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29 CFR Ch. XVII (7–1–10 Edition)  


25. Explosion Venting and Suppression of Bucket Elevators; National Grain and Feed Association, P.O. Box 28328, Washington, DC 20005.  


28. Retrofitting and Constructing Grain Elevators; National Grain and Feed Association, P.O. Box 28328, Washington, DC 20005.  

29. Grain Industry Safety and Health Center—Training Series (Preventing grain dust explosions, operations maintenance safety, transportation safety, occupational safety and health); Grain Elevator and Processing Society, P.O. Box 15026, Commerce Station, Minneapolis, Minnesota 55415–0026.  

30. Suggestions for Organized Maintenance; The Mill Mutuals Loss Control Department, 1 Pierce Place, Suite 1260 West, Itasca, Illinois 60143–1269.  

31. Safety—The First Step to Success: The Mill Mutual Loss Control Department, 1 Pierce Place, Suite 1260 West, Itasca, Illinois 60143–1269.  

32. Emergency Plan Notebook; Schoeff, Robert W. and James L. Balding, Kansas State University, Cooperative Extension Service, Extension Grain Science and Industry, Shellenberger Hall, Manhattan, Kansas 66506.  


Subpart S—Electrical  

SOURCE: 46 FR 4056, Jan. 16, 1981, unless otherwise noted.

GENERAL  

§ 1910.301  

Introduction.  

This subpart addresses electrical safety requirements that are necessary
for the practical safeguarding of employees in their workplaces and is divided into four major divisions as follows:

(a) Design safety standards for electrical systems. These regulations are contained in §§1910.302 through 1910.330. Sections 1910.302 through 1910.308 contain design safety standards for electric utilization systems. Included in this category are all electric equipment and installations used to provide electric power and light for employee workplaces. Sections 1910.309 through 1910.330 are reserved for possible future design safety standards for other electrical systems.

(b) Safety-related work practices. These regulations will be contained in §§1910.331 through 1910.360.

(c) Safety-related maintenance requirements. These regulations will be contained in §§1910.361 through 1910.380.

(d) Safety requirements for special equipment. These regulations will be contained in §§1910.381 through 1910.398.

(e) Definitions. Definitions applicable to each division are contained in §1910.399.


DESIGN SAFETY STANDARDS FOR ELECTRICAL SYSTEMS


§1910.302 Electric utilization systems.

Sections 1910.302 through 1910.308 contain design safety standards for electric utilization systems.

(a) Scope—(1) Covered. The provisions of §§1910.302 through 1910.308 cover electrical installations and utilization equipment installed or used within or on buildings, structures, and other premises, including:

(i) Yards;
(ii) Carnivals;
(iii) Parking and other lots;
(iv) Mobile homes;
(v) Recreational vehicles;
(vi) Industrial substations;
(vii) Conductors that connect the installations to a supply of electricity; and
(viii) Other outside conductors on the premises.

(2) Not covered. The provisions of §§1910.302 through 1910.308 do not cover:

(i) Installations in ships, watercraft, railway rolling stock, aircraft, or automotive vehicles other than mobile homes and recreational vehicles;

(ii) Installations underground in mines;

(iii) Installations of railways for generation, transformation, transmission, or distribution of power used exclusively for operation of rolling stock or installations used exclusively for signaling and communication purposes;

(iv) Installations of communication equipment under the exclusive control of communication utilities, located outdoors or in building spaces used exclusively for such installations; or

(v) Installations under the exclusive control of electric utilities for the purpose of communication or metering; or for the generation, control, transformation, transmission, and distribution of electric energy located in buildings used exclusively by utilities for such purposes or located outdoors on property owned or leased by the utility or on public highways, streets, roads, etc., or outdoors by established rights on private property.

(b) Extent of application—(1) Requirements applicable to all installations. The following requirements apply to all electrical installations and utilization equipment, regardless of when they were designed or installed:

§1910.303(b)—Examination, installation, and use of equipment

§1910.303(c)(3)—Electrical connections—Splices

§1910.303(d)—Arcing parts

§1910.303(e)—Marking

§1910.303(f), except (f)(4) and (f)(5)—Disconnecting means and circuits

§1910.303(g)(2)—600 volts or less—Guarding of live parts

§1910.304(a)(3)—Use of grounding terminals and devices

§1910.304(f)(1)(i), (f)(1)(iv), and (f)(1)(v)—Overcurrent protection—600 volts, nominal, or less

§1910.304(g)(1)(ii), (g)(1)(iii), (g)(1)(iv), and (g)(1)(v)—Grounding—Systems to be grounded

§1910.304(g)(4)—Grounding—Grounding connections