

## Mapping Requirements for Underground Coal Mines

Section 45.1-161.64 of the Coal Mine Safety Laws of Virginia require mine maps to be submitted in an electronic format prior to commencing mining activity and at intervals not to exceed twelve (12) months. Annual maps must be up-to-date and certified by a registered engineer or registered surveyor. If there have been no changes since the last submittal, maps are not required, however, written notification that no changes have occurred should be forwarded to the Department.

### *Annual maps must include the following:*

- Scale between 100 ft. and 500 ft. to 1 inch with the scale noted on the map.
- Map in Virginia State Plane Coordinate System.
- Posted date.
- Mine name, company name, and mine index #.
- Legend and symbols used.
- Delineate active and worked out areas of the mine.
- Mining projections for at least 12 months.
- Location of gas wells, vertical ventilation holes and all known drill holes.
- Adjacent mine workings within 1000 ft. of the mine property.
- Overlying and underlying mine workings with interburden and/or elevations.
- Impoundments of water in overlying mine workings and on the surface.
- Direction of air current and quantity of air current at the following locations:
  1. entering and leaving each split.
  2. in the last open crosscut of each set of entries and rooms.
  3. at the intake end of each set of entries and rooms.
  4. at the intake end of each pillar line, including any longwall or shortwall.
- All mine fans and ventilation controls, except temporary controls on working sections.
- Primary and secondary escapeways.
- Property lines and outcrop within 1000 ft. of any part of the mine workings.
- Elevations and contour lines (shown at each 10 ft. elevation interval).
- Elevations of tops and bottoms of shafts, slopes, and floor at the entrance to drift openings.
- Name of person responsible for information on the map.

### *The operator may elect to show information required for bleeder maps on the annual map also. In order to meet the bleeder map requirements the map must include the following:*

- Existing bleeder system and projected bleeder system for 1 year.
- Location of all ventilation controls within the bleeder system.
- Direction of air flow through the bleeder system.
- Approved locations (SLs, EPs, etc.) where the quantity and quality of the air current is determined and such proposed locations.
- Location of all vertical ventilation holes, coal bed methane wells, whether active, inactive, or plugged, with identification of each well.
- Signed by a company official certifying that the information on the map is correct.