

User's Guide

IDENTIFYING AND APPLYING THE SAFETY AND HEALTH STANDARDS

This Guide presents the 16 technical Subparts of 29 CFR 1910 in six major categories. OSHA Administrative Regulations, which apply to all employers, form a seventh category.

The categories for the standards requirements are:

1. Workplace Standards
2. Machines and Equipment Standards
3. Materials Standards
4. Employee Standards
5. Power Source Standards
6. Process Standards
7. Administrative Regulations

The basic concept supporting these categories is that one starts evaluating a hazard potential from a base point, the workplace or work location, and then considers additional hazard potentials as other production elements are added. Related hazards are found in one category. These categories apply individually and collectively as follows:

1. Workplace Standards

There are certain basic safety and health standards which apply strictly to the workplace, a building, or other work location. These include safety of floors or other working surfaces, protection of floor and wall openings, access and exit requirements, sanitation, and fire and emergency protection.

2. Machines and Equipment Standards

When machines and equipment are added to the workplace, new elements of risk come into play. Standards are included for risks involving machine guarding, operational techniques, special safety devices, inspection and maintenance, mounting, anchoring, grounding, and other protection.

3. Materials Standards

Materials which are utilized, processed, or applied on the job add to the hazards. There are standards covering materials which yield dangerous or toxic fumes or mists, ignitable and/or explosive dusts, and other atmospheric contaminants. There are standards for safe storage and handling of compressed gases and flammable and combustible liquids as well as more stable materials used in production processes.

4. Employee Standards

When the employee is added to the workplace, other variables and related technical standards become important. What medical and first aid services are required? What personal protective equipment and devices must be provided? Are licenses or other accreditation documents required? What about special training or educational requirements?

5. Power Source Standards

The power source utilized creates additional hazards. Electrical, pneumatic, hydraulic, steam, explosive actuated, and other sources of power have standards.

6. Process Standards

Some standards cover a special process or a special industry. Welding, cutting and brazing, spray finishing, abrasive blasting, and utilization of dip tanks are hazardous processes. Special standards exist for textile and bakery operations, sawmills, pulpwood logging, and agriculture.

7. Administrative Standards

In addition to the safety and health standards in Part 1910, there are administrative requirements in Parts 1903, 1904, 1905, 1911, and 1912 for all employers whatever the size of the work establishment. Every employer must display an OSHA poster stating the rights and obligations of employees and employers; keep injury, illness, and exposure records; report fatalities and multiple hospital injury cases (5 or more); and post an annual summary of injuries and illnesses.

How to use this Guide: To be used effectively, this Guide must be considered as a:

1. companion piece to the master document, 29 CFR 1910, Occupational Safety and Health Standards for General Industry.
2. key index to all the standards in 29 CFR 1910, which have been classified under the six categories, and the administrative regulations drawn from Parts 1903, 1904, 1905, 1911, and 1912.

To find the desired information the user should first read the introductory statement to each category. Then, he should analyze the hazard and classify it according to the workplace, machines and equipment, materials, the employee, a special process, or a power source. By looking up the applicable category, the location of the applicable standard in 29 CFR can be found. Since hazards may be logically classified in more than one category, look under each category which might apply to your situation.

Materials Standards

- A HAZARDOUS MATERIALS
- B HAZARDOUS LOCATIONS DUE TO MATERIALS
- C MATERIALS HANDLING AND STORAGE
- D MATERIALS HANDLING MACHINES AND EQUIPMENT

Occupational Safety and Health MATERIALS STANDARDS

3
2000000

29 CFR 1910

	Sub-part	Section
A. HAZARDOUS MATERIALS		
1. Air Contaminants	G	93
Acceptable ceiling concentrations and 8 hour time weighted averages (Table G-2)		93(h)
Ceiling values and 8 hour time weighted averages (Table G-1)		93(a)
Mineral dusts 8-hour time weighted averages (Table G-3)		93(c)
Requirements and specifications		93
2. Anhydrous Ammonia, Storage and Handling	II	111
Basic rules		111(m)
General requirements		111(a)
Refrigerated storage systems		111(d)
Systems mounted on farm vehicles, ammonia		111(h)
Systems mounted on farm vehicles, other than ammonia		111(g)
Systems utilizing portable DOT containers		111(e)
Systems utilizing stationary, non-refrigerated storage containers		111(c)
Tank motor vehicles for ammonia transport		111(f)
3. Compressed Gases	II	102
Acetylene		101
General requirements		103
Hydrogen		105
Nitrous oxide		104
Oxygen		109
4. Explosives and Blasting Agents	II	109
Blasting agents		109(a)
General requirements		109(b)
Small arms ammunition, primers, propellants		109(ii)
Storage of ammonium nitrate		109(i)
Storage of explosives		109(c)
Transportation of explosives		109(d)
Use		109(e)

MATERIALS STANDARDS (Cont'd.)

3

29 CFR 1910

	Sub-part	Section
5. Flammable and Combustible Liquids	H	100
Bulk plants		100(f)
Container and portable tank storage		100(d)
Definitions		100(a)
Industrial plants		100(e)
Piping, valves and fittings		100(c)
Processing plants		100(h)
Refineries, chemical plants and distilleries		100(i)
Service stations		100(g)
Tank storage		100(b)
6. Ionizing Radiation	G	10
7. Storage and Handling of Liquefied Petroleum (LP) Gases	H	110
Basic rules		110(b)
Cylinder systems		110(e)
Motor fuel		110(a)
Service stations		110(h)
Storage of containers awaiting use or resale		110(f)
System installations on commercial vehicles		110(g)
Systems using other than DOT containers		110(d)
B. HAZARDOUS LOCATIONS DUE TO MATERIALS		
1. Class I Installations--Presence of Flammable Gases, Vapors, or Liquids	S	300
2. Class II Installations--Presence of Combustible Dusts		300
3. Class III Installations--Presence of Easily Ignitable Fibers or Flyings		300
4. General		300
C. MATERIALS HANDLING AND STORAGE		
1. General	N	170
Clearances, mechanical equipment		170(a)
Clearance limits and signs		170(e)
Drainage, storage areas		170(d)
Guarding open pits, vats and ditches		170(g)
Housekeeping, storage areas		170(c)
Handling railroad cars		170(f)
Secure storage, materials		170(b)
2. Indoor Storage	N	177
Application and general requirements		177(h)
Building service equipment		177(f)
Fire protection		177(d)
Mechanical handling equipment		177(e)
Piling procedures and precautions		177(c)
Smoking restriction and signs		177(g)
3. Storage and Handling		
Ammonium nitrate	H	109(i)
Anhydrous ammonia	H	111(a)(1)
Batteries, industrial trucks	N	110(g)
Blasting agents	H	109(g)
Compressed gases		101(b)
Explosives		100(e)
Flammable and combustible liquids		100(d)
Flammable liquids		101(e)
Flammable liquids, dry tanks		100(f)
Flows	N	203
-- dumpsites and landfills		203(d)(3)
-- storage bins		203(d)(4)

3

[illegible]

1. Bakery Flour Handling Equipment

- | | | | |
|----|---|---|----------------|
| | Bag chutes and bag lifts | R | 263(d)(2) |
| | Chain tackles | | 263(i)(12) |
| | Conveyors | | 263(i)(7) |
| | Flour elevators | | 263(i)(14) |
| | Hand trucks | | 263(i)(4) |
| | Overhead rail systems | | 263(i)(8) |
| | Racks | | 263(i)(6) |
| | Screw conveyors | | 263(i)(7) |
| | Troughs and other hoists | | 263(i)(13) |
| 2. | Crawler, Locomotive and Truck Cranes | N | 189 |
| 3. | Derricks | | 181 |
| 4. | Overhead and Gantry Cranes | | 179 |
| 5. | Powered Industrial Trucks | | 178 |
| 6. | Pulpwood and Pulp Chips | R | 261(c) |
| | Banding of skids, carboys, crates | | 261(n)(3), (4) |
| | Conveyor belts | | 261(c)(15) |
| | Cranes | | 261(c)(8) |
| | Powered hand trucks | | 261(n)(2) |
| | Trucks and trailers | | 261(c)(7) |
| 7. | Pulpwood Logging | R | 266 |
| | Skidding and prehauling | | 266(e)(8), (7) |
| 8. | Sawmills—Log Handling Equipment | R | 265 |
| | Blowers, collecting and exhaust systems | | 265(c)(20) |
| | Mechanical stackers and unstackers | | 265(d)(26) |
| | Mobile equipment for sawmills, planing mills, storage and yard operations | | 265(c)(30) |

Employee Standards

- A IONIZING RADIATION PROTECTION
- B MEDICAL AND FIRST AID
- C PERSONNEL PROTECTION IN TANKS AND CONFINED SPACES
- D PERSONAL PROTECTIVE EQUIPMENT
- E SKILLS AND KNOWLEDGE

Occupational Safety and Health EMPLOYEE STANDARDS		4	29 CFR 1910
		Sub- part	Section
A. IONIZING RADIATION PROTECTION			
1. Employee Exposure and Controls		G	06(b)
2. Evacuation Warning Signals			06(f)
3. Exposure to Airborne Radioactive Materials			06(i)
4. Exposure to Radiation in Restricted Areas			06(j)
5. Personnel Monitoring and Precautionary Procedures			06(k)
6. Personnel Monitoring Equipment			06(d)
7. Posting			06(g)
8. Records			
- Disclosure			06(o)
- Employee Radiation Exposure			06(n)
9. Reporting Requirements			
Notification of incidents			06(l)
Overexposure, excessive levels and concentrations			06(m)
B. MEDICAL AND FIRST AID			
1. First Aid		K	151
Open surface tank operations		G	94(d)(9)
Pulpwood logging		R	266(c)(1)
Temporary labor camps		J	142(k)
Textiles		R	262(pp)
Welding		O	257(i)(1)(3)
2. General Requirements		K	151
3. Medical Examinations, Asbestos		G	93a(ii)
4. Medical Records, Asbestos		G	93a(ii)
5. Medical Restrictions		G	94(d)(9)
6. Radiation Exposure Records		G	06(n)
C. PERSONNEL PROTECTION IN TANKS AND CONFINED SPACES			
1. Acid Tanks - Pulp, Paper, and Paperboard Mills		R	261(a)(4)
2. Open Surface Tanks		R	94(d)(9)
3. Vessel Entry, Tanks and Ship Rins		R	201(b)(5)
4. Welding and Burning in Confined Spaces		O	252(c)(4)

EMPLOYEE STANDARDS (Cont'd.)

4

29 CFR 1910

	Sub-part	Section
D. PERSONAL PROTECTIVE EQUIPMENT		
1. Application and General Requirements	I	132
2. Electrical (Personal) Protective Devices--Sawmills	I	137
	R	265(c)(11)
3. Eye and Face Protection		
Application and general requirements	I	133
Explosive actuated fastening tools	P	243(d)(1)
Pulp, paper and paperboard mills	R	261(h)(2)
-- chemical processes, pulp making		261(g)(4),(14),(15)
Pulpwood logging		266(c)(1)
Sawmills		265(c)(17)&(g)
4. Foot Protection		
General	I	136
Pulp, paper and paperboard mills	R	261(h)(2)
Pulpwood logging		266(c)(1)
Sawmills		265(g)
5. Head Protection		
General	I	135
Pulp, paper and paperboard mills	R	261(h)(2)
Pulpwood logging		266(c)(1)
Sawmills		265(g)
6. Noise Exposure		
General	G	95(h)(1)
Pulpwood logging	II	266(c)(1)
7. Protective Clothing and Equipment		
Acids, alkalis, caustics and heat	I	137(a)
Emergency showers, bubblers and eye fountains		
-- open surface tank operations	G	94(j)(9)
-- pulp, paper and paperboard mills	R	261(g)(5)(15)
Open surface tank inspection and maintenance	G	94(i)(9)
Pulp, paper and paperboard mills	II	261(h)(2)
Pulpwood logging		266(c)(1)
Sawmills		265(g)
Textiles		266(g)(1)
Welding and burning	O	252(e)(9)
8. Respiratory Protection		
Abrasive blasting	G	94(a)(5)
Air quality	I	134(d)
Application, general and engineering controls	I	134(a)(1)
Asbestos	G	94(a)
Gas mask canister identification	I	134(g)
Open surface tank operations	G	94(j)(11)
Pulp, paper and paperboard mills	II	261(h)(2)
-- bleaching, liquid chlorine		261(h)
-- chemical processes		261(g)(2),(4),(10),(15)
-- leaf burning		261(h)(6)
Pulpwood logging		266(c)(1)
Respiratory protective programs	I	134(h)
Sawmills	R	265(g)
-- chemicals handling, use and storage		265(c)(17)
Welding, brazing and cutting	(I)	252(i)(2),(4),(5),(7) (10)

4

Sub-part	Section
----------	---------

9. Safety Belts and Lifelines		
Power platforms, exterior building maintenance	F	66(d)(1)
Pulp, paper and paperboard mills	R	261(h)(5) & (u)(4), (15)
Scaffolding		
- boatswains' chairs	D	28(j)(4)
- floats and ship scaffolds		28(u)(6)
- needle beam scaffolds		28(n)(8)
- roof work		
-- crawling boards and chicken ladders		28(n)(2)
-- sloping roofs		28(i)(3)
Tank maintenance and repairs	G	(4)(d)(11)
Welding	O	252(e)(4)(iv)
E. SKILLS AND KNOWLEDGE		
1. Explosives	H	109(h)(3)
Pulpmill logging	H	266(c)(7)
2. Power Presses	Q	217(v)(3) & (1)(1), (2)
3. Powered Industrial Trucks	N	178(1)
4. Welding	O	252(h)(3) & (c)(1)

PROCESS STANDARDS (Cont'd.)

6

29 CFR 1910

	Sub-part	Section
Pulp, paper and paperboard mill processes	II	261(g)(7),(4),(5)
- personal protective equipment	I	133
Pulpwood logging processes	II	266(c)(17)
Rescue work, respirators	G	94(i)(11)
Washing facilities, general	J	141(d)
Washing facilities, open-tank workers	G	94(i)(9)
- general environmental controls	J	141(d)
14. Storage and Handling Flammable Liquids	II	100
Tanks	II	108(d)
X 15. Vapor Degreasing Tanks	G	94(i)(12)
Welding precautions	(i)	252(i)(11)
X 16. Ventilation	G	94(i)(3)
General potential exposure control	G	94(i)(4)
Tanks for flammable and combustible liquids	H	108(h)
D. PROCESSING PLANTS AND OPERATIONS		
1. Chemical Processing Operations	II	106(h)
2. Refineries, Chemical Plants and Distilleries		106(i), (j)
E. SPECIAL INDUSTRIES AND RELATED PROCESSES		
1. Agricultural Operations	II	267
2. Bakery Equipment and Operations		263
3. Laundry Machinery and Operations		264
4. Pulp, Paper and Paperboard Mills		261
5. Pulpwood Logging Operations		266
6. Sawmills		265
7. Textiles		262
F. SPRAY FINISHING		
1. Application, Location and General Requirements	G	94(c)
2. Drying, Curing and Fusion Apparatus	H	107
3. Electrical Equipment	G	94(c)(3)
4. Electrostatic Hand Spraying Equipment	II	107(i)
General requirements		107(i)(6),(7)
Retraining and maintenance		107(i)(1)
Specifications and approvals		107(i)(3)
Ventilation		107(i)(9)
5. Electrostatic Spraying Apparatus, Mechanical		107(h)
Conveyors and fail-safe controls		107(h)(7),(9)
Fire protection		107(h)(17)
Grounding high voltage, insulators		107(h)(5)
Guarding and grounding of equipment		107(h)(10)
Location, type and approvals		107(h)(7)
Ventilation		107(h)(11)
6. Fire Protection		107(i)(6)(a)
Electrostatic apparatus		107(h)(12)
Fire extinguishers, portable		107(i)(4)
Sprinkler systems		107(i)
7. Ignition Sources	G	94(c)
8. Liquids, Flammable and Combustible	II	107
Containers, spraying containers		107(c)(3),(4),(5)
Storage and handling		107(c)(1)
Transferring liquids, pumps, pipes, hoses and grounding		107(c)(4),(6)
		A(9)

Occupational Safety and Health Standards

Process Standards

- A ABRASIVE BLASTING
- B DRY GRINDING, POLISHING AND BUFFING, EXHAUST SYSTEMS
- C PROCESS, DIP AND OPEN SURFACES TANKS
- D PROCESSING PLANTS AND OPERATIONS
- E SPECIAL INDUSTRIES AND RELATED PROCESSES
- F SPRAY FINISHING
- G WELDING, CUTTING AND BRAZING

Occupational Safety and Health
PROCESS STANDARDS

6

29 CFR 1910

Sub-
part Section

A. ABRASIVE BLASTING

1. Air Supply and Air Compressors
2. Blast Cleaning Enclosures, Construction
3. Dust Hazards, Allowable Levels of Concentration, Limited Use of Combustible Abrasives, and Fire-Explosion Requirements
4. Exhaust Ventilation Systems, Construction Maintenance and Inspection
5. General Requirements
6. Operational Procedures and General Safety
7. Personal Protective Equipment

G 94(a)(6)
94(a)(3)
94(a)(2)
94(b)(4)
94(a)
94(a)(2)
94(a)(5)

-- Eye and face protection

I 132
G 94(a)(5)

-- Protective clothing, shoes and gloves

I 133
G 94(a)(5)

-- Respirators, need, approvals and types

G 94(a)(5)

-- Respiratory protection

I 134(a)&(b)

B. Standards

G 94(a)(8)

B. DRY GRINDING, POLISHING AND BUFFING, EXHAUST SYSTEMS

1. Abrasive Wheel Machinery
2. Application and Requirements
3. Exhaust System Design
4. Exhaust Ventilation

O 216
G 94(b)(2)
G 94(b)(4)
G 94(b)

Buffing and polishing wheels (Table G-5)

Grinding and abrasive cut off wheels (Table G-4)

Grinding and polishing belts (Table G-9)

Horizontal double-spindle disk grinders (Table G-7)

Horizontal single-spindle disk grinders (Table G-6)

Vertical spindle disk grinders (Table G-8)

5. Hood Enclosure Design

G 94(b)(5)

6. Standards

94(b)(6)

PROCESS STANDARDS (Cont'd.)



29 CFR 1910

	Sub-part	Section
C. PROCESS, DIP AND OPEN SURFACE TANKS		
1. Application and General Requirements	G	94(d)
Washing, degreasing, pickling, quenching, dyeing, dipping, bleaching, stripping, rinsing, electroplating, anodizing, tanning and coating	H	108
2. Classification of Open Surface Tanks	G	94(d)(2)
Fire and explosion determination		94(d)(2)
Hazard potential determination		94(d)(2)
Toxic g-s, fumes and mists, allowable concentrations (TLV)		93
3. Controls other than Ventilation		94(d)(6)
4. Dip Tanks Containing Flammable or Combustible Liquids	H	108
Construction and design		108(c)
Fire extinguishing facilities		108(c)(15), (16)
Storage of flammable liquids		8 (d) & (e)
Ventilation		108(d)(4)(g)
5. Dip Tanks, Special Applications		108(h)
Electrostatic coatings		108(h)(3)
Flow coatings		108(h)(2)
Hardening and tempering tanks		108(h)(1)
Roll coatings		108(h)(4)
6. Exhaust System Design	G	94(d)(2)
7. Exhaust Systems Operation and Maintenance		94(d)(8)
8. Fire Prevention and Protection	H	108(g)
Extinguishing facilities (automatic)		108(c)(1)
Ignition sources		108(f)
9. Installation, Maintenance and Inspection of Open Tanks	G	94(d)(11)
10. Open Surface Tank Operations	G	94(d)(13)
11. Operation, Maintenance and Inspection of Dip Tanks	H	108(i)
12. Other Special Process Tanks		
Acid tanks - pulp, paper and paperboard mills	H	261(g)(4)
Dissolving tanks - smelting		261(g)(1)(i)
Open mixing tanks - textiles		262(1)(i)
* 13. Personal Protection Against Acids, Corrosives and Irritating Contaminants	G	94(d)(9)
Chemical splashes, water flushing		94(d)(9)
Clothing, coats, jackets, sleeves, aprons		94(d)(9)
Cyanide, special precautions		94(d)(10)
Emergency showers and bubblers	H	261(g)(1)(i)
Emergency situations	G	94(d)(9)
- hazardous concentration contaminants, respirators		94(d)(9)
- oxygen deficient atmospheres, respirators		94(d)(9)
- personal protective equipment	J	134
Eye and face protection	G	94(d)(9)
Foot protection, impervious types		94(d)(9)
Hand protection, impervious types		94(d)(9)
Hazard instruction, employee		94(d)(9)
Locker space or change rooms		
- asbestos workers	H	101(d)(4)
- general requirements	J	141(e)
- open tank workers	G	94(d)(9)
Medical examinations		
- asbestos workers	G	93a(i)
- chronic acid workers		94(d)(9)
Medical restrictions and treatment		94(d)(9)

PROCESS STANDARDS (Cont'd.)

6

29 CFR 1910

	Sub-part	Section
9. Operation and Maintenance	II	107(g)
Cleaning solvents		107(g)(5)
Clothing storage		107(g)(4)
Hazardous material combinations		107(g)(ii)
Housekeeping, cleaning and waste disposal		107(g)(2), (3)
10. Other Spraying Techniques		
Asbestos	G	93a
Automobile undercoating	H	107(k)
Organic peroxides and dual component coatings		107(m)
Powder coating		107(ii)
11. Spray Booths and Spray Rooms	G	94(c)(ii)
Flammable and combustible materials	II	107(n)
12. Spray Booths, Design and Construction	G	94(c)(3)
13. Spray Rooms, Design and Construction	G	94(c)(4)
14. Ventilation and Atmospheric Controls	G	94(c)(5)
Automobile undercoating	II	107(k)
Electrostatic spraying, hand		107(ii)
Electrostatic spraying, mechanical		107(ii)
Spray finishing		107(ii)
G. WELDING, CUTTING AND BRAZING		
1. Arc Welding and Cutting		
Equipment installation	O	252(ii)(3)
- conductors and supply connectors		252(ii)(3)
- grounding of welding machines		252(ii)(3)
Equipment installation and operation		252(ii)
- employee qualifications and instructions		252(ii)(1)
- equipment selection, atmospheric and environmental considerations		252(ii)(2)
- voltage and design		252(ii)(7)
Equipment operation and maintenance		252(ii)(4)
2. Fire Prevention and Protection		252(ii)
Confined spaces, care of idle equipment		252(ii)(4)
Containers, welding and cutting		252(ii)(3)
Hazards, guards and restrictions		252(ii)(1)
Special precautions		252(ii)(2)
3. Fuel-Gas Systems Installation and Operation		252(i)
Acetylene generators		252(i)(6)
Calcium carbide storage		252(i)(7)
Cylinders and containers, approval and identification		252(i)(2)
General requirements		252(i)(1)
Manifolding cylinders		252(i)(3)
Oxygen fuel gas systems		252(i)
Public exhibitions and demonstrations		252(i)(8)
Regulators, hoses, piping and protective devices		252(i)(5)
Service piping systems		252(i)(4)
Storage and operating procedures		252(i)(2)
Storage of cylinders		252(i)(2)
4. Health Protection and Ventilation		252(i)
Application and general requirements for atmospheric contamination, ventilation, maximum allowable concentrations, warning labels, shielding and screening		252(i)(1)

MAR

000895

PROCESS STANDARDS (Cont'd.)

6

29 C.F.R. 1910

	Sub-part	Section
Confined spaces	O	252(f)(4)
- air line respirators		252(f)(4)
- air replacement		252(f)(4)
- respiratory protection	I	134
- self contained respirators	O	252(f)(4)
Exhaust hoods and booths		252(f)(3)
First aid equipment requirements		252(f)(13)
- medical and first aid	K	151
Ventilation	O	252(f)(2)
Welding and cutting		252(f)
- air contaminants	G	83
- beryllium	O	252(f)(8)
- cadmium		252(f)(9)
- cleaning compounds		252(f)(11)
- fluorine compounds		252(f)(5)
- lead		252(f)(7)
- mercury		252(f)(10)
- stainless steel		252(f)(12)
- zinc		252(f)(6)
6. Protection of Personnel		
Eye, head and face protection	O	252(e)(2)
- eye and face protection	I	133
- head protection	I	135
- selection and specifications	O	252(e)(2)
- welding booths, screens and shields	O	252(e)(2)
Noise exposure	G	86
Protection against falls	O	252(e)(1)
Protective clothing, types and specifications	O	252(e)(3)
Respirators	O	252(f)(4)
- respiratory protection	I	134(2), (4), (5), (7), (10)
Welding cables and hoses	O	252(e)(1)
Work in confined spaces		252(e)(4)
- ventilation, lifelines, warning signs, securing equipment		
Radiation		
- ionizing	G	86
- non-ionizing		87
6. Resistance Welding	O	252(c)
Equipment installation, operation, guarding, and employee protection and qualifications		252(c)(1)
Flash welding equipment		252(c)(4)
- flash guards, fire curtains and ventilation		
Hazards evaluation		252(c)(5)
Maintenance, inspection and records		252(c)(6)
Portable welding machines		252(c)(3)
- counterbalance, safety chains, switch guards, holders and grounding		
Spot and seam welding equipment, non portable		252(c)(7)
- guarding, interlocks, shielding, emergency stop buttons and grounding		

6

Sub-
part

Ω

Mechanical piping

Transmission pipelines

X-ray inspections

- ionizing radiation

G

757(n)

752(g)(2)

252(g)(1)

252(g)(1)&(2)

88

Occupational Safety and Health

Administrative Regulations

- A ADVISORY COMMITTEES ON STANDARDS
- B INSPECTIONS, CITATIONS AND PROPOSED PENALTIES
- C PROMULGATING, MODIFYING OR REVOKING OCCUPATIONAL SAFETY AND HEALTH STANDARDS
- D RECORDING AND REPORTING OCCUPATIONAL INJURIES AND ILLNESSES
- E RECORDS—EMPLOYEE EXPOSURE TO HAZARDOUS SUBSTANCES OR CONDITIONS
- F VARIANCES, LIMITATIONS, VARIATIONS, TOLERANCES AND EXEMPTIONS

Occupational Safety and Health ADMINISTRATIVE REGULATIONS		7	29 CFR
		Part	Section
A. ADVISORY COMMITTEES ON STANDARDS—Title 29 CFR Part 1912		1912	
1. Construction Safety Advisory Committee			.20
2. National Advisory Committee on Occupational Safety and Health			.3
3. Participation by Interested Persons			.20
4. Standing and Temporary Committees			.19
5. Subcommittees, Experts and Consultants			.28
B. INSPECTIONS, CITATIONS AND PROPOSED PENALTIES—Title 29 CFR Part 1903		1903	
1. Advance Notice of Inspections			.0
2. Authority for OSHA Inspections			.3
3. Citations			.14
4. Complaints by Employees			.7
5. Conduct of Inspections			.7
6. Employer and Employee Contests before OSHA Review Commission			.17
7. Failure to Correct a Cited Violation			.18
8. Informal Conferences with OSHA Regional Administrators to Discuss Citations			.19
9. Posting of Citations at or Near Site of Violation			.18
10. Posting of Notices, Availability of OSH Act, Regulations and Applicable Standards			.2
11. Proposed Penalties			.15
12. Representatives of Employers and Employees			.8
C. PROMULGATING, MODIFYING OR REVOKING OCCUPATIONAL SAFETY AND HEALTH STANDARDS—Title 29 CFR Part 1911		1911	
1. Construction Standards			.10
2. Emergency Standards			.12
3. Hearings			.15
4. Other Standards			.11
5. Petition for the Promulgation, Modification or Revocation of a Standard			.3

7

Part	Section
------	---------

U. S. GOVERNMENT PRINTING OFFICE: 1964-10-14, 64-1512, 1 (1972) 50 000 000