**MR SIGNIFICANT SUBPARTS**

**MR ALL MODELS: ALL SUBPARTS THAT ARE P < 0.05 and POSITIVE IN MORE THAN HALF OF THE MODELS PER TYPE**

|  |  |
| --- | --- |
| **SUBPART** | **APPEARANCES** |
| **sp75\_604** | **8** |
| **sp77\_603** | **3** |
| **sp48\_26** | **3** |
| **sp75\_1728** | **2** |
| **sp75\_815** | **2** |
| **sp77\_808** | **2** |

**MR ALL MODELS: ALL SUBPARTS THAT ARE P < 0.01 and POSITIVE IN MORE THAN HALF OF THE MODELS PER TYPE**

|  |  |
| --- | --- |
| **SUBPART** | **APPEARANCES** |
| **sp75\_604** | **3** |

**MR ALL MODELS: ALL SUBPARTS THAT ARE P < 0.05 and NEGATIVE IN MORE THAN HALF OF THE MODELS PER TYPE**

|  |  |
| --- | --- |
| **SUBPART** | **APPEARANCES** |
| **sp77\_202** | **9** |
| **sp75\_515** | **8** |
| **sp77\_411** | **2** |
| **sp75\_800\_2** | **2** |
| **sp77\_901\_1** | **2** |
| **sp75\_1721** | **3** |

**MR ALL MODELS: ALL SUBPARTS THAT ARE P < 0.01 and NEGATIVE IN MORE THAN HALF OF THE MODELS PER TYPE**

|  |  |
| --- | --- |
| **SUBPART** | **APPEARANCES** |
| **sp77\_202** | **4** |
| **sp75\_800\_2** | **2** |
| **sp75\_1721** | **2** |
| **sp75\_515** | **2** |

**MR POSITIVE SUBPARTS**

## sp48\_26: Experienced miner training. (Excerpt: xperienced miners must complete the training prescribed in this section before beginning work duties. Each experienced miner returning to mining following an absence of 5 years or more, must receive at least 8 hours of training. The training must include the following instruction…)

**sp75\_604: Permanent splicing of trailing cables**. (Excerpt: When permanent splices in trailing cables are made, they shall be: (a) Mechanically strong with adequate electrical conductivity and flexibility; (b) Effectively insulated and sealed so as to exclude moisture…)

## sp75\_815: Disconnect devices. (Excerpt: The section power center must be equipped with a main disconnecting device installed to deenergize all cables extending to longwall equipment when the device is in the “open” position. See Figures I-1 and I-2 in Appendix A to this subpart I.)

**sp75\_1728: Power-driven pulleys.** (Full text: (a) Belts, chains, and ropes shall not be guided onto power-driven moving pulleys, sprockets, or drums with the hands except on slow-moving equipment especially designed for hand feeding. (b) Pulleys of conveyors shall not be cleaned manually while the conveyor is in motion. (c) Coal spilled beneath belt conveyor drives or tail pieces shall not be removed while the conveyor is in motion, except where such coal can be removed without endangering persons.)

**sp77\_603: Temporary splice of trailing cable.** (Full text: One temporary splice may be made in any trailing cable. Such trailing cable may only be used for the next 24-hour period. No temporary splice shall be made in a trailing cable within 25 feet of the machine, except cable reel equipment. Temporary splices in trailing cables shall be made in a workmanlike manner and shall be mechanically strong and well insulated. Trailing cables or hand cables which have exposed wires or which have splices that heat or spark under load shall not be used. As used in this section, the term “splice” means the mechanical joining of one or more conductors that have been severed.)

**sp77\_808: Disconnecting devices**. (Full text: Disconnecting devices shall be installed at the beginning of each branch line in high-voltage circuits and they shall be equipped or designed in such a manner that it can be determined by visual observation that the circuit is deenergized when such devices are open.)

**MR NEGATIVE SUBPARTS:**

## sp75\_515: Cable fittings; suitability. (Full text: Cables shall enter metal frames of motors, splice boxes, and electric compartments only through proper fittings. When insulated wires other than cables pass through metal frames, the holes shall be substantially bushed with insulated bushings.)

**sp75\_800\_2: Approved circuit schemes.** (Full text: The following circuit schemes will be regarded as providing the necessary protection to the circuits required by §75.800: (a) Ground check relays may be used for undervoltage protection if the relay coils are designed to trip the circuit breaker when line voltage decreases to 40 percent to 60 percent of the nominal line voltage; (b) Ground trip relays on resistance grounded systems will be acceptable as grounded phase protection; (c) One circuit breaker may be used to protect two or more branch circuits, if the circuit breaker is adjusted to afford overcurrent protection for the smallest conductor.)

## sp75\_1721: Opening of new underground coal mines, or reopening and reactivating of abandoned or deactivated coal mines, notification by the operator; requirements. (Excerpt: Each operator of a new underground coal mine, and a mine which has been abandoned or deactivated and is to be reopened or reactivated, shall prior to opening, reopening or reactivating the mine notify the Coal Mine Health and Safety District Manager for the district in which the mine is located of the approximate date of the proposed or actual opening of such mine. Thereafter, and as soon as practicable, the operator of such mine shall submit all preliminary plans in accordance with paragraphs (b) and (c) of this section to the District Manager and the operator shall not develop any part of the coalbed in such mine unless and until all preliminary plans have been approved.)

## sp77\_202L: Dust accumulations in surface installations. (Full text: Coal dust in the air of, or in, or on the surfaces of, structures, enclosures, or other facilities shall not be allowed to exist or accumulate in dangerous amounts.)

## sp77\_411:   Compressed air and boilers; general. (Full text: All boilers and pressure vessels shall be constructed, installed, and maintained in accordance with the standards and specifications of the American Society of Mechanical Engineers Boiler and Pressure Vessel Code.)

## sp77\_901\_1 Grounding resistor; continuous current rating. (Full text: The ground fault current rating of grounding resistors shall meet the “extended time rating” set forth in American Institute of Electrical Engineers Standard No. 32.)

**PS SIGNIFICANT SUBPARTS**

**PS ALL MODELS: ALL SUBPARTS THAT ARE P < 0.05 and POSITIVE IN MORE THAN HALF OF THE MODELS PER TYPE**

|  |  |
| --- | --- |
| **SUBPART** | **APPEARANCES** |
| **sp75\_1403\_10** | **9** |
| **sp75\_212** | **7** |
| **sp75\_1906** | **4** |
| **sp75\_205** | **3** |
| **sp75\_604** | **2** |
| **sp75\_807** | **2** |
| **sp75\_204** | **2** |
| **sp75\_1720** | **2** |

**PS ALL MODELS: ALL SUBPARTS THAT ARE P < 0.01 and POSITIVE IN MORE THAN HALF OF THE MODELS PER TYPE**

|  |  |
| --- | --- |
| **SUBPART** | **APPEARANCES** |
| **NONE** | **NONE** |

**PS ALL MODELS: ALL SUBPARTS THAT ARE P < 0.05 and NEGATIVE IN MORE THAN HALF OF THE MODELS PER TYPE**

|  |  |
| --- | --- |
| **SUBPART** | **APPEARANCES** |
| **sp75\_208** | **2** |
| **sp75\_1403\_8** | **3** |
| **sp75\_508\_1** | **3** |
| **sp75\_156** | **2** |
| **sp75\_1404\_1** | **3** |
| **sp75\_523\_3** | **2** |

**PS ALL MODELS: ALL SUBPARTS THAT ARE P < 0.01 and NEGATIVE IN MORE THAN HALF OF THE MODELS PER TYPE**

|  |  |
| --- | --- |
| **SUBPART** | **APPEARANCES** |
| **sp75\_508\_1** | **2** |

**PS POSITIVE SUBPARTS**

## sp75\_204: Roof bolting. (Excerpt: *Tensioned roof bolts.* (1) Roof bolts that provide support by creating a beam of laminated strata shall be at least 30 inches long. Roof bolts that provide support by suspending the roof from overlying stronger strata shall be long enough to anchor at least 12 inches into the stronger strata.)

**sp75\_205: Installation of roof support using mining machines with integral roof bolters.** (Full text: When roof bolts are installed by a continuous mining machine with integral roof bolting equipment: (a) The distance between roof bolts shall not exceed 10 feet crosswise. (b) Roof bolts to be installed 9 feet or more apart shall be installed with a wooden crossbar at least 3 inches thick and 8 inches wide, or material which provides equivalent support. (c) Roof bolts to be installed more than 8 feet but less than 9 feet apart shall be installed with a wooden plank at least 2 inches thick and 8 inches wide, or material which provides equivalent support.)

**sp75\_212: Rehabilitation of areas with unsupported roof.** (Excerpt: Before rehabilitating each area where a roof fall has occurred or the roof has been removed by mining machines or by blasting— (1) The mine operator shall establish the clean up and support procedures that will be followed; (2) All persons assigned to perform rehabilitation work shall be instructed in the clean-up and support procedures…)

**sp75\_604: Permanent splicing of trailing cables.** (Excerpt: When permanent splices in trailing cables are made, they shall be: (a) Mechanically strong with adequate electrical conductivity and flexibility; (b) Effectively insulated and sealed so as to exclude moisture…)

## sp75\_807:  Installation of high-voltage transmission cables. (Full text: All underground high-voltage transmission cables shall be installed only in regularly inspected air courses and haulageways, and shall be covered, buried, or placed so as to afford protection against damage, guarded where men regularly work or pass under them unless they are 61⁄2 feet or more above the floor or rail, securely anchored, properly insulated, and guarded at ends, and covered, insulated, or placed to prevent contact with trolley wires and other low-voltage circuits.)

## sp75\_1403\_10: Criteria—Haulage; general. (Excerpt: (a) A permissible trip light or other approved device such as reflectors, approved by the Coal Mine Safety District Manager(s), should be used on the rear of trips pulled, on the front of trips pushed and on trips lowered in slopes. However, trip lights or other approved devices need not be used on cars being shifted to and from loading machines, on cars being handled at loading heads, during gathering operations at working faces, when trailing locomotives are used, or on trips pulled by animals.)

**sp75\_1720: Protective clothing; requirements.** (Excerpt: On and after the effective date of this §75.1720 each miner regularly employed in the active workings of an underground coal mine shall be required to wear the following protective clothing and devices: (a) Protective clothing or equipment and face-shields or goggles when welding, cutting, or working with molten metal or when other hazards to the eyes exist from flying particles. (b) Suitable protective clothing to cover those parts of the body exposed to injury when handling corrosive or toxic substances or other materials which might cause injury to the skin…)

**sp75\_1906: Transport of diesel fuel.** (Excerpt: (a) Diesel fuel shall be transported only by diesel fuel transportation units or in safety cans. (b) No more than one safety can shall be transported on a vehicle at any time. The can must be protected from damage during transport. All other safety cans must be stored in permanent underground diesel fuel storage facilities. (c) Safety cans that leak must be promptly removed from the mine…)

**PS NEGATIVE SUBPARTS:**

**sp75\_156: AMS operator, qualifications.** (Full text: (a) To be qualified as an AMS operator, a person shall be provided with task training on duties and responsibilities at each mine where an AMS operator is employed in accordance with the mine operator's approved Part 48 training plan. (b) An AMS operator must be able to demonstrate to an authorized representative of the Secretary that he/she is qualified to perform in the assigned position.)

## sp75\_208: Warning devices. (Full text: Except during the installation of roof supports, the end of permanent roof support shall be posted with a readily visible warning, or a physical barrier shall be installed to impede travel beyond permanent support.)

## sp75\_508\_1: Mine tracks. (Full text: When mine track is used as a conductor of a trolley system, the location of such track shall be shown on the map required by §75.508, with a notation of the number of rails and the size of such track expressed in pounds per yard.)

## sp75\_523\_3: Automatic emergency-parking brakes. (Excerpt: (a) Except for personnel carriers, rubber-tired, self-propelled electric haulage equipment used in the active workings of underground coal mines shall be equipped with automatic emergency-parking brakes in accordance with the following schedule.)

**sp75\_1403\_8:** Criteria—Track haulage roads. (Excerpt: (a) The speed at which haulage equipment is operated should be determined by the condition of the roadbed, rails, rail joints, switches, frogs, and other elements of the track and the type and condition of the haulage equipment. (b) Track haulage roads should have a continuous clearance on one side of at least 24 inches from the farthest projection of normal traffic. Where it is necessary to change the side on which clearance is provided, 24 inches of clearance should be provided on both sides for a distance of not less than 100 feet and warning signs should be posted at such locations…)

## sp75\_1404\_1: Braking system. (Full text: A locomotive equipped with a dual braking system will be deemed to satisfy the requirements of §75.1404 for a train comprised of such locomotive and haulage cars, provided the locomotive is operated within the limits of its design capabilities and at speeds consistent with the condition of the haulage road. A trailing locomotive or equivalent devices should be used on trains that are operated on ascending grades.)