

## 29 C.F.R. § 1926.1413

## Wire rope—inspection.

- (a) Shift inspection. (1) A competent person must begin a visual inspection prior to each shift the equipment is used, which must be completed before or during that shift. The inspection must consist of observation of wire ropes (running and standing) that are likely to be in use during the shift for apparent deficiencies, including those listed in paragraph (a)(2) of this section. Untwisting (opening) of wire rope or booming down is not required as part of this inspection.
- (2) *Apparent deficiencies*—(i) *Category I.* Apparent deficiencies in this category include the following:
- (A) Significant distortion of the wire rope structure such as kinking, crushing, unstranding, birdcaging, signs of core failure or steel core protrusion between the outer strands.
- (B) Significant corrosion.
- (C) Electric arc damage (from a source other than power lines) or heat damage.
- (D) Improperly applied end connections.
- (E) Significantly corroded, cracked, bent, or worn end connections (such as from severe service).
- (ii) Category II. Apparent deficiencies in this category are:
- (A) Visible broken wires, as follows:
- (1) In running wire ropes: Six randomly distributed broken wires in one rope lay or three broken wires in one strand in one rope lay, where a rope lay is the length along the rope in which one strand makes a complete revolution around the rope.
- (2) In rotation resistant ropes: Two randomly distributed broken wires in six rope diameters or four randomly distributed broken wires in 30 rope diameters.
- (3) In pendants or standing wire ropes: More than two broken wires in one rope lay located in rope beyond end connections and/or more than one broken wire in a rope lay located at an end connection.

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