



## **REQUIREMENTS FOR PERMISSIBLE WATER PUMP USAGE IN RETURN AIRWAYS**

1. Approval for permissible pump in return airway must be obtained from the Director and the following guidelines must be complied with:
  2. Location of pump must be identified on the mine map.
  3. Area of pump must be examined by certified mine foreman – fireboss upon initial installation and once each shift thereafter, while pump circuit is energized.
  4. Upon initial installation, the pump must be examined by a certified electrician to assure the pump is permissible. A certification plate or an approval plate must be attached to the permissible pump.
  5. Upon initial installation, the pump must be examined by a certified electrician to confirm adequate overload and shot circuit protection for the pump motor.
  6. Upon initial installation, the grounding circuit or ground pilot loop must be tested by a certified electrician and the OHMIC value of the circuit recorded in the weekly examination record book.
  7. Upon initial installation, the ground monitor devices for the three-phase water pumps will be tested by breaking the ground conductor at the pump control box to assure the circuit breaker will trip.
  8. The pump cable must be of the correct size, hung on insulated hangers, with no temporary splices in the portion of the cable that will be in the return airway.
  9. Fire protection will be provided with two (2) five-pound or one (1) ten-pound fire extinguisher located in the area, within twenty-five (25) feet, on the intake air side.
  10. All other applicable State and Federal regulations must be in compliance.
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## **REQUIREMENTS FOR INTENTIONAL FAN STOPPAGE**

1. No person shall be permitted underground.
2. Should the fan remain inoperative in excess of 15 minutes, all underground power shall be de-energized in a timely manner. However, should the fan remain inoperative for an undetermined time, and the need arises to pump water, and a multiple fan system is used, permission may be granted on a mine to mine basis, to operate such pumps as may be necessary, after first notifying the Regional Office of the Office of Miners' Health Safety and Training, where additional requirements may be instituted.
3. Should the fan remain inoperative in excess of 15 minutes, when restarting, it shall operate normally for 60 minutes before persons are permitted to enter the mine. However, if accurate and recent (one day prior to stoppage) air analysis of the fan is taken and recorded, such fan will only be required to operate for a time period, where the air analysis will be the same as it was recorded prior to the stoppage.
4. Before any person is permitted to re-enter an underground coal mine after an intentional fan stoppage in excess of 15 minutes, the underground mine shall be pre-shift examined as stated under 22A-2-20.
5. Notify your District Inspector when intentionally stopping the fan, other than the regular maintenance schedule you have submitted.