

An aerial photograph of a multi-lane highway with traffic. The road is divided into several lanes, and several cars are visible driving on it. The background shows a line of trees and a hazy sky. The text is overlaid on the center of the image.

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

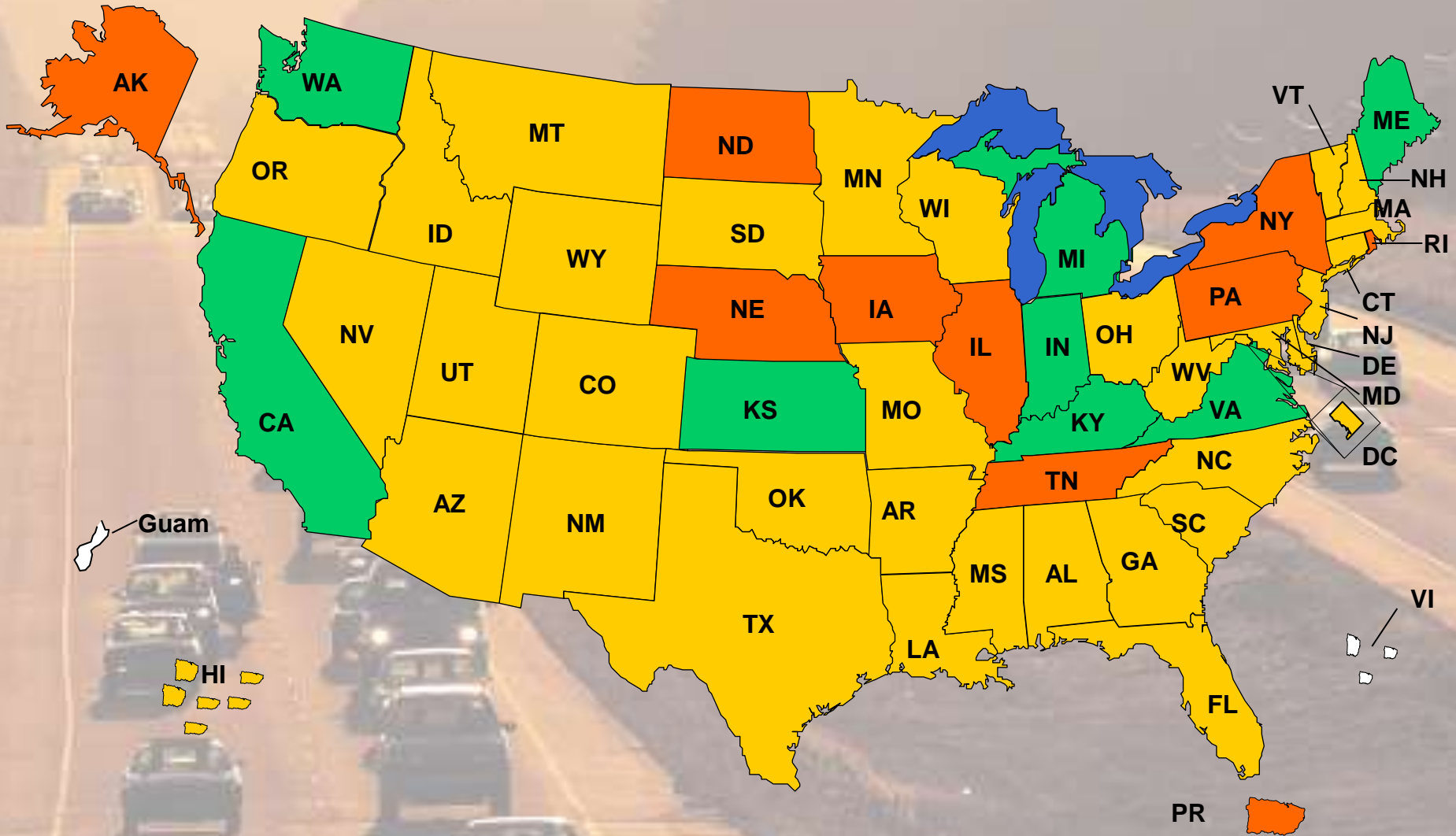
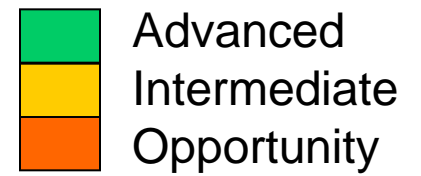
- Standard Spec 1030.05 (e)
- Random plant mix sample
- Observed twice per month
- Immediately retained by Engineer
- Tested by Engineer

2009





Ratings of State QA Systems



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



Trials



*Courtesy
Monte Vista Historical Society*

Industry

- Part of the team



Quiz

The problem with QC/QA is:

- a. Nobody can remember if its 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

Questions





Core Dry



(Patent Pending)
ASTM D7227