



Let's Talk About Safety



Bechtel Telecommunications

September 6, 2004

Telecoms Crane Operator Certification and Qualification

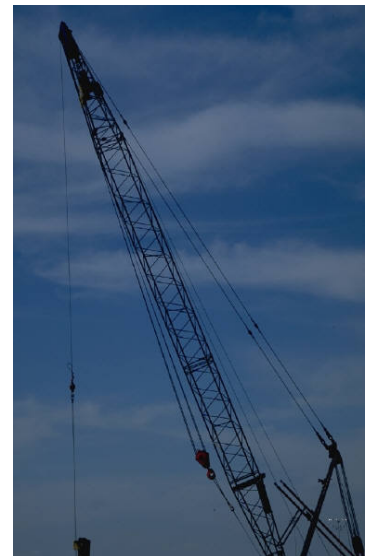
In accordance with OSHA, any person operating a crane must be qualified as specified in ASME B30.5. To assure compliance to OSHA/ASME for all crane operations under Bechtel's direction, the operator's employer must have the following items on-file:

NCCCO certified operators:

- 1) Valid NCCCO card

Non-NCCCO certified operators:

- 1) *Certificate from a training organization stating satisfactory completion of a crane operator-training program.
- 2) *Statement from the training organization stating that their crane operator training program meets the qualification requirements of the 2000 revision of ASME B30.5 section 5-3.1.2, paragraphs (b)(2) through (b)(6)
- 3) *Valid crane operator medical certificate per paragraph (b)(1)



These items must also be submitted with rigging plans where Critical Lifts are involved. Crane operators whose employers cannot demonstrate that they are qualified are in violation of OSHA regulations and may be subject to OSHA citation or worse criminal or civil penalties should there be an accident.

***Note:** This information must be submitted for review by the Bechtel Equipment Operations (BEO) Rigging Department for approval.

Regulatory Requirements

All crane operations in the U.S. must be performed in accordance with federal/state OSHA regulations, specifically 29 CFR Part 1926.550 "Cranes and Derricks. OSHA requires all crane operators to be qualified to operate their crane. OSHA 1926.550 incorporates, by reference, the national standard entitled ASME B30.5 "Mobile Cranes", 2000 Rev. Note that OSHA and ASME B30.5 consider boom trucks to be a crane. ASME B30.5, section 5-3.1.2 defines six necessary elements for crane operator qualification. These elements include:

- 1) A physical examination every 3 years. (Paragraph 5-3.1.2 (b)(1))
- 2) Completion of a written crane operation exam. (Paragraph 5-3.1.2 (b)(2))
- 3) Demonstration of the ability to read and use a crane load chart. (Paragraph 5-3.1.2 (b)(3))
- 4) Completion of a written and verbal load chart exam. (Paragraph 5-3.1.2 (b)(4))
- 5) Completion of a practical operational skill test. (Paragraph 5-3.1.2 (b)(5))
- 6) Demonstration of an understanding of crane related laws and standards. (Paragraph 5-3.1.2 (b)(6))



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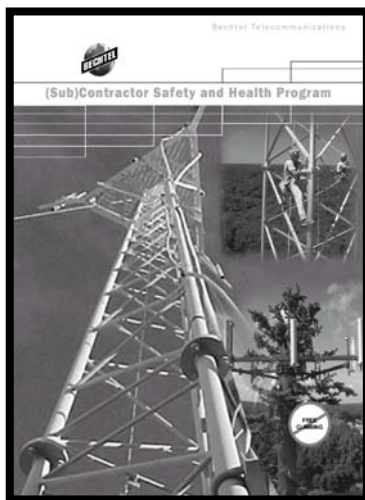
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In order to assure adherence to B30.5 (and thus OSHA) operator qualification requirements, **Bechtel SWPP 1906 requires all crane operators to hold valid NCCCO operator certificates.** NCCCO certified operators automatically meet the six B30.5 qualification requirements summarized above. NCCCO is a national (voluntary) certification program that was established in part by the International Union of Operating Engineers and has been endorsed by federal OSHA.

Other training or certification programs available through commercial training organizations may also meet the minimum ASME B30.5 crane operator requirements. Unfortunately, there is little consistency or uniformity. A crane operator must be qualified. Without an NCCCO card, confirmation of operator qualification is haphazard. A statement like "I've been operating cranes for 15 years" does not meet any of the six qualification elements and certainly does not constitute qualification in the eyes of OSHA.

Remember!

In the absence of a valid NCCCO certification, any training program that can certify, in writing, that it meets the requirements of the 2000 revision of ASME B30.5 sections 5-3.1.2 paragraphs (b)(2) though (b)(6) may be acceptable with approval of Bechtel Equipment Operations (BEO) Rigging Department as required by SWPP 4MP-T81-09106 section 5.1.1. The medical certification required in paragraph (b)(1) of ASME B30.5 sections 5-3.1.2 may be submitted individually by each operator.



Refer to section 5.6 ("Cranes and Rigging Operations") of the (Sub) Contractor Safety and Health Program for more information and details on these requirements.

**Thanks to Terry Wells, T&I Area Safety Supervisor, for submitting this safety bulletin.*

ES&H COMMUNICATION MEETING

Project _____ Market/City/Site _____

Topic: _____

Contractor/Subcontractor _____

Conducted by: _____

Date: _____

Please sign in below:

Employee

ID #

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Comments/Suggestions

Supervisor's signature _____

Retain Completed Attendance Form in Market Office files