Virginia Asphalt Association

2018
Richmond, Virginia
Your Presenter: Tom Glasheen

- Colony Construction, Inc.
- Roadway Maintenance and operation for nearly 40 years with safety involvement
  - 17 years Municipal and Government
  - 20 years Private Asset Management Contracts
  - 3-4 years Construction
Safety Presentation

- Building Safety in Asphalt Plants
  - Daily Production
  - Routine Maintenance
  - Seasonal Maintenance
  - Reconditioning and Rehabilitation
How Safety Works
(according to Tom)

Teach it - Through education of applied common sense, OSHA re-enforcements, and hazard recognition.

Preach it – Every day, every moment using past mishaps as learning tools for prevention.

Live it – Set the example from the top down, wear it, and demonstrate it, every day.

Make it fun

Show the rewards

Be the wall, or the hammer, whatever it takes to make it known.

Better safe than not
The Colony Beginning
(for Me)

- Fall 2017 - Introduction
  - Watch and learn program and routines, and maybe some names (160 folks).
  - Observing while visiting jobs and touring the asphalt plants.

- Winter 2018 - Begin Action Development
  - OSHA-30 Training
  - Pushing knowledge and application
The Colony Beginning 
(for Me) Continued

- Spring 2018 - Training continues
  - VDOT Work Zone Traffic Control
    - Intermediate for all Foreman
    - Flagger for all pave/mill crew members

- Season Start up - Set expectations
  - Follow through…..Drive it home!
Back to the Asphalt Plant

- Shut down scheduled for the week preceding Christmas 2017
- Major rehab planned
  - Drum replacement
  - New Conveyors
  - Including lots of disconnects, drainage lines, etc.
The Plant

- Safety Discussions:
  - ✓ Lock out / tag out
  - ✓ Working at heights
  - ✓ Fall protection
  - ✓ Fork lifts
  - ✓ Personnel Lifts
  - ✓ Cranes
  - ✓ Rigging
  - ✓ Communications
  - ✓ Silica
Integrity of Safe Operations

Evaluating lift points

And potential failures
Safe and Efficient Operations

- Man Baskets
  - Engineered
  - Tested
  - Approved
  - Certified

Did I say something about communications?
Two way radio’s and spotters were used.
Double the risk Double the Safety
Had to bring it……
Up, Around, & Down
Then again with the drum
The devil is in the details

- Rebuilding
  - All pieces and parts

- Cleaning up the pads
  - To ensure level contact and secure placement

- Conveyors
  - New Flights
Staging is important

- To ensure clearances for next steps, loads coming in and going out.
- While some work was going on adjacent parts and pieces

*Did I say anything about weather?*
*Cold and wet, but no snow.*
Hey Jimmy,
Did you get the right size, this one looks bigger?

It should fit......
It was a **tight** fit!

- Communications
  - Signals
  - Radio’s
  - Eye contact
  - Yelling
  - And of course, talking through each step with the team.
Final Adjustments

- Reset conveyors and all connections
- Minor field adjustments
Silica

- General Industry
  - Standards released and enforced June 2018
  - Protection required unless proven exposure below Action Level

- During winter work
  - Core group was provided respiratory training.
  - Including medical evaluation and FIT tests.
  - Plant employee’s were trained, and protected with full face respiratory protection.
Beginning spring season 2018, we invited VOSH to our Powhatan plant during operations along with an Industrial Hygienist to take air samples.

- Several meetings with plant personnel in preparation for upcoming VOSH visit
- Set calendar and scheduled advance preparations for courteous and welcome environment
- Conversations regarding an understanding of involvement to minimize potential negative impact on plant operations.
Silica Outcome

- VOSH arrival welcomed by team. Introductions were made and included team roles and responsibilities.
- Team members: plant operator, loader operator, ground man, and water truck driver. All outfitted with monitors (air pumps).
- Two areas monitored: Aggregate bins and Baghouse.
# VOSH Silica Results

<table>
<thead>
<tr>
<th>Monitoring</th>
<th>Action level2</th>
<th>PEL3</th>
<th>TWA8hr4</th>
<th>Overexposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loader operator</td>
<td>25 ᵃg/M3</td>
<td>50 ᵃg/M3</td>
<td>&lt; 12 ᵃg/M3</td>
<td>No</td>
</tr>
<tr>
<td>Ground man</td>
<td>25 ᵃg/M3</td>
<td>50 ᵃg/M3</td>
<td>&lt; 12 ᵃg/M3</td>
<td>No</td>
</tr>
<tr>
<td>Water truck op</td>
<td>25 ᵃg/M3</td>
<td>50 ᵃg/M3</td>
<td>&lt; 11 ᵃg/M3</td>
<td>No</td>
</tr>
<tr>
<td>Plant Operator</td>
<td>25 ᵃg/M3</td>
<td>50 ᵃg/M3</td>
<td>&lt; 11 ᵃg/M3</td>
<td>No</td>
</tr>
<tr>
<td>Aggregate bins</td>
<td>25 ᵃg/M3</td>
<td>50 ᵃg/M3</td>
<td>&lt; 12 ᵃg/M3</td>
<td>No</td>
</tr>
<tr>
<td>Baghouse</td>
<td>25 ᵃg/M3</td>
<td>50 ᵃg/M3</td>
<td>&lt; 13 ᵃg/M3</td>
<td>No</td>
</tr>
</tbody>
</table>

A reading of “less than” (<) indicates the result was lower than the detection limit of the instrument. This type of result may also be called “not detected,” “ND,” or sometimes is reported as “zero.”
The Standard

Exposures Below 25 g/M3 Under Any Foreseeable Conditions

Exposure that does not exceed 25 g/M3 averaged over an 8-hour day under any foreseeable conditions are excluded from the standard. Employers must have objective data demonstrating employee exposure to respirable crystalline silica associated with a particular product or material or a specific process, task, or activity will remain below this level. When using the phrase “any foreseeable conditions” OSHA is referring to situations that can reasonably be anticipated. OSHA considers failure of engineering controls to be a situation that is reasonably foreseeable. It is foreseeable that controls could breakdown and lead to over exposures. Although engineering controls are usually a reliable means for controlling employee exposures, equipment does occasionally fail. Thus, the standard applies where exposures below 25 g/M3 as an 8-hour TWA are expected or achieved, but only because engineering controls are being used to limit exposures.
Thank You for your continued support of Safety

Any Questions?
Our New Slogan

COLONY CONSTRUCTION INC.

SAFELY PAVING the way