

CESO-E

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Change 7

Manual
No. 385-1-1

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Safety and Occupational Health
SAFETY AND HEALTH REQUIREMENTS MANUAL
2008 EDITION

1. These changes shall be in effect as of 20 July 2012. For contractual work, all contracts whose date of solicitation is 27 July 2012 or later shall consider this change in effect. All underlined wording is specific to this change.
2. These changes/updates are required to: update USACE requirements to parallel recently published ASME standards, and to streamline, improve and clarify requirements for rigging and cranes and hoists as identified below found in Sections 15 and 16 and definitions in Appendix Q.
3. This Change affects the following paragraphs:
 - a. Paragraph 15.E.01: Add wording;
 - b. Paragraph 15.H.01.a: Change wording;
 - c. Paragraph 15.H.08.b: Add wording;
 - d. Paragraph 15.H.08.d: Change wording, Delete sub-paragraphs;
 - e. Paragraphs 16.B.01.b and c: Change wording;
 - f. Paragraph 16.B.05. NOTE: Delete and replace with new note;
 - g. Paragraphs 16.C.01.a, b and c: Change wording;
 - h. Tables 16-3 and Table 11-2: Correct metric conversions;
 - i. Paragraph 16.H.02.a, NOTE: Delete;
 - j. Paragraph 16.U.06: Correct reference.
4. Make corrections/changes to the following paragraphs. All underlined wording is specific to this change.
 - a. Paragraph 15.E.01, add wording: "15.E.01 Only alloy chain, Grade 80 or higher, shall be used in rigging."

b. Paragraph 15.H.01.a, change wording: “ a. Hooks that show wear exceeding 10% or an increase in the throat opening of 5% [maximum of ¼ in (6mm)], or as recommended by the manufacturer, or any visibly apparent bend or twist from the plane of the hook shall be removed from service.”

c. Paragraph 15.H.08.b, add wording: “b. At least three full wraps (not layers) of rope shall remain on the drum at all times. Overhead and gantry cranes shall have at least two full wraps of wire rope on the drums at all times.”

d. Paragraph 15.H.08.d: delete sub-paragraphs and change wording to: “The flanges shall project beyond the top layer of rope per the manufacturer’s recommendations (but never less than ½ in (13 mm).”

e. Paragraphs 16.B.01.b and c, change to read:

“b. Maintenance personnel where operation is limited only to those functions necessary to perform maintenance on or verify performance of a crane or hoist;

c. Inspectors where operation is limited only to functions necessary to accomplish inspection.”

f. Paragraph 16.B.05, NOTE: delete and replace with:

➤ “Note: USACE Operators of Class II Hoisting Equipment are exempt from 16.B.05, Physical Examination requirements UNLESS this equipment is used to hoist/lift personnel. See also 16.A.01.i, 16.C and Section 16.U.”

g. Paragraph 16.C.01.a, b and c: Change wording to read:

“a. Class I crane/hoist types:

- fixed cab telescopic hydraulic mobile cranes;
- swing cab telescopic hydraulic mobile cranes;
- lattice boom, truck or crawler cranes;
- Cab- or remote-operated overhead, bridge, gantry and under hung monorail cranes;

➤ EXEMPTION: Operators of ANY continually guided loads (for example, gates that remain in a slot) are considered Class II operators.

- Hammerhead cranes;
- Portal cranes;
- Tower cranes;

- Derricks post or stiff leg type;

- Floating or barge mounted cranes and derricks, temporarily or permanently mounted.

(1) Class I operators are qualified to operate, perform preventive maintenance and inspection of this equipment as required;

(2) Training must be:

(a) Initial: A minimum of 24-hour training with successful completion (passed) written and practical/operational examinations;

(b) Annual: A minimum of 8-hour refresher training, with successful completion (passed) of written and practical/operational examination.

b. Class II crane/hoist types:

- All hard-wired, pendant-mounted operated overhead, bridge, gantry and under hung monorail cranes;

- Pedestal;

- Wall-mounted jib cranes, and

- All other hoisting equipment used for lifting and lowering loads.

(1) Class II crane operators are qualified to operate, perform preventive maintenance and inspection of this equipment as required.

(2) Class II training, must be:

(a) Initial: A minimum of 2-hour training with successful completion (passed) of written and practical/operational examinations;

(b) Annual: A minimum of 1-hour refresher training with successful completion (passed) of written and practical/operational examination.

➤ *Note 1: Refer to Paragraph 16.A.01.h, for exemption of equipment with a maximum manufacturer-rated hoisting/lifting capacity of 2,000 pounds or less (exempt from the requirements in 16.B.02 through 16.B.06 only). It is anticipated that operator of this equipment will review manufacturer's instructions for proper operation however. This equipment shall not be used for hoisting personnel.*

➤ *Note 2: Operators of Class II Hoisting Equipment are exempt from 16.B.05, Physical Examination requirements UNLESS this equipment is used to hoist/lift personnel. See also 16.A.01.i, 16.B.05 and Section 16.U."*

h. Tables 16-3 and 11-2, correct metric conversions:

TABLE 16-3

MINIMUM CLEARANCE DISTANCES WHILE TRAVELING WITH NO LOAD

Voltage (nominal, kV, alternating current)	While traveling - minimum clearance distance
Up to 0.75	4 ft (<u>1.2 m</u>)
.76 – 50	6 ft (<u>1.8 m</u>)
51 – 345	10 ft (<u>3.0 m</u>)
326 – 750	16 ft (<u>4.9 m</u>)
751 – 1000	20 ft (<u>6.1 m</u>)
Over 1,000	(As established by the utility owner/operator or registered professional engineer who is a qualified person with respect to electrical power transmission and distribution).

TABLE 11-2

MINIMUM CLEARANCE DISTANCES WHILE TRAVELING WITH NO LOAD

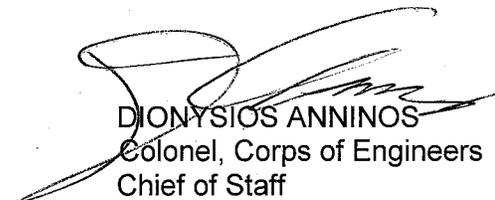
Voltage (nominal, kV, alternating current)	While traveling - minimum clearance distance
Up to 0.75	4 ft (<u>1.2 m</u>)
.76 – 50	6 ft (<u>1.8 m</u>)
51 – 345	10 ft (<u>3.0 m</u>)
326 – 750	16 ft (<u>4.9 m</u>)
751 – 1000	20 ft (<u>6.1 m</u>)
Over 1,000	(As established by the utility owner/operator or registered professional engineer who is a qualified person with respect to electrical power transmission and distribution).

i. Paragraph 16.H.02.a NOTE: Delete note.

j. Paragraph 16.U.06, correct reference from 16.B.06 to 16.B.05; "The operator shall meet the physical qualifications as detailed in 16.B.05."

5. File this change sheet in front of the publication for reference purposes.

FOR THE COMMANDER:



DIONYSIOS ANNINOS
Colonel, Corps of Engineers
Chief of Staff