**Pennsylvania Mining Laws**
**Section 273**

1. When providing fire protection by the use of waterlines, these water lines shall have the capability of delivering:

a. 30 GPM at 30 PSI
b. 50 GPM at 10 PSI
c. 25 GPM at 25 PSI
d. 50 GPM at 50 PSI

2. If a portable water car is utilized to provide fire protection at a mine, it shall be capable of:

a. At least 1000 gallons capacity
b. Providing at least 300 feet of fire hose with the car
c. Providing at least 50 GPM at 50 PSI at the nozzle
d. All of the above

3. If a portable chemical car is used in lieu of water lines or a water car, the chemical car must contain enough chemical to provide a fire extinguishing capacity equivalent to a portable water car.

a. True
b. False

4. If a portable foam machine is used for fire protection at a mine, it shall have a water supply capable of delivering:

a. 25 GPM at 25 PSI
b. 30 GPM at 30 PSI
c. 50 GPM at 50 PSI
d. None of the above; foam machines cannot be part of the fire protection package.

5. A portable fire extinguisher shall be:

a. A dry chemical type of at least 5 lbs. of chemical and enough propellant to discharge the chemical
b. Foam type capable of delivering at least 2½ lbs. of foam producing liquids
c. Either a or b
d. Neither a nor b

6. All portable fire extinguishers fire extinguishers shall have a 2A 5 BC or higher rating.

a. True
b. False

7. The maximum pressure of water being discharged from the nozzle of a fire hose shall be:

a. 50 PSI
b. 75 PSI
c. 100 PSI
d. 125 PSI

8. The bursting pressure of a fire hose shall be at least 4 times the water pressure at the valve to the hose inlet with the valve closed.

a. True
b. False

9. Each working section producing 300 tons or more per shift shall be provided with _____ portable fire extinguishers and _____ lbs. of rock dust, either in bags or suitable containers.

a. One, 240
b. Two, 240
c. Two, 250
d. Four, 250

10. Each working section producing more than 300 tons per shift shall have on hand a portable foam-generating machine or a portable high pressure rock dusting machine fitted with at least 250 feet of hose and 60 bags of rock dust.

a. True
b. False

11. In all mines, water lines shall be installed in belt conveyor entries parallel to its entire length, with fire valves located at least every 250 feet apart.

a. True
b. False

12. In mines producing more than 300 tons per shift and utilizing haulage tracks, water lines shall be installed parallel to all haulage tracks, either in the track entry or the entry adjacent to it.

a. True
b. False

13. In mines producing more than 300 tons per shift and utilizing haulage tracks, the corresponding water line shall have fire valves located at a distance of no greater than 500 feet.

a. True
b. False

14. Each mantrip shall be equipped with at least one fire extinguisher.

a. True
b. False

15. _____ shall be provided at each permanent oil station located underground.

a. A portable fire extinguisher and 240 lbs. of rock dust
b. 2 portable fire extinguishers
c. 2 portable fire extinguishers and 240 lbs. of rock dust
d. 240 lbs. of rock dust

16. Where welding or cutting is being done, there shall be on hand _____.

a. A portable fire extinguisher or 240 lbs. of rock dust
b. 2 portable fire extinguishers
c. 2 portable fire extinguishers and 240 lbs. of rock dust
d. 240 lbs. of rock dust

17. At a mine producing more than 300 tons of coal per shift, emergency materials consisting of 1000 feet of brattice board, 2 rolls of brattice cloth, 2 hand saws, 25 lbs. of 8d, 10d, and 16d nails, three claw hammers, and 10 bags of cement or its equivalent shall be located at distances of not more than 2 miles from each working section.

a. True
b. False

18. Where deluge type water sprays are used as fire protection on belt lines, the maximum distance between the sprays shall not exceed _____ feet.

a. 6
b. 8
c. 10
d. 12

19. Foam generating systems used as fire suppression at belt drives shall be capable of protecting the belt drive, take-up, electrical controls, gear reducing unit, and conveyor belt to a distance of:

a. 25 feet
b. 40 feet
c. 50 feet
d. One crosscut

20. The fire control components of each water sprinkler system shall be installed, as far as practicable, in accordance with the recommendations set forth in the _____.

a. National Fire Protection Association, Code #13, at the time of installation
b. 30 CFR Part 75.1000 series (fire protection on belts)
c. Approved fire and evacuation plan for each mine
d. John Breski handbook for Firefighters

21. When sprinklers are installed at the belt drives, they shall be installed in such a way that:

a. The employee that performs the weekly exam gets wet when he activates the system
b. Two branch lines are used, one for the top belt and one for the bottom belt
c. The water can be turned off to the sprinkler system between weekly tests
d. The sprays on the discharge roller are hosed with the fire sprinklers

22. A functional test of the complete water sprinkler system at the belt drive shall be done at least once each _____.

a. Day
b. Week
c. Month
d. Year

23. Sprinklers shall be activated when the sensor temperature reaches more than:

a. 100 degrees F
b. 150 degrees F
c. 200 degrees F
d. The burning temperature of the water hose

24. The water discharge rate from the sprinkler system shall not be less than per minute per square foot of the top surface of the belt.

a. 0.25 gallons
b. 2.5 gallons
c. 25 gallons
d. An acceptable amount in the opinion of the Department

25. One fire valve outlet shall be dedicated to each belt drive, along with at least 150 feet of fire hose and a nozzle.

a. True
b. False

26. When using dry chemical fire suppression system along belt drives, the piping, hoses, and nozzles shall have a minimum bursting pressure of at least:

a. 100 lbs.
b. 150 lbs.
c. 250 lbs.
d. 500 lbs.

27. The minimum amount of dry chemical required at belt drive installations with fire resistant belts shall be:

a. 100 lbs.
b. 125 lbs.
c. 250 lbs.
d. 500 lbs.

28. Where the dry powder chemical system has been actuated, all components shall be cleaned _____ by flushing all powder from pipes and hoses, and all hose damaged by fire be replaced.

a. Promptly
b. Immediately
c. Professionally
d. None of the above