


# *Midwestern States In-Place Recycling Conference*

**Bloomington, Minnesota  
August 11-13, 2009**



U.S. Department of Transportation  
**Federal Highway Administration**



How does Industry ensure that the right project is selected and constructed?

What kind of QC/QA is used to ensure the right project?

QC= Contractor    QA= Agency

Role Reversing

QC= Agency      QA= Contractor





# Outline

- **Project Selection**
- **Specifications**
- **Quality Assurance**
- **Demo Project**

# Project Selection

*Right Method - Right Road - Right Time*

- **Good Communication and Education**
  - Continuing Education



# Project Selection

## Right Method - Right Road - Right Time

- Do the homework before the test  
Know what you have to work with





# Project Selection

***“When We Fail to Plan, We Plan to Fail”***

- Partnering
  - Soils Engineer
  - Contractor
  - Supplier
- Pre-bid meeting
- Post job meeting





# Lessons from the past

*It's not the process that fails.*

*"I'll guarantee it"*

***A few jobs that stand out over  
the last 10 years.***

# Past Projects

What did we learn

- **Selecting the right process**
- **Mix designs have evolved from the developmental stages**

Let's look at one of these jobs  
Cold in Place Recycling



# Sacred Ground



# Challenging Corners





# Sub grade issues





# Not the best Choice



# Needed a little help





# Not a Silk Purse







# Specifications

- Method Specifications
  - Equipment
    - » And or approved method
    - » Know the limitations
    - » No incentive to get better
- Performance Based
  - Mix design
  - End result
  - Accountability
- Ride Specification
  - Incentive goes to the Prime

# Midstate's 1st Train





# What did we learn





# What did we learn



Windrow has to be even

# Uniform windrows





# Lead to positive results





# Great Idea – at the time



“No floating screed allowed”

# Same Idea – Great Machine

with some limitations





# Evaluations

Form 800-020-001  
03/03



## Iowa Department of Transportation CONTRACTOR EVALUATION REPORT

County Webster Project Engineer Randy Webb  
 Project No. STP-5-C094(77)-5F-04 Contract No. 94-C094-077  
 Prime Contractor Port Dodge Asphalt Co., Inc. Prime Contract Amount \$ 1,785,315.12  
 Subcontractor Mid State Reclamation & Trucking Subcontract Amount \$ 389,426.20  
 Address 27055 Gersbach Ave., Lakeview, MN  
 Type of Work Being Rated Cold-in-Place Recycling Construction Year 2009

The Contractor Evaluation Report is to be completed on every bridge paving contract and every other contract or subcontract amounting to \$20,000.00 or more. For contracts or subcontracts less than \$20,000.00 the project engineer has the option of completing or not completing the form.

When the report covers a prime contractor the name is entered in designated space. The space for the subcontractor is left blank. When the report covers a subcontractor both the prime and subcontractor's names are entered in the designated spaces and the subcontractor's address is completed.

ORGANIZATION MANAGEMENT: 30%	Rating	Point Range
A. Superintendent in charge with authority.	5	0-5
B. Coordination with suppliers, other contractors and utilities.	5	0-5
C. Adequate and competent labor force.	5	0-5
D. Processing paperwork.	5	0-5
E. Attitude and cooperation.	10	0-10
WORK PERFORMANCE: 40%		
F. Completion on schedule.	20	0-20
G. Compliance of work.	10	0-10
H. Quality of the finished product.	10	0-10
SAFETY PRACTICES: 15%		
I. Administration and general project safety.	5	0-5
J. Signing and traffic control.	10	0-10
EQUIPMENT: 10%		
K. Equipment on the project.	10	0-10
<b>Total</b>	<b>100</b>	<b>0-100</b>

*\*Instructions for completing form on back*

Remarks:



Contractor sets copy July 29, 2009

Randy Webb  
 Signature of Project Engineer

July 29, 2009  
 Date Submitted by Project Engineer

Signature of District Construction Engineer

Signature of Construction Engineer



# Quality Assurance- Midstate

- Manage expectations
- Quality & ride are number one
- Superintendents never see the bid sheet
- Passionate operators
  - They need to believe in what they do
- Adversity- how do you handle your problems
- Looking for ways to improve our equipment & quality/ride



# Profiling off String line - with slope



# Traveling ski

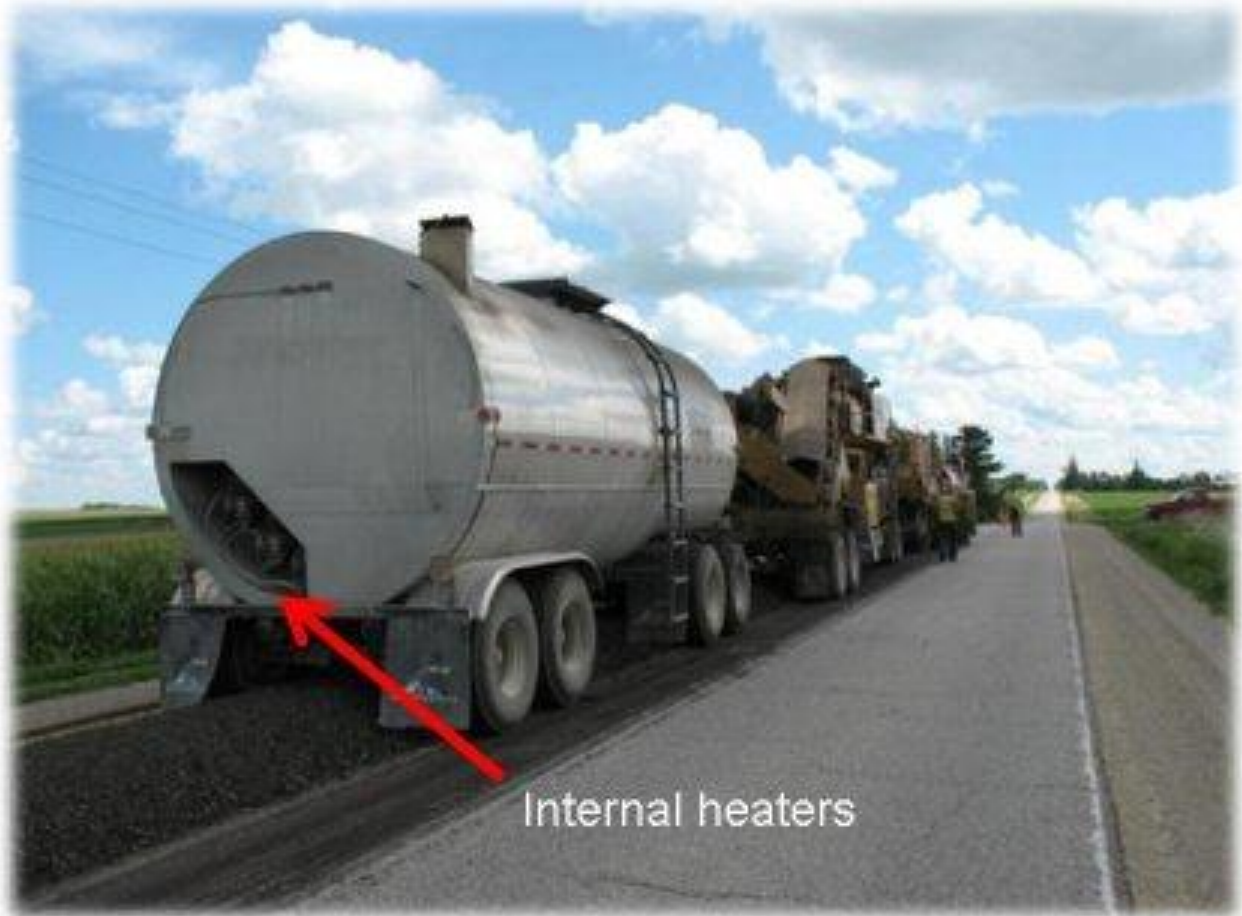




# Traveling ski w/ slope



# Equipment – Foamed Asphalt Forward looking





# Equipment for foam



Closed loop system

# New Technology- Ozzie







# DISCUSSION



## Demo Project

- Washington County 71 (Neal Ave)
- 3.96 miles CIR with CSS-1(Original)
- 3.46 miles CSS-1 North bound lane
- 3.46 miles PG 46-34 South bound lane
- .5 miles fly ash stabilization
  - 8" @ 8% fly ash
- 1.5" Type MV3 Non-wearing course
- 2" Type MV3 Wearing course



# County Road 71



# CIR Train- Foam





# Unloading fly ash



# Adding water for Hydration

