

Annex A

TITLE 25. ENVIRONMENTAL PROTECTION  
PART I. DEPARTMENT OF ENVIRONMENTAL PROTECTION  
Subpart D. ENVIRONMENTAL HEALTH AND SAFETY  
ARTICLE IV. OCCUPATIONAL HEALTH AND SAFETY  
CHAPTER 208: UNDERGROUND COAL MINE SAFETY

GENERAL PROVISIONS

§ 208.1. Definitions.

The following words and terms, when used in this chapter, have the following meanings, unless the context clearly indicates otherwise:

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**Barricaded**—means to obstruct passage of persons, vehicles, or flying materials.

**Berm**-- means a pile or mound of material capable of restraining a vehicle.

**Certified or registered**—As applied to any person means a person certified or registered by the State in which the coal mine is located to perform duties prescribed by 30 CFR Part 77, except that, in a State where no program of certification or registration is provided or where the program does not meet at least minimum Federal standards established by the Secretary, such certification or registration shall be by the Secretary of the United States Department of Labor.

**Flash point**-- means the minimum temperature at which sufficient vapor is released by a liquid or solid to form a flammable vapor-air mixture at atmospheric pressure.

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**Qualified person**—means, as the context requires: (i) An individual deemed qualified by the Secretary of the United States Department of Labor and designated by the operator to make tests and examinations required by 30 CFR Part 77; and (ii) An individual deemed, in accordance with the minimum requirements to be established by the Secretary of the United States Department of Labor, qualified by training, education, and experience, to perform electrical work, to maintain electrical equipment, and to conduct examinations and make tests of all electrical equipment.

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**Roll protection—means a framework, safety canopy, or similar protection for the operator when equipment overturns.**

**Safety can—means an approved container, of not over 5 gallons capacity, having a spring-closing lid and spout cover.**

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**Trailing cable—the cable connecting portable and mobile equipment to a power source. It is not considered a trailing cable if it connects to equipment which is installed in a stationary location and is permanently wired.**

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*(Editor's Note: The following text is new and is printed in regular type to enhance readability.)*

## **QUALIFIED AND CERTIFIED PERSONS**

### **§ 208.101. Certified person.**

The provisions of 30 CFR 77.100 (related to Certified person) are incorporated by reference.

### **§ 208.102. Tests for methane and for oxygen deficiency; qualified person.**

The provisions of 30 CFR 77.101 (related to tests for methane and for oxygen deficiency; qualified person) are incorporated by reference.

### **§ 208.103. Tests for methane; oxygen deficiency; qualified person, additional requirement.**

The provisions of 30 CFR 77.102 (related to Tests for methane; oxygen deficiency; qualified person, additional requirement) are incorporated by reference.

### **§ 208.104. Electrical work; qualified person.**

The provisions of 30 CFR 77.103 (related to Electrical work; qualified person) are incorporated by reference.

### **§ 208.105. Repair of energized surface high-voltage lines; qualified person.**

The provisions of 30 CFR 77.104 (related to Repair of energized surface high-voltage lines; qualified person) are incorporated by reference.

### **§ 208.106. Qualified hoistman; slope or shaft sinking operation; qualifications.**

The provisions of 30 CFR 77.105 (related to a Qualified hoistman; slope or shaft sinking operation; qualifications) are incorporated by reference.

**§ 208.107. Records of certified and qualified persons.**

The provisions of 30 CFR 77.106 (related to Records of certified and qualified persons) are incorporated by reference.

**§ 208.108. Training programs.**

The provisions of 30 CFR 77.107 (related to Training programs) are incorporated by reference, with the exception that MSHA will approve the training program.

**SURFACE INSTALLATIONS**

**§ 208.111. Surface installations; general.**

The provisions of 30 CFR 77.200 (related to Surface installations; general) are incorporated by reference.

**§ 208.112. Methane content in surface installations.**

The provisions of 30 CFR 77.201 (related to Methane content in surface installations) are incorporated by reference.

**§ 208.113. Tests for methane; qualified person; use of approved device.**

The provisions of 30 CFR 77.201-1 (related to Tests for methane; qualified person; use of approved device) are incorporated by reference.

**§ 208.114. Methane accumulations; change in ventilation.**

The provisions of 30 CFR 77.201-2 (related to Methane accumulations; change in ventilation) are incorporated by reference.

**§ 208.115. Dust accumulations in surface installations.**

The provisions of 30 CFR 77.202 (related to Dust accumulations in surface installations) are incorporated by reference.

**§ 208.116. Use of material or equipment overhead; safeguards.**

The provisions of 30 CFR 77.203 (related to Use of material or equipment overhead; safeguards) are incorporated by reference.

**§ 208.117. Openings in surface installations; safeguards.**

The provisions of 30 CFR 77.204 (related to Openings in surface installations; safeguards) are incorporated by reference.

**§ 208.118. Travelways at surface installations.**

The provisions of 30 CFR 77.205 (related to Travelways at surface installations) are incorporated by reference.

**§ 208.119. Ladders; construction; installation and maintenance.**

The provisions of 30 CFR 77.206 (related to Ladders; construction; installation and maintenance) are incorporated by reference.

**§ 208.120. Illumination.**

The provisions of 30 CFR 77.207 (related to Illumination) are incorporated by reference.

**§ 208.121. Storage of materials.**

The provisions of 30 CFR 77.208 (related to Storage of materials) are incorporated by reference.

**§ 208.122. Surge and storage piles.**

The provisions of 30 CFR 77.209 (related to Surge and storage piles) are incorporated by reference.

**§ 208.123. Hoisting of materials.**

The provisions of 30 CFR 77.210 (related to Hoisting of materials) are incorporated by reference.

**§ 208.124. Draw-off tunnels; stockpiling and reclaiming operations; general.**

The provisions of 30 CFR 77.211 (related to Draw-off tunnels; stockpiling and reclaiming operations; general) are incorporated by reference.

**§ 208.125. Continuous methane monitoring device; installation and operation; automatic deenergization of electric equipment.**

The provisions of 30 CFR 77.211-1 (relating to Continuous methane monitoring Device; installation and operation automatic deenergization of electric equipment) are incorporated by reference.

**§ 208.126. Draw-off tunnel ventilation fans; installation.**

The provisions of 30 CFR 77.212 (relating to Draw-off tunnel ventilation fans; installation) are incorporated by reference.

**§ 208.127. Draw-off tunnel escapeways.**

The provisions of 30 CFR 77.213 (relating to Draw-off tunnel escapeways) are incorporated by reference.

## **THERMAL DRYERS**

**§ 208.131. Thermal dryers; general.**

The provisions of 30 CFR 77.300 (relating to Thermal dryers; general) are incorporated by reference.

**§ 208.132. Dryer heating units; operation.**

The provisions of 30 CFR 77.301 (relating to Dryer heating units; operation) are incorporated by reference.

**§ 208.133. Bypass stacks.**

The provisions of 30 CFR 77.302 (relating to Bypass stacks) are incorporated by reference.

**§ 208.134. Hot gas inlet chamber dropout doors.**

The provisions of 30 CFR 77.303 (relating to Hot gas inlet chamber dropout doors) are incorporated by reference.

**§ 208.135. Explosion release vents.**

The provisions of 30 CFR 77.304 (relating to Explosion release vents) are incorporated by reference.

**§ 208.136. Access to drying chambers, hot gas inlet chambers and duct-work; installation and maintenance.**

The provisions of 30 CFR 77.305 (relating to Access to drying chambers, hot gas inlet chambers and duct work; installation and maintenance) are incorporated by reference.

**§ 208.137. Fire protection.**

The provisions of 30 CFR 77.306 (relating to Fire protection) are incorporated by reference.

**§ 208.138. Thermal dryers; location and installation; general.**

The provisions of 30 CFR 77.307 (relating to Thermal dryers; location and installation; general) are incorporated by reference.

**§ 208.139. Structures housing other facilities; use of partitions.**

The provisions of 30 CFR 77.308 (relating to Structures housing other facilities; use of partitions) are incorporated by reference.

**§ 208.140. Visual check of system equipment.**

The provisions of 30 CFR 77.309 (relating to Visual check of system equipment) are incorporated by reference.

**§ 208.141. Control stations; location.**

The provisions of 30 CFR 77.309-1 (relating to Control stations; location) are incorporated by reference.

**§ 208.142. Control panels.**

The provisions of 30 CFR 77.310 (relating to Control panels) are incorporated by reference.

**§ 208.143. Alarm devices.**

The provisions of 30 CFR 77.311 (relating to Alarm devices) are incorporated by reference.

**§ 208.144. Fail safe monitoring systems.**

The provisions of 30 CFR 77.312 (relating to Fail safe monitoring systems) are incorporated by reference.

**§ 208.145. Wet-coal feed bins; low-level indicators.**

The provisions of 30 CFR 77.313 (relating to Wet-coal feed bins; low-level indicators) are incorporated by reference.

**§ 208.146. Automatic temperature control instruments.**

The provisions of 30 CFR 77.314 (relating to Automatic temperature control instruments) are incorporated by reference.

**§ 208.147. Thermal dryers; examination and inspection.**

The provisions of 30 CFR 77.315 (relating to Thermal dryers; examination and inspection) are incorporated by reference.

**SAFEGUARDS FOR MECHANICAL EQUIPMENT**

**§ 208.151. Mechanical equipment guards.**

The provisions of 30 CFR 77.400 (relating to Mechanical equipment guards) are incorporated by reference.

**§ 208.152. Stationary grinding machines; protective devices.**

The provisions of 30 CFR 77.401 (relating to Stationary grinding machines; protective devices) are incorporated by reference.

**§ 208.153. Hand-held power tools; safety devices.**

The provisions of 30 CFR 77.402 (relating to Hand-held power tools; safety devices) are incorporated by reference.

**§ 208.154. Mobile equipment; falling object protective structures (FOPS)**

The provisions of 30 CFR 77.403 (relating to Mobile equipment; falling object protective structures (FOPS)) are incorporated by reference.

**§ 208.155. Mobile equipment; rollover protective structures (ROPS)**

All rubber-tired or crawler-mounted self-propelled scrapers front-end loaders, dozers, cranes, loaders and tractors, with or without attachments at the surface work areas of underground coal mines shall be provided with rollover protective structures, in accordance with the certification requirements approved by MSHA.

**§ 208.156. Seat belts**

The provisions of 30 CFR 77.403-1(g) (relating to seat belts) are incorporated by reference.

**§ 208.157. Machinery and equipment; operation and maintenance.**

The provisions of 30 CFR 77.404 (relating to Machinery and equipment; operation and maintenance) are incorporated by reference.

**§ 208.158. Performing work from a raised position; safeguards.**

The provisions of 30 CFR 77.405 (relating to Performing work from a raised position; safeguards) are incorporated by reference.

**§ 208.159. Drive belts.**

The provisions of 30 CFR 77.406 (relating to Drive belts) are incorporated by reference.

**§ 208.160. Power-driven pulleys.**

The provisions of 30 CFR 77.407 (relating to Power-driven pulleys) are incorporated by reference.

**§ 208.161. Welding operations.**

The provisions of 30 CFR 77.408 (relating to Welding operations) are incorporated by reference.

**§ 208.162. Shovels, draglines and tractors**

The provisions of 30 CFR 77.409 (relating to Shovels, draglines and tractors) are incorporated by reference.

**§ 208.163. Mobile equipment; automatic warning devices.**

The provisions of 30 CFR 77.410 (relating to Mobile equipment; automatic warning devices) are incorporated by reference.

**§ 208.164. Compressed air and boilers; general.**

The provisions of 30 CFR 77.411 (relating to Compressed air and boilers; general) are incorporated by reference.

**§ 208.165. Compressed air systems.**

The provisions of 30 CFR 77.412 (relating to Compressed air systems) are incorporated by reference.

**§ 208.166. Boilers.**

The provisions of 30 CFR 77.413 (relating to Boilers) are incorporated by reference.

**ELECTRICAL  
EQUIPMENT-GENERAL**

**§ 208.171. Electric power circuits and electric equipment; deenergization.**

The provisions of 30 CFR 77.500 (relating to Electric power circuits and electric equipment; deenergization) are incorporated by reference.

**§ 208.172. Electric distribution circuits and equipment; repair.**

The provisions of 30 CFR 77.501 (relating to Electric distribution circuits and equipment; repair) are incorporated by reference.

**§ 208.173. Qualified person.**

The provisions of 30 CFR 77.501-1 (relating to qualified person) are incorporated by reference.

**§ 208.174. Electric equipment; examination, testing, and maintenance.**

The provisions of 30 CFR 77.502 (relating to Electric equipment; examination, testing, and maintenance) are incorporated by reference.



**§ 208.175. Qualified person.**

The provisions of 30 CFR 77.502-1 (relating to Qualified person) are incorporated by reference.

**§ 208.176. Electric equipment; frequency of examination and testing.**

The provisions of 30 CFR 77.502-2 (relating to Electric equipment; frequency of examination and testing) are incorporated by reference.

**§ 208.177. Electric conductors; capacity and insulation.**

The provisions of 30 CFR 77.503 (relating to Electric conductors; capacity and insulation) are incorporated by reference.

**§ 208.178. Electric conductors.**

The provisions of 30 CFR 77.503-1 (relating to electric conductors) are incorporated by reference.

**§ 208.179. Electrical connections or splices; suitability.**

The provisions of 30 CFR 77.504 (relating to Electrical connections or splices; suitability) are incorporated by reference.

**§ 208.180. Cable fittings; suitability.**

The provisions of 30 CFR 77.505 (relating to Cable fittings; suitability) are incorporated by reference.

**§ 208.181. Electric equipment and circuits; overload and short-circuit protection.**

The provisions of 30 CFR 77.506 (relating to Electric equipment and circuits; overload and short-circuit protection) are incorporated by reference.

**§ 208.182. Electric equipment and circuits; overload and short circuit protection; minimum requirements.**

The provisions of 30 CFR 77.506-1 (relating to Electric equipment and circuits; overload and short circuit protection; minimum requirements) are incorporated by reference.

**§ 208.183. Electric equipment; switches.**

The provisions of 30 CFR 77.507 (relating to Electric equipment switches) are incorporated by reference.

**§ 208.184. Lightning arresters, ungrounded and exposed power conductors and telephone wires.**

The provisions of 30 CFR 77.508 (relating to Lightning arresters, ungrounded and exposed power conductors and telephone wires) are incorporated by reference.

**§ 208.185. Lightning arresters; wires entering buildings.**

The provisions of 30 CFR 77.508-1 (relating to Lightning arresters; wires entering buildings) are incorporated by reference.

**§ 208.186. Transformers; installation and guarding.**

The provisions of 30 CFR 77.509 (relating to Transformers; installation and guarding) are incorporated by reference.

**§ 208.187. Resistors; location and guarding.**

The provisions of 30 CFR 77.510 (relating to Resistors; location and guarding) are incorporated by reference.

**§ 208.188. Danger signs at electrical installations.**

The provisions of 30 CFR 77.511 (relating to Danger signs at electrical installations) are incorporated by reference.

**§ 208.189. Inspection and cover plates.**

The provisions of 30 CFR 77.512 (relating to Inspection and cover plates) are incorporated by reference.

**§ 208.190. Insulating mats at power switches.**

The provisions of 30 CFR 77.513 (relating to Insulating mats at power switches) are incorporated by reference.

**§ 208.191. Switchboards; passageways and clearance.**

The provisions of 30 CFR 77.514 (relating to Switchboards; passageways and clearance) are incorporated by reference.

**§ 208.192. Bare signal or control wires; voltage.**

The provisions of 30 CFR 77.515 (relating to Bare signal or control wires; voltage) are incorporated by reference.

**§ 208.193. Electric wiring and equipment; installation and maintenance.**

The provisions of 30 CFR 77.516 (relating to Electric wiring and equipment; installation and maintenance) are incorporated by reference.

**TRAILING CABLES**

**§ 208.201. Trailing cables; short-circuit protection; disconnecting devices.**

The provisions of 30 CFR 77.600 (relating to Trailing cables; short-circuit protection; disconnecting devices) are incorporated by reference.

**§ 208.202. Trailing cables or portable cables; temporary splices.**

The provisions of 30 CFR 77.601 (relating to Trailing cables or portable cables; temporary splices) are incorporated by reference.

**§ 208.203. Permanent splicing of trailing cables.**

The provisions of 30 CFR 77.602 (relating to Permanent splicing of trailing cables) are incorporated by reference.

**§ 208.204. Clamping of trailing cables to equipment.**

The provisions of 30 CFR 77.603 (relating to Clamping of trailing cables to equipment) are incorporated by reference.

**§ 208.205. Protection of trailing cables.**

The provisions of 30 CFR 77.604 (relating to Protection of trailing cables) are incorporated by reference.

**§ 208.206. Breaking trailing cable and power cable connections.**

The provisions of 30 CFR 77.605 (relating to Breaking trailing cable and power cable connections) are incorporated by reference.

**§ 208.207. Energized trailing cables; handling.**

The provisions of 30 CFR 606 (relating to Energized trailing cables; handling) are incorporated by reference.

**§ 208.208. Rubber gloves; minimum requirements.**

The provisions of 30 CFR 606-1 (relating to Rubber gloves; minimum requirements) are incorporated by reference.

**GROUNDING**

**§ 208.211. Grounding metallic sheaths, armors, and conduits enclosing power conductors.**

The provisions of 30 CFR 77.700 (relating to Grounding metallic sheaths, armors, and conduits enclosing power conductors) are incorporated by reference.

**§ 208.212. Approved methods of grounding.**

The provisions of 30 CFR 77.700-1 (relating to Approved methods of grounding) are incorporated by reference.

**§ 208.213. Grounding metallic frames, casings, and other enclosures of electric equipment.**

The provisions of 30 CFR 77.701 (relating to Grounding metallic frames, casings, and other enclosures of electric equipment) are incorporated by reference.

**§ 208.214. Approved methods of grounding of equipment receiving power from ungrounded alternating current power systems.**

The provisions of 30 CFR 77.701-1 (relating to Approved methods of grounding of equipment receiving power from ungrounded alternating current power systems) are incorporated by reference.

**§ 208.215. Approved methods of grounding metallic frames, casings, and other enclosures of electric equipment receiving power from a direct-current power system.**

The provisions of 30 CFR 77.701-2 (relating to Approved methods of grounding metallic frames, casings, and other enclosures of electric equipment receiving power from a direct-current power system) are incorporated by reference.

**§ 208.216. Grounding wires; capacity.**

The provisions of 30 CFR 77.701-3 (relating to Grounding wires; capacity) are incorporated by reference.

**§ 208.217. Use of grounding connectors.**

The provisions of 30 CFR 77.701-4 (relating to Use of grounding connectors) are incorporated by reference.

**§ 208.218. Protection other than grounding.**

The provisions of 30 CFR 77.702 (relating to Protection other than grounding) are incorporated by reference.

**§ 208.219. Grounding frames of stationary high-voltage equipment receiving power from ungrounded delta systems.**

The provisions of 30 CFR 77.703 (relating to Grounding frames of stationary high-voltage equipment receiving power from ungrounded delta systems) are incorporated by reference.

**§ 208.220. Approved methods of grounding.**

The provisions of 30 CFR 77.703-1 (relating to Approved methods of grounding) are incorporated by reference.

**§ 208.221. Work on high-voltage lines; deenergizing and grounding.**

The provisions of 30 CFR 77.704 (relating to Work on high-voltage lines; de-energizing and grounding) are incorporated by reference.

**§ 208.222. Work on high-voltage lines.**

The provisions of 30 CFR 77.704-1 (relating to Work on high-voltage lines) are incorporated by reference.

**§ 208.223. Repairs to energized high voltage lines.**

The provisions of 30 CFR 77.704-2 (relating to Repairs to energized high voltage lines) are incorporated by reference.

**§ 208.224. Work on energized high voltage surface lines; reporting.**

The provisions of 30 CFR 77.704-3 (relating to Work on energized high voltage surface lines; reporting) are incorporated by reference.

**§ 208.225. Simultaneous repairs.**

The provisions of 30 CFR 77.704-4 (relating to Simultaneous repairs) are incorporated by reference.

**§ 208.226. Installation of protective equipment.**

The provisions of 30 CFR 77.704-5 (relating to Installation of protective equipment) are incorporated by reference.

**§ 208.227. Protective clothing; use and inspection.**

The provisions of 30 CFR 77.704-6 (relating to Protective clothing; use and inspection) are incorporated by reference.

**§ 208.228. Protective equipment; inspection.**

The provisions of 30 CFR 77.704-7 (relating to Protective equipment; inspection) are incorporated by reference.

**§ 208.229. Protective equipment; testing and storage.**

The provisions of 30 CFR 77.704-8 (relating to Protective equipment; testing and storage) are incorporated by reference.

**§ 208.230. Operating disconnecting or cutout switches.**

The provisions of 30 CFR 77.704-9 (relating to Operating disconnecting or cutout switches) are incorporated by reference.

**§ 208.231. Tying into energized high-voltage surface circuits.**

The provisions of 30 CFR 77.704-10 (relating to Tying into energized high-voltage surface circuits) are incorporated by reference.

**§ 208.232. Use of grounded messenger wires; ungrounded systems.**

The provisions of 30 CFR 77.704-11 (relating to Use of grounded messenger wires; ungrounded systems) are incorporated by reference.

**§ 208.233. Guy wires; grounding.**

The provisions of 30 CFR 77.705 (relating to Guy wires; grounding) are incorporated by reference.

**SURFACE HIGH-VOLTAGE DISTRIBUTION**

**§ 208.241. High-voltage circuits; circuit breakers.**

The provisions of 30 CFR 77.800 (relating to High-voltage circuits; circuit breakers) are incorporated by reference.

**§ 208.242. Testing, examination, and maintenance of circuit breakers; procedures.**

The provisions of 30 CFR 77.800-1 (relating to Testing, examination, and maintenance of circuit breakers; procedures) are incorporated by reference.

**§ 208.243. Testing, examination, and maintenance of circuit breakers; record.**

The provisions of 30 CFR 77.800-2 (relating to Testing, examination, and maintenance of circuit breakers; record) are incorporated by reference.

**§ 208.244. Grounding resistors.**

The provisions of 30 CFR 77.801 (relating to Grounding resistors) are incorporated by reference.

**§ 208.245. Grounding resistors; continuous current rating.**

The provisions of 30 CFR 77.801-1 (relating to Grounding resistors; continuous current rating) are incorporated by reference.

**§ 208.246. Protection of high-voltage circuits; neutral grounding resistors; disconnecting devices.**

The provisions of 30 CFR 77.802 (relating to Protection of high-voltage circuits; neutral grounding resistors; disconnecting devices) are incorporated by reference.

**§ 208.247. Fail safe ground check circuits on high-voltage resistance grounded systems.**

The provisions of 30 CFR 77.803 (relating to Fail safe ground check circuits on high-voltage resistance grounded systems) are incorporated by reference.

**§ 208.248. Fail safe ground check circuits; maximum voltage.**

The provisions of 30 CFR 77.803-1 (relating to Fail safe ground check circuits; maximum voltage) are incorporated by reference.

**§ 208.249. Ground check systems not employing pilot check wires; approval by the Secretary.**

The provisions of 30 CFR 77.803-2 (relating to Ground check systems not employing pilot check wires; approval by the Secretary) are incorporated by reference.

**§ 208.250. High-voltage trailing cables; minimum design requirements.**

The provisions of 30 CFR 77.804 (relating to High-voltage trailing cables; minimum design requirements) are incorporated by reference.

**§ 208.251. Cable couplers and connection boxes; minimum design requirements.**

The provisions of 30 CFR 77.805 (relating to Cable couplers and connection boxes; minimum design requirements) are incorporated by reference.

**§ 208.252. Connection of single-phase loads.**

The provisions of 30 CFR 77.806 (relating to Connection of single-phase loads) are incorporated by reference.

**§ 208.253. Installation of high-voltage transmission cables.**

The provisions of 30 CFR 77.807 (relating to Installation of high-voltage transmission cables) are incorporated by reference.

**§ 208.254. High-voltage powerlines; clearances above ground.**

The provisions of 30 CFR 77.807-1 (relating to High-voltage powerlines; clearances above ground) are incorporated by reference.

**§ 208.255. Booms and masts; minimum distance from high-voltage lines.**

The provisions of 30 CFR 77.807-2 (relating to Booms and masts; minimum distance from high-voltage lines) are incorporated by reference.

**§ 208.256. Movement of equipment; minimum distance from high-voltage lines.**

The provisions of 30 CFR 77.807-3 (relating to Movement of equipment; minimum distance from high-voltage lines) are incorporated by reference.

**§ 208.257. Disconnecting devices.**

The provisions of 30 CFR 77.808 (relating to Disconnecting devices) are incorporated by reference.

**§ 208.258. Identification of circuit breakers and disconnecting switches.**

The provisions of 30 CFR 77.809 (relating to Identification of circuit breakers and disconnecting switches) are incorporated by reference.

**§ 208.259. High-voltage equipment; grounding.**

The provisions of 30 CFR 77.810 (relating to High-voltage equipment; grounding) are incorporated by reference.

**§ 208.260. Movement of portable substations and transformers.**

The provisions of 30 CFR 77.811 (relating to Movement of portable substations and transformers) are incorporated by reference.



## **LOW- AND MEDIUM-VOLTAGE ALTERNATING CURRENT**

### **§ 208.271. Low- and medium-voltage circuits serving portable or mobile three-phase alternating current equipment; circuit breakers.**

The provisions of 30 CFR 77.900 (relating to Low- and medium-voltage circuits serving portable or mobile three-phase alternating current equipment; circuit breakers) are incorporated by reference.

### **§ 208.272. Testing, examination, and maintenance of circuit breakers; procedures.**

The provisions of 30 CFR 77.900-1 (relating to Testing, examination, and maintenance of circuit breakers; procedures) are incorporated by reference.

### **§ 208.273. Testing, examination, and maintenance of circuit breakers; record.**

The provisions of 30 CFR 77.900-2 (relating to Testing, examination, and maintenance of circuit breakers; record) are incorporated by reference.

### **§ 208.274. Protection of low- and medium-voltage three-phase circuits.**

The provisions of 30 CFR 77.901 (relating to Protection of low- and medium-voltage three-phase circuits) are incorporated by reference.

### **§ 208.275. Grounding resistor; continuous current rating.**

The provisions of 30 CFR 77.901-1 (relating to Grounding resistor; continuous current rating) are incorporated by reference.

### **§ 208.276. Low- and medium-voltage ground check monitor circuits.**

The provisions of 30 CFR 77.902 (relating to Low- and medium-voltage ground check monitor circuits) are incorporated by reference.

### **§ 208.277. Fail safe ground check circuits; maximum voltage.**

The provisions of 30 CFR 77.902-1 (relating to Fail safe ground check circuits; maximum voltage) are incorporated by reference.

### **§ 208.278. Approved ground check systems not employing pilot check wires.**

The provisions of 30 CFR 77.902-2 (relating to Approved ground check systems not employing pilot check wires) are incorporated by reference.

**§ 208.279. Attachment of ground conductors and ground check wires to equipment frames; use of separate connections.**

The provisions of 30 CFR 77.902-3 (relating to Attachment of ground conductors and ground check wires to equipment frames; use of separate connections) are incorporated by reference.

**§ 208.280. Disconnecting devices.**

The provisions of 30 CFR 77.903 (relating to Disconnecting devices) are incorporated by reference.

**§ 208.281. Identification of circuit breakers.**

The provisions of 30 CFR 77.904 (relating to Identification of circuit breakers) are incorporated by reference.

**§ 208.282. Connection of single-phase loads.**

The provisions of 30 CFR 77.905 (relating to Connection of single-phase loads) are incorporated by reference.

**§ 208.283. Trailing cables supplying power to low-voltage mobile equipment; ground wires and ground check wires.**

The provisions of 30 CFR 77.906 (relating to Trailing cables supplying power to low-voltage mobile equipment; ground wires and ground check wires) are incorporated by reference.

**GROUND CONTROL**

**§ 208.291. Highwalls, pits and spoil banks; plans.**

The provisions of 30 CFR 77.1000 (relating to Highwalls, pits and spoil banks; plans) are incorporated by reference.

**§ 208.292. Filing of plan.**

The provisions of 30 CFR 77.1000-1 (relating to Filing of plans) are incorporated by reference.

**§ 208.293. Stripping; loose material.**

The provisions of 30 CFR 77.1001 (relating to Stripping; loose material) are incorporated by reference.

**§ 208.294. Box cuts; spoil material placement.**

The provisions of 30 CFR 77.1002 (relating to Box cuts; spoil material placement) are incorporated by reference.

**§ 208.295. Benches.**

The provisions of 30 CFR 77.1003 (relating to Benches) are incorporated by reference.

**§ 208.296. Ground control; inspections and maintenance; general.**

The provisions of 30 CFR 77.1004 (relating to Ground control; inspections and maintenance; general) are incorporated by reference.

**§ 208.297. Scaling highwalls; general.**

The provisions of 30 CFR 77.1005 (relating to Scaling highwalls; general) are incorporated by reference.

**§ 208.298. Highwalls; men working.**

The provisions of 30 CFR 77.1006 (relating to Highwalls; men working) are incorporated by reference.

**§ 208.299. Drilling; general.**

The provisions of 30 CFR 77.1007 (relating to Drilling; general) are incorporated by reference.

**§ 208.300. Relocation of drills; safeguards.**

The provisions of 30 CFR 77.1008 (relating to Relocation of drills; safeguards) are incorporated by reference.

**§ 208.301. Drill; operation.**

The provisions of 30 CFR 77.1009 (relating to Drill; operation) are incorporated by reference.

**§ 208.302. Collaring holes.**

The provisions of 30 CFR 77.1010 (relating to Collaring holes) are incorporated by reference.

**§ 208.303. Drill holes; guarding.**

The provisions of 30 CFR 77.1011 (relating to Drill holes; guarding) are incorporated by reference.

**§ 208.304. Jackhammers; operation; safeguards.**

The provisions of 30 CFR 77.1012 (relating to Jackhammers; operation; safeguards) are incorporated by reference.

**§ 208.305. Air drills; safeguards.**

The provisions of 30 CFR 77.1013 (relating to Air drills; safeguards) are incorporated by reference.

**FIRE PROTECTION**

**§ 208.311. Fire protection; training and organization.**

The provisions of 30 CFR 77.1100 (relating to Fire protection; training and organization) are incorporated by reference.

**§ 208.312. Escape and evacuation; plan.**

The provisions of 30 CFR 77.1101 (relating to Escape and evacuation; plan) are incorporated by reference.

**§ 208.313. Warning signs; smoking and open flame.**

The provisions of 30 CFR 77.1102 (relating to Warning signs; smoking and open flame) are incorporated by reference.

**§ 208.314. Flammable liquids; storage.**

The provisions of 30 CFR 77.1103 (relating to Flammable liquids; storage) are incorporated by reference.

**§ 208.315. Accumulations of combustible materials.**

The provisions of 30 CFR 77.1104 (relating to Accumulations of combustible materials) are incorporated by reference.

**§ 208.316. Internal combustion engines; fueling.**

The provisions of 30 CFR 77.1105 (relating to Internal combustion engines; fueling) are incorporated by reference.

**§ 208.317. Battery-charging stations; ventilation.**

The provisions of 30 CFR 77.1106 (relating to Battery-charging stations; ventilation) are incorporated by reference.

**§ 208.318. Belt conveyors.**

The provisions of 30 CFR 77.1107 (relating to Belt conveyors) are incorporated by reference.

**§ 208.319. Firefighting equipment; requirements; general.**

The provisions of 30 CFR 77.1108 (relating to Firefighting equipment; requirements; general) are incorporated by reference.

**§ 208.320. Type and capacity of firefighting equipment.**

The provisions of 30 CFR 77.1108-1 (relating to Type and capacity of firefighting equipment) are incorporated by reference.

**§ 208.321. Quantity and location of firefighting equipment.**

The provisions of 30 CFR 77.1109 (relating to Quantity and location of firefighting equipment) are incorporated by reference.

**§ 208.322. Examination and maintenance of firefighting equipment.**

The provisions of 30 CFR 77.1110 (relating to Examination and maintenance of firefighting equipment) are incorporated by reference.

**§ 208.323. Welding, cutting, soldering; use of fire extinguisher.**

The provisions of 30 CFR 77.1111 (relating to Welding, cutting, soldering; use of fire extinguisher) are incorporated by reference.

**§ 208.324. Welding, cutting, or soldering with arc or flame; safeguards.**

The provisions of 30 CFR 77.1112 (relating to Welding, cutting, or soldering with arc or flame; safeguards) are incorporated by reference.

**MAPS**

**§ 208.331. Mine map.**

The provisions of 30 CFR 77.1200 (relating to Mine map) are incorporated by reference.

**§ 208.332. Certification of mine maps.**

The provisions of 30 CFR 77.1201 (relating to Certification of mine maps) are incorporated by reference.

**§ 208.333. Availability of mine map.**

The provisions of 30 CFR 77.1202 (relating to Availability of mine map) are incorporated by reference.

## **PERSONNEL HOISTING**

### **§ 208.341. Personnel hoists and elevators.**

The provisions of 30 CFR 77.1400 (relating to Personnel hoists and elevators)

### **§ 208.342. Automatic controls and brakes.**

The provisions of 30 CFR 77.1401 (relating to Automatic controls and brakes) are incorporated by reference.

### **§ 208.343. Rated capacity**

The provisions of 30 CFR 77.1402 (relating to Rated capacity) are incorporated by reference.

### **§ 208.344. Maximum load; posting.**

The provisions of 30 CFR 77.1402-1 (relating to Maximum load; posting) are incorporated by reference.

### **§ 208.345. Daily examination of hoisting equipment.**

The provisions of 30 CFR 77.1403 (relating to Daily examination of hoisting equipment) are incorporated by reference.

### **§ 208.346. Certifications and records of daily examinations.**

The provisions of 30 CFR 77.1404 (relating to Certifications and records of daily examinations) are incorporated by reference.

### **§ 208.347. Operation of hoisting equipment after repairs.**

The provisions of 30 CFR 77.1405 (relating to Operation of hoisting equipment after repairs) are incorporated by reference.

## **WIRE ROPES**

### **§ 208.351. Wire ropes; scope.**

The provisions of 30 CFR 77.1430 (relating to Wire ropes; scope) are incorporated by reference.

### **§ 208.352. Minimum rope strength.**

The provisions of 30 CFR 77.1431 (relating to Minimum rope strength) are incorporated by reference.

**§ 208.353. Initial measurement.**

The provisions of 30 CFR 77.1432 (relating to Initial measurement) are incorporated by reference.

**§ 208.354. Examinations.**

The provisions of 30 CFR 77.1433 (relating to Examinations) are incorporated by reference.

**§ 208.355. Retirement criteria.**

The provisions of 30 CFR 77.1434 (relating to Retirement criteria) are incorporated by reference.

**§ 208.356. Load end attachments.**

The provisions of 30 CFR 77.1435 (relating to Load end attachments) are incorporated by reference.

**§ 208.357. Drum end attachment.**

The provisions of 30 CFR 77.1436 (relating to Drum end attachment) are incorporated by reference.

**§ 208.358. End attachment retermination**

The provisions of 30 CFR 77.1437 (relating to End attachment retermination) are incorporated by reference.

**§ 208.359. End attachment replacement.**

The provisions of 30 CFR 77.1438 (relating to End attachment replacement) are incorporated by reference.

**LOADING AND HAULAGE**

**§ 208.361. Loading and haulage; general**

The provisions of 30 CFR 77.1600 (relating to Loading and haulage; general) are incorporated by reference.

**§ 208.362. Transportation of persons; restrictions**

The provisions of 30 CFR 77.1601 (relating to Transportation of persons; restrictions) are incorporated by reference.

**§ 208.363. Trains and locomotives; authorized persons**

The provisions of 30 CFR 77.1603 (relating to Trains and locomotives; authorized persons) are incorporated by reference.

**§ 208.364. Transportation of persons; overcrowding**

The provisions of 30 CFR 77.1604 (relating to Transportation of persons; overcrowding) are incorporated by reference, with the exception of the following modification:

(a) No man-trip vehicle or other conveyance used to transport persons to and from the surface work areas of underground bituminous coal mines shall be overcrowded and all persons shall ride in a safe position.

**§ 208.365. Loading and haulage equipment; installations.**

The provisions of 30 CFR 77.1605 (relating to Loading and haulage equipment; installations) are incorporated by reference.

**§ 208.366. Loading and haulage equipment; inspection and maintenance.**

The provisions of 30 CFR 77.1606 (relating to Loading and haulage equipment; inspection and maintenance) are incorporated by reference.

**§ 208.367. Loading and haulage equipment; operation.**

The provisions of 30 CFR 77.1607 (relating to Loading and haulage equipment; operation) are incorporated by reference.

**§ 208.368. Dumping facilities**

The provisions of 30 CFR 77.1608 (relating to Dumping facilities) are incorporated by reference.

**MISCELLANEOUS**

**§ 208.371. Communications in work areas.**

The provisions of 30 CFR 77.1700 (relating to Communications in work areas) are incorporated by reference.

**§ 208.372. First aid equipment; location; minimum requirements**

The provisions of 30 CFR 77.1707 (relating to First aid equipment; location; minimum requirements) are incorporated by reference.

**§ 208.373. Protective clothing; requirements.**

The provisions of 30 CFR 77.1710 (relating to Protective clothing; requirements) are incorporated by reference.



**§ 208.374. Distinctively colored hard hats or hard caps; identification for newly employed, inexperienced miners.**

The provisions of 30 CFR 77.1710-1 (relating to Distinctively colored hard hats or hard caps; identification for newly employed, inexperienced miners) are incorporated by reference.

**§ 208.375. Smoking prohibition.**

The provisions of 30 CFR 77.1711 (relating to Smoking prohibition) are incorporated by reference.

**TROLLEY WIRES AND TROLLEY FEEDER WIRES**

**§ 208.381. Cutout switches.**

The provisions of 30 CFR 77.1800 (relating to Cutout switches) are incorporated by reference.

**§ 208.382. Overcurrent protection.**

The provisions of 30 CFR 77.1801 (relating to Overcurrent protection) are incorporated by reference.

**§ 208.383. Devices for overcurrent protection.**

The provisions of 30 CFR 77.1800-1 (relating to Devices for overcurrent protection) are incorporated by reference.

**§ 208.384. Insulation of trolley wires, trolley feeder wires and bare signal wires; guarding of trolley wires and trolley feeder wires.**

The provisions of 30 CFR 77.1802 (relating to Insulation of trolley wires, trolley feeder wires and bare signal wires; guarding of trolley wires and trolley feeder wires) are incorporated by reference.

**SLOPE AND SHAFT SINKING**

**§ 208.391. Slopes and shafts; approval of plans.**

The provisions of 30 CFR 77.1900 (relating to Slopes and shafts; approval of plans) are incorporated by reference, with the following modifications:

The Department will approve plans relating to slope and shaft sinking and construction.

**§ 208.392. Compliance with approved slope and shaft sinking plans.**

The provisions of 30 CFR 77.1900-1 (relating to Compliance with approved slope and shaft sinking plans) are incorporated by reference.

**§ 208.393. Preshift and onshift inspections; reports.**

The provisions of 30 CFR 77.1901 (relating to Preshift and onshift inspections; reports) are incorporated by reference.

**§ 208.394. Methane and oxygen deficiency tests; approved devices.**

The provisions of 30 CFR 77.1901-1 (relating to Methane and oxygen deficiency tests; approved devices) are incorporated by reference.

**§ 208.395. Drilling and mucking operations.**

The provisions of 30 CFR 77.1902 (relating to Drilling and mucking operations) are incorporated by reference.

**§ 208.396. Permissible diesel-powered equipment.**

The provisions of 30 CFR 77.1902-1 (relating to Permissible diesel-powered equipment) are incorporated by reference.

**§ 208.397. Hoists and hoisting; minimum requirements.**

The provisions of 30 CFR 77.1903 (relating to Hoists and hoisting; minimum requirements) are incorporated by reference.

**§ 208.398. Communications between slope and shaft bottoms and hoist operators.**

The provisions of 30 CFR 77.1904 (relating to Communications between slope and shaft bottoms and hoist operators) are incorporated by reference.

**§ 208.399. Hoist safeguards; general.**

The provisions of 30 CFR 77.1905 (relating to Hoist safeguards; general) are incorporated by reference.

**§ 208.400. Hoists; daily inspection.**

The provisions of 30 CFR 77.1906 (relating to Hoists; daily inspection) are incorporated by reference.

**§ 208.401. Hoist construction; general.**

The provisions of 30 CFR 77.1907 (relating to Hoist construction; general) are incorporated by reference.

**§ 208.402. Hoist installations; use.**

The provisions of 30 CFR 77.1908 (relating to Hoist installations; use) are incorporated by reference.

**§ 208.403. Hoist operation; qualified hoistman.**

The provisions of 30 CFR 77.1908-1 (relating to Hoist operation; qualified hoistman) are incorporated by reference.

**§ 208.404. Explosives and blasting; use of permissible explosives and shot-firing units.**

The provisions of 30 CFR 77.1909 (relating to Explosives and blasting; use of permissible explosives and shot-firing units) are incorporated by reference.

**§ 208.405. Use of nonpermissible explosives and nonpermissible shot-firing units; approval by Health and Safety District Manager.**

The provisions of 30 CFR 77.1909-1 (relating to Use of nonpermissible explosives and non-permissible shot-firing units; approval by Health and Safety District Manager) are incorporated by reference.

**§ 208.406. Explosives and blasting; general.**

The provisions of 30 CFR 77.1910 (relating to Explosives and blasting; general) are incorporated by reference, with the exception of the following modification:

(b) All explosive materials, detonators, and any other related blasting material employed in the development of any slope or shaft shall be stored, transported, carried, charged and fired in accordance with the provisions of 25 Pa Code Chapters 210 and 211. Except as provided in paragraph (c) of this section, all shots shall be fired from the surface.

**§ 208.407. Ventilation of slopes and shafts.**

The provisions of 30 CFR 77.1911 (relating to Ventilation of slopes and shafts) are incorporated by reference.

**§ 208.408. Ladders and stairways.**

The provisions of 30 CFR 77.1912 (relating to Ladders and stairways) are incorporated by reference.

**§ 208.409. Fire-resistant wood.**

The provisions of 30 CFR 77.1913 (relating to Fire-resistant wood) are incorporated by reference.

**§ 208.410. Electrical equipment.**

The provisions of 30 CFR 77.1914 (relating to Electrical equipment) are incorporated by reference.

**§ 208.411. Storage and handling of combustible materials.**

The provisions of 30 CFR 77.1915 (relating to Storage and handling of combustible materials) are incorporated by reference.

**§ 208.412. Welding, cutting, and soldering; fire protection.**

The provisions of 30 CFR 77.1916 (relating to Welding, cutting, and soldering; fire protection) are incorporated by reference.