards and Certification	
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71	Designation of Federal Airways, Area Low Routes, Controlled Airspace, and Reporting Points	
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75	Establishment of Jet Routes and Area High Routes	
77	Objects Affecting Navigable Airspace	
90	AIR TRAFFIC AND GENERAL OPERATING RULES	
91	General Operating and Flight Rules	
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