2023 Annual Tri-Service and Industry Review Meeting

AIRFIELD ASPHALT USER/PRODUCER GROUP

Location: Walter E. Washington Convention Center

Room 141

WebEx:

https://usace1.webex.com/usace1/j.php?MTID=mc73f66a87c89886078e0d340f567340a

Date: Tuesday, January 10, 2023

Time: 1:00 PM (1300) to 5:00 PM (1700) – All Times are Eastern Time (ET).

AGENDA

1:00pm-1:10pm Welcome: Dr. Mark Buncher, Co-Chairman, Asphalt Institute

Mr. Matthew Hoyle, Co-Chairman, USACE-TSC

1:10pm-1:30pm **DoD Agency Discussions**

1:30pm-2:00pm Airfield Asphalt Pavement Technology Program (AAPTP) Update and other

FAA Updates

Mr. Jeff Crislip, Sr. Civil Engineer - Pavement, FAA

Federal Aviation Administration-HQ will provide industry an update to the AAPTP

as well as other FAA initiatives.

2:00pm-2:30pm Airfield Perspectives on the MSCR Asphalt Binder Grading System

Dr. Benjamin Cox, Senior Research Engineer, USACE-Engineering Research

and Development Center (ERDC)

This presentation will address three key questions regarding the ASTM D8239 (AASHTO M332) MSCR grading system: (1) what is it, (2) who is using it, and (3) how might it impact the airfield paving community? A breakdown of the MSCR system will be discussed alongside its distinct differences from the current ASTM D6373 (AASHTO M320) PG grading system. Side-by-side PG and MSCR grading results will be presented for a wide range of binder grades including those used in previous airfield projects. Considerations for using the MSCR system in airfield paving specifications will also be discussed.

2:30pm-3:00pm

Origin and Performance History of the FAA P-404 (old P-601) and UFGS 32 12

17.19

Mr. Ron Corun, Principal, Ron Corun Consulting, LLC

This presentation will detail the origins of the FAA P-404 Fuel Resistant Asphalt Mix specification and the UFGS 32 12 17.19 Fuel Resistant Asphalt Paving for Airfields – Surface Course. Details of the specification and reasons for modifying the P-401 and UFGS 32 12 15.13 specifications are discussed. It will present

laboratory test results and FAA field performance from multiple projects, including both the 9.5mm P-404 asphalt mixture and the 12.5mm P-404 asphalt mixture.

3:00pm-3:15pm **Break**

3:15pm-4:00pm Repair Runway Pavements, Ascension AAF, British Overseas Territory: Challenges of Working in Remote Locations

Mr. Gordon Simmons, P.E., Military Program Leader and Project Manager; Mr. Brian Nazarian, Senior Consultant and Assistant PM; Mark Lewis, PMP, Construction Quality Assurance Lead Inspector; David Elliott, LEED AP, Senior Aviation Field Representative, RS&H

This presentation will provide an overview of the full depth runway replacement for the 10000 ft. runway located on Wideawake Airfield, Ascension Island, British Overseas Territory of Saint Helena, Ascension, and Tristan da Cunha. This project included milling of existing asphalt, removal of all base and subbase materials, reshaping of subgrade to alleviate some of the longitudinal and transverse deviations from UFC criteria, widening of the shoulders, drainage improvements, and new airfield lighting. The presentation will focus on unique considerations for execution and quality control at remote locations to include lessons learned and considerations for future similar projects related to logistical challenges, contractual challenges, and technical challenges.

4:00pm-4:10pm

Unified Facilities Guide Specification (UFGS) Updates:

Mr. Matthew Hoyle, Materials Engineer, Transportation Systems Center

Fiscal Year 2021

Contract (Expected Publication – May 2023):

- UFGS 32 01 13.62 Asphalt Surface Treatment
- UFGS 32 01 13.64 Bituminous Pavement Liquid Rejuvenating
- UFGS 32 12 63.13 Asphalt Seal and Fog Coat

In-House (Expected Publication – Nov 2022 & May 2023):

- UFGS 32 01 13.63 Gilsonite Modified Asphalt Emulsion Seal Coat
- UFGS 32 01 16.71 Cold Milling Asphalt Paving (Published Nov 2022)
- UFGS 32 12 13 Bituminous Tack and Prime Coat

Fiscal Year 2022:

In-House (Expected Publication – TBD):

- UFGS 32 12 15.16: Stone Matrix Asphalt (SMA) for Airfield Pavements
- UFGS 32 01 16.75: Heater Scarifying of Asphalt Paving

Fiscal Year 2023:

In-House or Contract TBD (Expected Publication – TBD):

- UFGS 32 01 16.70: Cold-Mix Reused Asphalt Paving
- UFGS 32 01 16.74: In-place Hot Reused Asphalt Paving
- UFGS 32 12 16.19: Cold-Mix Asphalt Paving
- UFGS 32 12 17.19: Fuel Resistant Asphalt Paving for Airfields Surface Course

4:10pm-4:45pm Airfield Asphalt Certification Program (AACP) Update & UFGS 32 12 15.13

Change 1 Summary

Mr. Matthew Hoyle, Materials Engineer, Transportation Systems Center

Presentation will provide an overview of the AACP as well as summary of UFGS~32

12 15.13 Change 1 updates that were published in May 2022.

4:45pm-5:00pm Final Comments/Open Discussion