

# Overview: FAA Guidance Part II

**Concrete Airport Pavement Workshop  
Right Choice, Right Now**

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Atlanta, GA**

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**Federal Aviation  
Administration**



# Presentation Objectives

Discussion on Advisory Circulars,  
State Standards, and the UFGS:  
Using Concrete on Airport Projects



# Overview: FAA Guidance Part I

## Pavement related Advisory Circulars FY2011 ~ FY2012

- 5100-13B**    **DEVELOPMENT OF STATE STANDARDS FOR NONPRIMARY AIRPORTS [8/31/2011]**
- 5335-5B**    **STANDARD METHOD FOR REPORTING AIRPORT PAVEMENT STRENGTH (PCN) [8/31/2011]**
- 5370-10F**    **STANDARD FOR SPECIFYING CONSTRUCTION OF AIRPORTS [9/30/2011]**
- 5370-11B**    **USE OF NONDESTRUCTIVE DEVICES IN THE EVALUATION OF AIRPORT PAVEMENTS [9/30/2011]**
- 5370-15B**    **AIRSIDE APPLICATIONS FOR ARTIFICIAL TURF [9/30/2011]**
- 5370-17**    **AIRSIDE USE OF HEATED PAVEMENT SYSTEMS [3/29/2011]**



# Overview: FAA Guidance Part I

## Pavement related Advisory Circulars FY2012 Work ~ FY2013 AC Plan

**5370-10 STANDARD FOR SPECIFYING CONSTRUCTION OF AIRPORTS**

**5335-05 STANDARD METHOD FOR REPORTING AIRPORT PAVEMENT STRENGTH (PCN)**

**5380-06 GUIDELINES AND PROCEDURES FOR MAINTENANCE OF AIRPORT PAVEMENTS**

**5370-14 HOT MIX ASPHALT PAVING HANDBOOK**

5370-11 USE OF NONDESTRUCTIVE DEVICES IN THE EVALUATION OF AIRPORT PAVEMENTS

5320-17 AIRFIELD PAVEMENT SURFACE EVALUATION AND RATING (PASER) MANUALS

5380-07 PAVEMENT MANAGEMENT SYSTEM



# Overview: FAA Guidance Part II

**5100-13B      DEVELOPMENT OF STATE STANDARDS  
FOR NONPRIMARY AIRPORTS  
[8/31/2011]**

**5370-10F      STANDARD FOR SPECIFYING  
CONSTRUCTION OF AIRPORTS  
[9/30/2011]**

**5380-06B      GUIDELINES AND PROCEDURES FOR  
MAINTENANCE OF AIRPORT PAVEMENTS  
[9/28/2007]**



# Advisory Circular 150/5100-13B

## DEVELOPMENT OF STATE STANDARDS FOR NONPRIMARY AIRPORTS

- Provides guidelines for the development of State Standards for and the use of State highway specifications for pavement construction at nonprimary public-use airports.
- Is not guidance and is not to be implied as guidance for using State Highway Specifications.
- If FAA approves the State Standard (developed by the State) this new Standard will be used in lieu of FAA Standards.



# Advisory Circular 150/5100-13B

## DEFINITIONS

- **“Public-use airport”** means an airport open to the public that also meets the following criteria:
  - (1) publicly owned, or
  - (2) privately owned but designated by FAA as a reliever, or
  - (3) privately owned but having scheduled service and at least 2,500 annual enplanements.
- **“Nonprimary airport”** includes, for the purpose of this AC, all civil airports with 10,000 passenger boardings or less each year.
- **“nonprimary public-use airports”** – runways of 5,000 feet or shorter servicing aircraft of 60,000 pounds gross weight and under.



# Advisory Circular 150/5100-13B

## PAVEMENT DESIGN

APPENDIX I PRESENTS THREE METHODS FOR DEVELOPING PAVEMENT DESIGN STRUCTURAL SECTIONS.

- **METHOD A. MINIMUM THICKNESS FOR PAVEMENT STRUCTURAL SECTIONS.**
- **METHOD B. AASHTO ALTERNATE FOR PAVEMENT STRUCTURAL SECTIONS.**
- **METHOD C.** When Method A or B do not provide a suitable means for a State to develop pavement structural designs for nonprimary public-use airports in the State, a detailed submittal of the method proposed is required.





# Advisory Circular 150/5380-06B

## GUIDELINES AND PROCEDURES FOR MAINTENANCE OF AIRPORT PAVEMENTS

- **Conventional Concrete Mixture.** The conventional concrete mixture will conform to FAA specification P-501 for materials. This repair method is considered a permanent, long term repair as it is typically used for large repair areas requiring 3 cubic yards or more of mix supplied by a local concrete mixing plant.



# Advisory Circular 150/5370-10F

## STANDARD FOR SPECIFYING CONSTRUCTION OF AIRPORTS

P-501 Portland Cement Concrete Pavement  
(For all pavement)

(Note: UFGS for Small projects was cancelled and is no longer available for consideration)

P-610 Structural Portland Cement Concrete  
(i.e., Bridge decks, vaults, sign base, etc)



# Thank You

## Questions / Discussion

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