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DEPARTMENT OF TRANSPORTATION

■
Federal Aviation
Administration

■
Advisory Circular Checklist
and
Status of Federal
Aviation Regulations

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

[AO 00-2T—Effective October 29, 1971]

ADVISORY CIRCULAR CHECKLIST AND STATUS OF FEDERAL AVIA- TION REGULATIONS

1. *Purpose.* This notice contains the revised checklist of current FAA advisory circulars and the status of Federal Aviation Regulations as of October 29, 1971.

2. *Explanation.* 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 in the recodified Federal Aviation Regulations (14 CFR Ch. I). This checklist is issued triannually listing all current circulars and now includes information concerning the status of the Federal Aviation Regulations.

3. The Circular Numbering System.

a. *General.* The advisory circular numbers relate to the subchapter titles and correspond to the Parts, and when appropriate, the specific sections of the Federal Aviation Regulations. Circulars of a general nature bear a number corresponding to the number of the general subject (subchapter) in the FAR's.

b. *Subject numbers.* The general subject matter areas and related numbers are as follows:

Subject Number and Subject Matter

00	General.
10	Procedural.
20	Aircraft.
60	Airmen.
70	Airspace.
90	Air Traffic Control and General Operations.
120	Air Carrier and Commercial Operators and Helicopters.
140	Schools and Other Certified Agencies.
150	Airports.
170	Air Navigational Facilities.
180	Administrative.
210	Flight Information.

c. Breakdown of subject numbers.

When the volume of circulars in a general series warrants a subsubject breakdown, the general number is followed by a slash and a subsubject number. Material in the 150, Airports, series is issued under the following subsubjects:

Number and Subject

150/1900	Defense Readiness Program.
150/4000	Resource Management.
150/5000	Airport Planning.
150/5100	Federal-aid Airport Program.
150/5150	Surplus Airport Property Conveyance Programs.
150/5190	Airport Compliance Program.
150/5200	Airport Safety—General.
150/5210	Airport Safety Operations (Recommended Training, Standards, Manning).
150/5220	Airport Safety Equipment and Facilities.

150/5230	Airport Ground Safety System.
150/5240	Civil Airports Emergency Preparedness.
150/5300	Design, Construction, and Maintenance—General.
150/5320	Airport Design.
150/5325	Influence of Aircraft Performance on Aircraft Design.
150/5335	Runway, Taxiway, and Apron Characteristics.
150/5340	Airport Visual Aids.
150/5345	Airport Lighting Equipment.
150/5360	Airport Buildings.
150/5370	Airport Construction.
150/5380	Airport Maintenance.
150/5390	Heliports.

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

4. The Advisory Circular Checklist.

a. *General.* Each circular issued is listed numerically within its subject-number breakdown. The identification number (AC 120-1), the change number of the latest change, if any, to the right of the identification number, the title, and the effective date for each circular are shown. A brief explanation of the contents is given for each listing.

b. *Omitted numbers.* In some series sequential numbers omitted are missing numbers, e.g., 00-8 through 00-11 have not been used although 00-7 and 00-12 have been used. These numbers are assigned to advisory circulars still in preparation which will be issued later or were assigned to advisory circulars that have been canceled.

c. *Free and sales circulars.* This checklist contains advisory circulars that are for sale as well as those distributed free of charge by the Federal Aviation Administration. Please use care when ordering circulars to ensure that they are ordered from the proper source.

d. *Internal directives for sale.* A list of certain internal directives sold by the Superintendent of Documents is shown at the end of the checklist. These documents are not identified by advisory circular numbers, but have their own directive numbers.

5. How to get circulars.

a. When a price is listed after the description of a circular, it means that this circular is for sale by the Superintendent of Documents. When (Sub.) is included with the price, the advisory circular is available on a subscription basis only. After your subscription has been entered by the Superintendent of Documents, supplements or changes to the basic document will be provided automatically at no additional charge until the subscription expires. When no price is given, the circular is distributed free of charge by FAA.

b. Request free advisory circulars shown without an indicated price from:

Department of Transportation, Distribution Unit, TAD 484.3, Washington, D.C. 20590.
NOTE: Persons who want to be placed on FAA's mailing list for future circulars should write to the above address. Be sure to identify the subject matter desired by the subject numbers and titles shown in paragraph 3b because separate mailing lists are maintained for each advisory circular subject series. Checklists and circulars issued in the general series will be distributed to every addressee on each of the subject series lists. Persons requesting more than one subject classification may receive more than one copy of related circulars and this checklist because they will be included on more than one mailing list. Persons already on the distribution list for AC's and changes to FAR's will automatically receive related circulars.

c. Order advisory circulars and internal directives with purchase price given from:

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

or from any of the following bookstores located throughout the United States:

GPO Bookstore, Federal Building, Room 1023, 450 Golden Gate Avenue, San Francisco, Calif. 94102.

GPO Bookstore, Federal Office Building, Room 1463, 14th Floor, 219 South Dearborn Street, Chicago, Ill. 60604.

GPO Bookstore, Federal Building, 300 North Los Angeles Street, Los Angeles, Calif. 90012.

GPO Bookstore, Federal Building, Room 135, 601 East 12th Street, Kansas City, Mo. 64108.

GPO Bookstore, Room G26, John F. Kennedy Federal Building, Sudbury Street, Boston, Mass. 02203.

GPO Bookstore, Room 110, 26 Federal Plaza, New York, NY 10007.

GPO Bookstore, Federal Building, U.S. Courthouse, Room 1421, 1961 Stout Street, Denver CO 80202.

GPO Bookstore, Room 1048, Federal Building, U.S. Courthouse, 1100 Commerce Street, Dallas, TX 75202.

GPO Bookstore, Room 100, Federal Building, 275 Peachtree Street NE., Atlanta, GA 30303.

Send check or money order with your order to the Superintendent of Documents. Make the check or money order payable to the Superintendent of Documents in the amounts indicated in the list. Orders for mailing to foreign countries should include an additional amount of 25 percent of the total price to cover postage. No c.o.d. orders are accepted.

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

7. *Cancellations.* The following advisory circulars are canceled:

AC 00-2S *Advisory Circular Checklist, 6-11-71.* Canceled by AC 00-2T, *Advisory Circular Checklist, 10-29-71.*

AC 20-7G *General Aviation Inspection Aids, Summary, August 1970.* Canceled by AC 20-7H, *General Aviation Inspection Aids, Summary, August 1971.*

AC 20-35A Tie-Down Sense, 10-29-68. Canceled by AC 20-35B, Tiedown Sense, 4-10-71.

AC 20-43A Aircraft Fuel Contamination, 6-12-70. Canceled by AC 20-43B, Aircraft Fuel Control, 6-8-71.

AC 21-1 Production Certificates, 6-15-65. Canceled by AC 21-1A, Production Certificates, 7-9-71.

AC 27.1581-1 Sea Rotocraft Autorotative Landing on Land, 8-3-65. Canceled.

AC 61-4B Flight Test Guide—Multiengine Airplane Class or Type Rating, 4-1-68. Canceled by AC 61-4C, Multiengine Airplane Class or Type Rating Flight Test Guide, 3-1-71.

AC 61-18B Airline Transport Pilot (Airplane) Written Test Guide, 7-1-68. Canceled by AC 61-18C, Airline Transport Pilot (Airplane) Written Test Guide, 4-10-71.

AC 61-29 Instrument Flight Instructor Written Examination Guide, 9-28-66. Canceled by AC 61-29A, Instrument Flight Instructor Written Test Guide, 10-16-70.

AC 65.33-1 List of Study References for the ATC Tower Operator Examination, 5-25-66. Canceled.

AC 70/7460-2B Proposed Construction or Alterations of Objects That May Affect the Navigable Airspace, 11-4-70. Canceled by AC 70/7460-2C, Proposed Construction or Alteration of Objects That May Affect the Navigable Airspace, 9-16-71.

AC 90-52 FAA Symposium on Turbulence, 12-15-70. Canceled.

AC 90-53 FAA Symposium on Turbulence—Extension of Response Time for Registration, 2-8-71. Canceled.

AC 91-19 Emergency Locator Beacons Crash, Survival, Personnel, 3-17-69. Canceled.

AC 99.11-1 Flight Plan Requirements: Coastal or Domestic ADIZ, 11-15-63. Canceled.

AC 103-1 Hazard Associated With Sublimation of Solid Carbon Dioxide (Dry Ice) Aboard Aircraft, 12-16-63. Canceled.

AC 120-28A Civil Aircraft Operator Designators, 5-11-70. Canceled by AC 120-28B, Civil Aircraft Operator Designators, 5-11-71.

AC 121-3L Maintenance Review Board Reports, 1-29-71. Canceled by AC 121-3M, Maintenance Review Board Reports, 9-29-71.

AC 140-2E List of Certificated Pilot Flight and Ground Schools, 1-1-69. Canceled by AC 140-2F, List of Certificated Pilot Flight and Ground Schools, 7-9-71.

AC 147-2G Directory of FAA Certificated Aviation Maintenance Technician Schools, 10-27-70. Canceled by AC 147-2H, Directory of FAA Certificated Aviation Maintenance Technician Schools, 10-19-71.

AC 149-2E Listing of Federal Aviation Administration Certificated Parachute Lofts, 12-9-70. Canceled by AC 149-2F, Listing of Federal Aviation Administration Certificated Parachute Lofts, 10-8-71.

AC 150/5300-7 FAA Policy on Facility Relocations Occasioned by Airport Improvements or Changes, 11-7-70. Canceled by AC 150/5300-7A, FAA Policy on Facility Relocations Occasioned by Airport Improvements or Changes, 9-27-71.

AC 150/5325-7 Is Your Airport Ready for the Boeing 747, 1-23-68. Canceled.

AC 150/5340-5 Segmented Circle Airport Marker System, 8-1-63. Canceled by AC 150/5340-5A, Segmented Circle Airport Marker System, 9-10-71.

AC 150/5345-26 Specification for L-823 Plug and Receptacle, Cable Connectors, 10-5-64. Canceled by AC 150/5345-26A,

Specification for L-823 Plug and Receptacle, Cable Connectors, 8-4-71.

AC 150/5345-29 FAA Specification L-852, Light Assembly, Airport Taxiway Centerline, 3-18-68. Canceled by AC 150/5345-29A, FAA Specification L-852, Light Assembly, Airport Taxiway Centerline, 4-28-71.

AC 150/5345-39 FAA Specification L-853, Runway and Taxiway Centerline Reflective Markers, 1-10-69. Canceled by AC 150/5345-39A, FAA Specification L-853, Runway and Taxiway Retroreflective Markers, 9-17-71.

AC 150/5345-44 Specification for L-858 Retroreflective Taxiway Guidance Signs, 12-15-70. Canceled by AC 150/5345-44A, Specification for L-858 Retroreflective Taxiway Guidance Signs, 7-30-71.

AC 170-2 Implementation of ILS Channels 11 Through 20, 10-16-63. Canceled.

8. Additions. The following advisory circulars are added to the list:

AC 00-2T Advisory Circular Checklist (10-15-71).

AC 00-33 Nickel-Cadmium Battery Operational, Maintenance, and Overhaul Practices (8-26-71).

AC 20-7H General Aviation Inspection Aids, Summary (August 1971).

AC 20-7H Supplement 1, General Aviation Inspection Aids (September 1971).

AC 20-7H Supplement 2, General Aviation Inspection Aids (October 1971).

AC 20-7H Supplement 3, General Aviation Inspection Aids (November 1971).

AC 20-35B Tie-down Sense (4-10-71).

AC 20-43B Aircraft Fuel Control (6-8-71).

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

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

AC 21-1A Production Certificates (7-9-71).

AC 61-4C Multiengine Airplane Class or Type Rating Flight Test Guide (3-1-71).

AC 61-18C Airline Transport Pilot (Airplane) Written Test Guide (4-10-71).

AC 61-29A Instrument Flight Instructor Written Test Guide (10-16-70).

AC 70/7460-2C Proposed Construction or Alteration of Objects That May Affect the Navigable Airspace (9-16-71).

AC 90-54 Cruise Clearances (5-25-71).

AC 90-55 Identification of Air Taxi Operations for Air Traffic Counting (8-31-71).

AC 90-56 FAA Symposium on Area Navigation (9-28-71).

AC 91-32 Safety in and Around Helicopters (5-7-71).

AC 120-26B Civil Aircraft Operator Designators (5-11-71).

AC 121-1 Ch-23 Standard Maintenance Specifications Handbook (1-18-71).

AC 121-1 Ch-23 Standard Maintenance Specifications Handbook (4-30-71).

AC 121-3M Maintenance Review Board Reports (9-29-71).

AC 140-2F List of Certificated Pilot Flight and Ground Schools (7-9-71).

AC 140-5 Radio Maintenance Technician School Curriculum (8-11-71).

AC 147-2H Directory of FAA Certificated Aviation Maintenance Technician Schools (10-19-71).

AC 149-2F Listing of Federal Aviation Administration Certificated Parachute Lofts (10-8-71).

AC 150/5090-2 National Airport Classification System (Airport System Planning) (6-25-71).

AC 150/5300-7A FAA Policy on Facility Relocations Occasioned by Airport Improvements or Changes (9-27-71).

AC 150/5335-3 Airport Design Standards—Airports Served by Air Carriers—Bridges and Tunnels on Airports (4-19-71).

AC 150/5340-5A Segmented Circle Airport Marker System (9-10-71).

AC 150/5340-22 Ch-1 Maintenance Guide for Determining Degradation and Cleaning of Centerline and Touchdown Zone Lights (6-23-71).

AC 150/5340-23 Guide for Location of Supplemental Wind Cones (8-24-71).

AC 150/5345-26A Specification for L-823 Plug and Receptacle, Cable Connectors (5-4-71).

AC 150/5345-29A FAA Specification L-852, Light Assembly, Airport Taxiway Centerline (4-28-71).

AC 150/5345-39A FAA Specification L-853, Runway and Taxiway Retroreflective Markers (9-17-71).

AC 150/5345-34A Specification for L-858 Retroreflective Taxiway Guidance Signs (7-30-71).

AC 211-5 Recommended Symbols and Terminologies for use with Terminal Area Graphic Notices (6-28-71).

ADVISORY CIRCULAR CHECKLIST NOTICE

Superintendent of Documents catalogue numbers have been included to aid Superintendent of Documents personnel in processing orders. Please use them when ordering—along with the title and FAA number. To avoid unnecessary delays, do not order single-sales material and subscription-sales material on the same order form, as orders are separated for processing by different departments when they arrive at Superintendent of Documents.

General

SUBJECT NO. 00

00-1 The Advisory Circular System (12-4-62).

Describes the FAA Advisory Circular System.

00-2T Advisory Circular Checklist (10-29-71).

Transmits the revised checklist of current FAA advisory circulars and the status of the Federal Aviation Regulations as of 10-29-71.

00-6 Aviation Weather (5-20-65).

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. Reprinted 1969. (\$4 GPO.) FAA 5.8/2: W 37.

00-7 State and Regional Defense Airlift Planning (4-30-64).

Provides guidance for the development of plans by the FAA and other Federal and State agencies for the use of non-air-carrier aircraft during an emergency.

00-7 CH 1 State and Regional Defense Airlift Planning (1-5-65).

Provides an example of a State Plan for the Emergency Management of Resources in Appendix 4, and adds new Appendix 9.

00-7 CH 2 State and Regional Defense Airlift Planning (2-20-67).

Revises Appendix 6, SCATANA.

00-14 Flights by U.S. Pilots Into and Within Canada (4-16-65).

Provides information concerning flights into and within Canada.

00-15 Potential Hazard Associated With Passengers Carrying "Anti-Mugger" Spray Devices (8-20-65).

Advises aircraft operators, crewmembers, and others who are responsible for flight safety, of a possible hazard to flight should a passenger inadvertently or otherwise discharge a device commonly known as an "anti-mugger" spray device in the cabin of an aircraft.

00-17 Turbulence in Clear Air (12-16-65).

Provides information on atmospheric turbulence and wind shear, emphasizing important points pertaining to the common causes of turbulence, the hazards associated with it, and the conditions under which it is most likely to be encountered.

00-21 Shoulder Harness (10-5-66).

Provides information concerning the installation and use of shoulder harnesses by pilots in general aviation aircraft.

00-23⁶ Near Midair Collision Reporting (12-4-69).

Advises that the FAA will continue through December 31, 1971, to handle reports of near midair collisions in accordance with the policy established January 1, 1968.

00-24 Thunderstorms (6-12-68).

Contains information concerning flights in or near thunderstorms.

00-25 Forming and Operating a Flying Club (3-24-69).

Provides preliminary information that will assist anyone or any group of people interested in forming and operating a flying club. (\$0.35 GPO.) TD 4.8:F 67.

00-26 Definition of "U.S. National Aviation Standards" (1-22-69).

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.

00-27 U.S. National Standard for the IFF Mark X (SIF) Air Traffic Control Radar Beacon System Characteristics (ATCRBS) (1-24-69).

Informs the aviation community of the approval by the FAA Administrator of the U.S. National Aviation Standard for the ATCRBS.

00-28 Communications Interference Caused by Sticking Microphone Buttons (8-6-69).

Alerts the industry of communications interference from undesired radiofrequency transmissions.

00-29 Airborne Automatic Altitude Reporting Systems (12-9-69).

Provides information regarding the nature and extent of erroneous altitude reporting systems.

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

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

00-31 U.S. National Aviation Standard for the VORTAC System (6-10-70).

Informs the aviation community of the establishment and content of the U.S. National Aviation Standard for the VORTAC (VOR-TACAN-DME) System.

00-32 Civil Air Patrol and State and Regional Defense Airlift Relationships (7-2-70).

Advises interested persons of the Memorandum of Understanding between CAP and FAA, and provides additional guidance to further improve the use of non-air carrier aircraft in time of national emergency.

00-33 Nickel-Cadmium Battery Operational, Maintenance, and Overhaul Practices (8-26-71).

Provides guidelines for more reliable nickel-cadmium battery operation through sound operational and maintenance practices.

Procedural

SUBJECT No. 10

11-1 Airspace Rule-Making Proposals and Changes to Air Traffic Control Procedures (10-28-64).

Emphasizes the need for the early submission of proposals involving airspace rule-making activity or changes to existing procedures for the control of air traffic.

Aircraft

SUBJECT No. 20

20-3B Status and Availability of Military Handbooks and ANC Bulletins for Aircraft (5-12-69).

Announces the status and availability of Military Handbooks and ANC Bulletins prepared jointly with FAA.

20-5B Plane Sense (1970).

Provides general aviation information for the private aircraft owner.

20-6P U.S. Civil Aircraft Register (1-1-71).

Lists all active U.S. civil aircraft by registration number. (\$11.75 GPO.) TD 4.18/2:970.

20-7H General Aviation Inspection Aids, Summary (August 1971).

Provides the aviation community with a uniform means for interchanging service experience that may improve the durability and safety of aeronautical products. Of value to mechanics, operators of repair stations, and others engaged in the inspection, maintenance, and operation of aircraft in general. (\$3, \$3.75 foreign—Sub. GPO.) TD 4.409:970.

20-7H Supplement 1 (September 1971).

20-7H Supplement 2 (October 1971).

20-7H Supplement 3 (November 1971).

20-9 Personal Aircraft Inspection Handbook (12-2-64).

Provides a general guide, in simple, nontechnical language, for the inspection of aircraft. Reprinted 1967. (\$1 GPO.) FAA 5.8/2:AI 7/2.

20-10 Approved Airplane Flight Manuals for Transport Category Airplanes (7-30-63).

Calls attention to the regulatory requirements relating to FAA Approved Airplane Flight Manuals.

20-13A Surface-Effect Vehicles (8-28-64).

States FAA policy on surface-effect vehicles (vehicles supported by a cushion of compressed air).

20-15A Qualification of Type Certified Engines and Propellers for Aircraft Installations (3-24-66).

Calls attention to the relationship between both Federal Aviation Regulations, Parts 33 (Aircraft Engine Airworthiness) and 35 (Propeller Airworthiness), and various aircraft airworthiness parts.

20-17^A Surplus Military Aircraft (1-6-64).

Informs how to obtain copies of regulations required for certification of surplus military aircraft.

20-18A Qualification Testing of Turbojet Engine Thrust Reversers (3-16-66).

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, when run under nonstandard ambient air conditions.

20-20A Flammability of Jet Fuels (4-9-65).

Gives information on the possibility of combustion of fuel in aircraft fuel tanks.

20-23D Interchange of Service Experience—Mechanical Difficulties (2-12-71).

Provides information on the voluntary exchange service experience data used in improving durability and safety of aeronautical products.

20-24A Qualification of Fuels, Lubricants, and Additives (4-1-67).

Establishes procedures for the approval of the use of subject materials in certificated aircraft.

20-25A Identification of Technical Standard Order (TSO) Safety Belts (3-14-69).

Describes the markings which indicate that a safety belt has been manufactured under the FAA TSO system and approved for use in certificated aircraft.

00-34

20-27B Certification and Operation of Amateur-Built Aircraft (8-12-68).

Provides information and guidance material for amateur aircraft builders.

20-28 Nationally Advertised Aircraft Construction Kits (8-7-64).

Explains that using certain kits could render the aircraft ineligible for the issuance of an experimental certificate as an amateur-built aircraft.

20-29B Use of Anti-Icing Additive PFA-55MB (6-19-69). 18 JAN 72

Provides information on the use of anti-icing additive for jet fuels to assure compliance with FAR's that require assurance of continuous fuel flow under icing conditions.

20-30A Airplane Position Lights and Supplementary Lights (4-18-68).

Provides an acceptable means for complying with the position light requirements for airplane airworthiness and acceptable criteria for the installation of supplementary lights on airplanes.

20-32A Carbon Monoxide (CO) Contamination in Aircraft—Detection and Prevention (9-13-68).

Informs aircraft owners, operators, maintenance personnel, and pilots of the potential dangers of carbon monoxide contamination and discusses means of detection and procedures to follow when contamination is suspected.

20-33 Technical Information Regarding Civil Aeronautics Manuals 1, 3, 4a, 4b, 5, 6, 7, 8, 9, 10, 13, and 14 (2-8-65).

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.

20-34A Prevention of Retractable Landing Gear Failures (4-21-69).

Provides information and suggested procedures to minimize landing accidents involving aircraft having retractable landing gear.

20-35B Tie-Down Sense (4-19-71).

Provides information of general use on aircraft tie-down techniques and procedures.

20-36A Index of Materials, Parts, and Appliances Certified Under the Technical Standard Order System—March 1, 1966 (4-8-66).

Lists the materials, parts, and appliances for which the Administrator has received statements of conformance under the Technical Standard Order system as of March 1, 1966. Such products are deemed to have met the requirements for FAA approval as provided in Part 37 of the Federal Aviation Regulations.

20-37A Aircraft Metal Propeller Blade Failure (4-4-69).

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).

Outlines acceptable methods, but not the only methods, for measuring the cabin interior emergency illumination on transport airplanes, and provides information as to suitable measuring instruments.

20-39 Installation Approval of Entertainment Type Television Equipment in Aircraft (7-15-65).

Presents an acceptable method (but not the only method) by which compliance may be shown with Federal Aviation Regulations 23.1431, FAR 25.1309(b), FAR 27.1309(b), or FAR 29.1309(b), as applicable.

20-40 Placards for Battery-Excited Alternators Installed in Light Aircraft (8-11-65).

Sets forth an acceptable means of complying with placarding rules in Federal Aviation Regulations 23 and 27 with respect to battery-excited alternator installations.

20-41 Replacement TSO Radio Equipment in Transport Aircraft (8-30-65).

Sets forth an acceptable means for complying with rules governing transport category aircraft installations in cases involving the substitution of technical standard order radio equipment for functionally similar radio equipment.

20-42 Hand Fire Extinguishers in Transport Category Airplanes and Rotorcraft (9-1-65).

Sets forth acceptable means (but not the sole means) of compliance with certain hand fire extinguisher regulations in FAR 25 and FAR 29, and provides related general information.

20-43B Aircraft Fuel Control (6-8-71).

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).

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

20-45 Safelying of Turnbuckles on Civil Aircraft (9-17-65).

Provides information on turnbuckle safelying methods that have been found acceptable by the FAA during past aircraft type certification programs.

20-46 Suggested Equipment for Gliders Operating Under IFR (9-23-65).

Provides guidance to glider operators on how to equip their gliders for operation under instrument flight rules (IFR), including flight through clouds.

20-47 Exterior Colored Band Around Exits on Transport Airplanes (2-8-66).

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).

The title is self-explanatory.

20-49 Analysis of Bird Strike Reports on Transport Category Airplanes (7-27-66).

Provides the results of a statistical study on the frequency of collisions of birds with transport aircraft and the resulting damages.

20-50 Ultrasonic Nondestructive Testing (11-9-66).

Provides FAA personnel and the general aviation public with some of the theory and processes of ultrasonic testing which will assist them in the more advanced uses of this system for the inspection of aircraft and aircraft components during manufacture or maintenance. (\$0.70 GPO.) TD 4.8:U18.

20-51 Procedures for Obtaining FAA Approval of Major Alterations to Type Certificated Products (4-12-67).

Provides assistance to persons who desire to obtain FAA approval of major alterations to type certificated products.

20-52 Maintenance Inspection Notes for Douglas DC-6/7 Series Aircraft (8-24-67).

Describes maintenance inspection notes which can be used for the maintenance support of certain structural parts of DC-6/7 series aircraft.

20-53 Protection of Aircraft Fuel System Against Lightning (10-6-67).

Sets forth acceptable means, not the sole means, by which compliance may be shown with fuel system lightning protection airworthiness regulations.

20-54 Hazards of Radium-Activated Luminous Compounds Used on Aircraft Instruments (10-24-67).

Provides information concerning health hazards associated with the repair and maintenance of instruments containing luminous markings activated with radium-226 or radium-228 (mesothorium).

20-55 Turbine Engine Overhaul Standard Practices Manual—Maintenance of Fluorescent Penetrant Inspection Equipment (1-22-68).

Advises operators of the necessity for periodic checking of black light lamps and filters used during fluorescent penetrant inspection of engine parts.

20-56 Marking of TSO-C72a Individual Flotation Devices (1-19-68).

Outlines acceptable methods for marking individual flotation devices which also serve as seat cushions.

20-57A Automatic Landing Systems (ALS) (1-12-71).

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.

20-58A Acceptable Means of Testing Automatic Altitude Reporting Equipment for Compliance With FAR 91.36(b) (4-28-69).

Title is self-explanatory.

20-59 Maintenance Inspection Notes for Convair 240, 340/440, 240T, and 340T Series Aircraft (2-19-68).

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.

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

Sets forth acceptable means of compliance with the "readily accessible" provisions in the Federal Aviation Regulations dealing with excess emergency exits.

20-61 Nondestructive Testing for Aircraft (May 1969).

Reviews the basic principles underlying nondestructive testing. (\$0.45 GPO).

20-62A Eligibility, Quality, and Identification of Approved Aeronautical Replacement Parts (6-16-70).

Provides information relative to the determination of the eligibility of aeronautical parts and materials for installation on certificated aircraft.

20-63 Airborne Automatic Direction Finder Installations (Low and Medium Frequency) (7-7-69).

Sets forth one means, but not the only means, of demonstrating compliance with the airworthiness rules governing the functioning of airborne automatic direction finders. It does not pertain to installations previously approved.

20-64 Maintenance Inspection Notes for Lockheed L-188 Series Aircraft (8-1-69).

Describes maintenance inspection notes which can be used for the maintenance support of certain structural parts of Lockheed L-188 series aircraft.

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

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).

Outlines acceptable means, but not the sole means, for showing compliance with the requirements of the FARs concerning propeller vibration.

20-67 Airborne VHF Communication System Installations (3-6-70).

Sets forth one means, but not the only means, of demonstrating compliance with the airworthiness rules governing the functioning of airborne VHF communication systems.

20-68 Recommended Radiation Safety Precautions for Airborne Weather Radar (3-11-70).

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

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

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

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

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 rotocraft and transport category airplanes.

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

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

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

Contains useful information concerning measurements for intensity, covering and color of aircraft position and anticollision lights.

21-1A Production Certificates (7-9-71).

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

21-2B Export Airworthiness Approval Procedures (10-2-69).

Announces the adoption of new regulations and provides guidance to the public regarding the issuance of export airworthiness approvals for aeronautical products to be exported from the United States.

21-2B Ch. 1 (11-13-70).**21-2B Ch. 2 (2-8-71).****21-3 Basic Glider Criteria 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. Reprinted 1969. (\$1 GPO.) FAA 5.8/2:G49/962.

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

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

21-5B Summary of Supplemental Type Certificates (Announcement of Availability) (2-10-71).

Announces the availability to the public of a new edition of the Summary of Supplemental Type Certificates (SSTC), dated January 1971.

21-6 Production Under Type Certificate Only (5-26-67).

Provides information concerning Subpart F of FAR Part 21, and sets forth examples, when necessary, of acceptable means of compliance with its requirements.

21-7A Certification and Approval of Import Products (11-24-69).

Provides guidance and information relative to U.S. certification and approval of import aircraft, aircraft engines and propellers that are manufactured in a foreign country with which the United States has an agreement for the acceptance of those products for export and import.

21-8 Aircraft Airworthiness; Restricted Category; Certification of Aircraft With Uncertificated or Altered Engines or Propellers (5-21-69).

Sets forth acceptable means of substantiating that uncertificated or altered engines and propellers have no unsafe features for type certification of aircraft in the restricted category.

21-9 Manufacturers Reporting Failures, Malfunctions, or Defects (12-30-70).

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.

21-10 Flight Recorder Underwater Locating Device (5-20-71).

Provides one acceptable means (not the only means) of showing compliance with the underwater locating device requirements of FAR 25.1459 and FAR 121.343.

21.25-1 Use of Restricted Category Airplanes for Glider Towing (4-20-65).

Announces that glider towing is now considered to be a special purpose for type and airworthiness certification in the restricted category.

21.303-1 Replacement and Modification Parts (3-2-66).

Provides information concerning section 21.303 of Federal Aviation Regulations, Part 21, and sets forth examples of acceptable means of compliance with its requirements.

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23-1 Type Certification Spin Test Procedures (4-1-64).

Sets forth an acceptable means by which compliance may be shown with the one-turn spinning requirement in Part 3 of the CAR's.

23.1329-1 Automatic Pilot Systems Approval (Non-Transport) (12-23-65).

Sets forth an acceptable means by which compliance with the automatic pilot installation requirements of FAR 23.1329 may be shown.

25-2 Extrapolation of Takeoff and Landing Distance Data Over a Range of Altitude for Turbine-Powered Transport Aircraft (7-9-64).

Sets forth acceptable means by which compliance may be shown with the requirements in CAR 4b and SR-422B.

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

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).

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 unit load devices approved as meeting the criteria in NAS 3610.

25.253-1 High-Speed Characteristics (11-24-65).

Sets forth an acceptable means by which compliance may be shown with FAR 25.253 during certification flight tests.

25.253-1 CH 1 (1-10-66).

Provides amended information for the basic advisory circular.

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

Sets forth some general guidelines for substantiating compliance with fuel tank temperature airworthiness standards, section 25.981.

25.1329-1A Automatic Pilot System Approval (7-8-68).

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

25.1457-1A Cockpit Voice Recorder Installations (11-3-69).

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.

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

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

29-1 CH 1 (3-26-64).

Transmits revised information about the time delay of automatic stabilization equipment.

29.773-1 Pilot Compartment View (1-19-66).

Sets forth acceptable means, not the sole means, by which compliance with FAR 29.773(a)(1), may be shown.

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

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.

33-2 Aircraft Engine Type Certification Handbook (3-30-66).

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.

33-2 CH 1 (9-13-67).

Transmits revised material to the basic advisory circular.

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

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.

37-2 Test Procedures for Maximum Allowable Airspeed Indicators (12-9-68).

Provides guidance concerning test procedures which may be used in showing compliance with the standards in FAR 37.145 (TSO-C46a).

37-3 Radio Technical Commission for Aeronautics Document DO-138 (1-10-69).

This circular announces RTCA Document DO-138 and discusses how it may be used in connection with technical standard order authorizations.

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).

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.

39-6B Summary of Airworthiness Directives (5-20-70).

Announces the availability of a new Summary of Airworthiness Directives dated January 1, 1970.

43-1 Matching VHF Navigation Receiver Outputs With Display Indicators (8-2-65).

Alerts industry to the possibility of mismatching outputs, both guidance and flag alarm, of certain VHF navigation receivers when used with some types of display indicators causing the receiver to fail without providing a flag alarm.

43-2 Minimum Barometry for Calibration and Test of Atmospheric Pressure Instruments (9-10-65).

Sets forth 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.

43.9-1B Instruction for Completion of FAA Form 337 (6-27-66).

Provides instructions for completing revised FAA Form 337, Major Repair and Alteration (Airframe, Powerplant, Propeller or Appliance).

43.13-1 Acceptable Methods, Techniques and Practices—Aircraft Inspection and Repair (5-16-66).

Contains methods, techniques, and practices acceptable to the Administrator for inspection and repair to civil aircraft. Published in 1965. (\$3—Sub. GPO.) FAA 5.15:965.

Subscription now includes: Ch. 1 (5-1-67); Ch. 2 (8-9-67); Ch. 3 (1-24-68); Ch. 4 (1-29-68); Ch. 5 (9-20-68); Ch. 6 (5-1-69); Ch. 7 (6-12-69); Ch. 8 (6-11-70 and 10-22-70).

43.13-2 Acceptable Methods, Techniques, and Practices—Aircraft Alterations (4-19-66).

Contains methods, techniques, and practices acceptable to the Administrator in altering civil aircraft. Published in 1965. (\$2—Sub. GPO.) FAA 5.16:965.

Subscription now includes: Ch. 1 (1-12-67); Ch. 2 (5-26-67); Ch. 3 (8-26-67); Ch. 4 (9-12-67); Ch. 5 (11-9-67); Ch. 6 (4-12-68); Ch. 7 (5-12-69); Ch. 8 (10-29-69); Ch. 9 (10-19-70); Ch. 10 (1-20-71). *Ch. 11*

43-202 Maintenance of Weather Radar Radomes (6-11-65).

Provides guidance material useful to repair facilities in the maintenance of weather radar radomes.

43-203A Altimeter and Static System Tests and Inspections (6-6-67).

Specifies acceptable methods for testing altimeter and static system. Also, provides general information on test equipment used and precautions to be taken.

47-1 Aircraft Registration Eligibility, Identification and Activity Report (2-25-70).

Advises owners and operators of U.S. civil aircraft of recent regulatory changes that require the annual submission of current information related to aircraft registration eligibility, and requests similar submission of information related to identification and activity of

aircraft; and to call attention to the availability of the reporting form to be used in complying with this regulatory change.

Airmen

SUBJECT NO. 60

60-1 Know Your Aircraft (6-12-63).

Describes potential hazards associated with operation of unfamiliar aircraft and recommends good operating practices.

60-2 Annual Aviation Mechanic Safety Awards Program (3-7-71).

Provides the details of the annual Aviation Mechanic Safety Awards Program.

60-4 Pilot's Spatial Disorientation (2-9-65).

Acquaints pilots flying under visual flight rules with the hazards of disorientation caused by the loss of reference with the natural horizon.

60-5 Advisory Information on Written Test Questions Missed (4-24-67).

Announces a new automated method of reporting written test results to airman applicants. The applicant will be provided information concerning the subject matter areas in which one or more questions were answered incorrectly on the test.

60-6 FAA Approved Airplane Flight Manuals, Placards, Listings, Instrument Markings—Small Airplanes (12-13-68).

Alerts pilots to the regulatory requirements relating to the subject and provides information to aid pilots to comply with the provisions of FAR section 91.31.

61-1 Aircraft Type Ratings (5-8-70).

Announces new designators adopted by the Federal Aviation Administration for aircraft type ratings issued with pilot certificates.

61-2A Private Pilot (Airplane) Flight Training Guide (9-1-64).

Contains a complete private pilot flight training syllabus which consists of 30 lessons. Published in 1964. (\$1 GPO.) FAA 5.8/2:P 64/4/964.

61-3B Flight Test Guide—Private Pilot—Airplane—Single Engine (4-2-68).

Assists the private pilot applicant in preparing for his certification flight test. Reprinted in 1969. (\$0.25 GPO.) TD 4.408:P 64/2.

61-4C Multiengine Airplane Class or Type Rating—Flight Test Guide (2-1-71).

Assists the private pilot applicant in preparing for certification or rating flight tests. (\$0.25 GPO.) TD 4.408:M 91.

61-5A Helicopter Pilot Written Test Guide—Private—Commercial (8-14-67).

Gives guidance to applicants preparing for the aeronautical knowledge requirements for a private or commercial pilot certificate with a helicopter rating.

61-8B Instrument Rating (Airplane) Written Test Guide (4-24-69).

Outlines the scope of the written test and directs applicants to appropriate study materials. Details subject areas covered in the test and indicates areas of aviation knowledge in which instrument pilots must be well informed. (\$0.70 GPO.) TD 4.8:In 7/4.

61-9 Pilot Transition Courses for Complex Single-Engine and Light Twin-Engine Airplanes (6-16-64).

Provides training syllabuses and check-out standards for pilots who seek to qualify on additional types of airplanes. Published in 1964. (\$0.15 GPO.) FAA 5.8/2:P 64/7.

61-10 Private and Commercial Pilots Refresher Courses (9-1-64).

Provides a syllabus of ground instruction periods and training lessons. Reprinted in 1969. (\$0.25 GPO.) FAA 5.8/2:P 64/9.

61-11A Airplane Flight Instructor Written Test Guide (9-5-67).

Provides information to prospective airplane flight instructors about certification requirements, application procedures, and reference study materials; a sample examination is presented with explanations of the correct answers. Reprinted in 1969. (\$0.70 GPO.) TD 4.408:In 7.

61-12D Student Pilot Guide (7-16-70).

Serves as a guide for prospective student pilots and presents general procedures for obtaining student and private pilot certificates. (\$0.20 GPO.) TD 4.8:P 64/3/970.

61-13 Basic Helicopter Handbook (1-20-66).

Provides detailed information to applicants preparing for private, commercial, and flight instructor pilot certificates with a helicopter rating about helicopter aerodynamics, performance, and flight maneuvers. It will also be useful to certificated helicopter flight instructors as an aid in training students. Published in 1965. (\$0.75 GPO.) FAA 5.8/2:H 36.

61-14A Flight Instructor Practical Test Guide (10-23-69).

Provides assistance to the certificated pilot in preparing for the practical demonstration required for the issuance of the flight instructor certificate. (\$0.15 GPO.) TD 4.408:In 7/4.

61-16A Flight Instructor's Handbook (10-14-69).

Gives guidance and information to pilots preparing to apply for flight instructor certificates, and for use as a reference by flight instructors. (\$1.25 GPO.) TD 4.408:In 7/3.

61-17B Flight Test Guide—Instrument Pilot Airplane (6-6-67).

Provides assistance for the instrument pilot applicant in preparing for his instrument rating flight test. Published in 1967. (\$0.25 GPO.) TD 4.408:In 7/2.

61-18C Airline Transport Pilot (Airplane) Written Test Guide (4-19-71).

Reflects current operating procedures and techniques in a background setting appropriate for applicants preparing for the Airline Transport Pilot (Airplane) Written Test. (\$0.55 GPO.) TD 4.408:P 64/3.

61-19 Safety Hazard Associated With Simulated Instrument Flights (12-4-64).

Emphasizes the need for care in the use of any device restricting visibility while conducting simulated instrument flights that may also restrict the view of the safety pilot.

61-21 Flight Training Handbook (1-11-66).

Provides information and direction in the introduction and performance of training maneuvers for student pilots, pilots regularizing or preparing for additional ratings, and flight instructors. Reprinted in 1969. (\$1.25 GPO.) FAA 1.8:F 64/4.

61-23 Private Pilot's Handbook of Aeronautical Knowledge (5-27-66).

Contains essential, authoritative information used in training and guiding applicants for private pilot certification, flight instructors, and flying school staffs. Reprinted in 1969. (\$2.75 GPO.) FAA 5.8/2:P 64/5/965.

61-25 Flight Test Guide—Helicopter, Private and Commercial Pilot (12-7-65).

Assists the helicopter pilot applicant in preparing for the certification flight tests; provides information concerning applicable procedures and standards. Published in 1965. (\$0.10 GPO.) FAA 1.8:H 36/2.

61-27B Instrument Flying Handbook (4-30-68).

Provides the pilot with basic information needed to acquire an FAA instrument rating. It is designed for the reader who holds at least a private pilot certificate and is knowledgeable in all areas covered in the "Private Pilot's Handbook of Aeronautical Knowledge." Published in 1969. (\$2.50 GPO.) TD 4.408:In 7/3.

61-28A Commercial Pilot Written Test Guide (4-28-70).

Reflects current operating procedures and techniques for the use of applicants in preparing for the Commercial Pilot—Airplane Written Test. (\$1.50 GPO.) TD 4.408:P 64/4.

61-29A Instrument Flight Instructor Written Test Guide (10-16-70).

Reflects current operating procedures, regulations, and techniques for the use of applicants in preparing for the Flight Instructor Instrument Written Test (\$0.50 GPO.) TD 4.8:In 7/6.

61-30 Flight Test Guide—Gyroplane, Commercial Pilot (2-8-66).

Assists commercial pilot operator in preparing for certification test. Revised

in 1966. (\$0.15 GPO.) FAA 5.8/2:G 99/2/966.

61-31 Gyroplane Pilot Examination Guide, Private and Commercial (2-9-66).

Outlines information basic to a gyroplane pilot, lists sources useful in acquiring this knowledge, and presents sample examination questions.

61-32 Private Pilot Written Examination Guide (8-15-67).

A combination workbook, written test guide. Includes 71 exercises covering every section of the Private Pilot's Handbook of Aeronautical Knowledge plus a sample written test presented in a fashion similar to the current Private Pilot Written Examination. Reprinted in 1969. (\$1.75 GPO.) TD 4.408:P64.

61-33 Gyroplane Flight Instructor Examination Guide (3-25-66).

Assists applicants who are preparing for the Flight Instructor Rotorcraft Gyroplane Written Examination. Revised in 1966.

61-34A Federal Aviation Regulations Written Test Guide for Private, Commercial and Military Pilots (6-18-70).

Outlines the scope of the basic knowledge required of civilian or military pilots who are studying FARs as they pertain to the Regulations terminology; to the certification of private and commercial pilots; to the operation of aircraft in the national airspace; and to the requirements of the National Transportation Safety Board. For use as a guide in preparing for the FAR Written Test. (\$0.40 GPO.) TD 4.8:P 64.

61-38 Rotorcraft Helicopter Written Test Guide (8-16-67).

Gives guidance to applicants preparing for the aeronautical knowledge requirement for a flight instructor certificate with a helicopter rating.

61-39 Flight Test Guide, Private and Commercial Pilot—Glider (8-28-67).

Assists applicants for private and commercial pilot flight tests in gliders.

61-41A Glider Flight Instructor Written Test Guide (11-7-67).

Outlines the scope of the basic aeronautical knowledge requirements for a glider flight instructor; acquaints the applicant with source material that may be used to acquire this basic knowledge; and presents a sample test with correct answers and explanations.

61-42 Airline Transport Pilot (Helicopter) Written Test Guide (11-7-67).

Provides guidance to applicants preparing for the Airline Transport Pilot Rotorcraft/Helicopter (VFR and/or IFR) Written Tests. Describes the type and scope of required aeronautical knowledge covered by the written test. (\$0.35 GPO.) TD 4.408:H 36.

61-43A Glider Pilot Written Test Guide—Private and Commercial (11-30-67).

Outlines the scope of the basic aeronautical knowledge requirements for a glider pilot; acquaints the applicant with source material that may be used to acquire this basic knowledge; and presents a sample test with correct answers and explanations.

61-45 Instrument Rating (Helicopter) Written Test Guide (1-24-68).

Assists applicants who are preparing for the helicopter instrument rating. Presents a study outline, study materials and a sample test with answers.

61-46 Flight Instructor Procedures (6-4-69).

Inform flight instructors of the procedures involved in the renewal or reinstatement of Flight Instructor Certificates, qualification for "Gold Seal" certificates, and endorsing student pilot logbooks for various operations.

61-47 Use of Approach Slope Indicators for Pilot Training (9-16-70).

Inform 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.

61.117-1C Flight Test Guide—Commercial Pilot, Airplane (2-7-69).

Assists the commercial applicant in preparing for his certification flight test. (\$0.20 GPO.) TD 4.8:P 64/3.

63-1B Flight Engineer Written Test Guide (10-22-70).

Provides information to prospective flight engineers and others interested in this certification area. Contains information about certification requirements and describes the type and scope of the written test. Lists appropriate study and reference material and presents sample questions similar to those found in the official written tests. (\$0.50 GPO.) TD 4.408:En 3.

63-2A Flight Navigator Written Test Guide (4-4-69).

Defines the scope and narrows the field of study to the basic knowledge required for the Flight Navigator Certificate. Published in 1969. (\$0.40 GPO.) TD 4.8:F 64/2.

65-2B Airframe and Powerplant Mechanics Certification Guide (10-12-67).

Provides information to prospective airframe and powerplant mechanics and other persons interested in FAA certification of aviation mechanics. Reprinted in 1969. (\$0.65 GPO.) TD 4.8:AI 7/6.

65-4A Aircraft Dispatcher Written Test Guide (8-16-68).

Describes the type and scope of aeronautical knowledge covered by the aircraft dispatcher written examination, lists reference materials, and presents sample questions. Published in 1969. (\$0.50 GPO.) TD 4.8:AI 7/12.

65-5 Parachute Rigger Certification Guide (6-19-67).

Provides information on how to apply for a parachute rigger certificate or rating and assists the applicant in preparing for the written, oral, and practical tests. Reprint in 1970. (\$0.25 GPO.) TD 4.8:P 21.

65-9 Airframe and Powerplant Mechanics—General Handbook (8-26-70).

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. (\$4 GPO.) TD 4.408:AI 7/2.

65-11A Airframe and Powerplant Mechanics Certification Information (5-22-70).

Provides answers to questions most frequently asked about Federal Aviation Administration certification of aviation mechanics. (\$0.20 GPO.) TD 4.8:A:7/21.

65-13 FAA Inspection Authorization Directory (12-14-70).

Provides a new directory of all FAA certificated mechanics who hold an inspection authorization as of the effective date shown above.

65-14 The Seventh Annual FAA International Aviation Maintenance Symposium (4-19-71).

Informs the aviation community that the Maintenance Division will hold the seventh annual maintenance symposium.

65.95-2B Handbook and Study Guide for Aviation Mechanics Inspection Authorization (10-9-70).

This handbook gives guidance to persons conducting annual and progressive inspections and approving major repairs or alterations of aircraft. While the handbook is primarily intended for mechanics holding or preparing for an Inspection Authorization, it may be useful to aircraft manufacturers and certificated repair stations who have these privileges.

Airspace

SUBJECT NO. 70

70/7460-1A Obstruction Marking and Lighting (2-29-68). (Consolidated reprint includes change 1, 1969.)

Describes the agency standards on obstruction marking and lighting and establishes the methods, procedures, and equipment types as official FAA policy. (\$0.60 GPO.) TD 4.8:Ob 7/968.

70/7460-1 CH 2 (7-2-70).

Specifies an increase in the maximum width of the aviation surface orange and white painted bands for display on towers, smokestacks and similar structures.

70/7460-1 CH-3 (3-1-71).

Contains the standard for marking and lighting catenaries and their support structures.

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70/7460-2C Proposed Construction or Alteration of Objects that may Affect the Navigable Airspace (9-16-71).

Advises those persons proposing to erect or alter an object that may affect the navigable airspace of the requirement to submit a notice to the Administrator of the Federal Aviation Administration (FAA).

70/7460-3 Petitioning the Administrator for Discretionary Review; Section 77.37, FAR (8-8-68).

Revises and updates information concerning the submission of petitions to the Administrator for review, extension, or revision of determinations issued by regional directors or their designees.

73-1 Establishment of Alert Areas (3-11-68).

Announces the establishment of alert areas and sets forth the procedures which FAA will follow in establishing such areas.

Air Traffic Control and General Operations**SUBJECT No. 90****90-1A Civil Use of U.S. Government Produced Instrument Approach Charts (4-10-68).**

Clarifies landing minimums requirements and revises instrument approach charts.

90-5 Coordination of Air Traffic Control Procedures and Criteria (6-13-63).

States Air Traffic Service policy respecting coordination of air traffic procedures and criteria with outside agencies and/or organizations.

90-12 Severe Weather Avoidance (4-15-64).

Provides information regarding air traffic control assistance in avoiding severe weather conditions.

90-14A Altitude—Temperature Effect on Aircraft Performance (1-26-68).

Introduces the Denalt Performance Computer and reemphasizes the hazardous effects density altitude can have on aircraft.

90-19 Use of Radar for the Provision of Air Traffic Control Services (10-29-64).

Advises the aviation community of FAA practice in the use of radar information to provide air traffic control services.

90-20 Weather Radar Radomes (11-12-64).

Highlights some important points to consider in the selection and maintenance of weather radar radomes.

90-22C Automatic Terminal Information Service (ATIS) (2-2-71).

Provides updated information concerning the operation of Automatic Terminal Information Service.

90-23C Wake Turbulence (5-17-71).

Alerts pilots to the hazards of trailing vortex wake turbulence and related operational problems.

90-31 Retention of Flight Service Station (FSS) Civil Flight Plans and Related Records (7-1-67).

Establishes new retention periods for flight plans, preflight briefing logs, visual flight rule flight progress strips, and related records with FSSs.

90-32 Radar Capabilities and Limitations (8-15-67).

Advises the aviation community of the inherent capabilities and limitations of radar systems and the effect of these factors on the service provided by air traffic control (ATC) facilities.

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

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

90-35 Frequency Discipline (5-17-68).

Reemphasizes the need for pilots to be constantly aware of the importance of practicing frequency discipline in normal conduct of operations.

90-36 The Use of Chaff as an In-Flight Emergency Signal (5-22-68).

Advises of the value and proper usage of chaff to alert radar controllers to the presence of an aircraft in distress which has a two-way radio failure.

90-38A Use of Preferred IFR Routes (12-29-69).

Outlines the background, intent, and requested actions pertaining to the use of preferred IFR routes.

90-39 Identification of Civil Aircraft in Radio Communications (8-5-68).

Outlines an important change in the Federal Communications Commission (FCC) rules for the aviation services concerning the methods of identifying aircraft in radio transmissions.

90-41 Standard Instrument Departure/Arrival Procedures (2-18-71).

Describes the revised and combined Standard Instrument Departure (SID) and Standard Terminal Arrival Route (STAR) program.

90-42 Traffic Advisory Practices at Nontower Airports (12-9-68).

This circular establishes, as good operating practices, procedures for pilots to exchange traffic information when operating to or from nontower airports.

90-43 Operations Reservations for High-Density Traffic Airports (1-20-71).

Advises the aviation community of the means for all aircraft operators, except helicopters, scheduled and supplemental air carriers and scheduled air taxis, to obtain a reservation to operate to and/or from designated high-density traffic airports.

90-44 Airport Ground Operations During Low Visibility Conditions (4-25-69).

Alerts the aviation community to potential problem areas which may exist

on airport movement areas during periods of extremely low visibility.

90-45 Approval of Area Navigation Systems for Use in the U.S. National Airspace System (8-18-69).

Provides guidelines for implementation of area navigation (RNAV) within the National Airspace System (NAS).

90-45 CH-1 (10-20-70).

Deletes certain items found to be in excess of minimum requirements and clarifies certain other items.

90-47 Abbreviated Instrument Flight Rules Departure Clearance (3-18-70).

Provides guidance to pilots and operators for participation in the Abbreviated IFR Departure Clearance Program.

90-48 Pilots' Role in Collision Avoidance (3-20-70).

Alerts all pilots to the midair collision and near midair collision hazard and to emphasize those basic problem areas of concern, as related to the human causal factors, where improvements in pilot education, operating practices, procedures, and techniques are needed to reduce mid-air conflicts.

90-49 The Airman's Information Manual (7-31-70).

Serves as a reminder of the importance of pilot familiarity with Rules, Practices, and Procedures for safe flight operations.

90-50 Air Traffic Control Radio Frequency Assignment Plan for VFR and IFR Communications (9-29-70).

Describes the civil air traffic control assignment of frequencies in the very high frequency (118-136 MHz) band.

90-51 FAA Motion Picture—"Caution—Wake Turbulence" (11-17-70).

Announces the availability of a new wake turbulence film and encourages its viewing.

90-54 Cruise Clearances (5-25-71).

Provides the aviation community guidance when operating under a "cruise" clearance.

90-55 Identification of Air Taxi Operations for Air Traffic Counting (8-31-71).

Informs air taxi and commercial operators (ATCO), certificated under the provisions of Federal Aviation Regulations, Part 135, that they now fall under a separate category for air traffic counting purposes and outlines air traffic identification procedures to be used.

90-56 FAA Symposium on Area Navigation (9-28-71).

Announcement and invitation to the public of the FAA symposium on area navigation in Washington, D.C. on January 24 and 25, 1972.

91-3 Acrobatic Flight (9-30-63).

Sets safe operating practices for the conduct of acrobatic flight operations.

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90-57 90-60
90-58

91-5B Waivers of Subpart B, Part 91 of the Federal Aviation Regulations (FARs) (5-6-69).

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

91-6 Water, Slush, and Snow on the Runway (1-21-65).

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

91-7 Hazards Associated With In-Flight Use of "Visible-Fluid" Type Cigarette Lighters (3-16-65).

Discusses the potential hazards associated with in-flight use of "visible-fluid" type cigarette lighters.

91-8A Use of Oxygen by General Aviation Pilots/Passengers (8-11-70).

Provides general aviation personnel with information concerning the use of oxygen.

91-9 Potential Hazards Associated With Turbojet Ground Operations (6-19-65).

Alerts turbojet operators and flight crews to potential hazards involving turbojet operations at airports.

91-10A Suggestions for Use of ILS Minima by General Aviation Operators of Turbojet Airplanes (10-8-65).

Provides general aviation operators of turbojet airplanes with information on practices and procedures to be considered before utilizing the lowest published IFR minima prescribed by FAR Part 97 and provides information on pilot-in-command experience, initial and recurrent pilot proficiency, and airborne airplane equipment.

91-11A Annual Inspection Reminder (12-3-69).

Provides the aviation community with a uniform visual reminder of the date an annual inspection becomes due. (Reference section 91.169(a) (1) of the FARs.)

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

Lists all commonly used drugs by pharmacological effect on airmen with side effects and recommendations. Reprinted 1970. (\$0.50 GPO.) FAA 7.9:D 84.

91-12B Required Inspection for Aircraft Operating Under FAR 121, 123, 127, or 135 and Reverting to General Operation Under FAR 91 (12-9-70).

Describes acceptable methods for complying with the required inspections set forth in FAR Part 91.

91-13A Cold Weather Operation of Aircraft (1-2-70).

Provides background and guidelines relating to operation of aircraft in the colder climates where wide temperature changes may occur.

91-14B Altimeter Setting Sources (4-19-71).

Provides the aviation public, industry, and FAA field personnel with guidelines for setting up reliable altimeter setting sources.

91-15 Terrain Flying (2-2-67).

A pocket-size booklet designed as a tool for the average private pilot. Contains a composite picture of the observations, opinions, warnings, and advice from veteran pilots who have flown this vast land of ours that can help to make flying more pleasant and safer. Tips on flying into Mexico, Canada, and Alaska. (\$0.55 GPO.) TD 4.2:T 27.

91-16 Category II Operations—General Aviation Airplanes (8-7-67).

Sets forth acceptable means by which Category II operations may be approved in accordance with FAR Parts 23, 25, 61, 91, 97, and 135.

91-17 The Use of View Limiting Devices on Aircraft (2-20-68).

Alerts pilots to the continuing need to make judicious and cautious use of all view limiting devices on aircraft.

91-20 Inspection Schedule—for Beech Model B-99 (3-14-69).

Provides information for use by persons planning to develop an inspection schedule for Beech Model B-99.

91-21 Inspection Schedule—for Handley-Page Model HP-137 (4-24-69).

Provides information for use by persons planning to develop an inspection schedule for the Handley-Page Model HP-137 aircraft.

91-22A Altitude Alerting Devices/Systems (7-7-69).

Provides guidelines for installing and evaluating altitude alerting systems.

91-23 Pilot's Weight and Balance Handbook (5-6-69)

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. (\$0.70 GPO.) TD 4.408: P 64/3.

91-24 Aircraft Hydroplaning or Aquaplaning on Wet Runways (9-4-69).

Provides information to the problem of aircraft tires hydroplaning on wet runways.

91-25 Loss of Visual Cues During Low Visibility Landings (9-22-69).

Provides information regarding the importance to the pilot of maintaining unbroken visual cues during the final stages of an instrument approach when reaching the DH or MDA and continuing further descent.

91-26 Maintenance and Handling of Air-Driven Gyroscopic Instruments (10-29-69).

Advises operators of general aviation aircraft of the need for proper maintenance of air-driven gyroscopic instruments and associated air filters.

91-27A Systemworthiness Analysis Program—General Aviation (12-16-70).

Explains the purpose and applicability of the Systemworthiness Analysis Program (SWAP) to certificated air taxis, repair stations, pilot and aviation maintenance technician schools that are operated under the privileges of certificates issued by the Federal Aviation Administration.

91-28 Unexpected Opening of Cabin Doors (12-23-69).

Outlines the importance of assuring that cabin doors are properly closed prior to takeoff.

91-29 Radar Transponder Requirements (3-30-70).

Describes certain aspects of the planned operation of the Air Traffic Control Radar Beacon System (ATCRBS) which will be of interest to aircraft operators who expect to use radar transponders in their aircraft.

91-30 Terminal Control Areas (TCA) (6-11-70).

Explains the TCA concept and answers some of the most frequently asked questions pertaining to TCA.

91-31 FAR Requirement for the Filing of Flight Plans for Flights Between Mexico and the United States (2-1-71).

Informs pilots of the requirements of section 91.12(c) of Part 91 of the Federal Aviation Regulations.

91-32 Safety in and Around Helicopters (5-7-71).

Provides suggestions to improve helicopter safety by means of acquainting nonflight crew personnel and passengers with the precautions and procedures necessary to avoid undue hazards.

91.29-1 Special Structural Inspections (1-8-68).

Discusses occurrences which may cause structural damage affecting the airworthiness of aircraft.

91.83-1 Canceling or Closing Flight Plans (3-12-64).

Outlines the need for canceling or closing flight plans promptly to avoid costly search and rescue operations.

91.83-2 IFR Flight Plan Route Information (2-16-66).

Clarifies the air traffic control needs for the filing of route information in an IFR (Instrument Flight Rules) flight plan.

95-1 Airway and Route Obstruction Clearance (6-17-65).

Advises all interested persons of the airspace areas within which obstruction

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clearance is considered in the establishment of Minimum En Route Instrument Altitudes (MEAs) for publication in FAR Part 95.

99-27-1 Flight Plan Tolerances for Air Defense Identification Zones (9-30-63).
Cancelled by 99-1 (22 JAN 72)
 Provides recommended flight plan tolerances for operations within or into the ADIZ.

101-1 Waivers of Part 101, Federal Aviation Regulations (1-13-64).
 Provides information on submission of applications and issuances of waivers to FAR Part 101.

103-2 Information Guide for Air Carrier Handling of Radioactive Materials (7-23-70).

Acquaints air carrier industry and in particular, air freight handling personnel, with the essential requirements and practical application of the various regulations pertaining to the handling and transportation of radioactive materials.

105-2 Sport Parachute Jumping (9-6-68).

Provides suggestions to improve sport parachuting safety; information to assist parachutists in complying with FAR Part 105; and a list of aircraft which may be operated with one cabin door removed, including the procedures for obtaining FAA authorization for door removal.

Air Carrier and Commercial Operators and Helicopters

SUBJECT NO. 120

120-1A Reporting Requirements of Air Carriers, Commercial Operators, and Travel Clubs (4-24-69).

Advises of the mechanical reliability reporting requirements contained in FAR Parts 121 and 127 and the accident and incident reporting requirements of NTSB Part 430, Rules Pertaining to Aircraft Accidents, Incidents, Overdue Aircraft, and Safety Investigations.

120-2A Precautionary Propeller Feathering To Prevent Runaway Propellers (8-20-63).

Emphasizes the need for prompt feathering when there is an indication of internal engine failure.

120-5 High Altitude Operations in Areas of Turbulence (8-26-63).

Recommends procedures for use by jet pilots when penetrating areas of severe turbulence.

120-7A Minimum Altitudes for Conducting Certain Emergency Flight Training Maneuvers and Procedures (7-27-70).

Issued to emphasize to all air carriers and other operators of large aircraft the necessity for establishing minimum altitudes above the terrain or water when conducting certain simulated emergency flight training maneuvers.

120-12 Private Carriage Versus Common Carriage by Commercial Operators Using Large Aircraft (6-24-64).

Provides guidelines for determining whether current or proposed transportation operations by air constitute private or common carriage.

120-13 Jet Transport Aircraft Attitude Instrument Systems (6-26-64).

Provides information about the characteristics of some attitude instrument systems presently installed in some jet transport aircraft.

120-16A Continuous Airworthiness Program (9-11-69).

Provide air carriers and commercial operators with guidance and information pertinent to certain provisions of Federal Aviation Regulations Parts 121 and 127.

120-17 Handbook for Maintenance Control by Reliability Methods (12-31-64).

Provides information and guidance material which may be used to design or develop maintenance reliability programs which include a standard for determining time limitations.

120-17 CH 1 (6-24-66).

120-17 CH 2 (5-6-68).

120-18 Preservation of Maintenance Records (5-10-65).

Provides information and guidance relative to the microfilming of maintenance records.

120-21 Aircraft Maintenance Time Limitations (6-24-66).

Provides methods and procedures for the initial establishment and revision of time limitations on inspections, checks, maintenance or overhaul.

120-24A Establishment and Revision of Aircraft Engine Overhaul and Inspection Periods (2-25-69).

Describes methods and procedures used by the FAA in the establishment and revision of aircraft engine overhaul periods.

120-26B Civil Aircraft Operator Designators (5-11-71).

Revises the criteria and states the procedures for the assignment of a designator and a corresponding air/ground call sign to civil aircraft operators engaged in domestic services on a repetitive basis.

120-27 Aircraft Weight and Balance Control (10-15-68).

Provides a method and procedures for weight and balance control.

120-28A Concepts of Airborne Systems for Category IIIA Operations (9-5-69).

Assist the aviation industry with initial preparations for Category IIIA operations.

120-29 Criteria for Approving Category I and Category II Landing Minima for FAR 121 Operators (9-25-70).

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.

121-1 Standard Maintenance Specifications Handbook (12-15-62).

Consolidated reprint 5-15-69, includes Changes 1 through 18.

Provides procedures acceptable to FAA which may be used by operators when establishing inspection intervals and overhaul times.

121-1 CH 19 (12-19-69).

Revises existing material in the subject handbook.

121-1 CH 20 (7-17-70).

Changes existing and includes new material in the subject handbook.

121-1 CH 21 (12-14-70).

Revises existing and includes new material in the subject handbook.

121-1 CH 22 (1-10-71).

Includes new material in the subject handbook.

121-1 CH 23 (4-30-71).

Includes new material in the subject handbook.

121-3M Maintenance Review Board Reports (9-29-71).

Revises the list of Maintenance Review Board Reports that are currently in effect (August 1971).

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

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.

121-7 Use of Seat Belts by Passengers and Flight Attendants To Prevent Injuries (7-14-66).

Concerned with the prevention of injury due to air turbulence.

121-9 Maintenance of Evacuation Slides (9-22-66).

Provides information and guidance to air carriers and commercial operators in the maintenance of emergency evacuation slides.

121-12 Wet or Slippery Runways (8-17-67).

Provides uniform guidelines in the application of the "wet runway" rule by certificate holders operating under FAR 121.

121-13 Self-Contained Navigation Systems (Long Range) (10-14-69).

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 CH-1 (7-31-70).

Assures standardization of the Minimum Equipment List (MEL) with re-

120-29 Chq. 1

spect to Inertial Navigation Systems (INS) through the appropriate Flight Operations Evaluation Board (FOEB).

121-13 CH-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.

121-14 Aircraft Simulator Evaluation and Approval (12-19-69).

Sets forth one means that would be acceptable to the Administrator for approval of aircraft simulators or other training devices requiring approval under 121.407.

121-16 Maintenance Certification Procedures (11-9-70).

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.

121.195(d)-1 Alternate Operational Landing Distances for Wet Runways; Turbojet Powered Transport Category Airplanes (11-19-65).

Sets forth an acceptable means, but not the only means, by which the alternate provision of section 121.195(d) may be met.

123-1 Air Travel Clubs (10-17-68).

Sets forth guidelines and procedures to assist air travel clubs using large aircraft in meeting safety requirements of FAR Part 123.

135.155-1 Alternate Static Source for Altimeters and Airspeed and Vertical Speed Indicators (2-16-65).

Sets forth an acceptable means of compliance with provisions in FAR Part 135 and Part 23 dealing with alternate static sources.

135-1A Air Taxi Aircraft Weight and Balance Control (9-26-69).

Provides a method and procedures for developing a weight and balance control system for small aircraft operating in the air taxi fleet under FAR Part 135.

135-2 Air Taxi Operators of Large Aircraft (10-14-69).

Provides guidelines and procedures for use by air taxi operators or applicants for Air Taxi Operator certificates who desire to obtain FAA authorization to operate large aircraft (more than 12,500 pounds maximum certificated takeoff weight) in air taxi operations.

135-3 Air Taxi Operators of Small Aircraft (2-17-70).

Sets forth guidelines and procedures to assist persons in complying with the requirements of Federal Aviation Regulations, Part 135.

135.60-1 Aircraft Inspection Programs (5-1-70).

Provides information for use by air taxi operators and commercial operators of small aircraft developing an aircraft inspection program for FAA approval.

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

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

Schools and Other Certificated Agencies

SUBJECT NO. 140

140-1B Consolidated Listing of FAA Certificated Repair Stations (12-9-70).

Provides a revised directory of all FAA certificated repair stations as of October 1970.

140-2F List of Certificated Pilot Flight and Ground Schools (7-9-71).

Lists FAA certificated pilot schools as of January 1, 1971.

140-3B Approval of Pilot Training Courses Under Subpart D of Part 141 of the FAR (1-8-70).

The title is self-explanatory.

140-4 Use of Audio-Visual Courses in Approved Pilot Ground Schools Certificated Under Part 141 (8-7-68).

Informs operators of certificated pilot schools on the use of audio-visual training aids for instruction in approved ground school courses conducted under the FARs.

140-5 Radio Maintenance Technician School Curriculum (8-11-71).

Provides information on curriculum subjects for persons desiring to establish radio maintenance technician training courses.

143-1B Ground Instructor Examination Guide—Basic—Advanced (4-18-67).

Designed to assist applicants preparing for the Basic or Advanced Ground Instructor Written Examination by outlining the required knowledge and by providing sample questions for practice. Revised in 1967. (\$1 GPO.) TD 4.408: G 91.

143-2B Ground Instructor—Instrument—Written Test Guide (6-25-70).

Provides information to applicants for the instrument ground instructor rating about the subject areas covered in the examination and illustrated by a study outline, a list of study materials, and a sample examination with answers. (\$0.65 GPO.) TD 4.8: G 91.

145.101-1A Application for Air Agency Certificate—Manufacturer's Maintenance Facility (3-10-69).

Explains how to obtain a repair station certificate.

147-2H Directory of FAA Certificated Aviation Maintenance Technician Schools (10-19-71).

Provides a revised directory of all FAA certificated aviation maintenance technician schools (formerly mechanic schools) as of 1 July 1971.

147-3 Phase III, A National Study of the Aviation Mechanics Occupation (3-22-71).

Announces the availability for purchase by the public of a reprint of a report of Phase III, A National Study of the Aviation Mechanics Occupation.

149-2F Listing of Federal Aviation Administration Certificated Parachute Lofts (10-8-71).

Provides a revised listing of all FAA certificated parachute lofts as of October 1, 1971.

Airports

SUBJECT NO. 150

*** CANCELLED DEFENSE READINESS PROGRAM 150/1930-1 Radiological Decontamination of Civil Airports (8-19-66).**

Offers guidance in preattack preparations, emergency action and decontamination methods.

AIRPORT PLANNING

150/5000-1 Cancellation of Obsolete Publications Issued by Standards Division, Airports Service (4-17-70).

Cancels outstanding airport engineering data sheets, technical standard orders, airport engineering bulletins, and miscellaneous publications that are no longer current and to direct the reader to a new source of information, where applicable.

150/5000-2 Index of Publications, Airport Service, Standards Division (9-28-70).

Transmits the first Airports Service, Standards Division, index of advisory circulars and related publications.

150/5040-1A Announcement of Report—Aviation Demand and Airport Facility Requirement Forecasts for Large Air Transportation Hubs Through 1980 (3-27-69).

Announces the availability of the new report and where to obtain it.

150/5040-2 Announcement of Report—Aviation Demand and Airport Facility Requirement Forecasts for Medium Air Transportation Hubs Through 1980 (5-22-69).

Announces the availability to the public, Federal Aviation Administration personnel, airport and local government planning officials, the aviation industry, and the interested public with forecasts of aviation demand and selected airport facility requirements, for medium hubs through 1980.

150/5040-3 Announcement of Report—A Suggested Action Program for the Relief of Airfield Congestion at Selected Airports (6-19-69).

Announces the availability of the report to the public which identifies and analyzes the possible improvements leading to reduced aircraft delays at 18 of the Nation's highest density airports.

150/5000-3

121-17

135, 144-1

150/5040-4 Announcement of Supplementary Report—A Suggested Action Program for the Relief of Airfield Congestion at Selected Airports (3-31-70).

Announces the availability of the report to the public which identifies and analyzes possible improvements needed to prevent delays at 10 additional airports where demand compared to capacity indicates serious congestion will become a problem. This report is supplementary to the report announced by AC 150/5040-3.

150/5050-2 Compatible Land Use Planning in the Vicinity of Airports (4-13-67).

Advises Federal Aviation Administration personnel, local government officials and the public of the availability of the following two reports prepared under the auspices of the FAA by the firm of Transportation Consultants, Inc. *Compatible Land Use Planning On and Around Airports, and Aids Available for Compatible Land Use Planning Around Airports.*

150/5050-3 Announcement of a Report Entitled "Planning the State Airport System" (1-31-69).

Advises of the availability of the report and how to obtain it.

150/5060-1A Airport Capacity Criteria Used in Preparing the National Airport Plan (7-8-68).

Presents the method used by the Federal Aviation Administration for determining when additional runways, taxiways, and aprons should be recommended in the National Airport Plan. The material is also useful to sponsors and engineers in developing Airport Layout Plans and for determining when additional airport pavement facilities should be provided to increase aircraft accommodation capacity at airports.

150/5060-3A Airport Capacity Criteria used in Long-Range Planning (12-24-69).

Describes the method used by the Federal Aviation Administration for determining the approximate practical hourly and practical annual capacities of various airport runway configurations and is used in long-range (10 years or more) planning for expansion of existing airports and construction of new airports to accommodate forecast demand.

150/5070-1 Rapid Transit Service for Metropolitan Airports (8-26-65).

Informs airport officials of a Federal assistance program for rapid transit.

150/5070-2 Planning the Metropolitan Airport (9-17-65). (Consolidated reprint 6-30-66 includes change 1.)

Provides guidance and methodology for planning the metropolitan airport system as a part of the comprehensive metropolitan planning program.

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

Provides guidance to communities, airport boards, and industrial developers for the planning and development of Airport Industrial Parks.

150/5070-4 Planning for Rapid Urbanization Around Major Metropolitan Airports (3-31-66).

Alerts planning agencies to the need for developing appropriate planning programs to guide rapid urbanization in the vicinity of major metropolitan airports and suggests procedures for such planning programs.

150/5070-5 Planning the Metropolitan Airport System (5-22-70).

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. (\$1.25 GPO) TD 4.108:M56/2.

150/5070-6 Airport Master Plans (2-5-71).

Provides guidance for the preparation of individual airport master plans as provided for under the Airport Airway Development Act of 1970. (\$1.25 GPO) TD 4.108:P 69.

150/5090-1 Regional Air Carrier Airport Planning (2-2-67).

This circular: (1) Informs local and State governments, airport operators, and area planners of a Federal policy concerning the development of a single airport to serve two or more cities and their environs; and (2) provides such planners with guidance for evaluating the feasibility of establishing such regional airports.

150/5090-2 National Airport Classification System (Airport System Planning) (6-25-71).

Sets forth the new national airport classification system. The system is designed for use in the identification and classification of airports within the National System of Airports and for use as a planning tool in long-range airport system planning.

FEDERAL-AID AIRPORT PROGRAMS

150/5100-3A Federal-aid Airport Program-Procedures Guide for Sponsors (9-20-68).

Provides guidance to public agencies that sponsor or propose to sponsor projects under the Federal-aid Airport Program (FAAP) authorized by the Federal Airport Act.

150/5100-3A CH 1 (11-28-69).

Transmits revised pages to subject advisory circular.

150/5100-5 Land Acquisition in the Federal-aid Airport Program (1-30-69).

Provides general information to sponsors of airport development projects under the Federal-aid Airport Program on the eligibility of land acquisition and extent of Federal participation in land acquisition costs.

150/5100-6 Labor Requirements in Federal-aid Airport Program Contracts (6-6-69).

Covers the basic labor requirements applicable to the Federal-aid Airport Program (FAAP). Intended primarily

for the guidance of those public agencies sponsoring projects under the program and the contractors and subcontractors engaged in work under a project.

150/5100-7A Requirement for Public Hearing in the Airport Development Aid Program (1-4-71).

Provides guidance to sponsors of airport development projects under the Airport Development Aid Program (ADAP) on the necessity for and conduct of public hearings.

150/5100-8 Request for Aid; Displaced Persons; Public Hearings; Environmental Considerations; Opposition to the Project (1-19-71).

Provides general guidance on the information and coordination required in support of a request for aid for an airport development project under the Airport and Airway Development Act of 1970.

SURPLUS AIRPORT PROPERTY CONVEYANCE PROGRAMS

150/5150-2 Federal Surplus Personal Property for Public Airport Purposes (6-27-68).

Outlines policies and procedures for State and local agencies applying for and acquiring surplus Federal personal property for public airport purposes.

150/5150-2 CH 1 (4-22-69).

Revises the flow of copies of the SF 123 to provide for more accurate review of donated property.

AIRPORT COMPLIANCE PROGRAM

150/5190-1 Minimum Standards for Commercial Aeronautical Activities on Public Airports (8-18-66).

Gives to owners of public airports information helpful in the development and application of minimum standards for commercial aeronautical activities.

150/5190-2A Exclusive Rights at Airports (9-2-66).

Provides basic information and guidance on FAA policy concerning exclusive rights at public airports on which Federal funds, administered by the FAA, have been expended.

150/5190-3 Model Airport Zoning Ordinance (1-16-67).

Provides a guide to be used in preparing airport zoning ordinances. This model will require modification and revision to suit circumstances and fulfill State and local law.

AIRPORT SAFETY—GENERAL

150/5200-1 Bird Hazards to Aviation (3-1-65) —Cancelled 5200-3A

Discusses certain steps that can be taken toward reducing or solving the bird strike problem on and near airports.

150/5200-2A Bird Strike/Incident Report Form (12-70) —Cancelled 5200-3A

Informs military and civil aviation organizations that FAA Form 3830, "Bird Strike/Incident Report Form," (BOB; 04-R136) is available for use in reporting bird hazards and accidents/incidents to aircraft resulting from bird strikes.

150/5100-10

150/5200-3^A Bird Hazards to Aircraft (10-7-66).

Transmits the latest published information concerning the reduction of bird strikes on aircraft.

150/5200-4 Foaming of Runways (12-21-66).

Discusses runway foaming and suggests procedures for providing this service.

150/5200-5 Considerations for the Improvement of Airport Safety (2-2-67).

Emphasizes that, in the interest of accident/incident prevention, airport management should conduct self-evaluations and operational safety inspections. An exchange of information and suggestions for the improvement of airport safety is also suggested.

150/5200-6A Security of Aircraft at Airports (6-28-68).

Directs attention to the problem of pilferage from aircraft on airports and suggests action to reduce pilferage and the hazards that may result therefrom.

150/5200-7 Safety on Airports During Maintenance of Runway Lighting (1-24-68).

Points the possibility of an accident occurring to airport employees caused by electrocution.

150/5200-8 Use of Chemical Controls to Repel Flocks of Birds at Airports (5-2-68).

Acquaints airport operators with new recommendations on the use of chemical methods for dispersing flocks of birds.

150/5200-9 Bird Reactions and Scaring Devices (6-26-68).

Transmits a report on bird species and their responses and reactions to scaring devices.

150/5200-10 Airport Emergency Operations Planning (7-26-68).

Provides guidance to airport management and disaster control personnel in the preparation of plans for emergency actions at civil airports.

150/5200-10 CH I (9-15-70).

Transmits additional guidance regarding post accident passenger accommodations, crowd control, a regional telephone list for requesting radiological assistance from the Atomic Energy Commission, and other items related to these subjects.

150/5200-11 Airport Terminals and the Physically Handicapped (11-27-68).

Discusses the problems of the physically handicapped air traveler and suggests features that can be incorporated into new or existing terminal buildings.

150/5200-12 Fire Department Responding to Evidence at the Scene of an Aircraft Accident (8-7-

68). Provides general guidance for emergency management and other

personnel responsible for firefighting and rescue operations, at the scene of an aircraft accident, on the proper preservation of evidence.

150/5200-13 Removal of Disabled Aircraft (8-27-70).

Discusses the responsibility for disabled aircraft removal and emphasizes the need for prearranged agreements, plans, equipment, and improved coordination for the expeditious removal of disabled aircraft from airport operating areas. It also illustrates some of the various methods used, equipment employed, equipment available, and concepts for aircraft recovery.

150/5200-14 Results of 90-Day Trial Exercise on Fire Department Activity (9-8-70).

Transmits statistical data collected during a 90-day trial exercise conducted to determine the relationship between aircraft fire and rescue service activities and airport aeronautical operations.

150/5200-15 Availability of the International Fire Service Training Association's (IFSTA) Aircraft Fire Protection and Rescue Procedures Manual (9-11-70).

Announces the availability of the subject manual.

150/5200-16 Announcement of Report AS-71-1 "Minimum Needs for Airport Fire Fighting and Rescue Services" Dated January 1971 (4-13-71).

Announces the availability of the subject report and describes how to get it.

150/5210-2 Airport Emergency Medical Facilities and Services (9-3-64).

Provides information and advice so that airports may take specific voluntary preplanning actions to assure at least minimum first-aid and medical readiness appropriate to the size of the airport in terms of permanent and transient personnel.

150/5210-4 FAA Aircraft Fire and Rescue Training Film, "Blanket for Survival" (10-27-65).

Provides information on the purpose, content, and availability of the subject training film.

150/5210-5 Painting, Marking, and Lighting of Vehicles Used on an Airport (8-31-66).

Makes recommendations concerning safety, efficiency, and uniformity in the interest of vehicles used on the aircraft operational area of an airport.

150/5210-6A Aircraft Fire and Rescue Facilities and Extinguishing Agents (1-14-70).

Furnishes general guidance for estimating the aircraft fire and rescue facilities needed at civil airports.

150/5210-7A Aircraft Fire and Rescue Communications (10-28-66).

Provides airport management with information helpful in the establishment of communication and alarm facilities. Such facilities alert and guide those per-

sonnel who must deal with aircraft ground emergencies.

150/5210-8 Aircraft Firefighting and Rescue Personnel and Personnel Clothing (1-13-67).

Provides guidance concerning the manning of aircraft fire and rescue trucks, the physical qualifications that personnel assigned to these trucks should meet, and the protective clothing with which they should be equipped.

150/5210-9 Airport Fire Department Operating Procedures During Periods of Low Visibility (10-27-67).

Suggests training criteria which airport management may use in developing minimum response times for aircraft fire and rescue trucks during periods of low visibility.

150/5210-10 Airport Fire and Rescue Equipment Building Guide (12-7-67).

This title is self-explanatory.

150/5210-11 Response to Aircraft Emergencies (4-15-69).

Informs airport operators and others of an existing need for reducing aircraft firefighting response time, and outlines a uniform response time goal of 2 minutes within aircraft operational areas on airports.

150/5220-1 Guide Specification for a Light-Weight Airport Fire and Rescue Truck (7-24-64).

Describes a vehicle with performance capabilities considered as minimum for an acceptable light rescue truck.

150/5220-2 Guide Specification for 1,800-Gallon Aircraft Fire and Rescue Truck (7-24-64).

Describes a vehicle possessing the minimum performance capabilities recommended for an acceptable aircraft fire and rescue truck.

150/5220-3 Guide Specification for 1,000-Gallon Aircraft Fire and Rescue Truck (3-9-67).

The title is self-explanatory.

150/5220-4 Water Supply Systems for Aircraft Fire and Rescue Protection (12-7-67).

The title is self-explanatory.

150/5220-5 Guide Specification for a Combination Foam and Dry Chemical Aircraft Fire and Rescue Truck (12-29-67).

Specification requirements developed by FAA to assist airport management in developing local procurement specifications for fire and rescue trucks.

150/5220-6 Guide Specification for 1,000-Gallon Tank Truck (4-10-68).

Assists airport management in the development of local procurement specifications.

150/5220-7 Guide Specification for 2,500-Gallon Aircraft Fire and Rescue Truck (8-30-68).

Guide Specification developed to assist airport management in the development of local procurement specifications.

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150/5220-8 Guide Specification for 2,000-Gallon Tank Truck (6-13-69).

Assists airport management in the development of local procurement specifications for 2,000-gallon tank truck.

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

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.

150/5230-1 Suggestions for Airport Safety Self-Inspection (3-30-64).

Summarizes the functional statements, procedures, forms, and schedules on safety self-inspection now in use at many U.S. civil airports.

150/5230-3 Fire Prevention During Aircraft Fueling Operations (4-8-69).

This advisory circular provides information on fire preventative measures which aircraft servicing personnel should observe during fueling operations.

**CIVIL AIRPORTS EMERGENCY PREPAREDNESS
Cancelled See 5200-17
*150/5240-1A Airport Disaster Control Guide (10-31-67).**

Acts as a guide to reducing or avoiding problems imposed by enemy nuclear attack.

DESIGN, CONSTRUCTION, AND MAINTENANCE—GENERAL**150/5300-2B Airport Design Standards—Site Requirements for Terminal Navigational Facilities (10-8-69).**

Provides information regarding the location, function, and siting requirements of terminal air navigational facilities to enable sound airport design and development, as well as facilitating their proper and economical establishment.

150/5300-3 Adaptation of TSO-N18 Criterion to Clearways and Stopways (10-18-64).

Sets forth standards recommended by the FAA for guidance of the public for the adaptation of TSO-N18 criterion to clearways and stopways.

150/5300-4A Utility Airports—Air Access to National Transportation (5-6-69).

Presents recommendations of the Federal Aviation Administration for the design of utility airports. These airports are developed for general aviation operations and this guide has been prepared to encourage and guide persons interested in their development. (\$1.75 GPO.) TD 4.8:AI 7/968.

150/5300-5 Airport Reference Point (9-26-68).

Defines and presents the method for calculating an airport reference point.

150/5300-6 Airport Design Standards, General Aviation Airports, Basic and General Transport (7-14-69).

Provides recommended design criteria for the development of larger than general utility airports.

150/5300-7A FAA Policy on Facility Relocations Occasioned by Airport Improvements or Changes (9-27-71).

Informs 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.

150/5300-8 Planning and Design Criteria for Metropolitan STOL Ports (11-5-70).

Provides the criteria recommended for the planning and design of STOL ports in metropolitan areas.

150/5310-3 FAA Order 5310.2, Relocating Thresholds Due to Obstructions at Existing Runways (5-27-68).

Announces the issuance of instructions to FAA field personnel on the displacement or relocation of thresholds.

150/5320-5B Airport Drainage (7-1-70).

Provides guidance for engineers, airport managers, and the public in the design and maintenance of airport drainage systems. (\$1.00 GPO.) TD 4.8:78/970.

150/5320-6A Airport Paving (5-9-67).

Provides data for the design and construction of pavements at civil airports.

150/5320-6A CH 1 (6-11-68).

Transmits page changes and adds new chapter 6 to basic AC.

150/5320-6A CH 2 (2-2-70).

Transmits new paragraphs 3, 4, and 5, and adds a new Appendix 2.

150/5320-6A CH 3 (4-1-70).

Transmits several page changes and new subgrade compaction criteria.

150/5325-2B Airport Design Standards—Air Carrier Airports—Surface Gradient and Line of Sight (2-18-70).

Establishes design standards for airports served by certificated air carriers to assist engineers in (1) designing the gradients of airport surface areas used to accommodate the landing, takeoff, and other ground movement requirements of airplanes while (2) providing adequate line of sight between airplanes operating on airports.

150/5325-3 Background Information on the Aircraft Performance Curves for Large Airplanes (1-26-65).

Provides airport designers with information on aircraft performance curves for design which will assist them in an objective interpretation of the data used for runway length determination.

150/5325-3 CH 1 (5-12-66).

Transmits a revision to the effective runway gradient standards.

150/5325-4 Runway Length Requirements for Airport Design (4-5-65).

Presents aircraft performance curves and sets forth standards for the determination of runway lengths to be provided at airports. The use of these standards is required for project activity under the Federal-Aid Airport Program when a specific critical aircraft is considered as the basis for the design of a runway.

150/5325-4 CH 1 (8-5-65).

Provides amended information for the basic advisory circular and includes aircraft performance curves for the BAC 1-11.

150/5325-4 CH 2 (9-21-65).

Transmits aircraft performance curves for the Boeing 707-300C and the Fairchild F-27 and F-27B.

150/5325-4 CH 3 (4-25-66).

Transmits aircraft performance curves for the Douglas DC-8-55, DC-8F-55, and DC-9-10 Series, the Fairchild F-27J, and the Nord 262.

150/5325-4 CH 4 (5-12-66).

Transmits a revision to the effective runway gradient standards.

150/5325-4 CH 5 (7-13-66).

Transmits aircraft performance curves for the Douglas DC-9-10 Series equipped with Pratt & Whitney JT8D-1 Engines.

150/5325-4 CH 6 (12-8-66).

It is recommended that turbojet powered aircraft use more runway length when landing under wet or slippery, rather than under dry conditions. This change furnishes a basis for estimating the additional recommended length.

150/5325-4 CH 7 (2-7-67).

Presents design curves for landing and takeoff requirements of airplanes in common use in the civil fleet. Also presented are instructions on the use of these design curves and a discussion of the factors considered in their development.

150/5325-4 CH 8 (11-8-67).

Transmits aircraft performance curves for the Boeing 747, Convair 640 (340D or 440D), and Douglas DC-9-30 Series.

150/5325-5A Aircraft Data (1-12-68)

Presents a listing of principal dimensions of aircraft affecting airport design for guidance in aircraft development.

150/5325-6 Effects of Jet Blast (5-65).

Presents the criteria for treating jet blast effects which are accomplished by a project in meeting eligibility requirements of the Federal-Aid Airport Program.

150/5325-8 Compass (5-8-69).

Provides guidelines for determining location on the airport.