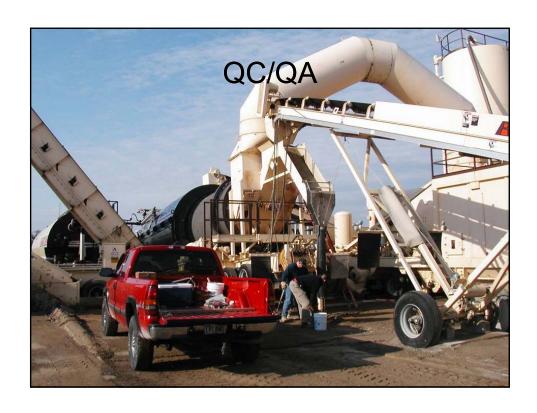


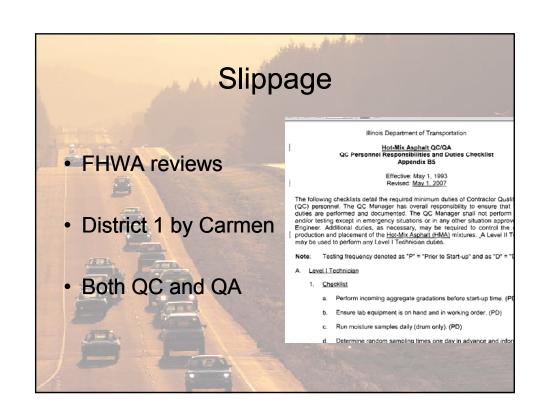
Quality Assurance

- Owner action to assure quality of product
- Contractor quality control
- Owner quality assurance
- Low bid system rewards lowest cost

Federal Requirements for Quality Assurance

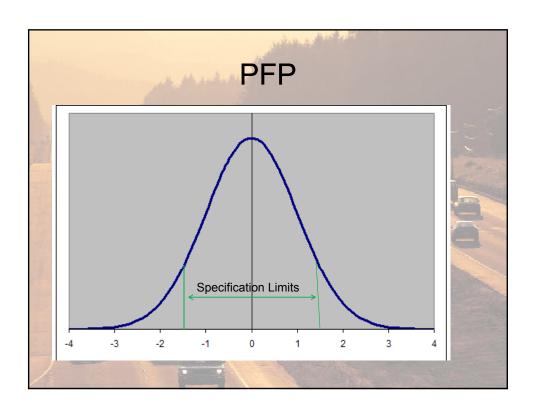
- 23CFR637 requires QA program
- Specific requirements
 - Qualified technicians
 - Qualified labs
 - Verification

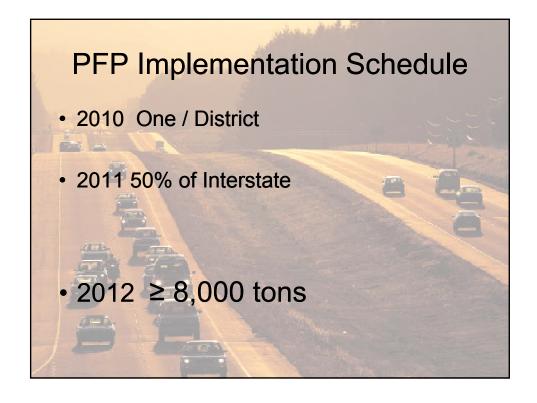


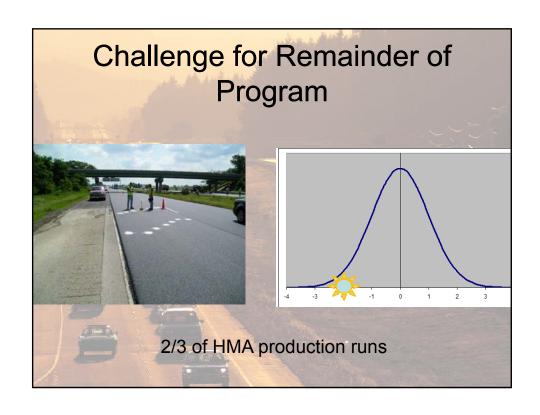


Plan to Address FHWA Concerns

- Relies on Pay for Performance (PFP)
- For projects over 8000 tons
- Staged implementation over several years
- Memo to Districts Feb 11, 2010







Alternatives

- 1. QC/QA
- 2. PFP down to 4000 tons
- 3. Plant certification
- 4. QC/QA + (D-5 version)
- 5. Step based pay w/incentive
- 6. Method spec
- 7. Missouri
- 8. Indiana

Quality Control for Performance QCP

- QC/QA operation
- Builds on existing system in Illinois

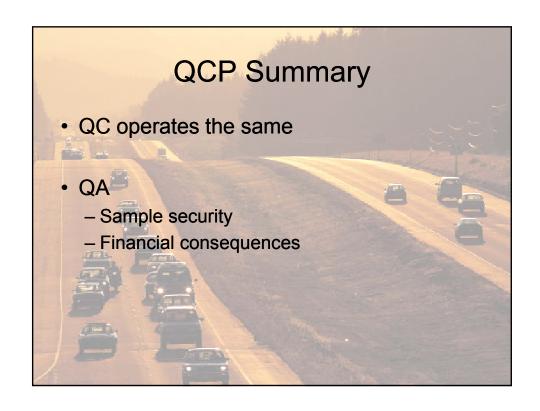
QCP Components

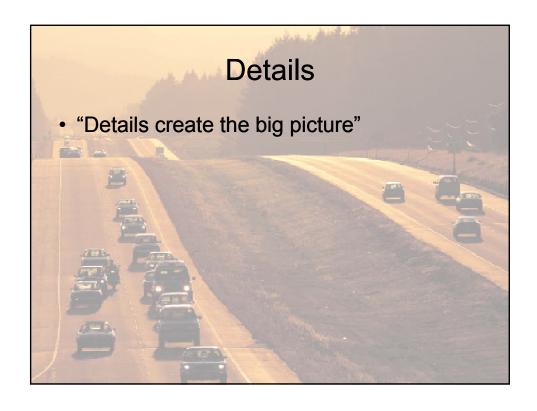
- Mixture
- Secured samples
 - QC test / 1000 tons (sublot)
 - QA test / 4000 tons (lot)
- Density
 - State cores every .2 miles (sublot)

Mixture QC Operation

- If QC good, keep going
- If QC bad, check or adjust mix production

Mixture QA • If QA good - compares and in spec - Then no further action • If test QA bad - Non compare or outside spec - Then check all samples and payment table

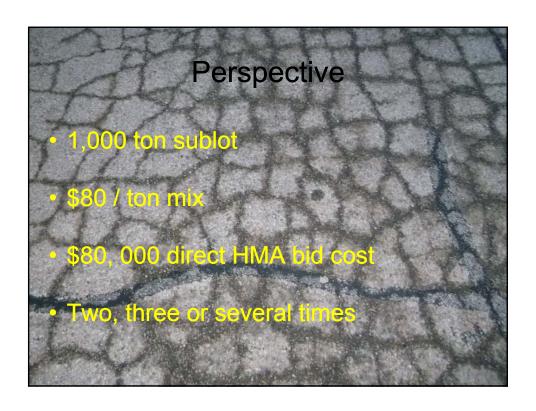




















Local Agency FA Program FY 2011

- FA program 1.5 billion
- 650 Projects
- 50% funding through local agencies

Federal Aid Local Agency Oversight

- FA program administered through state
- Control document procedures and specs, and
- Periodic processes and product reviews



Oversight Agreement

- "IDOT will oversee the design and construction of the projects."
- "On federally funded projects where a local unit of government has the lead, IDOT will be involved with these projects to ensure requirements are met."
- "IDOT retains responsibility for the appropriate use of Federal funds.

Local Agency HMA Guidance

- Section 700 Project Procedures Guide
 - Requires same procedures on LA projects
 - Does not distinguish between MFT and FA
- 12/1/2000 Memo on LA HMA QC/QA 00-11
 - Mixture test and plant support by IDOT

Local Agency Practice

- Many local agencies provide field inspection and density testing
- Most districts provide testing and plant monitoring support
- Some districts considering dropping testing support

HMA – Mixture Testing & Monitoring

- Lab requires expensive equipment
- Requires trained experienced technician



Consultant QA Testing

- BMPR 6-08.0: Qualified private labs
- "Minimum requirements for prequalification"
- Requires AASHTO Accredited lab AMRL

Consultant HMA Testing

- District One the most experience
- Thirteen accredited labs
- One downstate
- Independent evaluation program
- · Use consultant technicians in state lab

Local Agency Conclusion

- IDOT is responsible for oversight
- Existing requirements rely on IDOT mixture and plant support for Federal-aid projects
- For those districts looking for assistance, consider all options

Summary

- Quality assurance depends on us
- We will get what we measure
- New age HMA QA components and origin
 - PFP and QCP
- Local agency requirements
 - Requires plant and lab support by IDOT

