# New Walking-Working Surfaces and PPE (Fall Protection) Rule

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#### **Purpose of the New Rule**

- To update the outdated subpart D standard, incorporating new technology and industry practices
- To increase consistency with OSHA's construction standards (CFR 1926 subparts L, M, and X)
- To add new provisions to subpart I that set forth criteria requirements for personal fall protection equipment

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#### Who is Affected?

 OSHA estimates 6.9 million general industry establishments employing 112.3 million workers will be affected

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#### **Benefits**

- According to BLS data, slips, trips, and falls are a leading cause of workplace fatalities and injuries in general industry
- OSHA estimates the new rule will prevent
   29 fatalities and 5,842 injuries annually
- Net benefits \$309.5 million/year
   (Monetized benefits annual costs)

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#### **Need for Regulation - Fatal Falls**

Table II-1. Fatal Falls to a Lower Level - General Industry

Year	Fatal Falls to a Lower Level
2006	283
2007	279
2008	234
2009	237
2010	243
2011	278
2012	270



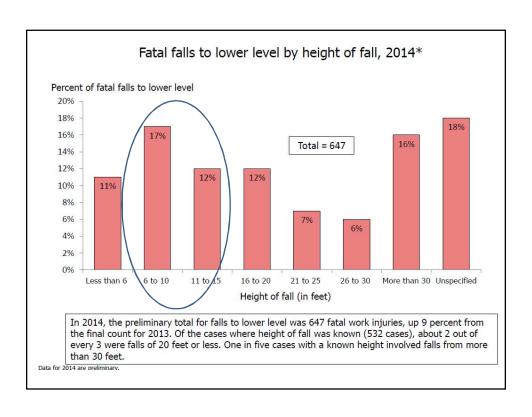
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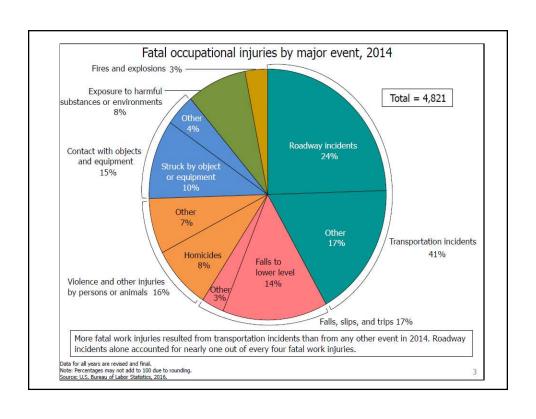
# Falls by Industry 2006-2012

- Professional, Scientific and Technical Services (NAICS 541) and Administrative Support Services (NAICS 561) = 27% of fatal falls
  - 86% of Admin Support Services fatal falls occurred in industries providing services to buildings/dwellings
- Manufacturing (NAICS 31-33) = 9.6%
- Transportation (NAICS 48) = 7.1%

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#### **Organization of Subpart D**

§1910.21 – Scope, Application and Definitions §1910.22 – General

Requirements

§1910.23 – Ladders

§1910.24 – Step bolts and Manhole Steps

§1910.25 – Stairways

§1910.26 – Dockboards

§1910.27 – Scaffolds and Rope Descent Systems

§1910.28 – Duty to Have Fall

Protection

§1910.29 – Fall Protection Systems Criteria and Practices

§1910.30 –Training Requirements

#### §1910.21

#### §1910.21 – Scope and definitions

- Consolidates definitions into one section.
- Adds new definitions to provide clarity

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#### §1910.22 – General Requirements

- Maintains housekeeping provisions
- Walking-working surfaces must be designed to meet their maximum intended load, free of recognized hazards, and routinely inspected -UPDATED
- Repairs to be done, or overseen, by qualified person - NEW



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#### **Walking Working Surfaces**









#### **Walking Working Surfaces**



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#### 1910.23

- Fixed Ladders phased in requirements
  - Existing ladders: installed before 11/19/18 require personal fall arrest system, ladder safety system, cage or well
  - New ladders: installed after 11/19/18 require personal fall arrest or ladder safety system
  - Replacements: fall arrest/ladder safety system
  - 11/18/36: fall arrest/ladder safety system for all



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## §1910.24 – Step bolts and manhole steps

- Moves step bolt criteria from OSHA's Telecommunication Standard to Walking-Working Surfaces
- Makes design, inspection, and maintenance requirements consistent with national consensus standards



Step bolts on pole



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#### §1910.25

#### §1910.25 - Stairways

- Adds design and use criteria for spiral stairs, ship stairs, and alternating tread-type stairs
- Updates design criteria for stairs and landings, consistent with national consensus standards



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#### §1910.26 - Dockboards

- Updates requirements for dockboards
- Adds design and construction requirements to prevent equipment from going over the dockboard edge



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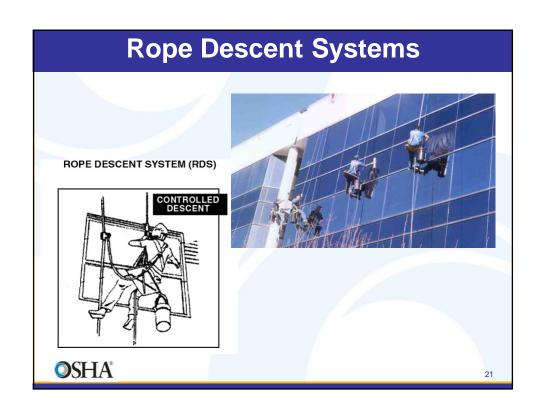
#### §1910.27

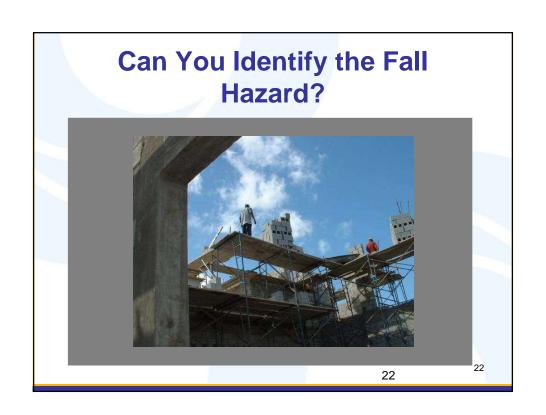
### §1910.27 – Scaffolds and Rope Descent Systems (RDS)

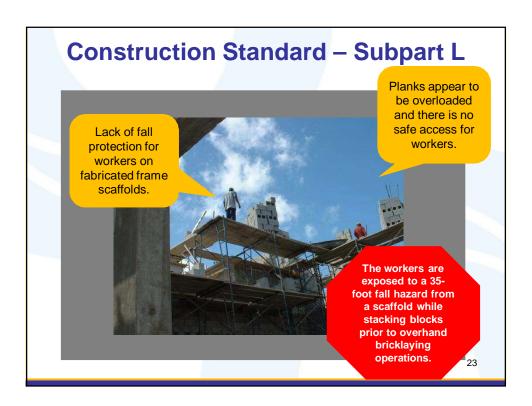
- Requires that employers using scaffolds follow the construction standard (Subpart L, 1926.451+)
- Adds provision allowing use of RDS, which codifies a 1991 OSHA memo allowing RDS
- Requires certification of anchorages starting 1 year after final rule published
- Requires RDS have separate fall arrest system



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# §1910.28 – Duty to have fall protection and falling object protection

- Consolidates general industry fall protection requirements into one section
- Makes requirements and format consistent with construction standard
- Incorporates new technology that is consistent with national consensus standards
- Gives employers flexibility to use the system that works best to protect workers in their situation



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- Generally requires falling object protection and fall protection meeting criteria in 1910.29
- 1910.28(b)Protection from fall hazards:
  - 4 feet or more above a lower level:
  - Guardrail systems
  - Safety net systems; or
  - Personal fall protection systems

> PFAS
> Travel
restraint
> Positioning
system

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#### §1910.28

1910.28(b)(2) – (b)(15):

requirements for special conditions including:

- Hoist Areas
- Holes
- Dockboards
- Runways
- Dangerous Equipment
- Repair/Service Pits< 10 ft in depth</li>

- Fixed Ladders (24')
- Outdoor Advertising
- Scaffolds and Rope Descent Systems
- Low-Slope Roofs
- Slaughtering
   Facility Platforms
- Surfaces notOtherwise Covered

#### §1910.29 - Fall protection systems criteria

Specifies design and installation requirements of each fall protection system available to employers including:

- Guardrails
  - Top rail: 42 ± 3"
  - Midrail or Screen or Vertical posts 19" or closer
- Stair rails
  - **42**
  - Handrail: 30-38"
  - 1 system: 36-38"

- Designated Areas
- Safety Nets
- Covers
- Cages and wells
- Ladder safety systems
- Toeboards

#### §1910.30

#### §1910.30 - Training

- Adds training and retraining requirements addressing fall hazards and equipment hazards
- Requires employers make training understandable to workers



## §1910.140 – Personal Protective Equipment, Subpart I (Personal Fall Protection Systems)

- Adds definitions for personal fall protection systems
- Adds new section on system and use criteria for:
  - Personal fall protection equipment (e.g., lanyards, ropes, D-rings, harnesses)
  - · Personal fall arrest systems
  - Travel restraint systems
  - Work positioning systems



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# Personal Fall Protection Work Positioning Personal Fall Arrest

#### **Major Changes**

- Fall Protection Flexibility
- Updated Scaffold Requirements
- Phase-in of ladder safety systems or personal fall arrest systems on fixed ladders
- Phase-out of "qualified climbers" on outdoor advertising structures
- Rope descent systems
- Adds requirements for personal fall protection equipment (final §1910.140)
- Adds training requirements



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#### **Main Effective Dates**

- Rule overall: January 17, 2017
- Training: 6 months after publication
- Building anchorages for RDS: 1 year after publication
- Fixed ladder fall protection: 2 years after publication
- Installation of ladder safety system or personal fall arrest system on fixed ladders:
   20 years after publication



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