



6 APPENDIX – A – DEFINITIONS OF ELECTRIC CHAIN HOIST TERMS

below-the-hook lifting devices – Devices that are not normally reeved onto the hoist chain, such as hook-on buckets, magnets, grabs, and other supplemental devices used for ease of handling certain types of loads. The weight of these devices is to be considered part of the load to be lifted.

block loads – An action that facilitates the removal of slings or other lifting devices from under the load, accomplished by bringing the load to rest on wood, metal, or other spacers between the floor and load.

brake – A device, other than a motor, used for retarding or stopping motion by friction or power means.

brake, holding – A friction brake for a hoist that is automatically applied and prevents motion when power to the brake is de-energized.

chain, hand – The chain grasped by a person to apply force required for the lifting or lowering motion.

chain, welded link – A chain consisting of a series of interwoven links formed and welded.

designated person – A person selected or assigned by the employer or the employer's representative as being competent to perform specific duties.

hand chain wheel – See **wheel, hand chain**.

hoist – A machinery unit that is used for lifting or lowering a freely suspended (unguided) load.

lifting devices – Devices that are not normally reeved onto the hoist chain, such as hook-on buckets, magnets, grabs, and other supplemental devices used for ease of handling certain types of loads. The weight of these devices is to be considered part of the load to be lifted.

limit device – A device that is operated by some part or motion of power driven hoist to limit motion.

limit device, primary upper – See **primary upper- limit device**.

load – The total superimposed weight on the load block or hook.

load, rated – The maximum load for which a hoist is designated by the manufacturer or a qualified person.

load block – The assembly of hook or shackle, swivel, bearing, sheaves, sprockets, pins, and frame suspended by the hoisting load chain. This shall include any appurtenances reeved in the hoisting load chain.

load chain – See **chain, load**.

load suspension parts – The load suspension parts of the hoist are the means of suspension (hook or lug), the structure or housing which supports the load sprocket, the load sprocket, the load chain, the sprockets, and the load block or hook.

normal operating conditions – Conditions during which a hoist is performing functions within the scope of the original design.



overload – Any load greater than the rated load.

parts (lines or falls) – Number of lines chain supporting the load block or hook.

pendant station – Controls suspended from the hoist for operating the unit from the floor.

primary upper-limit device – The primary upper-limit device is the first limit device that will be activated to control the upper limit of travel of the load block when a hoist is equipped with more than one upper-limit device.

qualified person – A person who, by possession of a recognized degree in an applicable field or a certificate of professional standing, or who by extensive knowledge, training, and experience, has successfully demonstrated the ability to solve or resolve problems relating to the subject matter and work.

rated load – See **load, rated**.

reeving – A system in which chain travels around sprockets.

side pull – The component of the hoist pull acting horizontally when the hoist lines are not operated vertically.

slack fall stop – A device used to prevent the slack end of load chain from inadvertently being lowered out of the load sprocket.

sprocket, load – A hoist component that transmits motion to the load chain. This component is sometimes called **load wheel, load sheave, pocket wheel, or chain wheel**.

switch – A device for making, breaking, or changing the connections in an electric or pneumatic circuit (valve).

trolley – A machine unit that travels on a monorail track or crane bridge girder.

trolley hoist – A hoist and trolley unit consisting of a hoist suspended from or mounted to a trolley, or a hoist with an integral trolley.

welded link chain – See **chain, welded link**.

wheel, hand chain – A wheel with formed pockets on its periphery to allow torque to be transmitted when a force is applied to the hand chain.