

First Responders Program

Spring Thaw 2017

Tom Appel – Mine Engineer, The Shelly Company

Jared McCune – Site Manager, Columbus, The Olen Corporation

Larry L. Flowers – State Fire Marshal

State Fire Marshal – Larry L. Flowers

- Appointed by Governor John R. Kasich as Ohio's 37th State Fire Marshal in April 2011
- Department of Commerce – State Fire Marshal
- Responsible for
 - Ohio Fire Academy
 - Fire Forensic Laboratory
 - Bureaus of Fire Prevention
 - Code Enforcement
 - Fire & Explosion Investigation Bureau
 - Bureau of Testing/Registration
 - Bureau of Underground Storage Tanks

State Fire Marshal – Larry L. Flowers (cont.)

- Previously State Representative from 2001 to 2008 – Majority Floor Leader
- Started volunteering as a firefighter in 1970 and became a full-time firefighter and paramedic in 1974.
- Fire Chief of Madison Township from 1978 until retirement in 2000.
- Has increased training and equipment grants to local fire departments and training institutions
- Encourage checking out website
<http://www.com.state.oh.us/fire/default.aspx>
 - Contacting Local Fire Department, Resources and Tools for Kids, Etc.

Program Initiation

- Program origination and implementation



Need for Collaboration & Involvement in Mining

- Over **550** Active Mine Sites in Ohio
- 99% Surface/Above Ground
- 2 Underground Salt Mines
- 6 Underground Aggregate Mines
- Over **70%** of Ohio consists of Volunteer Fire Departments

Need for Collaboration & Involvement in Mining

- 137 Fires Underground Coal and Metal/Nonmetal mines from 1991 to 2000 in United States – 2 fatalities and 34 Injuries

- Causes include

- Electrical
- Friction
- Mobile Equipment
- Spontaneous Combustion
- Cutting and Welding
- Others

| Coal | | Metal/Nonmetal | |
|------------------------|-----|------------------------|-----|
| Category | Pct | Categories | Pct |
| Electrical | 14 | Electrical | 10 |
| Friction | 24 | Friction | 5 |
| Mobile Equipment | 15 | Mobile Equipment | 46 |
| Spontaneous Combustion | 12 | Spontaneous Combustion | 2 |
| Cutting and Welding | 14 | Cutting and Welding | 16 |
| Other | 21 | Other | 21 |

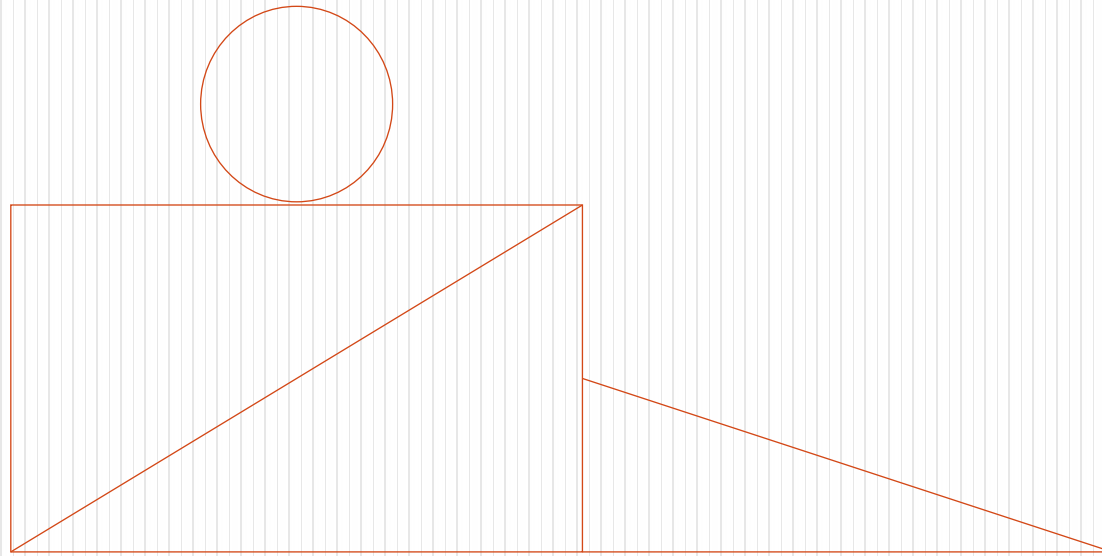
Goals of Program First Responders Program

- Expose First Responders to Mining Facilities & Equipment
 - Communicate Specific Challenges Associated with Mine Sites
- Familiarize First Responders to Applicable Hazards
 - Confined Space, Tunnels, Dredges, Underground
- Develop Checklist for Local Fire/EMS
- Provide Supplemental Training Grounds to First Responders
- Establish Personal Relationships with Local Fire & EMS vs. Just Showing up in Emergency
- Develop a Joint Emergency Response Manual

Communication Exercise

- Pair up with the person next to you and wait for my instructions
- Choose one person to be the artist and one person to be the describer
- Artist to face away from the presentation (No Cheating)
- One-Way communication
- No Feedback from Artist to Describer or vice versa
- 1 Minute to Complete

Does your picture look like this?



Site Map – Entrances

- Picture of hard hat sticker with address – think subcontractors
- Specifics to 911 Dispatch
- Crisis Management Team
- Use your Head!!!



Site Map

Information on site map should include:

- Site Address and Coordinates
- Office Locations
- Active Production Areas (Mine Portals or Pits)
- Key Plant Areas
- Location of Shops
- Collaboration with First Responders



Exposure to Mining Facilities & Equipment

- Site Tour of The Olen Corporation – Columbus
 - Limestone and S&G Operation
 - Large Bucket Ladder Dredge
 - Reclaim Tunnels
 - Over 1000 Acres
 - Portable Crushing Equipment
- Site Tour of Shelly Materials – Columbus Limestone
 - Underground Limestone Mine
 - Surface Facilities- Primary and Secondary Plants

Exposure & Hazards



Exposure & Hazards



Exposure & Hazards



Checklist for Local Fire/EMS

- Site Visit
- Unique Hazards to specific location
- Rescue Equipment Required vs. Available Resources
- Training Opportunities
 - Mock scenarios –Facility and Equipment
 - Estimated response time identification
 - Mining Personnel – What to tell First Responders
- Establish Contact List of Responsible Parties
- Establish periodic interactions to discuss changes at the mine

Additional Training Grounds



Personal Relationships



Develop Joint Emergency Response Manual

- Add to OAIMA toolbox talks
- General Manual Outline
 - Site Map
 - Contact List
 - Unique Hazards
 - Special Rescue Equipment Requirements
 - On-Site Resources
 - Manlifts/All Terrain Forklifts
 - Experienced Miners
 - Trained EMS Miners

Current Progress and Future Goals

- Current Progress
 - Infancy stage
 - Establish connections and relationships with proper people
 - Site tour at Olen - Fire Academy Trainers 10/20/16
 - Site tour at Olen – Columbus with Fire Academy (50 participants)
 - Underground/Surface Site tour at Shelly – Fire Academy Trainers
 - ODNR GPS Coordinates of Mine Sites
- Future Goals
 - On-Site Training
 - Mock Incidents – Dredge/Underground
 - Mining Specific Training Program as part of Fire Academy

Additional Exercise

Questions?