

**STANDARDS PRESENTATION  
TO  
CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD**

Attachment No. 1

Page 1 of 3

PROPOSED STATE STANDARD,  
TITLE 8, DIVISION 1, CHAPTER 4

Amend Section 1533 to read:

§1533. Internal Combustion Engines.

(a) Internal combustion engine-driven equipment shall be operated inside buildings or enclosed structures only when such operation does not result in exposure to dangerous gases or fumes in concentrations above the maximum acceptable limits listed in the General Industry Safety Orders. Some acceptable methods of control are:

(1) Piping exhaust gases to the outside atmosphere.

(2) Providing a system of building ventilation that dilutes and removes exhaust products to outside atmosphere.

(3) Installing effective, catalyst-type exhaust treatment units on the engines.

(b) When shafts, culverts, pipelines or other excavations are 20 feet or less in depth and when internal combustion engine-driven equipment is operated therein, a mechanical exhaust ventilation system shall be provided to prevent exposure to the internal combustion engine's emissions. A forced air ventilation (blower system) may be used in conjunction with, or in lieu of, mechanical exhaust ventilation. The ventilation system (be it a mechanical exhaust system or a forced air ventilation system or a combination of the two) shall:

(1) Supply fresh air at a minimum of 60 lineal feet per minute through the area where the engine is operated;

(2) Supply at least 100 cubic feet of fresh air per minute per engine brake horsepower of the internal combustion engine used;

(3) Supply a minimum of 200 cubic feet of fresh air per minute for each person that enters the space, and

(4) Be inspected by a competent person at the beginning of each shift, or more frequently, to ensure an effective supply of fresh air.

NOTE: For shafts greater than 20 feet in depth and excavations unrelated to the Construction Safety Orders, refer to Title 8, Division 1, Chapter 4, Subchapter 20, the Tunnel Safety Orders.

NOTE: Authority cited: Section 142.3, Labor Code. Reference: Section 142.3, Labor Code.

**STANDARDS PRESENTATION  
TO  
CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD**

PROPOSED STATE STANDARD,  
TITLE 8, DIVISION 1, CHAPTER 4

Amend Section 1541 to read:

§1541. General Requirements.

\*\*\*\*\*

(g) Hazardous atmospheres.

\*\*\*\*\*

(3) Whenever internal combustion engine-driven equipment is operated inside a shaft subject to Section 1542 of these Orders, a ventilation system shall be provided and operated in accordance with Sections 1530 and 1533(b) of these Orders.

NOTE: For shafts greater than 20 feet in depth and excavations unrelated to the Construction Safety Orders, refer to Title 8, Division 1, Chapter 4, Subchapter 20, the Tunnel Safety Orders.

\*\*\*\*\*

NOTE: Authority cited: Section 142.3, Labor Code. Reference: Section 142.3, Labor Code.

**STANDARDS PRESENTATION  
TO  
CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD**

PROPOSED STATE STANDARD,  
TITLE 8, DIVISION 1, CHAPTER 4

Amend Section 8403(a)(4) to read:

§8403. Scope and Application.

(a) In accordance with the provisions of Labor Code, Division 5, Part 9 et al., these orders establish minimum safety standards in places of employment at tunnels, shafts, raises, inclines, underground chambers, and premises appurtenant thereto during excavation, construction, alteration, repairing, renovating or demolishing and the following:

\*\*\*\*\*

(4) All shaft excavations intended to exceed 20 feet in depth where employees may enter the shaft and/or approach the shaft area. A shaft will be considered a shaft from its inception. For shafts 20 feet or less in depth and excavations unrelated to the Tunnel Safety Orders, refer to, CCR, Title 8, Section 1533 and Article 6, commencing with Section 1539 of the Construction Safety Orders.

\*\*\*\*\*

NOTE: Authority cited: Sections 142.3 and 7997, Labor Code. Reference: Sections 142.3 and 7997, Labor Code.