Virginia Transportation Construction Alliance
Aggregates Safety Seminar
December 5, 2018

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Office of the Assistant Secretary
U.S. Department of Labor
Mine Safety and Health Administration
The MSHA Mission

“to prevent death, illness, and injury from mining and promote safe and healthful workplaces for U.S. miners”
MSHA’s Tools

• Fair and consistent enforcement - mandated inspections (2s and 4s) are core responsibility
• Education and Training
• Compliance and Technical Assistance
• Technological Innovation – working with operators and manufacturers
Regulatory Update

- Examinations of Working Places in Metal and Nonmetal Mines
- Exposure of Underground Miners to Diesel Exhaust
- Retrospective Review of the Coal Dust Rule
- Regulatory Reform of Existing Standards and Regulations
Agency Priorities

• Fulfill the requirements of the Mine Act
• Work with all stakeholders to improve safety and health in the mining industry
• Seek out and encourage adoption of new safety & health technology
Long Term Programs

• Scofflaw Program

• “One MSHA” Initiative
Health

- Dust – Silica (Quartz)
- Diesel Particulate
- Chemicals
Active* MNM Mines in Virginia by County

* Mines in active, non-producing active, and intermittent status as of 11/26/2018
## MNM at a Glance
### Virginia vs. Nation (2017 and 2018 Q1-Q3)

<table>
<thead>
<tr>
<th></th>
<th>Virginia 2017</th>
<th>Virginia 2018 Q1-Q3</th>
<th>Nation 2017</th>
<th>Nation 2018 Q1-Q3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mines Reporting Employment*</td>
<td>178</td>
<td>174</td>
<td>11,893</td>
<td>11,618</td>
</tr>
<tr>
<td>Total Operator Employment*</td>
<td>3,254</td>
<td>3,086</td>
<td>168,228</td>
<td>171,116</td>
</tr>
<tr>
<td>-Surface Mines</td>
<td>2,840</td>
<td>2,670</td>
<td>127,304</td>
<td>129,525</td>
</tr>
<tr>
<td>-Facility Mines</td>
<td>315</td>
<td>320</td>
<td>22,208</td>
<td>22,500</td>
</tr>
<tr>
<td>-Underground Mines</td>
<td>99</td>
<td>96</td>
<td>18,716</td>
<td>19,091</td>
</tr>
<tr>
<td>MSHA Inspections Completed**</td>
<td>282</td>
<td>241</td>
<td>16,902</td>
<td>12,476</td>
</tr>
<tr>
<td>Citations &amp; Orders Issued</td>
<td>765</td>
<td>500</td>
<td>57,872</td>
<td>40,112</td>
</tr>
<tr>
<td>Proposed Dollars Assessed</td>
<td>$227k</td>
<td>$224k</td>
<td>$27.9M</td>
<td>$17.8M</td>
</tr>
</tbody>
</table>

*Operator employment only, contractor employment is excluded

**E01 - Regular Health and Safety Inspections only.
Employment* by Virginia MNM Industry (2017)

- **Aggregates**: 2207
- **Other**: 283
- **Lime**: 261
- **Cement**: 142
- **Clay, Ceramic, Refractory Mnls.**: 219
- **Kyanite**: 142

*Operator Employment Only*
Virginia Mines by Size*(2017)

- 1-5 Employees: 31%
- 6-20 Employees: 41%
- 21-50 Employees: 24%
- 51+ Employees: 3%

*M Operator employment
Operator All Injury Rates – Virginia vs Nation

**MNM**

- Virginai vs Nation
  - 2014: 2.61 vs 2.29
  - 2015: 2.31 vs 2.15
  - 2016: 2.74 vs 2.05
  - 2017: 2.08 vs 1.89
  - 2018 Q1-Q3: 2.24 vs 1.87

**Aggregates**

- Virginai vs Nation
  - 2014: 2.86 vs 2.08
  - 2015: 2.00 vs 1.65
  - 2016: 1.98 vs 1.95
  - 2017: 1.80 vs 1.75
  - 2018 Q1-Q3: 1.75 vs 1.44
Distribution of Reportable Injuries in Virginia – by Mining Experience (2017)
Citations and Orders Issued in Virginia

![Bar chart showing citations and orders issued in Virginia from 2014 to 2018 Q1-Q3. The chart compares citations issued for MNM (blue bars) and Aggregates (orange bars). The numbers of citations vary each year, with a peak in 2015 for MNM and a peak in 2016 for Aggregates.](chart.png)
Virginia Top 5 Accident Classifications (MNM) Operators and Contractors (Last 4 Quarters)

74% of accidents = Top 2
Virginia Top 5 Accident Classifications (Aggregates) Operators and Contractors (Last 4 Quarters)

- Slip or Fall of Person: 81% of accidents
- Handling of Materials: 75% of accidents
- Handtools (Nonpowered)
- Machinery
- Powered Haulage
- Stepping or Kneeling on Object

75% of accidents = Top 2
Powered Haulage Safety Initiative

• Powered Haulage classification: 50% of fatalities in 2017; more than 50% of fatalities so far in 2018
• New MSHA initiative to reduce powered haulage accidents
• Focus on large equipment and belt conveyors
• Outreach, training, collaboration with operators and miners
• Seeking input from all stakeholders
Seat Belt Safety

• Three fatalities in 2017, and 35 fatalities since 2007, involved miners not wearing seat belts

• 6000+ MSHA citations issued for failure to wear seatbelts since 2007 (most in MNM mines)

Loader operator saved by wearing seat belt
Belt Conveyor Safety

- Five miners killed working around conveyor belts since January 2017: four in coal, one in MNM
- Since 2008, total of 18 conveyor-related fatalities and 41 conveyor-related permanent injuries
- Guarding, lock-out tag-out, properly using crossovers, all essential for safety
Training Products Catalog

• The Academy publishes a yearly Catalog of Training Products for the Mining Industry.
• To obtain a copy of the products catalog, or for questions concerning the materials available from the Distribution Center, you may contact:

National Mine Health and Safety Academy
ATTN: Printing and Property Mgmt Branch
1301 Airport Road
Beaver, West Virginia 25813-9426

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FAX: (304) 256-3368
E-MAIL: MSHADistributionCenter@dol.gov
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- Accident Reports dating back to 1840
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- Research Materials (BOM publications, NIOSH studies, etc.)
- Engineering publications and periodicals
- Legal publications
- *If we don’t have it, we will find it for you!*

*Got Questions? They’ve got answers!*

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Thank you for your efforts at promoting health and safety in the mining industry!
Questions?