

Specifications & Projects

Industry Update

Alex McKean & Arlando Gilbert






**CAPA ASPHALT & AIRPORT PAVEMENT
MEETING**

MARCH 15, 2018

RS&H



ARCHITECTURE | ENGINEERING | CONSULTING

Industry Involvement

- » Airports Council International (ACI)
 - Technical Committee
 - Environmental Committee
 - Small Airports Committee
- » American Association of Airport Executives (AAAE)
 - Ops & Planning Committee
 - Environmental Committee
- » Airport Consultants Council (ACC)
 - Planning Committee
 - Engineering Committee
 - Terminal Committee



Industry Update

- » DRAFT FAA AC 150/5370-10H
 - Standard Specifications for Construction of Airports
 - Draft AC Posted November 2, 2017
 - ACC requested deadline extension
 - Comment deadline was January 19, 2018
 - ACC compiled over 500 comments from various Engineering Committee members.
 - Final to be issued September 2018

DRAFT FAA AC 150/5370-10H

- » Standard Specifications for Construction of Airports
 - Principal Changes to General Provisions Sections 10 to 110
 - Updated references to FAA AC's, ASTM, AASHTO, and AI standards.
 - ASTM now ASTM International.
 - Added several definitions to Section 10 – COA, COC, MOS
 - Deleted Section 50 on Construction Layout and staking
 - Section 60 Control of Materials – Revised field office guidance
 - Section 70-06 retitled as Construction Safety and Phasing Plan
 - Moved Section 100 Contractor QC Program, renumbered as C-100. Added clarification of CQCP requirements
 - Section 105- Mob, and 110- PWL moved and renumbered to C-105 and C110
 - 100 Comments compiled by ACC on this section

DRAFT FAA AC 150/5370-10H

» Standard Specifications for Construction of Airports

– Principal Changes to Material Specifications

- Several sections have been renamed, renumbered or added
 - Added P-207 In-place Full Depth Reclamation Recycled Asphalt ABC
 - Added P-608-R Rapid Cure Seal Coat
 - Added P-623 Modified asphalt Spray Seal Coat
- Material properties placed in table format in several sections
- Revised definition of “Lot Size” in P-401, P-403, P-501 and P-404
- Several changes to P-401 Asphalt Mix Pavement, name changed, added clarification on smoothness requirements
 - Added requirement for Asphalt Pavement Analyzer (APA), eliminating need for stability and flow for Marshal mixes

– 400 Comments compiled by ACC on the material specifications

DRAFT FAA AC 150/5370-10H

» Review of ACC Comments

- Began by looking for trends, patterns and at overall distribution
 - Broke down comments by specification section
 - Total of 503 comments
 - General Provision Section 10-110 = 100 Comments
 - New Specifications = 3 Comments
 - Material Specifications P-101 through L-125 = 400 Comments
 - Within each section, distribution was fairly even with the exception of P-501, P-152, and P-101 specifications
 - Largest number of comments were on the P-501 PCC Pavement specification (~59)
 - Second was the P-152 Excavation, Subgrade, and Embankment specification (~48)
 - P-101 Preparation/ Removal of Existing Pavements was third with (~37)

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» Review of ACC Comments Specific to Asphalt

– P-401 Asphalt Mix Pavement – 15 Comments

- P-401-2.1a Flat and elongated particles increased from 8% to 10%
- P-401-3.3 Job Mix Formula – Requirement for Asphalt Pavement Analyzer
 - AASHTO T340
 - Question regarding use in industry, cost, and availability
- P-401-3.3 Job Mix Formula – Design criteria for 50 Blow mix designs has been deleted
 - Concerns for small GA Airports and lightweight aircraft <60,000lbs
- P-401-3.3 Job Mix Formula – Aggregate gradation ranges changed
 - Some ranges closed other opened up
- P-401-6.3 PWL – Joint Density % reduced from 93.3% to 90.5%

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- » Review of ACC Comments Specific to Asphalt (cont)
 - P-403 Asphalt Mix Pavement (Base)(Leveling) – 12 Comments
 - P-403-2.1a Flat and elongated particles increased from 8% to 10%
 - P-403-3.3 Job Mix Formula – Requirement for Asphalt Pavement Analyzer
 - AASHTO T340
 - Question regarding use in industry, cost, and availability
 - P-403-3.3 Job Mix Formula – Design criteria for 50 Blow mix designs has been deleted
 - Concerns for small GA Airports and lightweight aircraft <60,000lbs
 - P-403-3.3 Job Mix Formula – Aggregate gradation ranges changed
 - Some ranges closed other opened up

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» Review of ACC Comments Specific to Asphalt (cont)

– P-404 Fuel-Resistant Asphalt Mix Pavement – 9 Comments

- P-404-3.3 Job Mix Formula – Only 50 blow Marshall Method for mix design is allowed
 - With highly modified binders required (PG) 82-28 and 88-22 would a higher compactive effort be beneficial?
- P-404-3.3 Job Mix Formula – Requirement for Asphalt Pavement Analyzer
 - Question regarding industry use and availability

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» Questions

- P-401 vs. P-403 – Cost savings?
- Gyrotory vs. Marshall?



New FAA AC 150/5370-2G

- » Operational Safety for Construction on Airports
 - Work in TSA
 - Taxi speeds less than 10mph
 - NOTAMS
 - Barricades
 - Temporary Orange Signage

New FAA AC 150/5370-2G

- » Orange Construction Signage
 - May be used to increase Situational Awareness



CONSTRUCTION
AHEAD



CONSTRUCTION
ON RAMP



RWY 4L TAKEOFF RUN
AVAILABLE 9,780 FT

Upcoming AC's

- » 150/5100-13C *Development of State Aviation Standards for Construction at Non-primary Public-use Airports and Use of State Highway Material Specifications for Individual Projects*
- » New AC on 7460's
 - Draft 9/2018

Thanks!

*Alex McKean, PE
303-409-7915
alex.mckean@rsandh.com*

*Arlando Gilbert, PE
303-409-7956
arlando.gilbert@rsandh.com*

RS&H