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STATUTORY INSTRUMENTS

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**2014 No. 3248**

The Mines Regulations 2014

PART 3

CONTROL OF MAJOR HAZARDS

Explosive atmospheres

**Application of regulations 22 and 23**

**21.** Regulations 22 and 23 apply below ground in mines in which places have been classified as hazardous under regulation 7(1) of DSEAR.

**Explosive atmospheres**

**22.**—(1) The mine operator must ensure that—

- (a) there are in place in the zones classified under regulation 7(1) of DSEAR, specific arrangements to detect the presence, and monitor the concentration, of flammable gas; and
- (b) measures are taken to reduce the level of flammable gas in any zone in which it has been detected to as low a level as is reasonably practicable.

(2) The measures referred to in paragraph (1)(b) must include (where necessary) drainage, removal and dilution.

**Ignition risks**

**23.**—(1) The mine operator must ensure that when in any zone, or at any place within a zone, classified in accordance with regulation 7(1) of DSEAR—

- (a) the concentration of a flammable gas exceeds 25% by volume of the lower explosive limit of that gas in the general body of air, all activities that present a significant ignition risk are halted until the concentration is reduced so that it is below that level; and
- (b) in the event that the concentration exceeds 40% by volume of the lower explosive limit of that gas in the general body of air, persons are withdrawn from that place or zone until the concentration has been reduced so that it is below that level.

(2) The mine operator must ensure that none of the following is taken below ground—

- (a) tobacco or other materials for smoking; or
- (b) objects used to produce a flame for the purposes of smoking.

**Application of regulations 25 and 26**

**24.** Regulations 25 and 26 apply below ground in coal mines.

### **Burning and welding in coal mines**

25. The mine operator must ensure that—
- (a) no burning or welding equipment is used except in a shaft or inset; and
  - (b) before using any such equipment in a shaft or inset, an appropriate assessment is made of the risks of the proposed operation and appropriate steps are taken to mitigate the risks identified.

### **Risks of explosion in coal mines**

26. The mine operator must ensure that (where necessary) there are in place—
- (a) adequate arrangements to ensure that there is sufficient inert content in dust in roadways in the mine to ensure that risks of explosion are controlled; and
  - (b) suitable and effective barriers against the spread of explosion.