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## Exempt Action Final Regulation Agency Background Document

Agency name	Virginia Department of Labor and Industry/Safety and Health Codes Board			
Virginia Administrative Code (VAC) citation	16VAC25-175-1926.856, Removal of Walls, Floors and Material with Equipment, §1926.856;			
	16VAC25-175-1926.858, Removal of Steel Construction, §1926.858;			
	16VAC25-175-1926.800, Underground Construction, §1926.800			
Regulation title	Cranes and Derricks in Construction: Demolition and Underground Construction			
Action title	Direct Final Rule for Cranes and Derricks in Construction: Demolition and Underground Construction			
Final agency action date	September 12, 2012			
Document preparation date	September 17, 2012			

When a regulatory action is exempt from executive branch review pursuant to § 2.2-4002 or § 2.2-4006 of the Virginia Administrative Process Act (APA), the agency is encouraged to provide information to the public on the Regulatory Town Hall using this form.

Note: While posting this form on the Town Hall is optional, the agency must comply with requirements of the Virginia Register Act, Executive Orders 14 (2010) and 58 (1999), and the *Virginia Register Form, Style, and Procedure Manual*.

## Summary

Please provide a brief summary of all regulatory changes, including the rationale behind such changes. Alert the reader to all substantive matters or changes. If applicable, generally describe the existing regulation.

On August 17, 2012, federal OSHA issued a Direct Final Rule, along with a companion notice of proposed rulemaking [77 FR 49741], that applies the requirements of the August 2010 Final Rule for Cranes and Derricks in Construction to demolition work and underground construction.

This Direct Final Rule has applied the same crane rules to underground construction and demolition that were already being used by other construction sectors, and has streamlined federal OSHA's standards by eliminating the separate Cranes and Derricks Standard currently used for underground and demolition work.

The Direct Final Rule also corrected several errors introduced in the 2010 rulemaking. To cover all construction work under Subpart CC, and to correct errors, federal OSHA has amended §§1926.856(c) and 1926.858(b) by replacing the requirements to comply with Subpart DD with requirements to comply with Subpart CC, and has amended §1926.858(b) by reinstating the requirement to comply with Subpart N as well.

Also, federal OSHA has amended §1926.800(t) to extend Subpart CC to underground construction, and to resolve the technical errors set forth in that section. Federal OSHA has amended the introductory paragraph of §1926.800(t) to restore the provision allowing employers to use cranes to hoist personnel for routine access to the underground worksites via a shaft without the need to show that conventional means of access are more hazardous or impossible for this purpose. This amendment excepts routine access of employees to an underground worksite via a shaft from the requirements of §1926.1431(a), requirements that are virtually identical to the requirements of §1926.550(g)(2). Federal OSHA has also restored §1926.800(t)(1) through (4). Also, OSHA has corrected three minor grammatical errors that appeared in the text of paragraphs §1926.800(t)(3)(vi), (t)(4)(iii), and (t)(4)(iv), as previously published in the Code of Federal Regulations.

## Statement of final agency action

Please provide a statement of the final action taken by the agency including (1) the date the action was taken, (2) the name of the agency taking the action, and (3) the title of the regulation.

On September 12, 2012, the Safety and Health Codes Board adopted federal OSHA's Direct Final Rule for Cranes and Derricks in Construction; Demolition and Underground Construction, as published in 77 FR 49722 on August 17, 2012, with an effective date of January 1, 2013.

## Family impact

Assess the impact of this regulatory action on the institution of the family and family stability.

This regulatory action will have no impact on the institution of the family and family stability.

To access the Final Rule, please refer to:

http://www.osha.gov/FedReg\_osha\_pdf/FED20120817A.pdf

## Cranes and Derricks in Construction: Demolition and Underground Construction §§1926.856, 1926.858, and 1926.800, respectively; Direct Final Rule

As Adopted by the

Safety and Health Codes Board

Date: September 12, 2012



## VIRGINIA OCCUPATIONAL SAFETY AND HEALTH PROGRAM

VIRGINIA DEPARTMENT OF LABOR AND INDUSTRY

Effective Date: January 1, 2013

16VAC25-175-1926.856, Removal of Walls, Floors and Material with Equipment, §1926.856 16VAC25-175-1926.858, Removal of Steel Construction, §1926.858 16VAC25-175-1926.800, Underground Construction, §1926.800 When the regulations, as set forth in the Direct Final Rule for Cranes and Derricks in Construction: Demolition and Underground Construction, §§1926.856, 1926.858 and 1926.800, respectively, are applied to the Commissioner of the Department of Labor and Industry and/or to Virginia employers, the following federal terms shall be considered to read as below:

Federal Terms	VOSH Equivalent
29 CFR	VOSH Standard
Assistant Secretary	Commissioner of Labor and Industry
Agency	Department
November 15, 2012,	January 1, 2013

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## Amendments to Standards

For the reasons stated in the preamble of this direct final rule, OSHA is amending 29 CFR part 1926 as follows:

PART 1926-[AMENDED]

# Subpart S—Underground Construction, Caissons, Cofferdams, and Compressed Air

■ 1. Revise the authority citation for subpart S of 29 CFR part 1926 to read as follows:

Authority: 40 U.S.C. 3701; 29 U.S.C. 653, 655, 657; and Secretary of Labor's Orders 12– 71 (36 FR 8754), 8–76 (41 FR 25059), 9–83 (48 FR 35736), 1–90 (55 FR 9033), 6–96 (62 FR 111), 5–2007 (72 FR 31159), or 1–2012 (77 FR 3912), as applicable. 2. Amend § 1926.800 by revising paragraph (1) to read an fallowing

paragraph (t) to read as follows:

### § 1926.800 Underground construction.

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\* (t) Hoisting unique to underground construction. Except as modified by this paragraph (t), employers must: Comply with the requirements of subpart CC of

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this part, except that the limitation in § 1926.1431(a) does not apply to the routine access of employees to an underground worksite via a shaft; ensure that material hoists comply with § 1926.552(a) and (b) of this part; and ensure that personnel hoists comply with the personnel-hoists requirements of § 1926.552(a) and (c) of this part and the elevator requirements of § 1926.552(a) and (d) of this part.

(1) General requirements for cranes and hoists. (i) Materials, tools, and supplies being raised or lowered, whether within a cage or otherwise, shall be secured or stacked in a manner to prevent the load from shifting, snagging or falling into the shaft.

(ii) A warning light suitably located to warn employees at the shaft bottom and subsurface shaft entrances shall flash whenever a load is above the shaft bottom or subsurface entrances, or the load is being moved in the shaft. This paragraph does not apply to fully enclosed hoistways.

(iii) Whenever a hoistway is not fully enclosed and employees are at the shaft bottom, conveyances or equipment shall be stopped at least 15 feet (4.57 m) above the bottom of the shaft and held there until the signalman at the bottom of the shaft directs the operator to continue lowering the load, except that the load may be lowered without stopping if the load or conveyance is within full view of a bottom signalman who is in constant voice communication with the operator.

(iv)(A) Before maintenance, repairs, or other work is commenced in the shaft served by a cage, skip, or bucket, the operator and other employees in the area shall be informed and given suitable instructions.

(B) A sign warning that work is being done in the shaft shall be installed at the shaft collar, at the operator's station, and at each underground landing.

(v) Any connection between the hoisting rope and the cage or skip shall be compatible with the type of wire rope used for hoisting.

(vi) Spin-type connections, where used, shall be maintained in a clean condition and protected from foreign matter that could affect their operation.

(vii) Cage, skip, and load connections to the hoist rope shall be made so that the force of the hoist pull, vibration, misalignment, release of lift force, or impact will not disengage the connection. Moused or latched openthroat hooks do not meet this requirement.

(viii) When using wire rope wedge sockets, means shall be provided to prevent wedge escapement and to ensure that the wedge is properly seated.

(2) Additional requirements for cranes. Cranes shall be equipped with a limit switch to prevent overtravel at the boom tip. Limit switches are to be used only to limit travel of loads when operational controls malfunction and shall not be used as a substitute for other operational controls.

(3) Additional requirements for hoists.
(i) Hoists shall be designed so that the load hoist drum is powered in both directions of rotation, and so that brakes are automatically applied upon power release or failure.

(ii) Control levers shall be of the "deadman type" which return automatically to their center (neutral) position upon release.

(iii) When a hoist is used for both personnel hoisting and material hoisting, load and speed ratings for personnel and for materials shall be assigned to the equipment. (iv) Material hoisting may be

 (iv) Material hoisting may be performed at speeds higher than the rated speed for personnel hoisting if the hoist and components have been designed for such higher speeds and if shaft conditions permit.
 (v) Employees shall not ride on top of

(v) Employees shall not ride on top of any cage, skip or bucket except when necessary to perform inspection or maintenance of the hoisting system, in which case they shall be protected by a body belt/harness system to prevent falling.

(vi) Personnel and materials (other than small tools and supplies secured in a manner that will not create a hazard to employees) shall not be hoisted together in the same conveyance. However, if the operator is protected from the shifting of materials, then the operator may ride with materials in cages or skips which are designed to be controlled by an operator within the cage or skip. (vii) Line speed shall not exceed the

(vii) Line speed shall not exceed the design limitations of the systems.

(viii) Hoists shall be equipped with landing level indicators at the operator's station. Marking the hoist rope does not satisfy this requirement.

(ix) Whenever glazing is used in the hoist house, it shall be safety glass, or its equivalent, and be free of distortions and obstructions.

(x) A fire extinguisher that is rated at least 2A:10B:C (multi-purpose, dry chemical) shall be mounted in each hoist house.

(xi) Hoist controls shall be arranged so that the operator can perform all operating cycle functions and reach the emergency power cutoff without having to reach beyond the operator's normal operating position. (xii) Hoists shall be equipped with limit switches to prevent overtravel at the top and bottom of the hoistway.

(xiii) Limit switches are to be used only to limit travel of loads when operational controls malfunction and shall not be used as a substitute for other operational controls.

(xiv) Hoist operators shall be provided with a closed-circuit voice communication system to each landing station, with speaker microphones so located that the operator can communicate with individual landing

stations during hoist use. (xv) When sinking shafts 75 feet (22.86 m) or less in depth, cages, skips, and buckets that may swing, bump, or snag against shaft sides or other structural protrusions shall be guided by fenders, rails, ropes, or a combination of those means.

(xvi) When sinking shafts more than 75 feet (22.86 m) in depth, all cages, skips, and buckets shall be rope or rail guided to within a rail length from the sinking operation.

sinking operation. (xvii) Cages, skips, and buckets in all completed shafts, or in all shafts being used as completed shafts, shall be rope or rail-guided for the full length of their travel.

(xviii) Wire rope used in load lines of material hoists shall be capable of supporting, without failure, at least five times the maximum intended load or the factor recommended by the rope manufacturer, whichever is greater. Refer to § 1926.552(c)(14)(iii) of this part for design factors for wire rope used in personnel hoists. The design factor shall be calculated by dividing the breaking strength of wire rope, as reported in the manufacturer's rating tables, by the total static load, including the weight of the wire rope in the shaft when fully extended.

(xix) A competent person shall visually check all hoisting machinery, equipment, anchorages, and hoisting rope at the beginning of each shift and during hoist use, as necessary.

(xx) Each safety device shall be checked by a competent person at least weekly during hoist use to ensure suitable operation and safe condition.

(xxi) In order to ensure suitable operation and safe condition of all functions and safety devices, each hoist assembly shall be inspected and loadtested to 100 percent of its rated capacity: at the time of installation; after any repairs or alterations affecting its structural integrity; after the operation of any safety device; and annually when in use. The employer shall prepare a certification record which includes the date each inspection and load-test was performed; the signature of the person 49730 Federal Register/Vol. 77, No. 160/Friday, August 17, 2012/Rules and Regulations

who performed the inspection and test; and a serial number or other identifier for the hoist that was inspected and tested. The most recent certification record shall be maintained on file until completion of the project.

(xxii) Before hoisting personnel or material, the operator shall perform a test run of any cage or skip whenever it has been out of service for one complete shift, and whenever the assembly or components have been repaired or adjusted.

(xxiii) Unsafe conditions shall be corrected before using the equipment.

(4) Additional requirements for personnel hoists. (i) Hoist drum systems shall be equipped with at least two means of stopping the load, each of which shall be capable of stopping and holding 150 percent of the hoist's rated line pull. A broken-rope safety, safety catch, or arrestment device is not a permissible means of stopping under this paragraph.

(ii) The operator shall remain within sight and sound of the signals at the operator's station.

<sup>^</sup>(iii) All sides of personnel cages shall be enclosed by one-half inch (12.70 mm) wire mesh (not less than No. 14 gauge or equivalent) to a height of not less than 6 feet (1.83 m). However, when the cage or skip is being used as a work platform, its sides may be reduced in height to 42 inches (1.07 m) when the conveyance is not in motion.

(iv) All personnel cages shall be provided with a positive locking door that does not open outward.

(v) All personnel cages shall be provided with a protective canopy. The canopy shall be made of steel plate, at least 3/16-inch (4.763 mm) in thickness, or material of equivalent strength and impact resistance. The canopy shall be sloped to the outside, and so designed that a section may be readily pushed upward to afford emergency egress. The canopy shall cover the top in such a manner as to protect those inside from objects falling in the shaft.

(vi) Personnel platforms operating on guide rails or guide ropes shall be equipped with broken-rope safety devices, safety catches or arrestment devices that will stop and hold 150 percent of the weight of the personnel platform and its maximum rated load.

(vii) During sinking operations in shafts where guides and safeties are not yet used, the travel speed of the personnel platform shall not exceed 200 feet (60.96 m) per minute. Governor controls set for 200 feet (60.96 m) per minute shall be installed in the control system and shall be used during personnel hoisting. (viii) The personnel platform may travel over the controlled length of the hoistway at rated speeds up to 600 feet (182.88 m) per minute during sinking operations in shafts where guides and safeties are used.

(ix) The personnel platform may travel at rated speeds greater than 600 feet (182.88 m) per minute in completed shafts.

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### Subpart T—Demolition.

 3. Revise the authority citation for subpart T of 29 CFR part 1926 to read as follows:

Authority: 40 U.S.C. 3701; 29 U.S.C. 653, 655, 657; and Secretary of Labor's Orders 12– 71 (36 FR 8754), 8–76 (41 FR 25059), 9–83 (48 FR 35736), 1–90 (55 FR 9033), 6–96 (62 FR 111), 5–2007 (72 FR 31159), or 1–2012 (77 FR 3912), as applicable.

■ 4. Amend § 1926.856 by revising paragraph (c) to read as follows:

# § 1926.856 Removal of walls, floors, and material with equipment.

(c) Cranes, derricks, and other mechanical equipment used must meet the requirements specified in subparts N, O, and CC of this part.

■ 5. Amend § 1926.858 by revising paragraph (b) to read as follows:

### § 1926.858 Removal of steel construction.

(b) Cranes, derricks, and other hoisting equipment used must meet the requirements specified in subparts N and CC of this part.

#### Subpart DD—[Removed]

■ 6. Remove subpart DD.

[FR Doc. 2012-20171 Filed 8-16-12; 8:45 am] BILLING CODE 4510-26-P