Overview: FAA Guidance Part II

Concrete Airport Pavement Workshop
Right Choice, Right Now

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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.
DISTINCTION:

• “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.
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.
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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