

Sec. 29-223-19a. General lifting requirements

(a) Handling the load.

(1) No hoisting equipment shall be loaded beyond the specifications of the load-rating chart, except for test purposes as specified by the manufacturer.

(2) The load to be lifted shall be within the rated capacity of the hoisting equipment in its existing configuration.

(b) Loads of unknown size.

When a load whose size is not accurately known is to be lifted, the person responsible for the job lift shall ascertain that the weight of the load does not exceed the ratings at the radius at which the load is to be lifted. For the purposes of this subsection, the size of the load may be determined by contacting the manufacturer, by weighing the load, by considering known unit weights and by using such other engineering techniques as are applicable given the circumstances. For each such lifting assignment, the following requirements shall be met:

(1) A specific person shall be appointed to direct each lift;

(2) A qualified person shall ascertain that the rope or other rigging hardware is in satisfactory condition both before and after lifting;

(3) Operations shall be conducted in such a manner and at such speeds as to minimize dynamic effects;

(4) Each lift shall be recorded in the hoisting inspection record and prior uses shall be considered before permitting another such lift; and

(5) Duty cycle or repetitive lifts shall not be made with operating design factors less than five.

(c) Attaching the load.

The operator is responsible for ensuring that the load is attached and secured properly.

(d) Holding the load.

(1) The operator shall not leave the controls while the load is suspended.

(2) The operator shall not permit any person to stand or pass under a suspended load.

(e) Moving the load.

The person directing the lift shall ensure the following:

(1) The hoisting equipment is stable and, where necessary, blocked;

(2) The load is well secured and balanced in the sling or lifting device before it is lifted more than a few inches;

(3) The lift and swing path is clear of obstructions;

(4) All persons are clear of the swing radius of the hoisting equipment's counterweight, if equipped;

(5) The effect of ambient wind on the load and hoisting equipment is considered;

(6) During lifting operations, care shall be taken that there is no sudden acceleration or deceleration of the moving load, and that the load, boom or other parts of the machine do not contact any obstruction; and

(7) Loads are not carried over people.

(f) Multiple hoisting equipment lifts.

Before performing a lift in which more than one piece of hoisting equipment is to be used to support the load, the following requirements shall be met before the lift may proceed:

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- (1) The lift shall follow a written plan developed by a qualified person;
- (2) Where the qualified person determines that engineering services are needed, such services shall be provided;
- (3) The lift shall be supervised by a person who meets the criteria for a competent and qualified person, or by a competent person assisted by one or more qualified persons; and
- (4) The plan shall be reviewed with all workers involved with lift operations.

(Adopted effective February 2, 2010)