



**CONSOL ENERGY**

# Mine Emergency Preparedness and Response

# CONSOL Energy

- The most important Emergency Response Tool that any location has, is the personnel.
- Training of these personnel, must be one of your highest priorities. Accounting for all personnel is every ones number one priority.
- MERD Exercises are an excellent tool to train personnel on Incident Response and Notification.
- Fire Drills must be conducted properly to insure everyone understands their duties and roles. Extinguishing a fire in the incipient stages is critical, as the fire doubles every 5 minutes.
- Evacuation Drills, also must be conducted properly to insure that every person is accounted for and safe.
- Proper Check In/Check Out & tracking becomes a critical issue following a mine emergency.

# CONSOL Energy

- Hands-On Fire Fighting Training demonstrates to each employee how effective they can be in direct fire fighting.
- Support groups such as Fire Brigades and Mine Rescue Teams are another important link in the incident response to control and eliminate a situation. It's important to know who the Fire Brigade & Mine Rescue Personnel are on your shift and where they are located. They can provide you with expertise in critical situations.
- Communication is the link to the situation underground and the surface. Find out the nature of the emergency or incident: What has occurred?
- (a) Ignition (b) explosion (c) fire (d) roof fall entrapment
- Dynamic incidents such as fires, explosions or entrapments can develop into uncontrolled events. It is very important to STAY CALM, speak clearly, and give or ask for as much information as possible.







# OutStation Overview

| Enabled   | OutStation Location        | OutStation Status | Trunk 1 Sensor Status | Trunk 2 Sensor Status |
|---|----------------------------|-------------------|-----------------------|-----------------------|
| OutStation 1 <input checked="" type="checkbox"/>  | 2 Belt Starter OutStation  | Clear             | Clear                 | Clear                 |
| OutStation 2 <input checked="" type="checkbox"/>  | 6 Belt Starter OutStation  | Clear             | Clear                 | Clear                 |
| OutStation 3 <input checked="" type="checkbox"/>  | 7 Belt Starter OutStation  | Clear             | Clear                 | Clear                 |
| OutStation 4 <input checked="" type="checkbox"/>  | 11 Belt Starter OutStation | Clear             | Clear                 |                       |
| OutStation 5 <input checked="" type="checkbox"/>  | 9D OutStation              | Clear             | Clear                 | Clear                 |
| OutStation 6 <input checked="" type="checkbox"/>  | 14D Outstation             | Clear             | Clear                 | Clear                 |
| OutStation 7 <input checked="" type="checkbox"/>  | 16D OutStation             | Clear             | Clear                 | Clear                 |
| OutStation 8 <input type="checkbox"/>             |                            |                   |                       |                       |
| OutStation 9 <input checked="" type="checkbox"/>  | 13D OutStation             | Clear             | Clear                 | Clear                 |
| OutStation 10 <input checked="" type="checkbox"/> | 15D OutStation             | Clear             | Clear                 | Clear                 |
| OutStation 11 <input checked="" type="checkbox"/> | 13 Mother Belt             | Clear             | Clear                 | Clear                 |
| OutStation 12 <input type="checkbox"/>            |                            |                   |                       |                       |
| OutStation 13 <input type="checkbox"/>            |                            |                   |                       |                       |
| OutStation 14 <input checked="" type="checkbox"/> | OutStation 14              | Clear             | Clear                 | Clear                 |
| OutStation 15 <input type="checkbox"/>            |                            |                   |                       |                       |

| Alarm Date | Alarm Time | Alarm Description  |
|------------|------------|--|
| 5/6/2010   | 9:05:44 AM | (13 Belt OutStation) 12 MB Transfer CO Sensor Communications Failure |
| 5/6/2010   | 9:05:20 AM | (13 Belt OutStation) 12 MB Transfer CO Sensor Communications Failure |
| 5/6/2010   | 9:05:01 AM | (13 Belt OutStation) 12 MB Transfer CO Sensor Communications Failure |

Flashing = Valid Realtime Data  
**CLIENT ACTIVITY**  
 NON-Flashing = Invalid Data



106

# McELROY COAL COMPANY, MOUNDVILLE, WEST VIRGINIA

05/06/10 08:53:13

Data age 00:00

| Belt        | Type  | State |
|-------------|-------|-------|
| Belt1       | Mains | ON    |
| Belt2       | Mains | ON    |
| Belt3       | Mains | ON    |
| Belt5       | Mains | ON    |
| Belt7       | Mains | ON    |
| Belt9       | Mains | ON    |
| Belt10      | Mains | ON    |
| Belt12      | Mains | ON    |
| Belt13      | Mains | ON    |
| Belt14      | Mains | ON    |
| Belt15      | Mains | ON    |
| Bunker      | Mains | ON    |
| Belt16      | Mains | ON    |
| Belt17      | Mains | ON    |
| Belt5North1 | Mains | ON    |
| Belt5North2 | Mains | ON    |
| Belt5North3 | Mains | #N/A  |

|                |      |
|----------------|------|
| A Side LW Amps | #COM |
| B Side LW Amps | 137  |

| Belt     | Type | State |
|----------|------|-------|
| 5North4B | LW   | ON    |
| 5North7A | LW   | OFF   |
| 5North5B | CM   | ON    |
| 5North6B | CM   | #COM  |
| 5North8A | CM   | ON    |
| 5North9A | CM   | OFF   |

|                |       |
|----------------|-------|
| Bunker %       | 69    |
| Bunker Reclaim | 3,510 |

| Belt           | Type | State |
|----------------|------|-------|
| Slope Conv     | ROM  | ON    |
| Silo Feed      | ROM  | ON    |
| Silo 1 Reclaim | ROM  | ON    |
| Silo 2 Reclaim | ROM  | ON    |

|                 |    |
|-----------------|----|
| Head Rip Status | OK |
| Tail Rip Status | OK |

|                            |         |
|----------------------------|---------|
| Raw Tons Prev. Daily Total | 55,460  |
| Raw Tons Monthly Total     | 176,980 |

|                          |        |
|--------------------------|--------|
| Raw Tons Midnight Shift  | 15,100 |
| Raw Tons Day Shift       | 970    |
| Raw Tons Afternoon Shift | 18,010 |
| Raw Tons Daily Total     | 16,070 |

|                        |       |
|------------------------|-------|
| Raw Coal(U13) Belt TPH | 3,251 |
|------------------------|-------|

|           |        |          |    |          |   |
|-----------|--------|----------|----|----------|---|
| Flop gate | Silo 2 | Silo 1 % | 73 | Silo 2 % | 3 |
|-----------|--------|----------|----|----------|---|

|                |    |
|----------------|----|
| Rockdust level | 68 |
|----------------|----|

[Belts >>](#) [Analyzers >>](#)

Last refresh: Thu May 06 08:53:13 2010

Local intranet 100%

McELROY BELTS

HP L2045w

HP L2045w

# MINE EMERGENCY RESPONSE



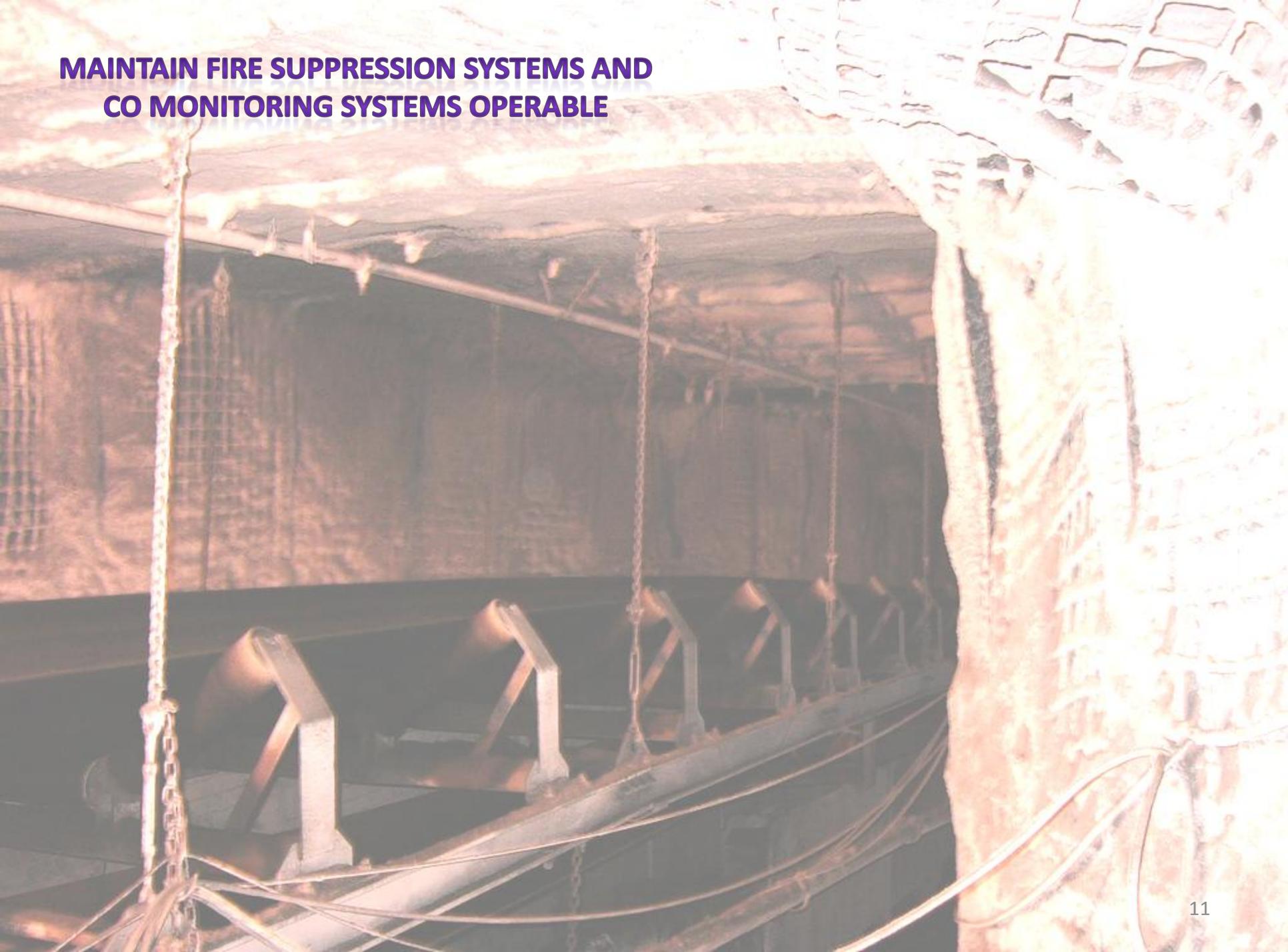
# FIRE FIGHTING EQUIPMENT





FIRST RESPONDER HOSE

**MAINTAIN FIRE SUPPRESSION SYSTEMS AND  
CO MONITORING SYSTEMS OPERABLE**





# EMERGENCY MATERIALS STORAGE AREAS

**HAVE A LIST OF CONTRACTORS ON HAND,  
HOW MUCH EQUIPMENT CAN THEY PROVIDE AND  
HOW DO YOU GET IN TOUCH IN THE MIDDLE OF THE NIGHT.**

Know the contact numbers for  
Drilling Companies



Maintain a list of Providers of  
Nitrogen, CO2, Foam



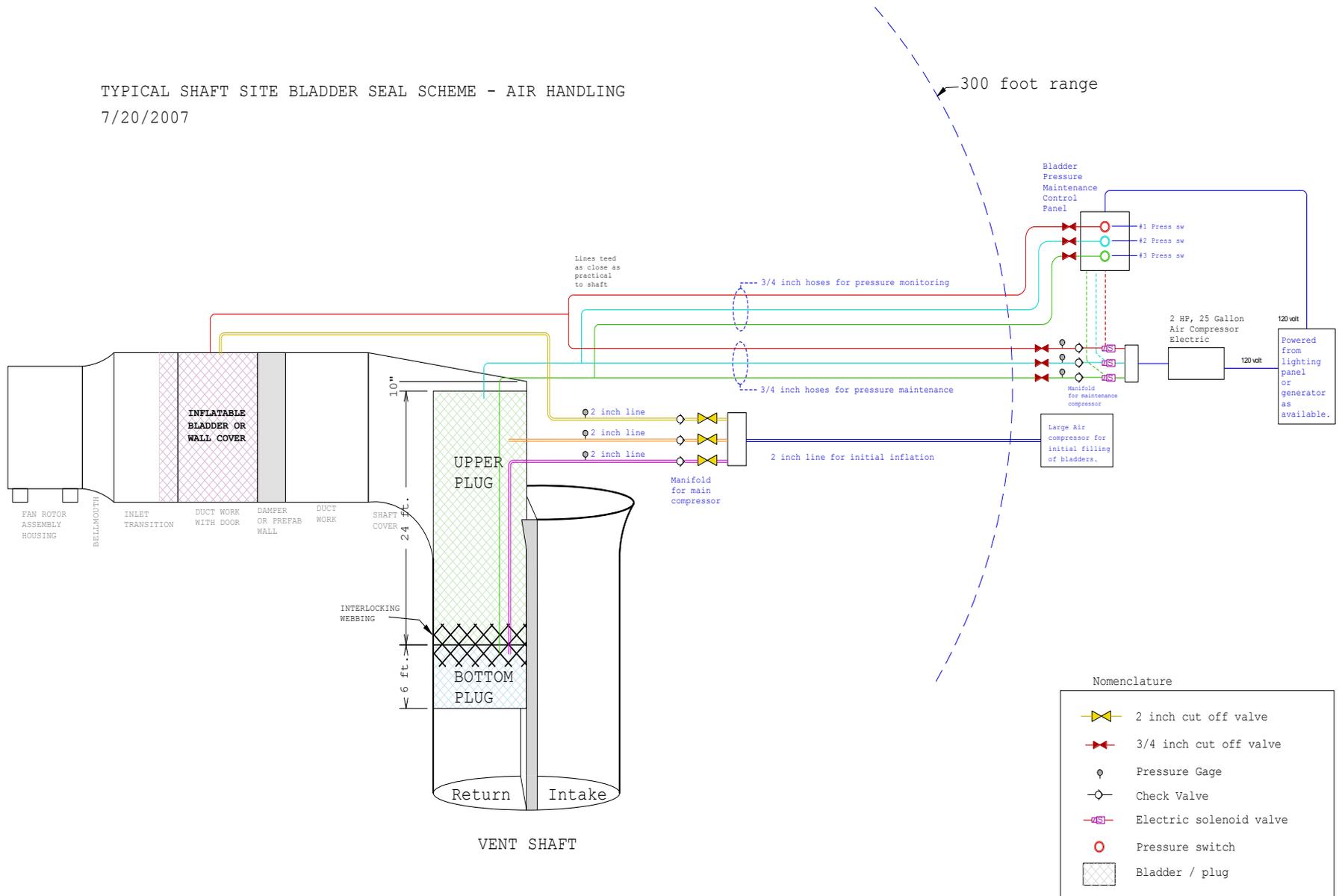




# Rescue Teams Are Assembled



TYPICAL SHAFT SITE BLADDER SEAL SCHEME - AIR HANDLING  
7/20/2007



Nomenclature

|  |                         |
|--|-------------------------|
|  | 2 inch cut off valve    |
|  | 3/4 inch cut off valve  |
|  | Pressure Gage           |
|  | Check Valve             |
|  | Electric solenoid valve |
|  | Pressure switch         |
|  | Bladder / plug          |

**NO TRESPASSING  
OPEN PIT**

**NO SMOKING** 





**WARNING:**

SHAFT & BLADES

SAFETY



*"Quality Environmental Solutions"*

Interstate Products, Inc.

**800-474-7294**

Outside The U.S.

**1-941-377-8610**

**[www.interstateproducts.com](http://www.interstateproducts.com)**

PROPER USE OF PRODUCTS ARE THE SOLE RESPONSIBILITY OF END USER.  
Please refer to the chemical compatibility chart.

Storage Containers 8' X 20'  
For shaft sealing materials

R  
38 5

STORAGE TO GO  
**Residential**  
"Storage & Moving Solutions  
for Home or Business"  
1-800-283-5662

PAGE SER.  
SHAFT



Inside Storage Container



## Sheet Metal Racks







NATIONAL  
CRANE



**Bladder weight is  
2,600 lbs.**

**Estimated cost  
\$27,000.00**

**1,000 p.s.i. puncture resistant  
cover protects the bladder.**

**The bladder is dropped  
into the return shaft  
through the explosion doors.**

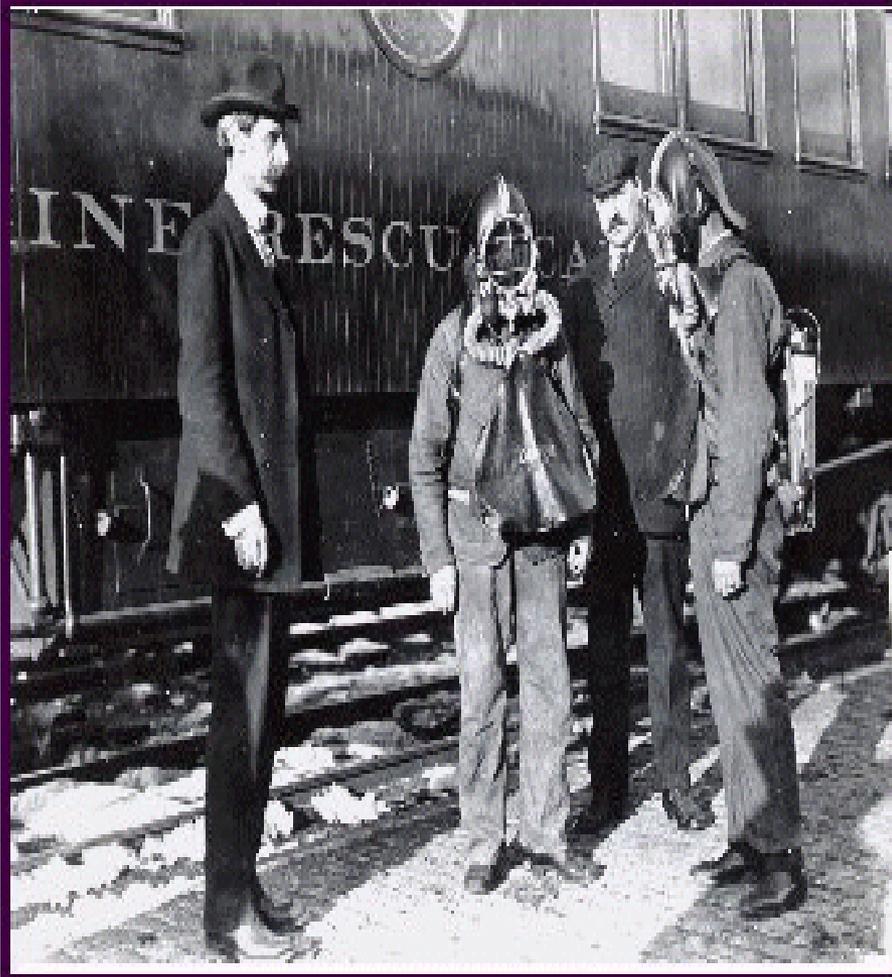


**Vent 4 Bladder Inflated**





# MINE EMERGENCY RESPONSE



- Dr. Joseph A. Holmes inspecting Mine Rescue Personnel in 1911. First National Mine Rescue Competition was held at Forbes Field in Pittsburgh, PA, on October 30, 1911. Our next Nationals in Columbus Ohio in 2011 will be our 100 year anniversary.

## WE'VE COME A LONG WAY

2010 MINE RESCUE MEMBER WITH FIRE RESISTANT NOMEX CLOTHING, FIRE RESISTANT GLOVES AND NOMEX FIRE RESISTANT HOOD.

BG 4 DRAGER 4 HOUR, CLOSED CIRCUIT, POSITIVE PRESSURE, BREATHING APPARATUS.



A photograph of firefighters in a dark, smoky environment. The scene is illuminated by several bright, yellowish-white spotlights that create a hazy, atmospheric effect. A prominent red laser line extends from the center towards the bottom of the frame. The firefighters are wearing full protective gear, including helmets with reflective strips and oxygen tanks. The overall mood is intense and focused.

**HEAVY SMOKE  
TRAINING IN IT'S 16<sup>TH</sup> YEAR**





Träger





Training Facility in Logan, WV for Southern WV Community College



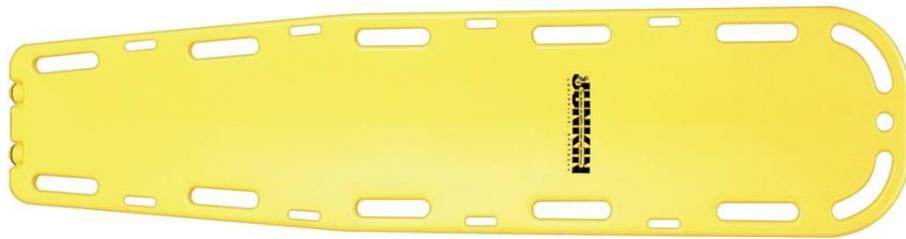






# JSA 365 BACKBOARD

Mine Lifeline LLC  
1432 South Main Street  
P.O. Box 4542  
Chapmanville, WV 25508  
USA  
304 855 7080  
jeremy@minelifeline.com



**\$149.00**

- Plastic Backboard – Rugged one piece lightweight polyethylene spine board with 12 large hand holes for easy handling, built in runners, low profile & X-Ray translucent. Comes with 4 straps Color Bright Yellow
- 72”L X 16” W Weight: 15 lbs. Load Capacity 400 lbs.

# JSA 200 Stretcher

Mine Lifeline LLC  
1432 South Main Street  
P.O. Box 4542  
Chapmanville, WV 25508  
USA  
304 855 7080  
jeremy@minelifeline.com



**\$615.00**

- Yellow high-density polyethylene shell, supported by a stainless steel outer rail, permanently attached with stainless semi-tubular rivets. Features molding runners, fully exposed outer rail, non-absorbent foam pad secured to stretcher & four patient restraint straps. Ideal for unusually rugged rescue situations such as industrial, mining and construction. 84 ½" L x 24" W x 7 ½" H WT. 31 lbs Load Capacity 1200 lbs The JSA 200B detaches in the middle.



# Fog Nozzle Pattern, Training











# Underground Communication HT-1000 Motorola

Channel 1 – 464.5500

Channel 2 – 461.1250



**Drager Thermal Imaging  
Camera - Model UCF 1800**



23 ft. Long X 8 ft Wide X 12 ft. 3 in. Height

Awning

Air Conditioner



2006 Chevrolet – 5500 Series 14 ft. Box  
License YTG4835 PA Gross WT 19,500  
VIN : 1GBE5C3226F421685

Chevrolet C6500 – 2005 Model  
Vin # 1GBJ6C1345F520756  
300 HP Duramax Diesel

**Satellite Dish**

**24 ft. Box**

**Awning**

**Mine Rescue Command Truck**



A tall black server rack containing multiple network devices, including switches, routers, and patch panels, arranged vertically.

A flat-screen monitor mounted on the wall, displaying a blue screen.

A large flat-screen monitor on a desk, currently turned off.

A black office chair with a beige seat and backrest, positioned in front of the desk with the large monitor.

A small wooden cabinet or storage unit with a dark door, located in the background.

A large white and grey multi-function printer or copier sitting on a desk.

A black computer monitor on a desk, positioned behind the printer.

A large, light-colored wooden desk with a black metal frame. It is cluttered with various items including several office telephones, a computer mouse, a power strip, and some tools.













# A Moment To Reflect

