

# Directorate of Construction Alliance Program Roundtable

**September 20, 2018** 

Scott C. Ketcham, CSP
Deputy Director
Directorate of Construction
Occupational Safety and Health Administration



## **Agenda**

- Statistics
- Regulatory
- Silica
- Trenching
- Stand-downs
- Digital media





## Top Ten Violations in Construction FY 2017

- 1. Fall Protection General Requirements (1926.501)
- 2. Scaffolding (1926.451)
- 3. Ladders (1926.1053)
- 4. Fall Protection Training (1926.503)
- 5. Eye and Face Protection (1926.102)
- 6. Hazard Communication (1910.1200)
- 7. Head Protection (1926.100)
- 8. Aerial Lifts (1926.453)
- 9. General Safety and Health Provisions (1926.20)
- 10. Fall Protection Systems Criteria and Practices (1926.502)

### **Regulatory Activities**

#### **Deregulatory/Correction Rules**

- Standards Improvement Project IV (Final Rule)
  - 17 standard sections proposed to be revised:
    - Removes requirements for social security numbers on 17 health standard cord requirements
    - Removes requirements for posting load capacity signs on floors of residential structures
    - Removes requirement to maintaining hardcopies of x ray documents for specified medical surveillances
    - Feral cats no longer labeled vermin in shipyards
- In Final Departmental Clearance



## Regulatory (cont.)

- Railroad Cranes- Analyzing Comments from Proposed Rule
- > Tech Amendments- 2<sup>nd</sup> level review.
- Communication Tower SBREFA- SBAR panels have been completed; recommendations forthcoming in October
- > Crane Amendments- Under staff development



### **Crane Operator Qualification**

- > Crane Operator Requirements Extension
  - Extends the Effective Date of Crane Certification Requirements to November 10, 2018



- Maintains Employer Obligation to Ensure Crane Operator Competency
- Provides Crane Operator Competency Evaluation Criteria
- Clarifies Crane Operator Training Requirements
- Revises Certification Requirements (not by capacity)
- > FR published May 18, 2018
  - **Comment period closed 7/5/2018** → Comment period closed 7/5/2018
    - > Final Rule Development Stage





## Top Violations in Cranes From 10/1/16 - 5/31/18

Standard Hazards		Total Violations	
1926.1408(a)(2)	20 foot clearance from power line	18	
1926.1428(a)(2)	Signal person qualifications	17	
1926.1412(f)(1)	Annual/ comprehensive	14	
1926.1424(a)(2)(ii)	Swing radius hazards	7	
1926.1425(c)(2)	Hooks with self-closing latches	6	

**SOURCE: OIS** 



## **Monorail Hoist Enforcement Policy**

- The purpose of this memorandum is to announce a temporary enforcement policy pending the resolution of that rulemaking process.
- ➤ OSHA Memorandum Effective June 30, 2017.
- ➤ For Construction Application monorail hoist is covered by 29 CFR 1926. 554 and other applicable provisions such as Subpart O
- For General Industry Applications monorail hoists are covered by Section 5 (a)(1) the general duty

#### **Examples of Monorail Hoists**



**Mast Climber with Non-Swinging Mounted Monorail Hoist** 



**Work Vehicle Mounted Monorail Hoist** 



**Burial Vault Delivery Rig** 



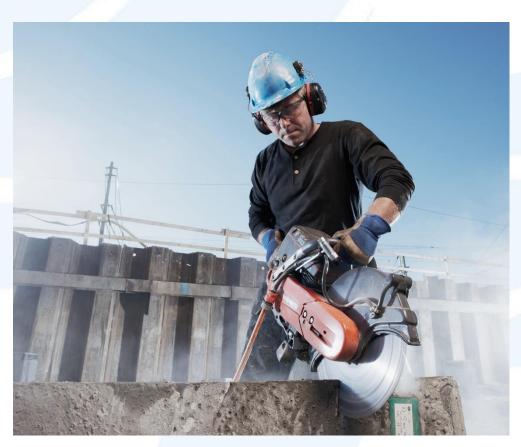
**Vault Handler** 



**Septic Tank Delivery Rig** 



## Respirable Crystalline Silica: The Construction Standard





### **Crystalline Silica in Construction**

- Publish Date: March 25, 2016
- Effective Date: September 23, 2017
- New group of FAQ's have been posted

https://www.osha.gov/dsg/topics/silicacrystalline/construction\_info\_silica.html

- Request for Information about new tools to be added to table 1
- Video: protecting Workers from Silica Hazards in the workplace



## Top Violations in Silica From 10/1/17 - 5/31/18

Standard	Standard Hazards	
1926.1153(d)(2)(i)	Exposure assessment	53
1926.1153(c)(1)	Specified exposure control methods	51
1926.1153(g)(1)	Written exposure control plan	32
1926.1153(i)(1)	Communication of respirable crystalline silica hazards to employees	12
1926.1153(i)(2)(1)	Employee information and training	9

SOURCE: OIS



#### **Guidance and Outreach**

 Silica Rulemaking Webpage:

www.osha.gov/silica

- Fact sheets
- FAQs
- Video
- Small Entity Compliance Guide
- Appendix B Medical Surveillance Guidelines



pulmonary disease and kichey disease in America's workers by limiting their evongure to respirable crystalline silica. The rule is comprised of two standards, one for Construction and one for General Industry and Maritime

OSHA estimates that the rule will save over 600 lives and prevent more than 900 new cases of silicosis each year, once its effects are fully realized. The Final Rule is projected to provide net benefits of about \$7.7 billion, annually

About 2.3 million workers are exposed to respirable crystalline silica in their workplaces, including 2 million construction workers who drill, cut, crush, or grind silica-containing materials such as concrete and stone, and 300,000 workers in general industry operations such as brick manufacturing, foundries, and hydraulic fracturing, also known as fracking. Responsible employers have been protecting workers from harmful exposure to respirable crystalline silica for years, using widely-available equipment that controls dust with water or a vacuum system.

#### Key Provisions

- . Reduces the permissible exposure limit (PEL) for respirable crystalline silica to 50 micrograms per cubic meter of air, averaged
- . Requires employers to: use engineering controls (such as water or ventilation) to limit worker exposure to the PEL; provide respirators when engineering controls cannot adequately limit exposure; limit worker access to high exposure areas; develop a written exposure control plan, offer medical exams to highly exposed workers, and train workers on silica risks and how to
- Provides medical evams to monitor highly evapped workers and dives them information about their lung health Provides flexibility to help employers — especially small businesses — protect workers from silica exposure.

Both standards contained in the final rule take effect on June 23, 2016., after which industries have one to five years to comply with most requirements, based on the following schedule:

Construction - June 23, 2017, one year after the effective date.

General Industry and Maritime - June 23, 2018, two years after the effective date.

Hydraulic Fracturing - June 23, 2018, two years after the effective date for all provisions except Engineering Controls, which have a compliance date of June 23, 2021.

#### Background

The U.S. Department of Labor first highlighted the hazards of respirable crystalline silica in the 1930s, after a wave of worker deaths. The department set standards to limit worker exposure in 1971, when OSHA was created. However, the standards are Submit a Question by Email



#### Background

Changes from the Proposed Rule\* Archived Proposed Rule Webpages Video of Announcement Event

OSHA Crystalline Silica Webpage American Lung Association Web Page on Silicosis International Agency for Research on Cancer Monograph on American Cancer Society Findings on Workplace-Related Working Safely with Silica NOOSH Silica Information web page

## **OSHA's Trenching Initiative**









## **Agency Priority Goal**



#### **Department of Labor**

Worker Safety: Reduce Trenching and Excavation Hazards

Goal Leader: Loren Sweatt, Deputy Assistant Secretary for Occupational Safety

and Health

Deputy Goal Leader: Dean McKenzie, Director, Directorate of Construction

**Goal Statement:** By September 30, 2019, increase trenching and excavation hazards abated by 10% compared to FY2017 through inspections and compliance assistance at workplaces covered by the Occupational Safety and Health Administration.

Implementation Action Plans will be available with the Q1 FY 2018 performance update.

 Government – OSHA example – OSHA does reference and use this standard now:



## **OSHA Trenching Initiative Goals**

Increase awareness of excavation hazards in construction;

 Educate employers and workers on safe cave-in prevention solutions; and

Decrease the number of trench collapses



## **OSHA Trenching Initiative**

- Supports the APG through Enforcement and Consultation
  - ✓ Every hazard abated in Subpart P counts
  - ✓ Includes both Enforcement and Consultation

 A revised OSHA NEP for Trenching and Excavations will be in effect in early October





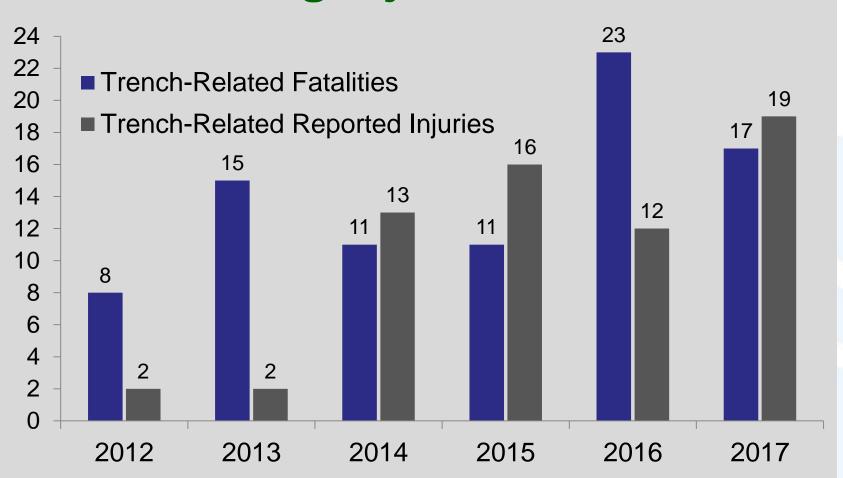


#### **Public Service Announcement**





## **Trenching Injuries & Deaths**



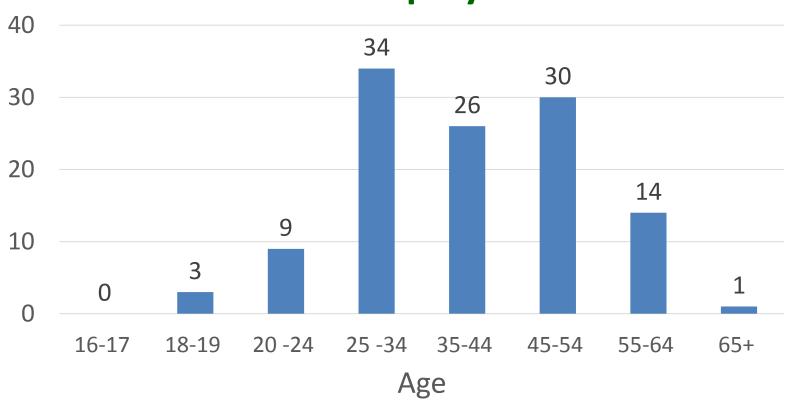


## Fatal occupational injuries involving trenching/excavation

	2011-2016
Characteristic	total
	/
Total:	130
Employee status:	
Wage and salary	
workers <sup>(2)</sup>	115
Self-employed <sup>(3)</sup>	13
Gender:	
Women	1
Men	129

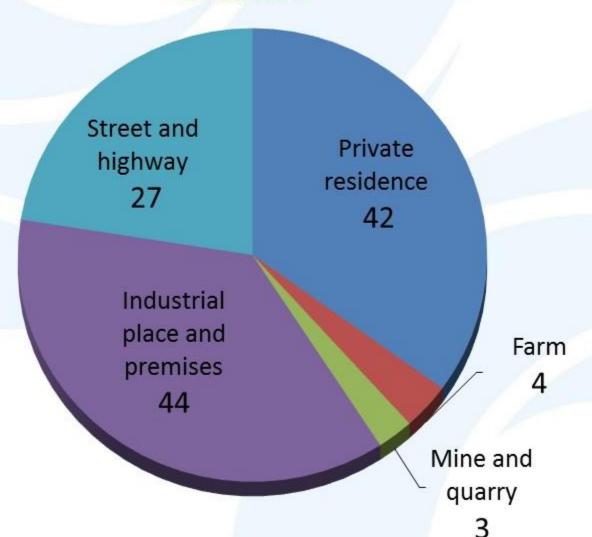


# Fatal Injuries involving trenching/excavation (2011-2016) Employee



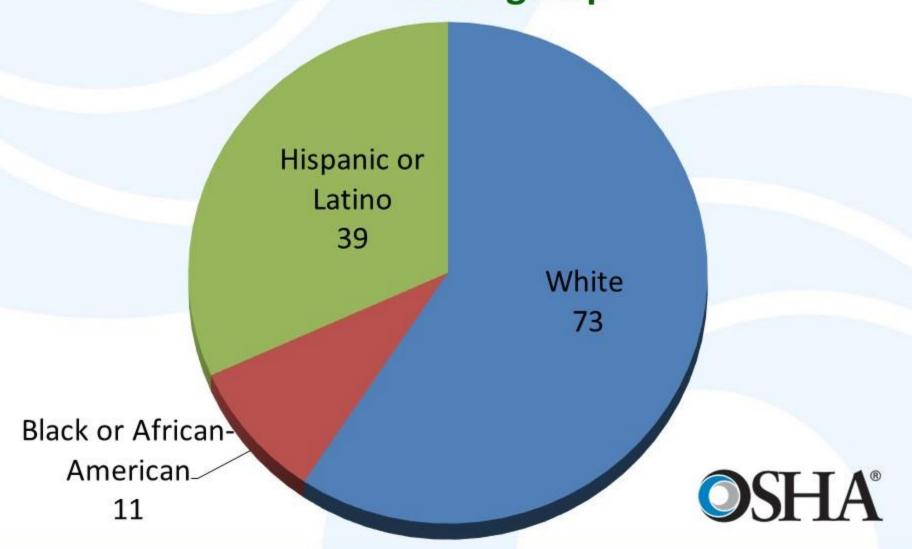


# Fatal injuries involving trenching/excavation (2011-2016) Location





# Fatal injuries involving trenching/excavation (2011-2016) Race or Ethnic group



Trenching/Excavation Incidents by	,
End Use Type of Construction	

Type of Construction	Number	Percent	
	M. I	7	
single family or duplex dwel	lling 29	24%	
pipeline	19	16%	
highway street road	16	13%	
commercial building	10	8%	
other heavy construction	10	8%	
sewer/water treatment plant	t 9	8%	
other building	8	7%	
multi-family dwelling	7	6%	
bridge	4	3%	
powerline transmission	4	3%	
excavation landfill	2	2%	
manufacturing plant	1	1%	
power plant	1	1%	
	120	100%	
		1 / /	

Note: Out of 156 total incidents, for which 36 end use unspecified.

Source: OSHA OIS Accident Investigation Report, FY 2013 - FY 2017



### **Trenching Outreach**

#### TRENCH SAFETY STAND DOWN

JUNE 18-23, 2018

TO PREVENT TRENCHING FATALITIES AND **ACCIDENTS** 



#### NAXSA North American **Excavation Shoring Association**







June 18-23, 2018



Trench-related fatalities continue trending up. NUCA, OSHA, and NAXSA have teamed up for our 3rd annual Trench Safety Stand Down Week, June 18-23, 2018, to educate workers and reverse this trend.

#### Who Should Participate

Any construction company that engages in trenching operations, plumbers, military, unions, associations, educational institutions, safety professionals, and safety equipment manufacturers.

#### How Companies Can Hold A Stand Down

- Hold a 20-minute Toolbox Talk
- Show an Excavation Safety Video
- Hold a Training Class

Every company or organization that holds a TSSD will receive a certificate of participation, as well as hard had stickers for all employees who participated. Recognition will also be giving in a press release, and NUCA and NAXSA publications.

TSSB details, as well as Toolbox talks, fact sheets, and other stand down materials can be found at nuca.com/tssd.



Also sponsored by NUCA's Safety Ambassadors Club

Alex E. Paris Contracting Atlas Excavating
Barber Utilities
Blood Hound
Case Construction Equipment
Caterpillar, Inc.
Cemen Tech, Inc.
COMDATA
Core & Main
CNA
Ditch Witch Ditch Witch

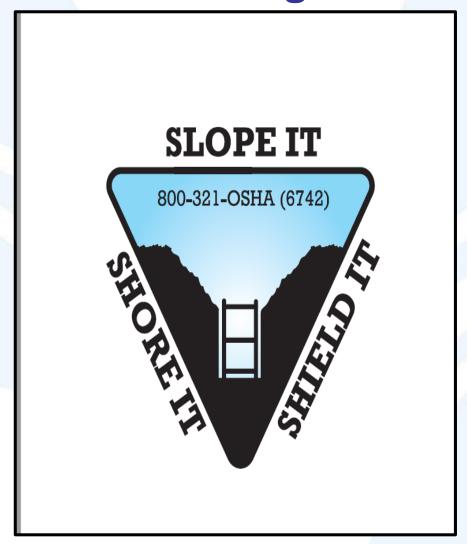
Ditch Witch Ferguson Waterworks Greg Strudwick & Associates HCSS Horizontal Boring & Tunneling HRP Construction Hymax by Krausz John Deere Johnson Bros. Komatsu America I G Releft Construction McLaughlin National Trench Safety Petticoat-Schmitt Civil Contractors

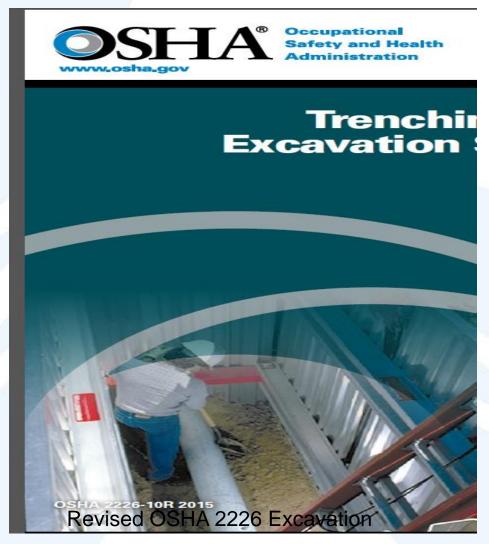
United Rentals Xylem Wacker Neuson Corp.





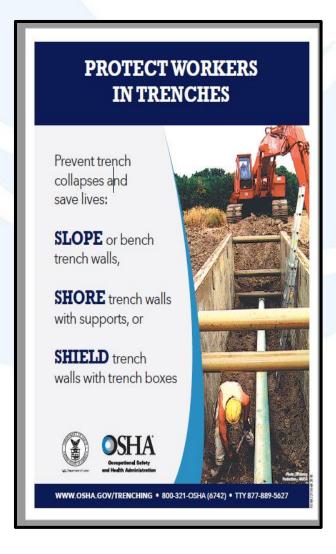
#### **Trenching and Excavation Resources**

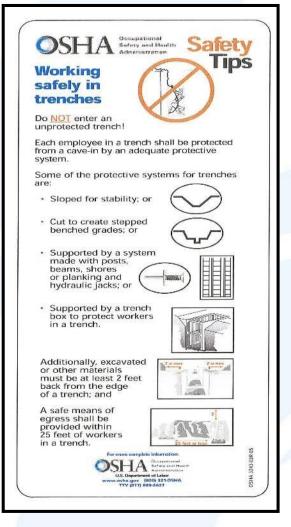






#### **Trenching and Excavation Resources**









## 2018 NUCA / NAXSA Safety Stand-Down

• The Safety Stand-Down is part of OSHA's ongoing trenching initiative campaign to raise awareness of excavation hazards in construction.

More than **22,000** workers reached

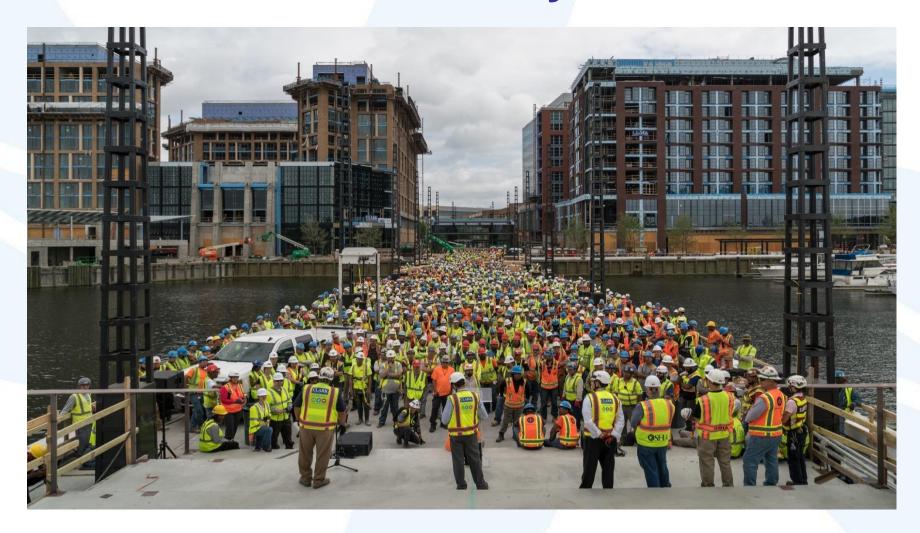
Number of unique entries/stand-downs = 1,725

Number of companies that held stand-down events on more than one day = 373

 OSHA is working with both NUCA and NAXSA to emphasize use of protective systems to the utility industry.



## 2018 National Fall Safety Stand-Down





## **Digital Media**

#### YouTube



39,039

Total views of OSHA videos posted on YouTube in July 1,301

Average daily views of OSHA videos

81

OSHA videos currently posted on YouTube

#### QuickTakes newsletter

221,896

SUBSCRIBERS in JULY

2018



#### **MOST POPULAR LINKS**

Readers in July linked most to these webpages from QuickTakes:

UNIQUE CLICKS

- First day of summer Water.Rest.Shade. tweet 4,289
- Responsibility for temporary worker safety tweet 4,163
- Occupational Heat Exposure webpage 2,146
- Heat Illness Prevention Campaign webpage 1,575
- Trench Safety sticker 1,192

NOTEWORTHY: Yes, it's summer! Three of five most-clicked links in July related to heat safety.

#### **Twitter**



22 tweets issued in July

11,473 followers of @OSHA\_DOL (10,976 last month)

#### THIS MONTH

1,446

**Total engagements** drawn by OSHA's tweets, and an **engagement rate** of

1.2%

115,397

Total impressions



## **Top OSHA Videos watched in July**



### **Questions?**



