

Update on Advisory Circulars and Engineering Briefs

2008 Airports Conference
Western-Pacific Region

The Westin Los Angeles Airport
5400 West Century Boulevard
Los Angeles, CA 90045

Jeff Rapol, FAA AAS-100
jeffrey.rapol@faa.gov
(202) 267-7474



Federal Aviation
Administration



Presentation Objectives

- Provide information on the Advisory Circular (AC) and Engineering Brief (EB) processes.
- Summarize the work in the Airport Engineering Division.
- Guidance available on the Airports internet web site.



Airport Engineering Division AAS-100

- Division Manager
- Administrative Assistant
- National Resource Expert on Air Space
- Seven Civil Engineers
- Three Electrical/Electronics Engineers
- ACRP Research Engineer (Mechanical)
- Technical Support Contractor (SAIC)
- Technical Editor (shared)



FAA Guidance

- FAA guidance is part of the authorizing legislation for airport development using Federal funds.
- FAA airport design, construction, and maintenance guidance are contained in Advisory Circulars, the 150's series.
- Interim FAA airports engineering guidance is provided in Engineering Briefs.
- FAA airport guidance is available from FAA web sites : <http://www.faa.gov/arp/>



Establishing or Changing Guidance

- HQ Office Initiates and Prepares Draft.
- Review by HQ Airports Offices.
- Revised Draft Sent for Concurrent Review to FAA Regions and Industry.
 - The Boeing Company and the Airports Consultants Council (ACC) Receive Copies of Draft Changes.
- Comments Accepted for 60 days (General).
- Change Finalized.
- FAA Legal Review, Office Director Signs.



What Delays a Change

- Non-Concurrence from HQ Offices.
- Non-Concurrence from FAA Regions.
- Inability to Reconcile Comments from Boeing, Airports Consultants Council, Peer Review Associations, or Industry.
- Substantive Alterations to a Proposed Change May Require New Draft.



Technical Support Contractor Work)

- Large Portion of the Work Performed by Support Contract (SAIC, Integic)
- FAA specialist prepares statement of work, contractor gets clarification, then delivers draft.
- FAA specialist circulates for review.
- FAA and contractor finalize document.
- FAA legal review, Office Director signs.



Airports Web Site, two step process



Airports Web Site

http://www.faa.gov/airports_airtraffic/

FAA - Airports & Air Traffic

 Federal Aviation Administration

Aircraft **Airports & Air Traffic** Data & Statistics

Search:

Airports & Air Traffic Topics

- Air Traffic
- Airport and Airway Trust Fund (AATF)
- Airports
- Major Airport

Airports & Air Traffic

Airport Status

- [Airport Status & Delays \(real-time\)](#)
- [Airline On Time Statistics](#)
- [Weather](#)

Air Traffic Information

- [Air Traffic Organization - ATO Annual Performance \(10/2006\)](#)





Federal Aviation Administration

FAA Home

About

Pilots

Aircraft

Airports & Air Traffic

Data & Statistics

Education & Research

Licenses & Certificates

Search:

Go

Powered by Google

Quick Find:

Airports Topics

- Regional Guidance
- News & Information
- Resources
- Airport Improvement Program (AIP)**
- Airport Obligations
- Airport Safety

Airports

Highlights

- [Advisory Circulars \(Series 150 ACs\)](#)
 - [Draft Advisory Circulars](#)
 - [New and Revised Advisory Circulars](#)
- [AIP Handbook](#)
- [Airport Data \(5010\)/Contact Information](#)
- [Engineering/Design/Construction Resources](#)
- [National Plan of Integrated Airport Systems \(NPIAS\) \(Updated 10/6/2006\)](#)
- [Obstruction Evaluation](#)
- [Opening or Closing of Airports](#)
- [Part 139 Certification](#)
- [Passenger Boarding and All-Cargo Data](#)
- [Voluntary Airport Low Emissions \(VALE\) Program](#)
- [Wildlife Hazard Mitigation](#)

Engineering and Design Resources, including Software, Design Standards, and Engineering Briefs



Airports

Highlights

- [Advisory Circulars \(Series 150 ACs\)](#)
 - [Draft Advisory Circulars](#)
 - [New and Revised Advisory Circulars](#)
- [AIP Handbook Series 150 Advisory Circulars \(ACs\) for Airport Projects](#)
- [Airport Data \(5010\)/Contact Information](#)
- [Engineering/Design/Construction Resources](#)
- [National Plan of Integrated Airport Systems \(NPIAS\) \(Updated 10/6/2006\)](#)
- [Obstruction Evaluations \(Part 77\)](#)
- [Opening or Closing an Airport](#)
- [Part 139 Certification](#)
- [Passenger Boarding and All-Cargo Data](#)
- [Voluntary Airport Low Emissions \(VALE\) Program](#)
- [Wildlife Hazard Mitigation](#)

Airports

Highlights

- [Advisory Circulars \(Series 150 ACs\)](#)
 - [Draft Advisory Circulars](#)
 - [New and Revised Advisory Circulars](#)
- [AIP Handbook](#)
- [Airport Data \(AD\) Projects](#)
- [Engineering/Design/Construction Resources](#)
- [National Plan of Integrated Airport Systems \(NPIAS\) \(Updated 10/6/2006\)](#)
- [Obstruction Evaluations \(Part 77\)](#)
- [Opening or Closing an Airport](#)
- [Part 139 Certification](#)
- [Passenger Boarding and All-Cargo Data](#)
- [Voluntary Airport Low Emissions \(VALE\) Program](#)
- [Wildlife Hazard Mitigation](#)

Advisory Circular Web Site

Airports Series 150 Advisory Circular Library

This library includes FAA Series 150 Advisory Circulars (ACs) for airport projects. To access other FAA ACs, please see "[Related Resources](#)" below.

Advisory Circular (AC) Search Form

Instructions:

- **Search** by keyword (e.g., Wildlife, 5300-13, etc.) and/or category.
- **Sort** results by AC number, title, or publication date. To resort a list once it appears, click on the column title.
- **View all Series 150 ACs** by using the "All 150 Series Advisory Circulars" category and leaving the keyword box blank.
- **View new/updated** Series 150 ACs by selecting the "New and Revised Series 150 ACs" link under "[Related Resources](#)" below.

Keyword(s):

Category:

Sort:

Sort Direction:

Search Library

Reset Form



Out For Review—AC's being revised

- Draft AC 150/5340-18E, Standards for Airport Sign Systems (3/25/2008)
- Draft AC 150/5345-56A, Specification for L-890 Airport Lighting Control and Monitoring System (ALCMS) (2/13/2008)
- 150/5200-31B (PDF, 2.03 MB) Draft AC 150/5200-31B, Airport Emergency Plan (2/25/2008)
- 150/5210-14B (PDF)
- Draft AC 150/5210-14B, Airport Fire and Rescue Equipment, Tools and Clothing (2/25/2008)
- Draft AC 150/5340-30D, Design and Installation Details for Airport Visual Aids (2/14/2008)



Recent Work—Completed AC's

- 150/5210-20 Change 1 to Ground Vehicle Operations on Airports (3/25/2008)
- 150/5340-1J Change 1 to Standards for Airport Markings (3/25/2008)
- 150/5345-53C Addendum for Airport Lighting Equipment Certification Program (3/17/2008)
- 150/5100-17 Errata Sheet for Change 6 to Land Acquisition and Relocation Assistance for Airport Improvement Program Assisted Projects (3/14/2008)



Recent Work—Completed AC's

- 150/5300-13 Errata Sheet for Change 12 to Airport Design (2/15/2008)
- 150/5300-13 Change 12 to Airport Design (2/12/2008)
- 150/5300-14B Design of Aircraft Deicing Facilities (2/7/2008)
- 150/5200-28D Errata Sheet for Notices to Airmen (NOTAMs) for Airport Operators (2/4/2008)



Recent Work—Completed AC's

- 150/5200-28D Notices to Airmen (NOTAMs) for Airport Operators (1/28/2008)
- 150/5220-10D Responses to Industry Comments on Guide Specification for Aircraft Rescue and Fire Fighting Vehicles (12/4/2007)
- 150/5370-10C Standards for Specifying Construction of Airports - Errata Sheet (11/6/2007)



Engineering Briefs (EB)

- Interim FAA guidance is provided in Engineering Briefs. EB's provide additional guidance on unusual conditions that AC's may not completely address.
- Generally issued without draft sent out for widespread review.
- Also placed on the Airports web site.



http://www.faa.gov/airports_airtraffic/airports/construction/

Construction On or Near Airports

- [Acquiring Land for Airports and Relocation Assistance](#)
- [Airport Lighting](#)
- [Design Software](#)
- [Design Standards](#)
- [Engineering Briefs](#)
- [Obstruction Evaluation/Airport Airspace Analysis](#)
- [Opening Classifications Airport](#)
- [Pavement Engineering Briefs Construction](#)
- [Procurement and Contracting under AIP](#)



Recent Engineering Briefs

- EB76 (PDF) Using Solar Power for Airport Obstruction Lighting (1/14/2008)
- EB75 (PDF) Incorporation of Runway Incursion Prevention into Taxiway and Apron Design (11/19/2007)
- EB74 (PDF) Minimum Requirements to Widen Existing 150-Foot Wide Runways for Boeing 747-8 Operations (3/13/2008)
- EB73 (PDF) Use of Non-Standard 75-Foot- (23-M) Wide Straight Taxiway Sections for Boeing 747-8 Taxiing Operations (12/7/2007)
- EB72A (PDF) Positive Identification of Runways for Landing (11/2/2007)



Thank You

Questions / Discussion

Jeff Rapol, Airport Engineering Division, AAS-100

202-267-7474

jeffrey.rapol@faa.gov

