PURPOSE
The purpose of this guide is to provide safety code references in a quickly accessible format. The safety codes are categorized by function and topic. The safety codes in this guide are from Title 8 of the California Code of Regulations.

DISCLAIMER
The information contained herein (“Guide”) was compiled by the California Grain and Feed Association (“Association”) from various regulatory sources for use by California grain, feed, and rice handling facilities. Every effort has been made to provide the most accurate and current information available. However, the Association makes no warranties regarding the information contained in the Guide or the applicability of such information to a particular operation. The Association specifically disclaims any and all warranties, express or implied, including but not limited to implied warranties of merchantability and fitness for a particular use. The Association does not warrant that the information contained in the materials will be error-free or that defects will be corrected. This Guide is not intended as legal advice and citations to statutes and regulations are for informational purposes only. Nothing in this Guide is intended to replace a handling facility’s own technical experts or legal advisors, and the Association encourages each facility to consult such professionals before implementing specific regulatory requirements. This Guide is not intended, nor should it be interpreted, to be exhaustive in its regulatory standard content. The Association may update the materials in this Guide from time to time, but the Association does not accept or undertake any responsibility to update the information provided in this Guide on a regular basis or at all.

Under no circumstances, including, but not limited to gross negligence, shall the Association be liable for any direct, indirect, incidental, special or consequential damages that result from the use of, failure to use, or the inability to use, the information in this voluntary Guide. Persons utilizing this Guide, with or without permission, specifically acknowledge and agree that the Association is not liable for any damages resulting from its use.

Copyright December 2002, California Grain and Feed Association
SAFETY STANDARD GUIDE

UNFIRED PRESSURE VESSEL SAFETY ORDERS

Air Tanks
§461. Permits to Operate.
§462. Field Inspections and Reports.
§465. Safety Devices and Systems.
§466. Repairs and Alterations.

LP-Gas Systems
§470. Permit to Operate.
§471. Control of Products in Tanks and Cylinders.
§472. Charging LP-Gas Vessels.
§473. Gaging Devices.
§474. Approval of Devices.
§475. Location of Storage Containers and Regulating Equipment.
§477. Installation of Aboveground Storage Tanks.
§478. Skid and Trap Tanks.
§480. Pipes and Fittings for All Liquid Lines and for Vapor Lines Where the Pressure Exceeds 20 psi.
§484. Vaporizer Installation.
§486. Regulators.
§487. Regulator Installation.
§488. LP Gas Tank Inspection Fees.
§489. Warning Signs.
§494. Repairs and Alterations.

Safe Practices
§560. Safe Practices.

BOILER AND FIRED PRESSURE VESSEL SAFETY ORDERS

Scope of These Orders
§750. Application of Boiler and Fired Pressure Vessel Safety Orders.
§751. Boilers and Fired Pressure Vessels Not Subject to These Orders.
§752. Variances.

Installation
§761. Safety Valves and Pressure Relieving Devices, Boilers.
§762. Safety Valves and Pressure Relieving Devices, Fired Pressure Vessels.
§763. Low-Pressure Boilers.
§764. Blowoff Valves and Tanks.
§765. Means of Feeding Water to Boilers.
§766. Water and Pressure Gages.
§767. Reinstallation of Secondhand Power Boilers.
§768. Access for Inspection and Cleaning.
§769. Boiler Supports.

Inspection
§770. Boilers Subject to Annual Inspection.
§771. Boilers Not Subject to Annual Inspection.
§772. Preparation of Boilers for Inspection.
§773. Identification of Boilers.
§774. Boilers Exempt from Inspection by Qualified Safety Employed by the Division.
§775. Operation of Unsafe Boilers.
§776. Special Inspection of Lap Seam Boilers.
§777. Boiler and Fired Pressure Vessel Inspection Fees.

Operation
§780. Permit to Operate.
§781. Attendance on Boilers.
§782. Safe Practices.

CONSTRUCTION SAFETY ORDERS

Bins, Bunkers, Hoppers and Material Storage
§1548. Bins, Bunkers, and Hoppers.

Standard Railings
§1621. Railings and Toeboards.

Ramps, Runways, Stairwells and Stairs
§1626. Stairwells and Stairs.

Access and Egress
§1629. Stairways and Ladders

Floor, Roof, and Wall Openings
§1632. Floor, Roof, and Wall Openings to Be Guarded.
§1633. Elevator Shafts to be Guarded.

Ladders
§1675. General

Miscellaneous Construction Tools and Equipment
§1699. Hand Tools
§1707. Power-Operated Hand Tools

ELECTRICAL SAFETY ORDERS

Group 1. Low-Voltage Electrical Safety
Work Procedures
§2320.1. General.
§2320.2. Energized Equipment or Systems.
§2320.3. Tests.
§2320.4. De-Energized Equipment or Systems.
§2320.5. Energizing (or Re-Energizing) Equipment or Systems.
§2320.6. Accident Prevention Tags.
§2320.7. Safety Precautions.
§2320.8. Fall Protection.
§2320.9. Backfeeding or Interconnection.

Outdoor Wiring
§2375.1. Scope.
§2375.10. Wiring on Buildings.
§2375.18. Clearance from Ground.

Group 2. High-Voltage Electrical Safety Orders
Provisions for Preventing Accidents Due to Proximity to Overhead Lines
§2946. Provisions for Preventing Accidents Due to Proximity to Overhead Lines.
§2947. Warning Signs Required.
§2949. Special Exemption.

ELEVATOR SAFETY ORDERS MANLIFTS
§3099. Mechanical Requirements and Operation.

GENERAL INDUSTRY SAFETY ORDERS
§3203. Injury & Illness Prevention Program.
§3204. Access to Employee Exposure and Medical Records.
Appendix A
Appendix B

General Physical Conditions & Structures
Standard Specifications
§3209. Standard Guardrails.
§3210. Guardrails and Elevated Locations.
§3211. Wall Openings.
§3212. Floor Openings, Floor Holes and Roofs.
§3213. Service Pits and Yard Surface Openings.
§3214. Stair Rails and Handrails.
§3215. Means of Egress.
§3216. Exit Signs.
§3222. Arrangement and Distance to Exits.
§3223. Changes in Elevation.
§3224. Headroom.
§3225 Maintenance and Access to Exits.
§3226 Corridors and Exterior Exit Balconies.
§3227 Discharge from Exits.
§3228 Number of Exits.
§3229 Exit Width.
§3231 Stairways.
§3232 Ramps.
§3233 Industrial Ramps.
§3234 Fixed Industrial Stairs.
§3235 Doors.

Special Design Requirements
§3241 Live Loads.

Access, Work Space, and Work Areas
§3270 Access General.
§3271 Openings.
§3272 Aisles, Walkways, and Crawlways.
§3273 Working Area.
§3274 Valves and Controls.
§3275 Scaffolds.
§3276 Use of Ladders.
§3277 Fixed Ladders.
§3278 Portable Wood Ladders.
§3279 Portable Metal Ladders.
§3280 Portable Reinforced Plastic Ladders.

Powered Platforms and Equipment for Building Maintenance.
§3292 General.
§3293 Definitions.
§3294 Powered Platform Installations - Affected Parts of Buildings.
§3295 Powered Platform Installations - Equipment.
§3296 Inspection and Tests.
§3297 Maintenance.
§3298 Operations.
§3299 Personal Fall Protection.

Safe Practices and Personal Protection

Miscellaneous Safe Practices
§3300 Live Steam and Air Hoses.
§3301 Use of Compressed Air or Gases.
§3303 Flying Particles or Substances.
§3304 Miscellaneous Use of Compressed Cylinder Gas.
§3305 Misuse of Oxygen Prohibited.
§3306 Salvaging Pressure Vessels.
§3307 Reconditioning Closed Containers.
§3308 Hot Pipes and Hot Surfaces.
§3309 Drainage and Ventilation.
§3310 Discharge Location.
§3311 Flarebacks.
§3312. Entering Combustion Chambers, Flues, Boilers or Unfired Steam Pressure Vessels.
§3314. Cleaning, Repairing, Servicing and Adjusting Prime Movers, Machinery and Equipment.
§3315. Hand Trucks.
§3317. Illumination.
§3318. Counterweights.
§3319. Fueling.
§3320. Warning Signs.
§3321. Identification of Piping.
§3322. Drilling.
§3323. Cargo Doors.
§3325. Tire Inflation Equipment.

§3328. Machinery and Equipment.
§3329. Pipe Lines.
§3330. Special Handtools.
§3332. Railcar Movement.
§3333. Blue Stop Signs.
§3334. Working on or Around Railway Cars.
§3335. Railroad Ramping and Deramping Yards.
§3336. Loading Dock Operations.
§3337. Dock Plates and Loading Ramps.
§3338. Pallets.
§3339. Cargo, Materials, or Equipment.
§3340. Accident Prevention Signs.
§3341. Accident Prevention Tags.

Sanitation
§3360. Scope and Application.
§3361. Definitions.
§3362. General Requirements.
§3363. Water Supply.
§3364. Sanitary Facilities.
§3365. Toilet Rooms.
§3366. Washing Facilities.
§3367. Change Rooms.
§3368. Consumption of Food and Beverages.

Personal Safety Devices and Safeguards
§3380. Personal Protective Devices.
§3381. Head Protection.
§3382. Eye and Face Protection.
§3383. Body Protection.
§3384. Hand Protection.
§3385. Foot Protection.
§3386. Jewelry.
§3387. Sanitation.
§3390. Protection from Electric Shock.
§3400. Medical Services and First Aid.

General Plant Equipment and Special Operations
Marine Terminal Operations
§3471. Chutes, Gravity Conveyors and Rollers

Vats, Pans, Bins, Bunkers, Hoppers, and Similar Containers and Vessels.
§3480. Vats, Pans and Tanks.
§3481. Bins, Bunkers and Hoppers.
§3482. Bulk Storage of Loose Material.

Engines and Compressors
§3511. Governor.
§3512. Valve Gears.
§3518. Air Compressors.

Automotive Lifts
§3541. Definitions.
§3543. Marking Required.
§3544. Control Mechanism for Hydraulic Lifts.
§3545. Oil Measurement.
§3546. Air, Oil Tank Construction and Installation.
§3547. Working Area Under Lifts.
§3548. Chassis and Axle Supports.
§3549. Maintenance.

Hand and Portable Powered Tools and Equipment
§3555. Definitions.
§3556. General
§3557. Switches and Controls for Portable Tools.
§3559. 1. Airless Spray Guns.
§3562. Jacks.
§3564. Portable Winches.

Use, Care, and Protection of Abrasive Wheels
§3575. Scope and Definitions.
§3576. General Machine Requirements.
§3577. Protection Devices.
§3578. Permissible Wheel Exposure for Periphery Grinding.
§3579. Flanges - General Requirement.
§3580. Mounting.
§3582. Storage.
§3583. Portable Abrasive Wheels.

General Mobile Equipment and Auxiliaries

Elevating Work Platforms and Aerial Devices
§3636. Application.
§3637. Definitions.
§3638. Equipment Instructions and Marking.
§3639. Factors of Safety in Design of Work Platform Assembly.
§3640. Maintenance and Repairs.
§3642. Platform Equipment.
§3643. Guarding of Moving Parts.
§3644. Stability on Level Ground.
§3645. Stability on Inclined Surfaces.
§3646. Operating Instructions (Elevating Work Platforms).
§3648. Operating Instructions (Aerial Devices).

Industrial Trucks, Tractors, Haulage Vehicles and Earthmoving Equipment
§3649. Definitions.
§3650. Industrial Trucks, General.
§3651. Agricultural and Industrial Tractors.
§3652. Haulage Vehicles and Earthmoving Equipment.
§3653. Seat Belts.
§3654. Deflector Guards.
§3655. Overhead Guards for High-Lift Rider Trucks.
§3656. Order Pickers and Stock Pickers.
§3657. Elevating Employees with Lift Trucks.
§3658. Operator Platforms.
§3659. Back Guards.
§3660. Rated Capacity.
§3661. Brakes and Warning Devices.
§3662. Internal Combustion Engines.
§3663. Maintenance of Industrial Trucks.
§3664. Operating Rules.
§3665. Wheel Guards.
§3666. Haulage Vehicles and Earthmoving Equipment.
§3668. Powered Industrial Truck Operator Training.
§3669. Operating Rules.

Industrial Railroads
§3730. Purpose.
§3731. Definitions.
§3732. Railway Switches and Track.
§3733. Couplers.
§3734. Warning Device.
§3735. Brakes.
§3736. Overhead Clearance for Standard, Gage Industrial Railroad Tracks.
§3737. Side Clearance for Standard Gage Industrial Railroad Tracks.
§3738. Overhead and Side Clearances.
§3739. Clearance Between Parallel Standard Gage Tracks.
§3740. Other Conditions and Obstructions Adjacent to Standard Gage Tracks.
§3741. Side Clearances for Narrow Gage Industrial Railroad Tracks.

Power Transmission Equipment, Prime Movers, Machines and Machine Parts

Purpose, Definitions and Standards
§3940. Purpose.
§3941. Definitions.
§3942. Type of Guarding Required.
§3943. Guard Standards.
§3944. Guard Clearances.
§3945. Openings for Oiling.

Prime Movers and Machinery
§3995. Flywheels.
§3996. Cranks and Connecting Rods.
§3997. Tail Rods, Extension Piston Rods or Tail Crossheads.
§3998. Belt Shifters.
§3999. Conveyors.
§4002. Moving Parts of Machinery or Equipment.

Shafting, Collars, Clutches, Cut-Off Couplings and Clutch Pulleys
§4050. Shafting, Collars, Clutches, and Couplings.
§4051. Projecting Shaft Ends.

Pulleys
§4060. Location of Pulleys on Line Shaft and Countershaft.
§4062. Pulleys Exposed to Corrosion.

Belt and Pulley Drives
§4070. Guarding.
§4071. Belt Tighteners.

Gears, Friction Drives, Sprockets and Chains
§4075. Gears and Sprockets.
§4076. Friction Drives.

Power Disconnecting Devices
§4086. Momentary Contact Devices.

Points of Operation and Other Hazardous Parts of Machinery

Scope and General Definitions
§4184. Guarding Required.
§4185. Foot-Operated Devices.
§4186. Maintenance and Use of Point of Operation Tools and Guards.
§4187. Rolls.
§4188. Definitions.

Food and Tobacco Machinery
§4531. Dumpbins and Blenders.
§4532. Storage Bins.
§4533. Screw Conveyors.

Cotton Gins and Seed Cotton Processing Machines
§4642. Elevated Platforms and Transmission Enclosures.
Compressed Gas and Air Cylinders.
§4649. Construction and Marking of Cylinders.
§4650. Storage, Handling, and Use of Cylinders.

Safety Relief Devices for Compressed Gas Containers
§4657. General.

Gas Systems For Welding and Cutting

Purpose and Definitions
§4794. Purpose.
§4795. Definitions.

General
§4797. Approval and Marking.
§4798. Rating and Pressure Limitations.
§4799. Training of Operators and Instructions.

Fire Prevention in Welding and Cutting Operations.

Electric Welding

Electric Welding, Cutting and Heating
§4850. General.
§4851. Arc Welding and Cutting.
§4852. Resistance Welding.
§4853. Inert-Gas Metal-Arc Welding.

Occupational Noise and Ergonomics

Control of Noise Exposure
§5095. General.
§5096. Exposure Limits for Noise.
§5097. Hearing Conservation Program.
§5098. Hearing Protection.
§5099. Training Program.
§5100. Recordkeeping.

Ergonomics
§5110. Repetitive Motion Injuries.

Control of Hazardous Substances

Dusts, Fumes, Mists, Vapors and Gases.
§5139. Purpose.
§5140. Definitions.
§5141. Control of Harmful Exposure to Employees.
§5144. Respiratory Protective Equipment.
§5145. Media for Allaying Dusts, Fumes, Mists, Vapors, and Gases.

§5147. Respiratory Protection For M. Tuberculosis.
§5149. Oxygen Deficiency.
§5150. Ventilation and Personal Protective Equipment Requirements for Welding, Brazing, and Cutting
§5152. Ventilation and Personal Protective Equipment Requirements for Grinding, Polishing, and Buffing Operations.
§5154. Ventilation and Personal Protective Equipment Requirements for Open-Surface Tank Operations
§5154.1 Ventilation Requirements for Laboratory-Type Hood Operations.
§5155. Airborne Contaminants.

Confined Spaces
§5156. Scope, Application and Definitions.
§5157. Permit-Required Confined Spaces.
§5158. Other Confined Space Operations.

Hazardous Substances and Processes
§5160. Scope and Application.
§5161. Definitions.
§5162. Emergency Eyewash and Shower Equipment.
§5163. Spill and Overflow Control.
§5164. Storage of Hazardous Substances.
§5165. Dispensing Devices for Hazardous Substances.
§5166. Cleaning, Repairing, or Altering Containers.
§5167. Equipment and Processes Involving Hazardous Substances.
§5168. Static Electricity.
§5174. Combustible Dusts - General.
§5176. Pyrophoric Substances.
§5177. Spontaneously Combustible Material.
§5178. Grain Handling Facilities.
§5190. Cotton Dust.
§5191. Occupational Exposure to Hazardous Chemicals in Laboratories.
§5193. Bloodborne Pathogens.
§5194. Hazard Communication.

Fumigation
§5221. Fumigation: General.
§5222. Fumigation in Vaults and Chambers.
§5223. Fumigation in Buildings or Rooms Other Than Fumigation Vaults or Chambers.

Flammable Liquids, Gases and Vapors

Definitions
§5415. Definitions.
General
§5416. Flammable Vapors.
§5417. Flammable Liquids - General.
§5418. Carboys and Drums Containing Flammable Liquids.
§5420. Tanks, Vats and Containers Containing Flammable Liquids.

Electrical Equipment
§5530. Scope.

Industrial Plants
§5545. General.
§5546. General.
§5547. Tank Vehicle and Tank Car Loading and Unloading.
§5548. Fire Control.
§5549. Sources of Ignition.
§5550. Repairs to Equipment.
§5551. Housekeeping.

Processing Plants
§5554. Scope.
§5555. Location.
§5557. Storage.
§5558. Tank Vehicle and Tank Car Loading and Unloading.
§5559. Fire Control.
§5560. Sources of Ignition.
§5561. Maintenance and Repair.
§5562. Housekeeping.

Tank Storage
§5583. Materials.
§5584. Fabrication.
§5585. Atmospheric Tanks.
§5585.1 Liquid Level Indicator, Temperature Regulator, Class IIIB.
§5586. Low Pressure Tanks.
§5587. Pressure Vessels.
§5589. Installation of Outside Aboveground Tanks.
§5590. Spacing (Shell-to-Shell) Between Aboveground Tanks.
§5591. Location of Outside Aboveground Tanks with Respect to Important Buildings on Same Property.
§5592. Normal Venting for Aboveground Tanks.
§5593. Emergency Relief Venting for Fire Exposure for Aboveground Tanks.
§5594. Vent Piping for Aboveground Tanks.
§5595. Drainage, Dikes and Walls for Aboveground Tanks.
§5596. Tank Openings Other Than Vents for Aboveground Tanks.
§5600. Installation of Tanks Inside of Buildings.
§5601. Tank Openings Other Than Vents for Tanks Inside Buildings.
§5602. Supports, Foundations and Anchorage for All Tank Locations.
§5603. Sources of Ignition.
§5604. Testing.
§5605. Protection of Tanks in Locations That May Be Flooded.
Piping, Valves and Fittings
§5606. General.
§5607. Materials for Piping, Valves and Fittings.
§5608. Pipe Joints.
§5609. Supports.
§5610. Protection Against Corrosion.
§5611. Valves.
§5612. Testing.

Bulk Plants
§5614. Scope.
§5616. Storage.
§5617. Buildings.
§5618. Ventilation.
§5619. Loading and Unloading Facilities.
§5620. Wharves.
§5621. Electrical Equipment.
§5622. Sources of Ignition.
§5623. Drainage and Waste Disposal.
§5624. Fire Control.

Fire Protection
§6150. Definitions.
§6151. Portable Fire Extinguishers.
§6165. Standpipe and Hose Systems.
§6175. Fixed Extinguishing Systems.