United States Department of Labor Mine Safety and Health Administration



Dennis Cotton

Assistant District Manager

District 7 Coal Mine Safety and Health

September 11, 2015

KY MSHA Districts



Kentucky Total Number of Mines

		<u>D6</u>	<u> </u>	<u></u>	<u>Total</u>
	Underground	44	43	11	<u>98</u>
	Surface	73	74	10	157
	Facilities	43	<u>56</u>	<u>15</u>	114
-	Total Operations	160	173	<u>36</u>	369
	Producing Operations	<u>91</u>	105	26	222
	Non-producing Operations	<u>69</u>	<u>68</u>	10	138

Total Number of Miners in Kentucky - 9,291

Coal 2014 Fatal Accidents

- 11 Underground Mines 5 Surface Mines
- Classifications:
 - Powered Haulage 5
 - Machinery 5
 - Fall of Face/Rib/Pillar/ or Highwall 3
 - Electrical 1
 - Fall of Roof or Back 1
 - Other (Drowning) 1
 - Total 16

Coal Fatalities 2014-9 States

Coal 2014 Fatalities by State:

West Virginia 5 Virginia 2 Kentucky 2 Wyoming 2 Indiana 1 Illinois 1 Alabama 1 Utah 1 Montana 1

MNM Fatal Accidents – 2014

- Underground Mines 6
- Surface Mines 18
- Facilities 5
- Classifications
 - Powered Haulage 8
 - Slip or Fall or Person 7
 - Falling/Sliding/Rolling Materials 5
 - Machinery 3
 - Fall of Rib 2
 - Hoisting 1
 - Electrical 1
 - Explosion of Gas 1
 - Other 1
 - Total 29

MNM Fatal Accidents by State -- 2014

- Texas -5
- Nevada 2
- Missouri 2
- Virginia 2
- Pennsylvania 2
- Utah -2
- South Carolina -2
- New York -2
- Kansas 1
- Ohio 1
- Montana 1
- Illinois 1
- Kentucky 1
- Idaho 1
- Indiana 1
- Iowa 1
- Florida 1
- Louisiana 1
- **Total 29**

MNM Fatal Accidents By Commodity -- 2014

- Sand & Gravel 8
- Cement 4
- Limestone 3
- Gypsum 2
- Lime 2
- Sandstone 1
- Iron Ore 1
- Gold 1
- Salt 1
- Common Clay 1
- Alumina 1
- Fire Clay 1
- Granite 1
- Silica 1
- Silver -1
- Total 29

MNM Fatalities Nationwide CY 2015

METAL/NONMETAL DA	AILY FA	ATALI	TY REF	ORT	- Sept	ember	8, 2015	1			
FATALITIES CHARGEABLE TO THE	20	11	20	12	20)13	20	14	20	2015	
METAL/NONMETAL MINING INDUSTRY	UG	S	UG	S	UG	S	UG	S	UG	S	
ELECTRICAL	0	0	0	0	0	0	0	1	0	0	
EXP VESSELS UNDER PRESSURE	0	0	0	0	0	0	0	0	0	0	
EXP & BREAKING AGENTS	1	0	0	0	0	1	0	0	0	0	
FALL/SLIDE MATERIAL	0	1	0	2	1	1	0	3	0	3	
FALL OF FACE/RIB/HIGHWALL	0	0	1	1	0	1	2	0	0	0	
FALL OF ROOF OR BACK	2	0	0	0	0	0	0	0	1	0	
FIRE	0	0	0	0	0	0	0	0	0	0	
HANDLING MATERIAL	0	0	0	0	0	0	0	0	0	0	
HAND TOOLS	0	0	0	0	0	0	0	0	0	0	
NONPOWERED HAULAGE	0	0	0	0	0	0	0	0	0	0	
POWERED HAULAGE	0	2	1	4	2	2	0	4	1	2	
HOISTING	0	0	0	0	0	0	1	0	1	0	
IGNITION/EXPLOSION OF GAS/DUST	0	0	0	0	0	0	0	1	0	0	
INUNDATION	0	0	0	0	0	0	0	0	0	0	
MACHINERY	0	1	0	1	0	3	1	2	0	4	
SLIP/FALL OF PERSON	0	1	1	1	0	0	1	3	0	2	
STEP/KNEEL ON OBJECT	0	0	0	0	0	0	0	0	0	0	
STRIKING OR BUMPING	0	0	0	0	0	0	0	0	0	0	
OTHER	0	0	0	0	0	0	0	1	0	1	
YEAR TO DATE TOTALS	3	5	3	9	3	8	5	15	3	12	
COMBINED YEAR TO DATE TOTALS	8	3	1	2		1	2	0	1	5	
END OF YEAR TOTAL	1	6	1	6	1	22	2	9			

Coal Fatalities Nationwide CY 2015

FATALITIES CHARGEABLE TO	20	11	20	12	20	13	20	14	20	15
THE COAL MINING INDUSTRY	UG	S								
ELECTRICAL	0	1	1	0	0	0	1	0	0	0
EXP VESSELS UNDER PRESSURE	0	0	1	0	0	1	0	0	0	0
EXP & BREAKING AGENTS	0	0	0	0	0	0	0	0	0	0
FALL/SLIDE MATERIAL	0	0	0	0	0	0	0	0	1	0
FALL OF FACE/RIB/HIGHWALL	2	0	1	0	1	0	2	0	2	0
FALL OF ROOF OR BACK	1	0	1	0	2	0	0	0	1	0
FIRE	0	0	0	0	0	0	0	0	0	0
HANDLING MATERIAL	0	0	1	0	0	0	0	0	0	0
HAND TOOLS	0	0	0	0	0	0	0	0	0	0
NONPOWERED HAULAGE	0	0	0	0	0	0	0	0	0	0
POWERED HAULAGE	2	1	1	1	4	0	1	1	1	1
HOISTING	0	0	0	0	1	0	0	0	0	0
IGNITION/EXPLOSION OF GAS/DUST	0	0	0	0	0	0	0	0	0	0
INUNDATION	0	0	0	0	0	0	0	0	0	0
MACHINERY	2	2	1	1	1	3	3	1	1	1
SLIP/FALL OF PERSON	0	1	1	2	0	0	0	0	0	0
STEP/KNEEL ON OBJECT	0	0	0	0	0	0	0	0	0	0
STRIKING OR BUMPING	0	0	0	0	0	0	0	0	0	0
OTHER	0	0	0	1	0	1	0	1	0	0
YEAR TO DATE TOTALS	7	5	8	5	9	5	7	3	6	2
COMBINED YEAR TO DATE TOTALS	1	2	1	3	1	4	1	0	8	3
END OF YEAR TOTAL	2	0	2	0	2	0	1	6		

Coal Fatalities Nationwide CY 2015 Location of Accidents

8 Fatal Accidents

6 Underground2 Surface

Coal Fatalities Nationwide CY 2015 Accident Classification

8 Fatal Accidents

- 2 Machinery
- 2 Fall of Face/Rib/Highwall
- 2 Powered Haulage
- 1 Fall of Roof
- 1 Fall/Slide of Material

Coal Fatalities Nationwide CY 2015 By State

8 Fatal Accidents

- 3 PA
- 2 WV
- 1 VA
- 1 IL
- 1 KY

Kentucky Accidents 2006 – 2015

Kentucky Accidents (Degree of Injury 2 - 5)												
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015		
D6	329	307	293	259	213	238	173	128	124	73		
D7	397	359	295	330	312	255	212	131	131	85		
D10	211	156	179	204	160	155	132	173	191	78		
Totals	937	822	767	793	685	648	517	432	446	236		



Kentucky Fatalities											
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	
D6	6	2	1	3	0	2	2	0	0	1	
D7	9	0	5	3	4	4	2	2	1	0	
D10	1	0	2	1	3	2	1	0	1	0	
Totals	16	2	8	7	7	8	5	2	2	1	

2015 Coal Fatality #1 – January 28, 2015

Machinery Accident Hooversville, PA LCT Engergy, LP Brubaker Mine



A 43 year-old continuous mining machine operator with 10 years of mining experience was killed when he was pinned between the conveyor boom of a remote controlled continuous mining machine and a coal rib. The victim was operating the continuous mining machine from a remote position in the entry and was preparing for the next mining cycle when the accident occurred.

2015 Coal Fatality #2 – February 20, 2015

Fall of Roof Accident Heilwood, PA Rosebud Mining Co. Heilwood Mine



A 29 year-old roof bolter helper with 3 years and 48 weeks of mining experience was killed when a piece of rock approximately 3 feet wide, 11½ feet long, and 3 to 16 inches thick fell and pinned him against the top of the drill canopy of a roof bolting machine. The roof bolting machine was positioned to install the next row of permanent supports when the accident occurred.

2015 Coal Fatality #3 – March 8, 2015

Fall of Face/Roof Cameron, WV McElroy Coal Co. McElroy Mine



A 45 year old assistant longwall coordinator with twelve years of experience was killed while working on a longwall section. The victim was shoveling loose material between the longwall face and the pan line when a large piece of rock, 12 feet long by 5 feet wide by 1 foot thick, fell from the face and struck him.

2015 Coal Fatality #4 – March 16, 2015

Fall of Rib/Roof McClure, VA Paramont Coal Co. Virginia, LLC Deep Mine 41

A 34 year-old section foreman with 10 years of mining experience was killed when a coal/rock rib approximately 90 inches long, 45 inches high, and 15 to 18 inches thick fell and pinned him against the side of a shuttle car.

2015 Coal Fatality #5 – May 28, 2015

Machinery Accident Phelps, Kentucky Apex Energy, LLC No. 11 Allen Br. Job

A 45-year-old surface foreman with 27 years of experience was killed when he was crushed between the frames of a road grader and a tractor that was transporting a base power module for a highwall miner. The foreman was in the process of connecting a chain between the two machines when the road grader rolled back and crushed him.

2015 Coal Fatality #6 – May 31, 2015

Powered Haulage Coulterville, IL Peabody Midwest Mining, LLC Gateway Mine

A 59-year-old mine examiner with 32 years of mining experience was found unconscious, unresponsive, and lying in a travel way. The victim had been driving a diesel mantrip to travel to a set of seals to examine them. The victim was located along the east coal rib, and the front right corner of the mantrip was in contact with the west rib just inby the location of the victim.

2015 Coal Fatality #7 – March 17, 2015

Powered Haulage Scarbro, WV Republic Energy, Inc. Rebublic Energy Mine

A 52-year-old contract truck driver was killed while driving a fuel truck on a mine haulage road. The tandem axle truck was found on its top near the bottom of a long descending grade which included a sharp curve to the right. The fuel truck was fully loaded with approximately 3,500 gallons of diesel fuel. After interviews, investigators could not determine if the victim was wearing a seatbelt at the time of the accident.

2015 Coal Fatality #8 – June 27, 2015

Falling Material Accident Dilliner, PA Dana Mining Co. of Pennsylvania, LLC West Mine

A 55-year-old scoop operator with 21 years of mining experience was killed when he was struck by a set of metal airlock doors. The victim was closing the airlock doors when the doors dislodged and fell, pinning him to the ground.

Chester Fike Born Feb. 3, 1952 Died Dec. 18, 2012 Avictim of black lung, Overter ded four month after undergoing a double lung transplant.

It is time to end this preventable disease

76,000 deaths since 1968

spent in federal compensation

\$45 billion New cases being diagnosed, including in young miners

A new rule issued by the U.S. Department of Labor's Mine Safety and Health Administration will greatly improve the protection of America's coal miners from this debilitating disease. The rule is the centerpiece of MSHA's initiative to End Black Lung - Act Now! To learn more, violt www.meha.gow/endblacklung.

MIME SAFETY AND HEALTH ADMINISTRATION UNITED STATES DEPARTMENT OF LADOR

MSHA's

Final Respirable Dust Rules Phase II Major Sections Affected

Part 70 (Underground coal mines)
Part 71 (Surface coal mines/facilities)
Part 90 (Miners with lung disease)
Section 75.350 (Belt Air Course Ventilation)

Phase II

Changes effective February 1, 2016

Phase III

Changes effective August 1, 2016

Part 70/71/90 New Terms

Excessive Concentration Value (ECV)
 Refer to CPDM column of ECV tables when using a CPDM for sampling
 Other Designated Occupation (ODO)
 Other occupation on an MMU that is designated for sampling

Part 70/71/90 - Standards

Base standard for underground and surface mines - 1.5 mg/m³ effective August 1, 2016
 Underground mine - Intake air

 0.5 mg/m³ effective August 1, 2016

 Part 90 miners

 0.5 mg/m³ effective August 1, 2016

Part 70/71/90 Sampling General

CPDM use required after February 1, 2016 ■ DO sampling Other Designated Occupations (ODO) sampling (former DAs on the MMU) ■ Part 90 miners CMDPSU used for DA and DWP sampling unless operator notifies District Manager of use of CPDM after February 1, 2016 at least 90 days prior to intended use

Part 70/71/90 Sampling CPDM Certification

Persons certified by MSHA to conduct sampling with a CPDM

Persons certified by MSHA to maintain and calibrate CPDM sampling units

Main System Components

CPDM Training Schedule						
Location	Schedule	Contact Information				
National Mine Health & Safety Academy	May 27/28 June 2/3 July 7/8 July 28/29 August 11/12 August 25/26 September 9/10 September 22/23	Contact student registration at (304) 256-3252				
District 2	1 st and 3 rd Wednesday of each month	Daniel Mansell 724-925-5150 ext. 122 mansell.daniel@dol.gov				
District 3	Schedule available upon request	William Spens 304-225-6825 <u>spens.william@dol.gov</u>				
District 4	2 nd Wednesday of each month	Roy Baker 304-877-3900 ext. 156 baker.roy@dol.gov				
District 5	2 nd Wednesday of each month	Tony Arena 276-679-0230 arena.tony@dol.gov				
District 6	1 st and 3 rd Tuesday of each month	Stevie Justice 606-432-0943 justice.stevie @dol.gov				
District 7	June 11 July 8 August 12 2 nd Wednesday of each month thereafter	Randy Kline 606-546-5123 <u>kline.randy@dol.gov</u>				
District 8	3 rd Monday of each month	David Stepp 812-882-7617 ext. 137 stepp.david@dol.gov				
District 9	Please get in touch for scheduling information.	William (Ed) Vetter 303-231-5586 vetter.william@dol.gov				
District 10	1 st and 3 rd Wednesday of each month	Hubert (Gene) Wright 270-821-4180 wright.hubert@dol.gov				
District 11	2 nd Wednesday of each month	Russel Weekly 205-290-7300 ext. 287 weekly.russel@dol.gov				
District 12	2 nd Wednesday of each month	Ronald Barber 304-256-3528 barber.ronald@dol.gov				

Part 70/71/90 CPDM Sampling Certification

Re-certified every 3 years
MSHA may revoke certification
Certified in sampling may collect samples
Certified in Maintenance can work on sampling units

Maintenance certification not cover sampling duties

Part 70

Quarterly Sampling – MMU (effective February 1, 2016)

- Conducted with CPDM unless notified
- Sample DO consecutive shifts until 15 valid samples collected
 - Additional 15 shift groups may be required
 - District Manager discretion
 - Required if found not following approved ventilation plan

Part 70 Quarterly Sampling - MMU

- Sample ODOs (includes former DAs on MMU) consecutive shifts until 15 valid samples collected
 - ODO sampling not start until DO sampling complete
 - Different ODO types sampled over separate time period during quarter
 - Example: RB sampled over 15 shifts after DO 15 shift sampling complete
 - Example: SCs sampled over 15 shifts after the DO 15 shift sampling and the RB 15 shift sampling is complete

Part 70 Quarterly Sampling - MMU

DOs, ODOs to be sampled specified in rule
 Other ODOs may be designated by the DM
 New reduced standard due to quartz will be effective 7 calendar days after the date of notification
 Samples exceeding applicable standard by 0.1 mg/m³ or more will be used regardless of production

Part 70 Quarterly Sampling – DAs (effective February 1, 2016)

Sample each DA 5 consecutive shifts each quarter
 No consecutive days cycle

Quartz present – resulting in reduced standard

- New standard effective 7 calendar days after date of notification

Part 71 DWP Sampling

Continues as specified effective August 1, 2014 except that DWP sampling <u>May</u> be performed using the CPDM with notification to the District manager

Part 90 Sampling Compliance

Requirements for Part 90 samples effective August 1, 2014 continue except that <u>All</u> Part 90 samples must be collected using a CPDM effective February 1, 2016

Part 70/71/90 Transmission of CPDM Sample Data

CPDM

Mine official validate, certify and transmit electronically within 24 hours after end of sampling shift

■ Sample data file

■ Sample status conditions file

Operator maintain data files at least 12 months

■ Not tamper with CPDM or alter any data files

Part 70/71 Report and Posting

CPDM

- End-of-shift sample results operator post within 12 hours after end of sampling shift
- Information remain posted until receipt of MSHA provided samples report
- MSHA sample results report posted at least 31 days

Part 75 – 75.350 Belt Air Course Ventilation

Belt air used as intake air on MMU

- Standard reduced to 0.5 mg/m³ effective August 1, 2016
- If a reduced standard is applicable on the working section that is less than the 0.5 mg/m³ standard, then the lowest applicable standard applies to the belt entry

PROXIMITY DETECTION SYSTEMS FOR CONTINUOUS MINING MACHINES IN UNDERGROUND COAL MINES

RULE & COMPLIANCE

The rule became effective on March 16, 2015

http://www.msha.gov/regs/fedreg/final/2015/proximity-detection/

Accident Data

- To assess the costs and benefits of the final rule, MSHA conducted a review of <u>fatal</u> and nonfatal pinning, crushing, and striking accidents, which occurred in underground coal mines from 1984 through 2013.
- Of the 75 preventable fatalities resulting from pinning, crushing, and striking accidents, 34 of those were associated with continuous mining machines (CMMs).
- During this same time period, MSHA estimated that the use of a proximity detection system could have prevented 238 nonfatal injuries associated with CMMs.
- Since 2010, <u>8</u> miners working in close proximity to CMMs died from pinning, crushing, or striking accidents.
- MSHA projects that the rule will prevent approximately 49 injuries and 9 deaths over the next 10 years.

Proximity Detection System Requirements §75.1732

- Operators must install a proximity detection system on certain CMMs.
 - (a) *Machines covered.* Operators must equip continuous mining machines, except full-face continuous mining machines, with proximity detection systems by the following dates. For proximity detection systems with miner-wearable components, the mine operator must provide a miner-wearable component to be worn by each miner on the working section by the following dates.

Machines Covered §75.1732 (a)

- (1) Continuous mining machines manufactured after March 16, 2015 must meet the requirements in §75.1732 no later than November 16, 2015. These machines must meet these requirements when placed in service with a proximity detection system.
- (2) Continuous mining machines manufactured and equipped with a proximity detection system on or before March 16, 2015 must meet the requirements in §75.1732 no later than September 16, 2016.
- (3) Continuous mining machines manufactured and not equipped with a proximity detection system on or before March 16, 2015 must meet the requirements in §75.1732 no later than March 16, 2018. These machines must meet these requirements when placed in service with a proximity detection system.

MSHA interprets the March 16, 2018 date to also apply to continuous mining machines with an existing proximity detection system that requires the installation of a new proximity detection system to meet the requirements of the rule. For these machines, MSHA anticipates that the new proximity detection system will be installed during the first planned rebuild. See Program Policy Letter, P15-V-01.

Proximity Detection System Requirements §75.1732 (b)

- (b) *Requirements for a proximity detection system.* A proximity detection system includes machine-mounted components and miner-wearable components. The system must:
 - Cause a machine, which is tramming from place-to-place or repositioning, to stop before contacting a miner except for a miner who is in the on-board operator's compartment;
 - (2) Provide an audible and visual warning signal on the miner-wearable component and a visual warning signal on the machine that alert miners before the system causes a machine to stop. These warning signals must be distinguishable from other signals;
 - (3) Provide a visual signal on the machine that indicates the machine-mounted components are functioning properly;

MSHA Approved Proximity Detection Systems

- Two MSHA-approved systems provide an audible and visual warning signal on the miner-wearable component and a visual warning signal on the machine that alert miners before the system causes a machine to stop, as required by the final rule.
 - Strata Mining Products HazardAvert® System
 - Matrix Design Group IntelliZone[™] /Joy Global SmartZone[®] Proximity System Generation 2
- As of January 2015, approximately 425 out of 863 CMMs were equipped with a proximity detection system.

Proximity Detection System Requirements §75.1732 (b)

- (4) Prevent movement of the machine if any machine-mounted component of the system is not functioning properly. However, a system with any machinemounted component that is not functioning properly may allow machine movement if it provides an audible or visual warning signal, distinguishable from other signals, during movement. Such movement is permitted only for purposes of relocating the machine from an unsafe location for repair;
- (5) Be installed to prevent interference that adversely affects performance of any electrical system; and
- (6) Be installed and maintained in proper operating condition by a person trained in the installation and maintenance of the system.

Education and Training Resources

 To access this resource, go to <u>http://www.msha.gov/training/</u> and click the link for The "new" Part 50 Training Program beneath the "Training Program and Courses" heading.

New Part 50 Training Program

Glossary

Regulations

Welcome to the online training course for the **New Part 50 Training Program**. The program is designed to clarify reporting requirements for accidents, injuries, and illnesses in the mining industry. This program will enhance MSHA's ability to evaluate and develop mine safety and health standards and programs which benefit the industry.

Why is it important for mine operators to report accidents, injuries, and illnesses?

Resources

Accidents, injuries, and illnesses are key indicators of the effectiveness of the operator's health and safety program.

Contact

Note: The material in this training course is for informational purposes only and is not intended to be an all-inclusive source for 30 CFR Part 50.

Nex

Click Next to Continue

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Part 50 Training Program

- The goal of the *new* Part 50 Training Program is....
 - for mine operators and contractors to properly report accidents, injuries, illnesses, and employment data
 - more accurately identify problem areas
 - generate the best corrective actions possible to prevent recurrence and
 - enhance both MSHA and mine operators ability to develop programs to benefit the health and safety of miners

Accidents, injuries, and illnesses are key indicators of the effectiveness of the operator's health and safety program.

Trainer's Page http://www.msha.gov/training

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Training is an essential part of MSHA's mission to keep miners safe and healthy. Our goal is to help the mining industry develop highquality training programs, and to strengthen and modernize training through collaboration with industry stakeholders. Federal law requires that all miners receive basic and annual refresher training, and that all mine operators maintain an effective training plan. MSHA provides materials, guidance, and hands-on assistance to help miners and operators meet their training obligations and more. We have gathered many of our materials on this page for your convenience, and will add to them over time.

Questions? Comments? Materials to share? Please contact us at **mshatraining@dol.gov** for assistance or to suggest improvements to the training page.

Part 48 or Part 46? Learn what it means here.

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NOV

13 NOV

Spotlight

 Materials for 2nd quarter 2015 conference call Slideshow with information on training materials, and fatal accidents and near-misses from Coal and Metal/Nonmetal.
 Materials for 1st quarter 2015 conference call Slideshow with information on training materials, and fatal accidents and near-misses from Coal and Metal/Nonmetal.
 Materials for quarterly conference call Slideshow with presentations on new training materials, and fatal accidents and near-misses from Coal and Metal/Nonmetal.

Recording of 3rd quarter conference call Listen to a one-hour MSHA call with trainers, held Nov. 13, regarding recent fatalities and training resources

Materials for 3rd quarter conference call Slideshows on Coal fatalities, MNM fatalities, and EPD presentation on task training and adult learning.

Develop a Training Plan

The following resources may be useful in developing training plans for Part 46 and Part 48 mines. If this is your first time creating a training plan, we highly recommend getting in touch with **Educational Field and Small Mine Services** for assistance. You can also review the most current regulations set forth in 30 CFR **Part 46** and **Part 48**. The official regulations outline the required components of an approved training plan, the types of training programs that must be included in a plan, and appropriate record-keeping procedures.

Review the most current regulations: Part 46 | Part 48

MSHA Training Plan Advisor

Provides guidance in developing federally required training plans for Part 46 and Part 48 mines, and allows plans to be submitted online.

MSHA Program Policy Manual

Pattern of Violations Single Source Page

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Pattern of Violations

The Mine Act places the responsibility for ensuring the health and safety of miners on mine operators. Congress enacted the <u>pattern of violations (POV) provision</u> to provide MSHA with an additional enforcement tool when other tools had proven ineffective. Congress intended MSHA to use the POV provision to restore safe and healthful conditions at mines with a pattern of significant and substantial (S&S) violations. The legislative history states that Congress believed the existence of a pattern would signal to both the mine operator and the Secretary that "there is a need to restore the mine to effective safe and healthful conditions and that the mere abatement of violations as they are cited is insufficient."

A mine operator that has a pattern of S&S violations at a mine will receive written notice from MSHA. For each subsequent S&S violation, MSHA will issue an order withdrawing miners from the affected area until the cited condition has been corrected. MSHA will terminate an operator's POV notice when 1) an inspection of the entire mine is completed and no S&S violations are found or 2) no withdrawal order is issued by MSHA in accordance with Section 104(e)(1) of the Mine Act within 90 days of the issuance of the pattern notice.

Mine operators can determine whether they may be subject to a POV notice by using MSHA's <u>Pattern of Violations Monitoring</u> <u>Tool</u>. It is the responsibility of mine operators to track their violation and injury histories to determine whether they need to take action to avoid triggering a POV notice. Operators who are at risk of receiving a POV notice are encouraged to implement a corrective action program to reduce S&S violations. More information about corrective action programs can be found in MSHA's <u>Pattern of Violations Procedures Summary</u>.

Tools for You

Monthly Monitoring Tool for Pattern of Violations

Enter an MSHA Mine ID : (7 Digits - No Dash)

h) SEARCH

If you do not know the Mine ID, please use the Data Retrieval System.

S&S Rate Calculator

The <u>S&S Rate Calculator</u> is a tool for mine operators that implement a Corrective Action Program (CAP) with goals for reductions in a mine's rate of Significant and Substantial (S&S) violations to determine if a mine is meeting its goals. The data for this application *is refreshed daily*.

QUESTIONS???