Long Life Asphalt Pavement

LLAP

Neal Fannin
LLAP Current Features

• Written as a series of special provisions.
  – Overlay projects
  – Structural overlay projects
  – Full depth reconstruction

• Will only be used on interstate or interstate look alike projects initially.
• Wearing Course
  – SMA only
  – Tack all layers
  – 2% density incentive possible.
  – DCT and Hamburg Wheel track test required as performance testing.

• Binder Course
  – PWT acceptance includes incentive /disincentive.
  – Tack all layers
  – MTV required
  – DCT and Hamburg Wheel track test required as performance testing.
LLAP Current Features

• Base Course
  – Tack all layers
  – PWT acceptance includes incentive /disincentive.
  – DCT and Hamburg Wheel track test required as performance testing.

• Asphalt Rich Base Course
  – PWT acceptance includes incentive /disincentive.
  – Tack all layers
  – Design at 3% voids
  – Design 1 gyration level lower than other courses.
LLAP Current Features

• Ride incentive will be required.

• Joint incentive / disincentive will be required.
• Disk-Shaped Compact Tension (DCT) testing.
  – Measures fracture energy
  – Samples fabricated from gyratory samples or cores.
  – Test run at 100 F (-120 C)
  – Fracture energy requirements vary depending on mix type (SMA) and layer (wearing, binder)
• Hamburg Wheel Tacking Test.
  − Measures rutting potential
  − Samples fabricated from gyratory samples or cores.
  − Test run at $131^0 F \ 45^0 C$
  − Required cycles and rut depth limits vary depending on mix type (SMA) and layer (wearing, binder)
Items not included in LLAP

- Intelligent compaction.
Questions?