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

Section “16.2.2.1 Operational Tests” states:

New hoists shall be tested by the hoist manufacturer to verify compliance with this volume as specified in paragraph (16-2.2.1(a) or 16-2.2.1(b)), as detailed below. Altered or repaired hoists, or hoists that have not been used within the preceding 12 months, shall be tested by a designated person** prior to the hoist being placed in service to verify compliance with this volume as specified in paragraph (16-2.2.1(a) or 16-2.2.1(b)), as detailed below.

(a) Hand Chain-Operated Hoists

(1) Lifting and lowering functions shall be tested under no-load conditions. Testing through the complete rated lift length is not required.

(2) After testing under no load conditions, a load of at least 50lb. (23 kg) times the number of load supporting parts of chain shall be applied to the hoist, and the hoist shall be checked for proper load control.

(b) Electric-Powered or Air-Powered Hoists

(1) Lifting and lowering functions shall be tested under no-load conditions. Testing through the complete rated lift length is not required.

(2) Operation of brake(s) shall be tested under no load conditions.

(3) Trip-setting device shall be determined by test under no-load conditions. Tests shall be conducted first by hand, if practical, and then under the slowest speed available. Test with increasing speeds up to maximum speed. Actuating mechanisms shall be located so they will trip the switches or limiting devices in sufficient time to stop motion without damage to any part of the hoisting arrangement. On hoists having adjustable trip-setting limit devices, care shall be exercised to achieve adjustment setting without the load block striking the hoist frame or without all of the slack being taken out of the unloaded chain or less than one wrap of rope on the drum.

(*) (** See CraneBuzz “Terminology” page for definition of these references