
29 C.F.R. § 1915.51

Ventilation and protection in welding, cutting and heating.

- (a) The provisions of this section shall apply to all ship repairing, shipbuilding, and shipbreaking operations; except that paragraph (e) of this section shall apply only to ship repairing and shipbuilding. Paragraph (g) of this section shall apply only to ship repairing.
- (b) *Mechanical ventilation requirements.* (1) For purposes of this section, mechanical ventilation shall meet the following requirements:
- (i) Mechanical ventilation shall consist of either general mechanical ventilation systems or local exhaust systems.
- (ii) General mechanical ventilation shall be of sufficient capacity and so arranged as to produce the number of air changes necessary to maintain welding fumes and smoke within safe limits.
- (iii) Local exhaust ventilation shall consist of freely movable hoods intended to be placed by the welder or burner as close as practicable to the work. This system shall be of sufficient capacity and so arranged as to remove fumes and smoke at the source and keep the concentration of them in the breathing zone within safe limits.
- (iv) Contaminated air exhausted from a working space shall be discharged into the open air or otherwise clear of the source of intake air.
- (v) All air replacing that withdrawn shall be clean and respirable.
- (vi) Oxygen shall not be used for ventilation purposes, comfort cooling, blowing dust or dirt from clothing, or for cleaning the work area.

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