

AAPT

Airport Asphalt Pavement Technology Program



Program UPDATE

Annual AMAP Meeting
February 2007

www.AAPTP.US

AAPTP Background

- Program began 2004
- Cooperative Agreement
- Applied Research Program
- Auburn University Contractor
- Organizational structure similar to NCHRP
- Projects are awarded as subcontract to Auburn University
- Funding obtained for FY-04 thru FY-06

AAPTP Status

- 13 Projects Awarded
- Funding available for 7 new projects (FY-06)
- Approval and prioritization for 9 projects from FY-07 (funds not approved by Congress)

Project Status Update

Reference: AAPTP Handout

Updates:

FY-04 Projects Include:

Rubblization, PG Binder, Superpave, SMA
Longitudinal Joints, & Porous Friction
Course

Corrections:

04-02 Completion date July 2007

04-04 Project award was \$300K

Project Status Update

● FY-05 Projects

- 05-01 Best Practice Manual (NCAT Ray Brown)
- 05-02 Fuel Resistant (AMEC Doug Hanson)
- 05-03 De-Icing Chemicals (AAT Don Christensen)
- 05-04 Reflective Cracking (ARA – Harold Von Quintus)
- 05-05 Tech Cert (NICET Ahmed Farouki)
- 05-06 Recycling (U NV Reno – Peter Sebaaly)
- 05-07 Non-Load (AMEC – Doug Hanson)

Project Status Update

- FY-06 – Initial Work on RFPs Underway
 - 06-01 – Extension of 05-06 (\$330K)
 - 06-02 ASR Aggregate 3-07 (\$150K)
 - 06-03 Perf Base Specifications 3-07(\$190K)
 - 06-04 Delamination 4-07(\$190K)
 - 06-05 State Specifications 5-07(\$190K)
 - 06-06 Life Cycle Cost 6-07 (\$100K)
 - 06-07 Overlay Procedure *-07 (\$195K)

Proposed Project for FY-07

- 07-01 Improved Shear Strength to Accommodate Higher Tire Pressures
- 07-02 Improved Mix Design Construction and Maintenance of Grooved HMA Airfield Pavements
- 07-03 Guidelines for Design and Application of Tack and Prime Coat for Airport HMA Pavements
- 07-04 Evaluation of Failure Mechanisms for HMA Airfield Pavements
- 07-05 Mechanistic Properties of FAA HMA Standard Specification Materials

FY-07 Projects (cont.)

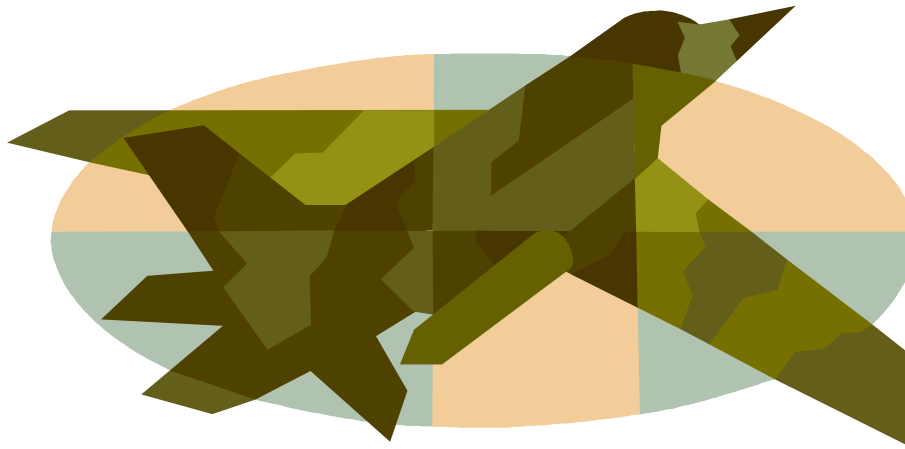
- 07-06 Use of Accelerated Laboratory Tests to Develop Improved Rutting Predictions Models for Airfield Pavement
- 07-07 Model Data Base Collection of HMA Airfield Construction Data
- 07-08 Development a Web Based Information System for Airfield HMA Best Construction Practices Manual
- 07-09 Investigate Severity, Extent and Corrective Measures for Segregation on HMA Airfield Pavements

Projects of Interest

- 04-02 PG Grade Selection (7-07)
- 04-03 Superpave (11-07)
- 04-04 SMA Mixtures for Airfields (3-08)
- 05-02 Fuel Resistant Mixtures (8-08)
- 05-03 Effects of De-Icing Chemicals (9-08)
- 05-04 Mitigation of Reflective Cracking (2-08)
- 05-07 Prevention and Remediation of Non-Load Related Distress (2-08) Phase I

Thank You!

Questions?



Website: WWW.AAPTP.US