§ 57.19026 Drum end attachment.  
(a) For drum end attachment, wire rope shall be attached—
(1) Securely by clips after making one full turn around the drum spoke;
(2) Securely by clips after making one full turn around the shaft, if the drum is fixed to the shaft; or
(3) By properly assembled anchor bolts, clamps, or wedges, provided that the attachment is a design feature of the hoist drum. Design feature means either the manufacturer’s original design or a design approved by a registered professional engineer.
(b) A minimum of three full turns of wire rope shall be on the drum when the rope is extended to its maximum working length.

§ 57.19027 End attachment retermination.  
Damaged or deteriorated wire rope shall be removed by cutoff and the rope reterminated where there is—
(a) More than one broken wire at an attachment;
(b) Improper installation of an attachment;
(c) Slippage at an attachment; or
(d) Evidence of deterioration from corrosion at an attachment.

§ 57.19028 End attachment replacement.  
Wire rope attachments shall be replaced when cracked, deformed, or excessively worn.

§ 57.19030 Safety device attachments.  
Safety device attachments to hoist ropes shall be selected, installed, and maintained according to manufacturers’ specifications to minimize internal corrosion and weakening of the hoist rope.

§ 57.19035 Headframe design.  
All headframes shall be constructed with suitable design considerations to allow for all dead loads, live loads, and wind loads.

§ 57.19036 Headframe height.  
Headframes shall be high enough to provide clearance for overtravel and safe stopping of the conveyance.

§ 57.19037 Fleet angles.  
Fleet angles on hoists installed after November 15, 1979, shall not be greater than one and one-half degrees for smooth drums or two degrees for grooved drums.

§ 57.19038 Platforms around elevated head sheaves.  
Platforms with toeboards and handrails shall be provided around elevated head sheaves.

CONVEYANCES

§ 57.19045 Metal bonnets.  
Man cages and skips used for hoisting or lowering employees or other persons in any vertical shaft or any incline shaft with an angle of inclination of forty-five degrees from the horizontal, shall be covered with a metal bonnet.

§ 57.19049 Hoisting persons in buckets.  
Buckets shall not be used to hoist persons except during shaft sinking operations, inspection, maintenance, and repairs.

§ 57.19050 Bucket requirements.  
Buckets used to hoist persons during vertical shaft sinking operations shall—
(a) Be securely attached to a crosshead when traveling in either direction between the lower and upper crosshead parking locations;
(b) Have overhead protection when the shaft depth exceeds 50 feet;
(c) Have sufficient depth or a suitably designed platform to transport persons safely in a standing position; and
(d) Have devices to prevent accidental dumping where the bucket is supported by a bail attached to its lower half.

§ 57.19054 Rope guides.  
Where rope guides are used in shafts other than in shaft sinking operations,