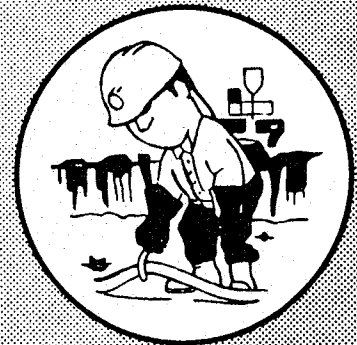


FEBRUARY 1981



# BULLETIN

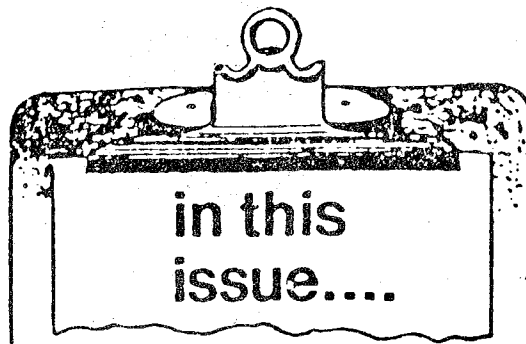


United States Department of Labor

# MSHA

Mine Safety and Health Administration

# HOLMES SAFETY ASSOCIATION



February 1981

1. NOTICE "Joseph A. Holmes Safety Association and its Rewards"
2. Abstract, "Powered Haulage Accident"
3. Abstract, "Fall-of-Rib Accident"
4. Safety Topic, "Part 55.7--Drilling"
5. Safety Topic, "Part 77.1300--77.1302, Subpart N--Explosives and Blasting" p 18
6. Safety Topic, "Disposable Butane Lighters" p 20
7. Safety Topic, "Holmes Safety Association Chapters Established Fourth Quarter 1980" p 21
8. Meeting Report Form (chapters only)

ROBERT B. LAGATHER  
PRESIDENT

PATRICIA KUHN  
SECRETARY-TREASURER

February 1981



ADDRESS

MINE SAFETY AND HEALTH ADMINISTRATION  
BALLSTON TOWERS #3, RM. 522  
4015 WILSON BLVD.  
ARLINGTON, VA 22203

PHONE: (703) 235-1335

NOTICE

The Joseph A. Holmes Safety Association is interested in obtaining award nominations for outstanding safety records attained by individual workers and groups of workers in any branch of the mining, quarrying and petroleum industries including metallurgical plants but excluding petrochemical plants. The Association also grants awards to individuals for personal heroism by risking their own lives while saving or attempting to save the life of another.

Following is a description of the criteria for granting awards of the Joseph A. Holmes Safety Association. Applications should be mailed as promptly as possible and will be accepted until March 15, 1981. Applications received after that date will not be considered for this year's awards. They should be mailed to the address shown on the first page of the criteria.

Robert B. Lagather  
President  
Joseph A. Holmes Safety Association

## THE JOSEPH A. HOLMES SAFETY ASSOCIATION AND ITS AWARDS

The Joseph A. Holmes Safety Association was founded in 1916 by 24 leading national organizations representing the mining, metallurgical, and allied industries to commemorate the efforts of Dr. Joseph A. Holmes, the first Director of the Bureau of Mines, to reduce accidents and ill health in the mineral extractive and allied industries and to promote the doctrines of safety and conservation of life in those industries.

It is the aim of the Association to bring safety in the mining and allied industries before the public and to stimulate the safety movement by giving suitable annual awards known as "Joseph A. Holmes Safety Association Certificates of Honor" for outstanding achievements in safety and "Joseph A. Holmes Safety Association Medal of Honor Certificates" for personal heroism or distinguished service in the saving of life in any branch of the mineral extractive and allied industries.

The close connection between safety professionals and the Joseph A. Holmes Safety Association has been of mutual benefit. The effects have been felt by the mineral extractive and allied industries in the vast strides made toward greater safety since 1916. The awards of the Association have placed before industry the data on which the awards have been based, showing by actual accomplishments in safe operation that mining and mineral extraction can be conducted safely as are other so-called hazardous types of industrial work.

The criteria for granting awards are based on review of the fatal and disabling injury experience of the various segments of the mineral extractive industries.

Applications for all of the awards should be mailed to:

Mrs. Patricia C. Kuhn  
Joseph A. Holmes Safety Association  
Mine Safety and Health Administration  
Ballston Tower #3, Room 522  
4015 Wilson Boulevard  
Arlington, Va. 22203

The following gives information regarding the awards and award criteria of the Joseph A. Holmes Safety Association.

### TYPE A AWARDS--FOR ACTS OF HEROISM

The awards are Medals with Medal of Honor Certificates and Certificates of Honor. These awards for personal heroism or distinguished service in the saving of life are given regardless of whether the act was performed in the line of duty, or elsewhere, by an active or inactive employee of any branch of mining, quarrying, and mineral extractive industries. Also, the Committee may recommend awards to individuals who commit heroic acts while temporarily associated with the mineral extractive industries. Applications must be submitted within two years of the date the incident occurred.

Awards to individuals who knowingly and grossly disregard health and safety regulations and thereby create extreme hazards prior to acts of heroism will be considered only under rare conditions worthy of merit.

Most awards for group action in the saving of life are Certificates of Honor with each person involved receiving a copy. In some instances, an individual in the group who displayed extraordinary courage may be singled out for a Medal of Honor award with the others receiving Certificates of Honor.

Conditions for actions for which Medals of Honor are approved are based on the following: Any qualifications under these conditions merit consideration of an award.

- a. In the performance of an act to save life, the individual loses their own life.
- b. In the performance of an act, the individual seriously risks their own life, but saves the lives of one or more persons.
- c. Attempting at serious risk of their own life to save the life of one or more persons without success.

Conditions for actions for which Certificates of Honor are approved are based on the following. Any qualifications under these conditions merit consideration of an award.

- a. Assisting in saving life, at some personal risk, while working under the direction of another person.
- b. Removing or assisting in removing the subject from an electrified circuit at some personal risk.
- c. Exhibiting skill in modern life-saving methods and practices in an effort to save life, while also taking some personal risk.
- d. Giving warning at personal risk of impending danger to others.
- e. Directing individuals to place of safety while exposed to some personal danger.
- f. Staying at their post of duty in presence of impending danger to self and others.
- g. Assisting with others collectively at personal risk to save the lives of one or more persons.

The work of trained mine rescue teams, under most conditions for which they have been trained, does not constitute eligibility for Type A awards. Extraordinary cases will receive consideration.

The following information is required on applications and must be submitted in time to reach the Secretary of the Association by March 15:

1. Name and occupation of each person recommended for an award.
2. Name and address of employer.
3. Place and date of the incident.
4. Name of other person or persons involved.
5. Complete details of occurrence and degree of risk involved.

On receipt, the Secretary processes each application, prepares wordings for citations, and mails a copy of each application and proposed citation to the five members of the Hero Awards Committee. The Committee reviews each case, and the Chairman submits the report of the Committee to the Board of Directors and to the Council for final action at the annual meeting held in April or May.

#### TYPE B AWARDS--FOR INDIVIDUALS AND OFFICIALS

Applications are reviewed by the Secretary who prepares wordings for citations and distributes copies of the wordings to the five members of the Safety Awards Committee for consideration. The Safety Awards Committee reviews and acts on each case. Those recommended for approval are compiled in the Committee's report, which is submitted by the Committee Chairman to the Board of Directors and the Council for final action at the annual meeting held in April or May.

#### TYPE B-1 AWARDS--FOR INDIVIDUAL WORKERS

A minimum of 40 years of continuous work experience in the mineral extractive industries without incurring an injury that resulted in lost workdays is required for eligibility; this does not include clerical or office work. Applications for individuals who have been retired must be submitted two years after their retirement date.

Awards are Certificates of Honor and gold pins and gold decals bearing the insignia of the Association.

On retirement, former recipients are eligible for an individual award provided they have added five or more years to their previous work record without incurring an injury with lost workdays.

The following information is required on applications and must be submitted in time to reach the Secretary of the Association by March 15:

1. Name and occupation of person recommended.
2. Name and location of mine or plant where employed.
3. Name and address of employer or employers and MSHA identification number.
4. Type of industry in which the person has worked, such as copper smelter, quarry, cement plant, petroleum refinery, coal mine or metal mine (underground or surface).
5. Principal product.
6. The record period (dates of beginning and end, month, day, and year).
7. If the record is still continuing, the date of the beginning of the record and some recent date, such as the date of submitting record with notation "and continuing".
8. Any other information which might aid in considering the case. State whether work experience was underground or on surface, or both.
9. The application must be signed by a responsible official.

Newspaper items are not acceptable proof of records being achieved without an injury with lost workdays.

TYPE B-2 AWARDS--FOR INDIVIDUAL OFFICIALS  
(for record of group working under their supervision)

Awards are Certificates of Honor.

Eligibility is based on supervision without an injury with lost workdays in the mineral extractive industries for a record in excess of 250,000 man-hours for underground work and 350,000 man-hours for surface work, other than clerical work. Lesser man-hour records are considered when long periods of supervision (more than five years) are involved. Officials whose injury-free records span 20 years or more are recommended for awards without regard to their man-hour records.

Officials in policy making capacity, such as some superintendents, general superintendents, safety directors, managers, vice presidents, and presidents are not considered for awards. The intent of the Association in awarding Certificates of Honor to officials is to recognize the safety achievement of those supervisors who are in direct contact with employees.

Only one award is made for a single record. For example, both a shift boss and a mine foreman will not receive an award for the same cited record.

Additional awards are considered for officials whose achievements have exceeded their previous records by 50,000 man-hours or more.

The following information is required on applications, which must be submitted in time to reach the Secretary of the Association by March 15:

1. Name and occupational title of officials recommended.
2. Name and address of the employer and MSHA identification number.
3. The type of industry, such as copper smelter, quarry, cement plant, petroleum refinery, coal mine, or metal mine (underground or surface), and the department in which the record was made. If the record was made at a mine or quarry, state whether the record was achieved underground or on the surface.
4. The date of the last injury with lost workdays.
5. The period covered by the record, with the date of the beginning and end of record (month, day, year). If the record is continuing, give the date of beginning and some recent date, such as the date of submittal of application with notation "and continuing".
6. Total man-hours of exposure in the period covered by the record. The application will not be considered without this figure.
7. The average number of employees supervised by the official during the period covered by the record.

#### TYPE C AWARDS--FOR SAFETY RECORDS

Awards are Certificates of Honor.

Applications are screened by the Secretary who prepares proposed wordings for citations and distributes copies to the five members of the Safety Awards Committee for consideration. The Committee reviews each case. Those recommended for approval are compiled in the Committee's report, which is submitted to the Board of Directors and the Council for final action at the annual meeting held in April or May.

This group includes safety records of companies, safety organizations, mines, quarries, groups of mines, quarries or plants (when the grouping includes all the mines or plants in the area or district), and any operating department, except clerical (office), of a mine, quarry or plant. To qualify for an award in this group, the record must be compiled in the mineral extractive industries and may not include any manufacturing operations. For example,



mining and all operations contributing to the reduction of ores to metals are eligible to the point where metal is cast into molds. Blast furnace operations to the casting of pig iron are eligible. Further processing is classified as manufacturing. In oil and gas fields and at petroleum plants and refineries, all operations contributing to the production of crude oil and natural gas and to the extraction of petroleum products are eligible. Petrochemical processing operations are not eligible. At mineral processing plants (such as phosphate plants, cement plants, or lime plants), all concentrating, crushing, washing, grinding, drying, and storage operations are eligible. In short, all explorations, mining, quarrying, concentrating and mineral extraction operations are eligible for Joseph A. Holmes Safety Association Awards.

The following criteria, adopted at the April 25, 1961, annual meeting of the Association, will be used for consideration for Type C Awards:

The following minimum man-hours worked without a fatality or permanent total disability, providing the record exceeds three calendar months of operation, were adopted:

- a. 2,500,000 for underground mining operations. Consideration will be given to small mines for 20,000 man-hours times the average number of employees. No award will be given for an accumulated total of less than 250,000 man-hours.
- b. 5,000,000 for opencut mining, open quarrying, and petroleum drilling operations. Consideration will be given to small operations for 40,000 man-hours times the average number of employees. No award will be given for an accumulated total of less than 400,000 man-hours.
- c. For all other operations such as plant and surface operations other than those in (b), mills, concentrators, petroleum industry (except drilling), smelters, and reduction works, consideration will be based on 40,000 man-hours times the average number of employees. A record of 10,000,000 man-hours in preparation plants, concentrators, and mills, and 15,000,000 man-hours in the petroleum industry (except drilling), smelters and reduction works will be eligible for an award regardless of the number of employees. No award will be given for an accumulated total of less than 400,00 man-hours.

The following minimum man-hours worked without an injury with lost workdays, providing the record exceeds three calendar months of operation, were adopted:

- a. 400,000 for underground mines and petroleum drilling. Consideration will be given to small operations for 8,000 man-hours times the average number of employees. No award will be given for an accumulated total of less than 100,000 man-hours.
- b. 700,000 for opencut mines, quarries, and surface work (other than mills or preparation plants) at all mines. Consideration will be given to small operations for 14,000,000 man-hours

times the average number of employees. No award will be given for an accumulated total of less than 200,000 man-hours.

- c. 800,000 for mills, preparation plants, smelters, reduction works, and petroleum (except drilling). Consideration will be given to small operations for 16,000 man-hours times the average number of employees. No award will be given for an accumulated total of less than 250,000 man-hours.

The Association will consider, for underground mines, proposals combining injury-free records with no fatality or permanent total disability records. However, when the no fatality or permanent total disability record exceeds 3,000,000 man-hours, separate awards will be made.

The Association was cognizant of the difficulty of formulating and following definite rules when adopting the aforementioned. It was felt that the criteria should be somewhat flexible, owing to varying conditions encountered in the various branches of the mineral extractive industries.

The Association also recognizes improvements by injury rates, either incidence or severity measures or both. Type C Award requirements for this category involve steady notable improvement of rates over an extended period of several years. Improvements for one year compared to the previous year or average of several previous years will not be considered.

The following information is required on all applications for Type C Awards and must be submitted in time to reach the Secretary by March 15. Applications received after March 15 will not be considered for that year.

1. Name and address of the mine, quarry, plant or other mineral extractive operation.
2. Principal product.
3. Name and address of the company and MSHA identification number.
4. Type of operation (U.G., Surface, Preparation Plant, etc.).
5. Name of the supervisor under whose immediate direction the record was accomplished where mention of his name is desired in the award citation. A separate award will not be granted for the official for the same record given herein.
6. The date of the last fatality or permanent total disability, if the record is on a no-fatality (including permanent total disability) basis.
7. The date of the last injury with lost workdays if the record is on the basis of injury with lost workdays.

8. The date of the beginning and end of the record (month, day and year). If the record is a continuous one, close at some recent date such as December 31, or date of submitting record.
9. The average number of employees in the group who achieved the record during period covered.
10. Total man-hours of exposure in the period covered in item 8 above. Applications without this figure will not be considered. Where record is submitted for steady and notable improvement of injury rates over an extended period of several years, the following data for each year should be submitted in the form shown below:

<u>Year</u>	<u>Man-hours worked</u>	<u>No. of injuries (lost-time injuries)</u>	<u>No. of lost workdays</u>	<u>Incidence</u>	<u>Severity measure</u>
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#### OTHER AWARDS

Workers who complete 10, 20, or 30 years without an injury with lost workdays are eligible to receive Association awards. The awards are as follows: 30 years--a silver pin and decal bearing the insignia of the Association; 20 years--a similar bronze pin and decal; 10 years--a decal bearing the insignia of the Association.

Workers performing clerical or office work are not eligible for 10-, 20-, or 30-year awards.

The Association will arrange for the purchase of the pins and decals (a replica of the pin on a luminous decal that can be worn on hard-top hats) at cost to employers submitting proper applications. Only one award of each class (10-year, 20-year and 30-year awards) will be approved for an individual. The awards are presented by the employer. The employer is responsible for the accuracy of the safety records submitted. The employer may, however, consult records of other producers, mining institutes, State departments of mines, local or district unions, or any other reliable source. Newspaper accounts will not be considered.

Applications for 10-, 20-, and 30-year awards may be submitted at any time during the year to the Secretary of the Association. The Secretary is empowered to screen and process these applications. Forms to be used in applying for these awards may be obtained from the Secretary. The information desired on these applications is given below:

1. Type (10-, 20-, 30-year) award.
2. Name of individual.

3. Period of work without an injury with lost workdays. Give dates of beginning and end of period covered (month, day, and year).
4. Occupation of individual.
5. Name of mine, plant, or other mineral operation of present employment, and location, and MSHA mine identification number.
6. Type of operation (U.G., Surface, Preparation plant, etc.)
7. Principal product.
8. Brief details of previous employment, if any.
9. Name and address of company presently employing individual and MSHA mine identification number.
10. Signature and title of responsible company official submitting the record.
11. Date of application.

Robert B. Lagather  
President

Patricia C. Kuhn  
Secretary-Treasurer



ADDRESS

MINE SAFETY AND HEALTH ADMINISTRATION  
BALLSTON TOWER #3, RM. 524  
4015 WILSON BLVD.  
ARLINGTON, VA 22203

Phone: (703) 235-1335

Application  
(please type or print)

\_\_\_\_\_ is recommended for  
(last name, first, middle initial) (occupation)

\_\_\_\_\_ year award for injury-free non-office employment in the mineral  
(10, 20, 30 or 40)

extractive or allied industries. For the period of time

from \_\_\_\_\_ to \_\_\_\_\_  
(month, day, year injury-free work) (month, day, year injury-free work)

Employed by \_\_\_\_\_ at \_\_\_\_\_  
(company name) (mine or plant name)

\_\_\_\_\_ (location of mine or plant)

Principal Product \_\_\_\_\_ Type of Operation \_\_\_\_\_  
(UC, surface, prep plant, etc.)

Recommended by \_\_\_\_\_ Date \_\_\_\_\_

MSHA Mine I. D. No. \_\_\_\_\_

Brief details of previous employment, if any: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

We certify that \_\_\_\_\_ is presently employed by \_\_\_\_\_  
\_\_\_\_\_ and to the best of our ability we have verified that the  
service shown above has been injury-free.

Company \_\_\_\_\_

Address \_\_\_\_\_

City or Town \_\_\_\_\_

State \_\_\_\_\_ Zip Code \_\_\_\_\_

Official Signature \_\_\_\_\_

Title \_\_\_\_\_

It is understood that upon approval of this application, the awards will be furnished to the employer or other sponsor at a cost as follows:

10-year decal . . . . .	\$0.90
20-year pin and decal (bronze) . . . . .	\$4.00
30-year pin and decal (silver) . . . . .	\$7.50
40-year pin and decal (gold) . . . . .	\$10.00

All charges will be billed directly to your organization by the supplier. All prices are subject to change without notice.

# ABSTRACT FROM FATAL ACCIDENT

February 1981

HOLMES SAFETY ASSOCIATION  
MONTHLY SAFETY TOPIC



## POWERED HAULAGE ACCIDENT

General Information: A truck-haulage accident that occurred on the haulage roadway leading into a pit resulted in the death of a shot firer.

Description of Accident: The supervisor instructed the dozer operator to grade the roadway in the pit and to assist the end-loader operator and the shot firer (victim) in setting up a water pump to pump out the accumulations of water in the pit, approximately 5 feet in depth. After the pump was set, the suction and discharge lines were attached and the pump was started. Shortly thereafter, the pump was idled when the discharge line was found to be separated about 107 feet outby the pump along the haulage roadway into the pit.

Upon completion of the repairs to the discharge line, the victim informed the supervisor that because of the water and the congested area in the pit he would be unable to bring the powder truck into the pit and it would therefore be necessary that he carry a box of powder into the pit. At this time, the victim started walking along the roadway out of the pit to the powder truck which was parked at the top of the pit. Shortly afterwards, the supervisor decided to leave the pit area. Realizing that sufficient room was not available in the pit to turn the truck due to the water in the pit, the supervisor decided to back out of the pit. Accumulations of snow on the tool box mounted on the bed of the truck restricted the driver's vision and forced him to open the truck door through which he could watch his progress. After traveling about 83.5 feet on the 14 percent grade, he realized that the truck had passed over some obstacle. He stopped the truck and discovered the victim lying in the roadway. He immediately summoned help and the victim was removed to the hospital where he was pronounced dead.

Cause of Accident: This accident occurred primarily because the driver's vision was obstructed by a tool box and accumulations of snow on top of the tool box. The truck was not provided with an automatic warning device to give an alarm when the truck was placed in reverse.

SAFETY IS EVERYBODY'S BUSINESS

(For use in surface mining operations)

# ABSTRACT FROM FATAL ACCIDENT

February 1981

HOLMES SAFETY ASSOCIATION  
MONTHLY SAFETY TOPIC  
FALL-OF-RIB ACCIDENT



General Information: A fall-of-rib accident occurred in the crosscut of an entry resulting in the death of the shuttle-car operator. The victim had 2 years mining experience with 6 months as a shuttle-car operator.

Description of Accident: The section crew and supervisor entered the mine and traveled to the active working areas of the section. Upon arrival, the supervisor examined the working areas and assigned duties and work locations to the crew members. Although this crew normally worked the north returns area of the mine, due to a conveyor belt move in that area, the crew had been assigned to work on the second southeast section.

A general laborer and the victim were assigned to install rib support boards along the rib of the crosscut. The ribs were being supported by wooden boards and metal straps bolted to the ribs. The laborer explained that one board had been installed on the rib with two loose bolts to facilitate a metal strap around the corner. At that time, the laborer stated that he left the area to get a bolt to complete the installation and then he heard the rib fall. When he turned to look, he saw the victim caught under the fallen piece of rock. The supervisor, who was nearby, stated that he also heard the rock fall but did not actually see the rock strike the victim.

According to the section crew, recovery of the victim was started immediately and no signs of life were found. He was pronounced dead on arrival at the hospital.

Causes of Accident: The preshift examinations were not adequate, in that inadequately supported ribs and brows were present at several locations along the active roadways and crosscuts. These conditions were not recorded in the preshift-on shift examination book, a violation of Section 75.303(a).

Dangerous, loose and inadequately supported ribs and brows were present at numerous locations along the active roadways and connecting crosscuts in the second southeast mains section. Also, the approved roof control plan was not being complied with in the same areas, in that the spacing of rib bolts exceeded the maximum allowable distance of 6 feet, a violation of Section 75.200.

SAFETY IS EVERYBODY'S BUSINESS

(For use in underground coal-mining operations)



## HOLMES SAFETY ASSOCIATION MONTHLY SAFETY TOPIC

### Excerpts from Code of Federal Regulations

#### Subchapter N--Metal and Nonmetal Mine Safety

##### Part 55.7--Drilling

The following standards are mandatory federal standards relative to drilling in open-pit metal and non-metal mines. The purpose of the standards is for the protection of health and safety and the prevention of accidents. Any violation of these standards will subject the mine operator to an order or notice of violation as required by Section 8 of the Act.

- 55.7-1 (Reserved).
- 55.7-2 Mandatory. Equipment defects affecting safety shall be corrected before the equipment is used.
- 55.7-3 Mandatory. The drilling area shall be inspected for hazards before starting the drilling operations.
- 55.7-4 Mandatory. No person shall be on a mast while the drill-bit is in operation, unless that person is provided with a safe platform from which to work and each person is required to wear a safety belt to avoid falling.
- 55.7-5 Mandatory. Drill crews and others shall stay clear of augers or drill stems that are in motion. Persons shall not pass under or step over a moving stem or auger.
- 55.7-6 through 55.7-7 (Reserved).
- 55.7-8 Mandatory. When a drill is being moved from one drilling area to another, drill steel, tools, and other equipment shall be secured and the mast placed in a safe position.
- 55.7-9 Mandatory. If a drill helper assists the drill operator during movement of a drill to a new location, the helper shall be in sight of, or in communication with, the operator at all times.
- 55.7-10 Mandatory. In the event of power failure, drill controls shall be placed in the neutral position until power is restored.

SAFETY IS EVERYBODY'S BUSINESS

(For use in surface metal and nonmetal mines)



- 55.7-11 Mandatory. The drill stem shall be resting on the bottom of the hole or on the platform with the stem secured to the mast before attempts are made to straighten a crossed cable on a reel.
- 55.7-12 Mandatory. While in operation, drills shall be attended at all times.
- 55.7-13 Mandatory. Drill holes large enough to constitute a hazard shall be covered or guarded.
- 55.7-14 through 55.7-17 (Reserved).
- 55.7-18 Mandatory. Persons shall not hold the drill steel while collaring holes, or rest their hands on the chuck or centralizer while drilling.
- 55.7-19 through 55.7-49 (Reserved).
- 55.7-50 Mandatory. Receptacles or racks shall be provided for drill steel and tools stored or carried on drills.
- 55.7-51 Mandatory. To prevent injury to personnel, tools and other objects shall not be left loose on the mast or drill platform.
- 55.7-52 Mandatory. Persons shall not drill from:
- (a) Positions which hinder their access to the control levers;
  - (b) Insecure footing or insecure staging; or
  - (c) Atop equipment not suitable for drilling.
- 55.7-53 Mandatory. Before hand-held drills are moved from one working area to another, air shall be turned off and bled from the hose.
- 55.7-54 through 55.7-100 (Reserved).



## HOLMES SAFETY ASSOCIATION MONTHLY SAFETY TOPIC

Excerpts from Code of Federal Regulations  
Part 77--Surface Coal Mines and  
Surface Work Areas of Underground Coal Mines  
Sections 77.1300-77.1302  
Subpart N--Explosives and Blasting

These sections of the safety standards pertain to explosives storage magazines and vehicles used to transport explosives. Explosives used for surface mining are available in many forms: powders, slurries or cartridges. When the explosives are stored or transported in accordance with the following regulations, you can presume that they are relatively safe. However, improperly stored or transported, the energy released by the explosives could result in one or more persons being fatally injured by the force of the explosion.

Section 77.1300--Explosives and blasting.

(a) No explosives, blasting agent, detonator, or any other related blasting device or material shall be stored, transported, carried, handled, charged, fired, destroyed or otherwise used, employed, or disposed of by any person at a coal mine except in accordance with Section 77.1301 through 77.1304, inclusive.

(b) The term "explosives" as used in this Subpart N includes blasting agents. The standards in this Subpart N in which the term "explosives" appears are applicable to blasting agents (as well as to other explosives) unless blasting agents are expressly excluded.

Section 77.1301--Explosives; magazines.

(a) Detonators and explosives other than blasting agents shall be stored in magazines.

(b) Detonators shall not be stored in the same magazine with explosives.

(c) Magazines other than box type shall be:

(1) Located in accordance with the current American Table of Distances for storage of explosives.

(2) Detached structures located away from powerlines, fuel storage areas, and other possible sources of fire.

(3) Constructed substantially of noncombustible material or covered with fire-resistant material.

SAFETY IS EVERYBODY'S BUSINESS

(For use in surface-coal mining operations)

(4) Reasonably bullet resistant.

(5) Electrically bonded and grounded if constructed of metal.

(6) Made of nonsparking materials on the inside, including floors.

(7) Provided with adequate and effectively screened ventilation openings near the floor and ceiling.

(8) Kept locked securely when unattended.

(9) Posted with suitable danger signs so located that a bullet passing through the face of a sign will not strike the magazine.

(10) Used exclusively for storage of explosives or detonators and kept free of all extraneous materials.

(11) Kept clean and dry in the interior, and in good repair.

(12) Unheated, unless heated in a manner that does not create a fire or explosion hazard.

(d) Box-type magazines used to store explosives or detonators in work areas shall be constructed with only nonsparking material inside and equipped with covers or door and shall be located out of the line of blasts.

(e) Secondary and box-type magazines shall be suitably labeled.

(f) Detonator-storage magazines shall be separated by at least 25 feet from explosives-storage magazines.

(g) Cases or boxes containing explosives shall not be stored in magazines on their ends or sides nor stacked more than 6 feet high.

(h) Ammonium nitrate-fuel oil blasting agents shall be physically separated from other explosives, safety fuse, or detonating cord stored in the same magazine and in such a manner that oil does not contaminate the other explosives, safety fuse or detonating cord.

#### Section 77.1302--Vehicles used to transport explosives.

(a) Vehicles used to transport explosives, other than blasting agents, shall have substantially constructed bodies, no sparking metal exposed in the cargo space, and shall be equipped with suitable sides and tail gates; explosives shall not be piled higher than the side or end.

(b) Vehicles containing explosives or detonators shall be maintained in good condition and shall be operated at a safe speed and in accordance with all safe operating practices.

- (c) Vehicles containing explosives or detonators shall be posted with proper warning signs.
- (d) Other materials or supplies shall not be placed on or in the cargo space of a conveyance containing explosives, detonating cord or detonators, except for safety fuse and except for properly secured nonsparking equipment used expressly in the handling of such explosives, detonating cord, or detonators.
- (e) Explosives and detonators shall be transported in separate vehicles unless separated by 4 inches of hardwood or equivalent.
- (f) Explosives or detonators shall be transported promptly without undue delays in transit.
- (g) Explosives or detonators shall be transported at times and over routes that expose a minimum number of persons.
- (h) Only the necessary attendants shall ride on or in vehicles containing explosives or detonators.
- (i) Vehicles shall be attended, whenever practical and possible, while loaded with explosives or detonators.
- (j) When vehicles containing explosives or detonators are parked, the brakes shall be set, the motive power shut off, and the vehicles shall be blocked securely against rolling.
- (k) Vehicles containing explosives or detonators shall not be taken to a repair garage or shop for any purpose.



February 1981

## HOLMES SAFETY ASSOCIATION MONTHLY SAFETY TOPIC

### Disposable Butane Lighters

The popularity of disposable butane lighters makes it necessary to bring to our attention some potential hazards involved in their use.

Last year, in just two months a railroad experienced two fatal accidents caused by butane lighters. Both accidents occurred in welding areas where an employee was welding with a butane lighter in his pocket. A spark from the welding operation landed on the lighter and burned through the case thereby exposing the fluid in the lighter which exploded. One incident occurred when the lighter was in a shirt pocket and killed the individual instantly. The second incident occurred when a lighter being carried in the individual's pants pocket exploded and cause an amputation. The man later died from his injuries.

All personnel should be made aware of these hazards and should be cautioned regarding carrying butane lighters during welding or in an area where welding is being done.

(For use in all mining operations)

U = Underground  
 S = Surface  
 P = Plant

Report of Holmes Safety Association Safety Chapters

Established During Fourth Quarter--1980

1 MSHA  
 2 State  
 3 Management

Chapter	Mine	Company	Product	U	S	P	Member-ship	Charter No.	City	County	State	Established By	Date	Council Affiliation
College of Eastern Utah	Coll. of Eastern Utah	College of Eastern Utah	education				Other 5	2897	Price	Carbon	UT	1 MD Delridge 3 D Lauriski	10/1	Utah State Coal Council
Durham Quarry	Durham Quarry	Nello L. Teer Co.	crushed stone		X		47	2898	Durham	Durham	NC	3 B Phillips	10/14	Nonaffiliated
Neverson Quarry	Neverson Quarry	Nello L. Teer Co.	crushed stone		X		42	2899	Bailey	Wilson	NC	1 JH Johnson 3 B Phillips	10/14	Nonaffiliated
Princeton Quarry	Princeton Quarry	Nello L. Teer Co.	crushed stone		X		40	2900	Princeton	Johnston	NC	1 JH Johnson 3 B Phillips	10/14	Nonaffiliated
Crabtree Quarry	Crabtree Quarry	Nello L. Teer Co.	crushed stone		X		45	2901	Raleigh	Wake	NC	1 JH Johnson 3 B Phillips	10/14	Nonaffiliated
Raleigh Mine and Mill	Raleigh Quarry	Nello L. Teer Co.	crushed stone		X		40	2902	Wake Forest	Wake	NC	1 JH Johnson 3 B Phillips	10/14	Nonaffiliated
Elliott Mine and Mill	Elliott Quarry	Nello L. Teer Co.	crushed stone		X		26	2903	Erwin	Harnett	NC	1 JH Johnson 3 B Phillips	10/14	Nonaffiliated
Rocky Mount Quarry	Rocky Mount Quarry	Nello L. Teer Co.	crushed stone		X		45	2904	Rocky Mount	Edgecomb	NC	1 JH Johnson 3 B Phillips	10/14	Nonaffiliated
Black Thunder Mine	Black Thunder	Arasco	coal		X		500	2905	Gillette	Campbell	WY	1 MD Delridge	10/14	Powder River Basin Council

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Louisiana Industries	La. Ind.	Louisiana Industries, Inc.	sand/ gravel	X			30	2906	Sterling- ton	Quachita	LA	1 JH Johnson 3 B Jones	10/16	Nonaffiliated
Harwell Pit & Pit.	Harwell	Red Stick Gravel Co.	sand/ gravel	X	X		10	2907	Grange- ville	St. Helena	LA	1 JH Johnson 3 H Holloway	10/16	Nonaffiliated
Red Stick No. 1	No. 1 Plant	Red Stick Gravel Co.	sand/ gravel	X	X		15	2908	Baton Rouge	Baton Rouge	LA	1 JH Johnson 3 C Harper	10/17	Nonaffiliated
Lutesville Sand & Gravel	Lutesville Dredges	Lutesville Sand & Gravel Co., Inc.	sand/ gravel	X	X		50	2909	Colfax	Grant	LA	1 JH Johnson 3 A Slayter	10/17	Nonaffiliated
Louisiana Cement	La. Cement	Louisiana Cement Co.	limestone/ cement	X			200	2910	New Orleans	Orleans	LA	1 JH Johnson 3 J Mule	10/17	Nonaffiliated
Hammett Gravel	Hammett	Hammett Gravel Co., Inc.	sand/ gravel	X			40	2911	Lexing- ton	Holmes	MS	1 JH Johnson 3 H Hammett	10/21	Nonaffiliated
United States Gypsum	New Orleans Plant	United States Gypsum Co.	oyster & clam shells	X	Mill		120	2912	New Orleans	Orleans	LA	1 JH Johnson 3 L Herbold	10/21	Nonaffiliated
Pride Mine	Pride	Pyro Mining Co.	coal	X			220	2913	Sturgis	Union	WKY	3 S Short	11/1	Nonaffiliated
Pyro #11 Mine	Pyro #11	Pyro Mining Co.	coal	X			231	2914	Sullivan	Union	WKY	3 V Coleman	11/1	Nonaffiliated
Wheatcroft	Wheat- croft	Pyro Mining Co.	coal	X			229	2915	Wheat- croft	Webster	WKY	3 D Griffin	11/1	Nonaffiliated

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<sup>2</sup> State  
<sup>3</sup> Management

Chapter	Mine	Company	Product	U	S	P	Member- ship	Charter No.	City	County	State	Established By	Date	Council Affiliation
Pyro #6	Pyro #6	Pyro Mining Co.	coal	X			230	2916	Wheat- croft	Webster	WKY	<sup>3</sup> J Utley	11/1	Nonaffiliated
Pyro Surface	Pyro Surface	Pyro Mining Co.	coal		X		98	2917	Sturgis	Union	WKY	<sup>3</sup> W Hogan	11/1	Nonaffiliated
Pyro Prep. Pit. No. 1	Pyro Prep. Pit. 1	Pyro Mining Co.	coal		X		18	2918	Sturgis	Union	WKY	<sup>3</sup> W Hogan	11/1	Nonaffiliated
Pyro Prep. Pit. No. 2	Pyro Prep. Pit. 2	Pyro Mining Co.	coal		X		18	2919	Sturgis	Union	WKY	<sup>3</sup> W Hogan	11/1	Nonaffiliated
Pyro Dock	Pyro Dock	Pyro Mining Co.	coal			dock	6	2920	Cassey- ville	Union	WKY	<sup>3</sup> W Hogan	11/1	Nonaffiliated
Mountain States Engineers		Mountain States Engineers	mining produc- tion	X	X	Mill	500	2921	Tucson	Pima	AZ	<sup>1</sup> WH Hoover <sup>3</sup> R Maldonado	11/18	Nonaffiliated
London Mine	London	Coll Nuclear Corp.	gold/ silver	X			10	2922	Fairplay	Park	CO	<sup>1</sup> V Cain <sup>1</sup> MD DeLridge <sup>3</sup> R Nations	11/24	Nonaffiliated
Old Ben Mine 27	Old Ben 27	Old Ben Coal Co.	coal	X			357	2923	West Frankfort	Franklin	IL	J B Gibbs E Layne	11/25	John E. Jones
Shafter	Shafter	Cowin & Co.	silver	X			20	2924	Shafter	Presidio	TX	<sup>3</sup> JC Dowling	12/1	Nonaffiliated
American Mining	Wymer	American Mining Co.	coal		X		7	2925	Lockwood	Somerset	PA	<sup>1</sup> WH Hoover <sup>1</sup> ER Bell <sup>3</sup> GA Durst	12/1	Richard Maize
Bitner	Bitner	Bitner Coal Co.	coal	X			4	2926	Meyers- dale	Somerset	PA	<sup>1</sup> WH Hoover <sup>1</sup> ER Bell <sup>3</sup> GA Durst	12/1	Richard Maize

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Chapter	Mine	Company	Product	U S P	Member-ship	Charter No.	City	County	State	Established By	Date	Council Affiliation
Godin & Goden	Godin	Godin & Goden	coal	X	30	2927	Boswell	Somerset	PA	1 WH Hoover 1 ER Bell 3 GA Durst	12/1	Richard Maize
Hiram Wible	Crusher L & B	Hiram Wible and Son	coal	X	5	2928	Broad Top City	Huntington	PA	1 WH Hoover 1 ER Bell 3 GA Durst	12/1	Richard Maize
L & B	L & B Strip	L & B Coal Co.	coal	X	25	2929	Waterfall	Fulton	PA	1 WH Hoover 1 ER Bell 3 GA Durst	12/1	Richard Maize
Richards	Richards	Richards Coal Co.	coal	X	9	2930	McConnellsburg	Fulton	PA	1 WH Hoover 1 ER Bell 3 GA Durst	12/1	Richard Maize
M. E. Maize	M. E. Maize	M. E. Maize Coal Co.	coal	X	5	2931	Boswell	Somerset	PA	1 WH Hoover 1 ER Bell 3 GA Durst	12/1	Richard Maize
Pennbrook	Pennbrook	Pennbrook Coal Co.	coal	X	2	2932	Garrett	Somerset	PA	1 WH Hoover 1 ER Bell 3 GA Durst	12/1	Richard Maize
Richard Zonable	Richard Zonable	Richard Zonable	coal	X	5	2933	Coaldale	Somerset	PA	1 WH Hoover 1 ER Bell 3 GA Durst	12/1	Richard Maize
Trent	Trent	Trent Coal, Inc.	coal	X	5	2934	Broad Top	Huntington	PA	1 WH Hoover 1 ER Bell 3 GA Durst	12/1	Richard Maize
Apex Mining	Apex	Apex Mining, Inc.	coal	X	15	2935	Bowley Springs	Fayette	AL	1 JH Johnson 3 J Williams	12/4	Nonaffiliated



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Chapter	Mine	Company	Product	U	S	P	Member-ship	Charter No.	City	County	State	Established By	Date	Council Affiliation:
Whitewater Sand & Gravel	White-water	Martin Marietta Aggregates	sand/gravel	X			4	2936	Cleves	Hamilton	OH	<sup>3</sup> CA Bliss	12/5	Nonaffiliated
Weeping Water Quarry & Mill	Weeping Water	Martin Marietta Aggregates	sand/gravel	X			26	2937	Weeping Water	Cass	NE	<sup>3</sup> CA Bliss	12/5	Nonaffiliated
Portable #02	Portable #02	Martin Marietta Aggregates	sand/gravel	X			12	2938	Topeka	Shawnee	KS	<sup>3</sup> CA Bliss	12/5	Nonaffiliated
Portable #03	Portable #03	Martin Marietta Aggregates	sand/gravel	X			6	2939	Topeka	Shawnee	KS	<sup>3</sup> CA Bliss	12/5	Nonaffiliated

Total chapters established fourth quarter of 1980 . . . 34  
 Membership . . . 3,352

Total chapters nationwide . . . . . 1,573  
 Membership 218,935

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U.S. Department of Labor

LAB 441

MSHA, Office of Holmes  
Safety Association  
Education and Training  
P.O. Box 25367  
Denver, Colorado 80225



HOLMES SAFETY ASSOCIATION  
MEETING REPORT FORM

For the month of \_\_\_\_\_

TOTAL meetings held this month \_\_\_\_\_

TOTAL attendance this month \_\_\_\_\_

Chapter Number \_\_\_\_\_ (See address label, if incorrect, please indicate change.)

\_\_\_\_\_  
(Telephone No.)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Title)

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