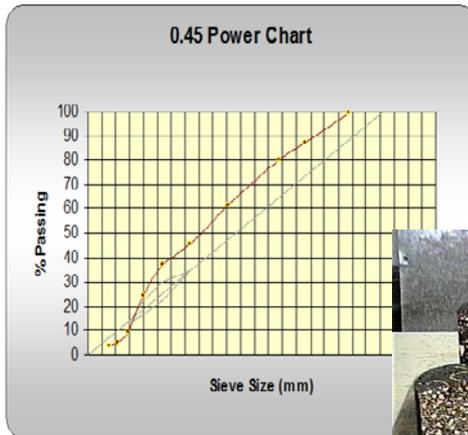




# WisDOT IA Program Annual Meeting



Asphaltic Mixtures and Mix Design  
*December 9<sup>th</sup> & 10<sup>th</sup>, 2014*  
*Wisconsin Dells, WI*



Judie Ryan  
BTS Materials Lab



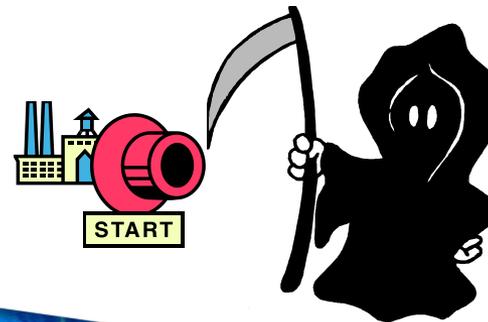
# Three Topical Updates

QV Failure Notification Process



2014 Mix FAQs

Mix Design Life



# QV Failure Process

## ▶ Six basic steps

1. Mixture Quality Failure (ss460.2.8.3)
2. Split Sample Comparison Testing
  - QV-ret
  - QC-ret Forward and Backward of QV point
3. Additional QV Sample (new quality window)
4. Analysis of Comparison Results (CMM 8-36)
5. Report Completion (MTS 254-record)
6. Recommendation for price impact (CMM 8-36)



# 7<sup>th</sup> Step: QV Failure Notification

- ▶ Notification of Failure (...and to whom)
- ▶ Email (preferred) or Phone Call
- ▶ Information:
  - Email Subject Line: **HMA QV Failure 7-254-88-14**
  - QV Failure at Sample X-X (+, -, v)
  - QV-ret (Y/N?) and QC-ret X-X (Y/N?) ... or QC-ret X-Y
  - How Delivered (DOT truck, Fed-Ex, in-person, etc.)



**Note:** Only 2 samples (max) need to be sent per QV failure



# 2014 Mix FAQs List

- ▶ Mix Design Life
- ▶ Testing Variability
- ▶ Equipment (set-up, function)
- ▶ ASP Changes
- ▶ Mixture and Compaction Temps
- ▶ Change in RAP extracted %AC
- ▶ Change in Agg Gsb over years
- ▶ Reheat Factors



# Mix FAQs

- ▶ Compilation of Q & A
- ▶ Weekly Email (eventual LAN or Web App)
  
- ▶ Proposed Categories (?)
  - Standard Specifications
  - CMM Guidance
  - Test Procedures and Equipment
  - HMA Materials-Technical



# Mix Design Life

- ▶ Top FAQ Category
- ▶ Issues:
  - Specification Compliance
  - Aggregate Source Checking
  - Perpetual Testing
  - Continual Tracking
  - Annual Transitions (information, software, personnel, etc)



2014 was ..... Ahhhhh ..... Ummmmmm .....

# Mix Design Life in 2014 was ...\*

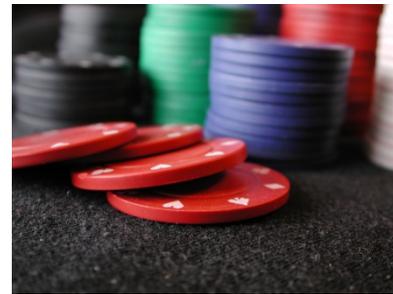
- ▶ Challenging
- ▶ Inefficient
- ▶ Painful
- ▶ Confusing
- ▶ Annoying
- ▶ Hell-ish
- ▶ Difficult
- ▶ Unclear
- ▶ Time Consuming
- ▶ Resource Heavy
- ▶ Uneventful
- ▶ Tricky(er)
- ▶ Brutal
- ▶ Overwhelming

\* Comments by Dept and Industry



# Mix Design Life in 2015

- ▶ How can we create a win-win scenario for all



# Mix Design Life in 2015

- ▶ Small Group - Concerns meeting (11/4)
- ▶ HMA Tech Team Agenda Item (11/11)
- ▶ Mix Design Task Force assembled (11/24 & 25\*)
- ▶ HMA Tech Team meeting update (12/8)



# Mix Design Life Vision



- ▶ Vision: Approved List
- ▶ Function: like the Aggregate Source Quality List
  - Web Accessible
  - Weekly updates
  - PDF format for search ease (i.e. mobile phone)
- ▶ Tasks
  - Define the Filters for Basis of the List (Dec-2014)
  - Create the 2015 Basic List (mid Jan-2015)
  - Identify Process to get on the List (early Feb-2015)



# Next steps

- ▶ MD Chart
- ▶ MD Spreadsheet
  
- ▶ Standardized format for detail submittal



# Questions?



- ▶ QV Failure Notification Process
- ▶ 2014 Mix FAQs
- ▶ Mix Design Life



It's **QUESTION TIME !!**

