Quality Assurance

Illinois Asphalt Pavement Association
March 2010
Outline

• Federal requirements
• Current events
• Plan of action
• Quiz
Definitions

- Quality Assurance
- PFP – Pay for Performance
- Verification
23 CFR 637

- Quality assurance regulation
- QC/QA and regulatory requirements
- Allows contractor testing in acceptance
- With strings ...
Verification

• Verification validates final product quality

• Verification must be controlled by state
  – Sample selected by state
  – Sampled by or under direct observation of state
  – Sample retained by state
  – Tested by state
Verification

• Verification
  – 23CFR637.205(d)
  – 23CFR637.207(1)(ii)(B)
  – Para 9 of TA 6120.3
  – FHWA response to comments on regulation

• All samples random
  – 23CFR637.205(e)
Mix Verification in Illinois

- Standard Spec 1030.05 (e)
- Random plant mix sample
- Observed twice per month
- Immediately retained by Engineer
- Tested by Engineer
Ratings of State QA Systems

- States colored green represent Advanced ratings.
- States colored yellow represent Intermediate ratings.
- States colored orange represent Opportunity ratings.

- Guam is colored green.
- PR, HI, and VI are not colored according to the ratings.
ARRA NRT Reviews

• Random sample procedure not followed
• Random sample procedure forgotten

• Verification not independent
• Not in conformance with regulation
FHWA Resource Center Review

- Address QA survey
- Twice as many compliments
- Verification not controlled by state
2010

- FHWA business plan
- Quality assurance focus
- Emphasis on verification
- Other agencies - OIG
Action Required

- Lots of alternatives
- Action required
- Remove doubt
Plan to Address FHWA Concerns

- Relies on Pay for Performance (PFP)
- Staged implementation over several years
- Feb 11, 2010 Memo to Districts
Why PFP

- Fully complies with FHWA regulations
- Twenty-eight states similar approach
- State tests
- PFP will improve HMA quality
Implementation Plan

- **2010** - One Interstate > 8000 tons per district
- **2011** - 50% of all Interstate > 8000 tons
- **2012** - 100% of all Interstate > 8000 tons
- **2013** - 50% of all projects > 4000 tons
- **2014** - 100% of all projects > 4000 tons
- **2015** - mat sampling and < 4000 tons
PFP

- State - specifies and measures
- Contractor - quality will be competitive advantage
- Improve HMA quality
QC/QA

• Training and labs backbone

• Still used for projects other than PFP

• QC/QA possible basis for < 4000 tons
Truck Sample?
Kansas
Industry

• Part of the team
Quiz

The problem with QC/QA is:
   a. Nobody can remember if it's QA/QC or QC/QA
   b. It does not include sufficient verification

A verification sample is one that is:
   a. Certified by Dewey Cheatem and Howe
   b. Handed to the state by the contractor
   b. Taken by or under control of the owner

PFP will cost more? – T or F
Core Dry