

Overhead Hoists Load Test Requirements
as per
American National Standard ASME B30.16-2007

Section “16.2.2.2 Load Test”, states:

(a) Hand Chain-Operated Hoists

(1) New hoists **shall***be load tested by the manufacturer as specified in paragraph (16-2.2.1(a)(1)) with a test load of not less than 125% of the rated load, except that if load testing of the hoist cannot be performed by the manufacturer, the user **shall** be notified and the load test **shall** be accomplished at another location or job site, by or under the direction of a designated person** prior to the hoist being placed in service.

(2) Hoists in which load-suspension parts have been altered, replaced, or repaired **should*****be statically or dynamically load tested as determined by a qualified person****. If a qualified person determines that a load test is required, the load test **shall** be performed.

(a) If a load test is conducted, the load test **shall** be conducted by or under the direction of a designated person as specified below. Lifting and lowering functions **shall** be tested. Testing through the complete rated lift length is not required.

(b) If a load test is conducted, the test load **shall** not be less than 100% of the rated load of the hoist or more than 125% of the rated load of the hoist unless otherwise recommended by the hoist manufacturer or a qualified person.

(c) If a load test is conducted, the person conducting the load test **shall** prepare a written report of the load sustained during the test and the operations performed during the test. Reports **shall** be placed on file.

(d) The replacement of load chain is specifically excluded from this load test, however, an operational test of the hoist **should** be made in accordance with paragraph (16-2.2.1(a)(2)) prior to putting the hoist back in service.

(b) Electric-Powered or Air-Powered Hoists

(1) Complete new hoists **shall** be dynamically load tested by the manufacturer as specified in paragraph (16-2.2.1(b)(1) and (2)) with a test load of not less than 125% of the rated load, except that if load testing of the hoist cannot be performed by the manufacturer, the user **shall** be notified and the load test **shall** be accomplished at another location or job site, by or under the direction of a designated person prior to the hoist being placed in service.

- (2) Hoists in which load-suspension parts have been altered, replaced or repaired **should** be statically or dynamically load tested as determined by a qualified person.
- (a) If a load test is conducted, the load test **shall** be conducted by or under the direction of a designated person as specified below.
- (1) Lifting and lowering functions **shall** be tested. Testing through complete rated lift length is not required.
- 2) Operation of brake(s) **shall** be tested.
- (b) If a load test is conducted, the test load **shall** not be less than 100% of the rated load of the hoist or more than 125% of the rated load of the hoist unless otherwise recommended by the hoist manufacturer or a qualified person.
- (c) If a load test is conducted, the person conducting the load test **shall** prepare a written report of the load sustained during the test and the operations performed during the test. Reports **shall** be placed on file.
- (d) The replacement of load chain or rope is specifically excluded from this load test, however, an operational test of the hoist **should** be made in accordance with paragraph [\(16-2.2.1\(b\)\(1\) and \(2\)\)](#) prior to putting the hoist back in service.
- (c) Test anchorages or suspensions **shall** be approved by a qualified person.
- (*) (**) (***) (****) See CraneBuzz [“Terminology” page](#), for definition of these references