

### Comparison 30 CFR 77 and PA Mining Regulations

#### Subpart K – Ground Control

| Federal Provision | Title  | Is there State Regs | Regulation              | Summary   |
|-------------------|--|---------------------|-------------------------|---|
| 77.1000           | Highwalls, pits and spoil; plans                     | N                   |                         | Operator shall establish and follow a ground control plan                                 |
| 77.1000-1         | Filing of Plan.                                      | N                   |                         | Operator shall file copy of plan with MSHA.   |
| 77.1001           | Stripping; loose material                            | Y                   | 209a.8.(1) by reference | Loose material shall be stripped for a safe distance from highwall.                       |
| 77.1002           | Box cuts, spoil material placement                   | Y                   | 209a.8.(2) by reference | Precautions shall be taken to minimize spoil rolling into pit.                            |
| 77.1003           | Benches  | Y                   | 209a.8.(3) by reference | Width and height of benches governed by equipment and operation performed.                |
| 77.1004           | Ground Control; inspection and maintenance; general. | Y                   | 209a.8.(4) by reference | Highwalls examined after rain, freeze or thaw before men work.                            |
| 77.1005           | Scaling highwalls; general                           | Y                   | 209a.8.(5) by reference | Hazardous areas shall be scaled before other work is performed.                           |
| 77.1006           | Highwalls; men working                               | Y                   | 209a.8.(6) by reference | Men shall not work near or under dangerous highwalls or banks.                            |
| 77.1007           | Drilling; general.                                   | Y                   | 209a.8.(7) by reference | Equipment shall be inspected and safety defects corrected before use.                     |
| 77.1008           | Relocation of drills; safeguards                     | Y                   | 209a.8.(8) by reference | Equipment secured and mast placed in safe position when moving drill.                     |
| 77.1009           | Drill; operation                                     | Y                   | 209a.8.(9) by reference | Drill attended at all times and operated on secure footing with access to control levers. |
| 77.1010           | Collaring Holes                                      | N                   |                         | Starter steels shall be used and men shall not hold the drill steel                       |
| 77.1011           | Drill holes; guarding                                | N                   |                         | Drill holes large enough to constitute a hazard shall be covered.                         |
| 77.1012           | Jackhammers; operation; safeguards                   | N                   |                         | Men position themselves so that they will not   |

|         |                        |   |  |   |
|---------|------------------------|---|--|---|
|         |                        |   |  | be struck if drill steel breaks.                                |
| 77.1013 | Air drills; safeguards | N |  | Air turned off and bled from hoses before air drills are moved. |

**Subpart P – Auger Mining**

|         |   |   |                             |  |
|---------|---|---|-----------------------------|--|
| 77.1500 | Auger mining; planning                    | Y | 209a.10.(a)(1) by reference | Auger mining shall be planned and conducted to insure against hazard to underground workings.  |
|         |   |   | 87.176(b)                   | Auger hole may not be made closer than 500 feet to underground workings  |
| 77.1501 | Auger mining; inspections                 | Y | 209a.10.(a)(2) by reference | Highwalls shall be inspected by certified person before augering. Test for methane and oxygen if abandoned or mined out area are penetrated.   |
| 77.1502 | Auger holes; restriction against entering | N |                             | No person permitted to enter auger hole except with approval from MSHA   |
| 77.1503 | Augering equipment; overhead protection   | Y | 209a.10.(a)(3) by reference | Auger machines and conveyors where persons work shall be covered with heavy gage screen. No work shall be done under overhang. One person assigned to observe highwall for movement. |
| 77.1504 | Auger equipment; operation                | Y | 209a.10.(a)(4) by reference | Persons keep clear of auger in motion, being swung into position. Operator may not leave controls when in operation. Adequate illumination after dark.                               |
| 77.1505 | Auger holes; blocking                     | N |                             | Auger holes shall be blocked with highwall spoil before they are abandoned.  |
|         |   |   | 87.176(c)                   | Auger holes shall be plugged by backfilling and compacting noncombustible and impervious material in the hole  |