

6/1/94

TITLE 36
LEGISLATIVE RULE
BOARD OF COAL MINE HEALTH AND SAFETY

SERIES 6
LONGWALL MINING

§36-6-1. General.

1.1. Scope. -- Rules and Regulations Governing Longwall Mining Within the State of West Virginia.

1.2. Authority. -- W. Va. Code §22-6-4

1.3. Filing Date. -- July 1, 1980

1.4. Effective Date. -- August 15, 1980

1.5. Other Law Applicable -- All provisions of the Mining Law of this State, specifically Chapter 22 A, Article 2 A of the Code are applicable to longwall mining, except to the extent that these regulations cover the specific requirement.

§36-6-2. Effective Law and Regulation

2.1. These regulations shall have the effect of law and violations shall be deemed a violation of law and so cited with the same effect as law. All provisions of Chapter 22 A, Article 1 A of the West Virginia Code relative to enforcement are applicable to the enforcement of these regulations.

§36-6-3. Definitions.

3.1. Department -- The term "Department" shall mean the State Department of Energy provided for in Section 2, Article 1 A, Chapter 22 A of the West Virginia Code.

3.2. Approved -- The term "Approved" shall mean in strict compliance with mining law, or, in the absence of law, accepted by a recognized standardizing body or organization whose approval is generally recognized as authoritative on the subject.

3.3 Accessible Travel Route -- "Accessible Travel Route" means an unobstructed passageway not less than twenty-four (24) inches wide with reflective

material at twenty-five (25) foot intervals.

3.4. Retreat Longwall Working Face. The term "Retreat Longwall Working Face" shall mean a working place in a coal mine in which work of extracting coal from its natural deposit in the earth is performed during a mining cycle by a longwall mining system.

3.5. Retreat Longwall Working Section -- The term "Retreat Longwall Working Section" shall mean all areas from and including the section transformer to and including the longwall working face.

3.6. Caving Line -- The term "Caving Line" shall mean the line on the roof formed by the rear most projection of the roof support canopies once the longwall section has started retreating.

§36-6-4. Plans for Longwall Mining; Approval by Department of Energy

4.1. After the effective date of these rules and regulations, no longwall mining shall be started in any coal mine until required plans for longwall mining have been filed and approved by the Department of Energy, which approval shall not be unreasonably withheld. All revisions to such approved plans shall be resubmitted for approval to the Department of Energy.

Longwall mining plans submitted for approval to the Department of Energy shall include the following:

- (a) Company Name
- (b) Mine Name
- (c) Mine Location
- (d) Mine Address

(e) Telephone Number (Mine)

(f) Name, title and telephone number of person submitting plan.

(g) Mine D Number

(h) Longwall Mining Roof Control Plan (All approved roof control plans for longwall mining sections shall include a plan indicating the roof support to be used and the working procedures to be followed when a cavity is encountered over chocks.

(i) Ventilation Plan, which shall include the complete section and face ventilation controls and bleeder systems.

(j) Methane and Dust Control Plan.

4.2. After approval of submitted plans has been obtained from the Department of Energy, as required in Section 4.1. and 4.2 of these rules and regulations, additional approvals for new longwall sections will not be necessary; providing required plans initially approved and/ or revised are complied with.

4.3. In coal mines where retreat longwall mining section operations are in progress prior to the effective date of these rules and regulations, no new longwall mining sections shall be started until required plans for longwall mining have been filed and approved by the Department of Energy, which approval shall not be unreasonably withheld.

§36-6-5. Chock and/or Shield Recovery Plan from Longwall Face; Approval by Department of Energy

5.1. The operator shall develop a plan for recovery of chocks and/or shields or other longwall roof support. Such recovery shall not be initiated until such recovery plan is approved by the Department of Energy, which approval shall not be unreasonably withheld. All revisions to such approved plan shall be resubmitted for approval to the Department of Energy.

§36-6-6. Communications; Longwall Working Face; Longwall Working Section

6.1. Two-way communication facilities, approved

by the Director of the Department of Energy, shall be provided at the headgate, tailgate and across each longwall section face. During the production of coal longwall section face communication facilities shall be a separate system from the mine communication facilities. Longwall section face communication facilities shall be located at a point not more than one-hundred (100) feet apart across the longwall section face.

6.2. Two-way communication facilities shall be provided on each longwall working section. During production of coal the headgate operator, or other designated person, shall be continuously available with the longwall section communication and longwall face communication facilities.

§36-6-7. Electrical De-energizing Devices; Longwall Section Face Conveyor

7.1. After the effective date of these rules and regulations, all new installed longwall section face conveyers shall be provided with lock-out type de-energizing devices to de-energize the electrical power on the longwall section face conveyor: Such de-energizing devices shall be provided at intervals of not more than fifty (50) feet when the height of the coal seam is below forty-eight (48) inches and at intervals of not more than one-hundred (100) feet when the height of the coal seam is above forty-eight (48) inches.

Twelve (12) months after the effective date of these rules and regulations all longwall mining sections that was in operation prior to the effective date of these rules and regulations shall be provided with lock-out type de-energizing devices on face conveyers as required in the aforementioned paragraph.

7.2. The headgate operator on the longwall section face shall be provided with emergency de-energizing devices to de-energize immediately the longwall mining face equipment.

7.3.

(1) At the beginning of each coal producing shift all emergency de-energizing devices shall be checked for proper functioning. If an emergency de-energizing device is found malfunctioning, mining

operations shall not begin until all de-energizing device is repaired.

(2) If during a coal producing shift a de-energizing device malfunctions, a designated person shall be stationed at the next de-energizing device until such time the malfunctioning de-energizing device are functioning properly.

(3) At no time shall more than one de-energizing device be malfunctioning while mining operations are in progress.

7.4. Longwall section face conveyor electrical circuits shall be designed so the face conveyor will not start at any other location until the lockout device is disengaged at the point of initial interruption.

7.5. All shearer and plow motors used on a longwall section face shall be designed so that the cutting bits on the shearer or plow cannot begin operating when electrical power is initially applied.

7.6. No person shall perform work on the panline or on the face side of the panline unless such equipment is de-energized and locked out.

§36-6-8. Methane Examinations; Monitor; Face Area.

8.1. The Director or his representative shall require an approved methane monitor to be installed at the headgate on a longwall working section. The censoring unit indicating the atmospheric conditions on the above methane monitor shall be installed at a location in by the rib line on the return side of the longwall face.

The methane monitor shall be kept operative and properly maintained and tested weekly.

Such methane monitor shall give warning automatically when the concentration of methane reaches a maximum percentage of not more than 1.0 volume percentum of methane.

The operator of any mine which longwall mining is performed shall establish and adopt a definite maintenance program designed to keep such methane monitors operative and a written description of such program shall be available for inspection. At least once each month the methane monitors shall be checked for operating accuracy with a known

methane air mixture and shall be calibrated as necessary. A record of calibration tests shall be kept in a book on the surface.

If the methane monitor on a longwall mining section malfunctions the operator shall have such monitor repaired within twelve (12) hours, however, during that period of time the methane monitor is inoperative, the electric equipment shall not be operated for a longer period than ten minutes without an examination for methane gas, the two hour examination as required in Section 8.2. of these rules and regulations shall be conducted on one hour intervals and air reading on the intake side of the longwall face shall be collected on one hour intervals

If for extraordinary reasons parts are unavailable to correct the malfunction on the methane monitor, within twelve hours, the operator shall notify the Department of Energy who will evaluate the circumstances.

If a malfunction to the methane monitor occurs on a longwall working section, the supervisor on such shift shall indicate in his on shift examination report, in the fire boss report books, the date and time such methane monitor malfunctioned.

8.2. It shall be the duty of the certified person designated by the mine foreman to supervise a longwall section, to examine the longwall face for hazards at least once every two (2) hours during each coal producing shift or more often if necessary for safety. Such examination shall include test for methane gas and oxygen deficiency. Such methane and oxygen deficiency examinations shall be made in at least one hundred foot intervals, between the headgate and tailgate. The initials, date, and time shall be recorded at the test locations.

Should one percent or more of methane gas be detected, the electrical equipment shall be immediately de-energized and the electrical power circuit then disconnected from the power supply until the place is pronounced safe by a certified person.

§36-6-9. Safety Provisions - Longwall Section Face Conveyor

9.1. No person shall cross the longwall section face the conveyor while such is in operation, unless a crossover is provided for a person to cross the face conveyor safely.

9.2. Prior to starting a longwall section face conveyor, telephone pager communications or other effective warning signal shall be sounded to alert all persons across the longwall section working face.

9.3. No person shall ride the longwall section face conveyor; however, a plan may be submitted to the Director of the Department of Energy for approval for the removal of injured persons on the longwall section face conveyor, provided it is necessary to transport such injured person on a stretcher or backboard.

9.4. All new face roof support units shall be equipped with adjacent unit controls unless units have a wide single canopy over each unit that protects the workman from falling material when operating unit controls from within the support of shield unit being removed.

9.5. After the effective date of these rules and regulations all new installed face roof support units shall be equipped with an outlet to facilitate measurement of the interior prop pressure.

After the effective date of these rules and regulations all new installed face roof support units shall be equipped with an outlet to facilitate measurement of the yield pressure.

9.6. Yield valves of face roof support units shall be calibrated at least annually within fifteen (15) percent of the yield pressure specified in the approved roof control plan. A legible record of such calibrations of each valve shall be kept on the surface of the mine for at least eighteen (18) months and be available for inspection by interested persons.

§36-6-10. Cutting and Welding; Longwall Mining Section

10.1. Prior to cutting and welding being performed on a longwall section face methane gas examinations shall be made by a certified mine foreman-fire boss or assistant mine foreman-fire boss. Cutting and welding may only be performed when methane gas is less than one percent. A certified person as defined above shall be continuously present during all cutting and welding operations.

10.2. Prior to cutting or welding on a longwall section face panline, such open bottom type panlines shall be jacked up, blocked and/or properly secured off the bottom a distance of at least ten (10) feet along the

face on both sides where such cutting is to be performed. Methane examinations shall be made before cutting and welding is initiated on such panlines.

10.3. When cutting and welding operations have been completed a certified person as defined above shall search for fires and hot spots. If fires or hot spots are found, they shall be extinguished immediately.

§36-6-11. Longwall Mining - General Requirements.

11.1. All hydraulic line repairs shall be performed in accordance with the requirements of the manufacturer's specifications.

11.2. All hydraulic roof support units and associated apparatus on a longwall working face shall be visually inspected at least once during each coal production shift by a qualified person. A written record of such examination shall be maintained on the surface.

§36-6-12. Longwall Mining; First-Aid Equipment

12.1. First aid equipment required on each working section as defined in Chapter 22 A, Article 2, Section 59 of the West Virginia Code shall be maintained in the headgate and tailgate entries at a point not to exceed one hundred-fifty (150) feet out by the longwall working face.

§36-6-13. Accessible Travel Route - Longwall Mining Section.

13.1. An accessible travel route shall be maintained at all times off of the tailgate end of the retreat longwall working face.

However, the operator may develop a plan for approval, by the Department of Energy to continue operation of the longwall working section in the event the tailgate route becomes impassable. Such plan shall include necessary provisions to be taken to provide additional protective devices for longwall section personnel.

When the tailgate travel routes becomes impassable the longwall operation shall cease immediately and all persons working on such longwall section shall be familiarized of the

procedures to follow for escape from such section. Such approved plan by the Department of Energy shall be implemented immediately.

The operator shall immediately notify the Department of Energy when such travel route becomes impassable.

The Department of Energy representative shall immediately upon notification establish a scheduled meeting with the operator and representatives of the miners at such mine.

§36-6-14. Training - Longwall Mining Section.

14.1. Training programs in the hazards of longwall mining shall be submitted for approval to the Director of the Department of Energy.

The training program shall consist of the following:

- (a) Escapeway and Travel Routes
- (b) Ventilation
- (c) Roof Support
- (d) Communications
- (e) Stop Controls and Signals
- (f) Location of First-Aid Equipment
- (g) Safety Rules for Longwall Mining



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TO: Ron Harris

AGENCY: Coal Mine Health & Safety

FROM: JUDY COOPER, DIRECTOR, ADMINISTRATIVE LAW DIVISION

DATE: July 26, 1994

THE ATTACHED RULE FILED BY YOUR AGENCY HAS BEEN ENTERED INTO OUR COMPUTER SYSTEM. PLEASE REVIEW, PROOF AND RETURN IT WITH ANY CORRECTIONS. IF THERE ARE NO CORRECTIONS, PLEASE SIGN THIS MEMO AND RETURN IT TO THIS OFFICE. YOU WILL BE SENT A FINAL VERSION OF THE RULE FOR YOUR RECORDS.

PLEASE RETURN EITHER THE CORRECTED RULE OR THIS FORM WITHIN TEN (10) WORKING DAYS OF THE DATE YOU RECEIVED THIS REQUEST. CALL IF YOU HAVE ANY QUESTIONS.

SERIES: 6 TITLE: 36 Coal Mine Health & Safety

* THE ATTACHED RULE HAS BEEN REVIEWED AND IS CORRECT.

SIGNED: Ronald L. Harris

TITLE OF PERSON SIGNING: Administrator - BCMH+S

DATE: July 29, 1994

* THE ATTACHED RULE HAS BEEN REVIEWED AND NEEDS CORRECTING. THE CORRECTIONS HAVE BEEN MARKED.

SIGNED: _____

TITLE OF PERSON SIGNING: _____

DATE: _____

NOTE: IF YOU ARE NOT THE PERSON WHO HANDLES THIS RULE, PLEASE FORWARD TO THE CORRECT PERSON.