

Proposals and Task Groups

National Concrete Pavement
Technology Center



Aim

- Make States aware of TPF requests
 - Current
 - Coming
- Discuss new task groups under NC2



TPF Requests

- 1324 - Specifications and Tolerances for PCCP Tie Bar Placement (SD)
 - \$25K per year, 1 State on board
- 1329 - Next Generation Concrete Pavement Road Map (IA)
 - \$15K per year, 5years, 4 States on board
- 1338 - Improving Specifications to Resist Frost Damage in Modern Concrete Mixtures (OK)
 - \$17.5K per year, 2 States on board



Pooled Fund 1338

Lead state – Oklahoma

FHWA contact – Rich Meininger

Research Team – Tyler Ley (OSU),
Jason Weiss (Purdue), Peter Taylor
(ISU)

Proposed Tasks

A – Further validation of the SAM with laboratory and field mixtures

B – Validation of the SAM by other labs

C – Determine adequate air void system parameters for concrete exposed to deicing salts

D – Investigate the mechanisms of frost durability with the μ CT scanner

Proposed Tasks

E – Impact of air quality and volume on the absorption and desorption

F – Determine how the degree of saturation impacts frost damage

G – Quantify the rate of damage during different freezing events

Deliverables

1. Validation and delivery of the SAM
2. Improved specifications for frost durability of concrete with and without deicing solutions
3. Improved freeze thaw test for frost durability
4. Development of a streaming lecture series over frost damage

Pooled Fund Project

- We are looking for \$17.5K per year for three years per state
- Oklahoma, Minnesota, and Kansas have joined.
- We need 7 more states
- W.R. Grace, American Testing have agreed to donate in kind services
- FHWA says that with “enough” support then they will join

How can this group help?

- I want to start developing a standard test method
- I need field data
- I need other labs to help validate the meter and develop a precision and bias statement
- I need input on where to head next
- I need more groups to join the pooled fund

Impending Requests

- Durability – As discussed Tuesday
- Joints – Extend the project, look at sealants
- Data storage - Tyson



Task Groups

- Current
 - Cement
 - Dowel cage tolerances
 - Durability
- New?
 - DBI tolerances

