§ 230.106

TRUCKS, FRAMES AND EQUALIZING SYSTEM

§230.106 Steam locomotive frame.

- (a) Maintenance and inspection. Frames, decks, plates, tailpieces, pedestals, and braces shall be maintained in a safe and suitable condition for service, and shall be cleaned and thoroughly inspected as often as necessary to maintain in a safe and suitable condition for service with cleaning intervals, in any case, not to exceed every 1472 service days.
- (b) Broken frames. Broken frames properly patched or secured by clamps or other suitable means which restores the rigidity of the frame are permitted.

§ 230.107 Tender frame and body.

- (a) Maintenance. Tender frames shall be maintained in a safe and suitable condition for service.
- (b) Height difference. The difference in height between the deck on the tender and the cab floor or deck on the steam locomotive shall not exceed 1½ inches.
- (c) Gangway minimum width. The minimum width of the gangway between steam locomotive and tender, while standing on tangent track, shall be 16 inches.
- (d) Tender frame condemning defects. A tender frame with any of the following defects shall be removed from service immediately and repaired:
- (1) Portions of the tender frame or body (except wheels) that have less than a 2½ inches clearance from the top of rail;
- (2) Tender center sill that is broken, cracked more than 6 inches, or permanently bent or buckled more than 2½ inches in any six foot length;
- (3) Tender coupler carrier that is broken or missing:
- (4) Tender center plate, any portion of which is missing or broken or that is not properly secured: or
- (5) Tender that has a broken side sill, crossbearer, or body bolster.

§ 230.108 Steam locomotive leading and trailing trucks.

(a) Maintenance. Trucks shall be maintained in safe and suitable condition for service. Center plates shall fit properly, and the male center plate shall extend into the female center

plate not less than ¾ inch. All centering devices shall be properly maintained and shall not permit lost motion in excess of ½ inch.

- (b) Safety chain required. A suitable safety chain shall be provided at each front corner of all four wheel engine trucks.
- (c) Clearance required. All parts of trucks shall have sufficient clearance to prevent them from interfering with any other part of the steam locomotive.

§ 230.109 Tender trucks.

- (a) Tender truck frames. A tender truck frame shall not be broken, or have a crack in a stress area that affects its structural integrity. Tender truck center plates shall be securely fastened, maintained in a safe and suitable condition for service, and provided with a center pin properly secured. The male center plate must extend into the female center plate at least ¾ inch. Shims may be used between truck center plates.
- (b) Tender truck bolsters. Truck bolsters shall be maintained approximately level.
- (c) Condemning defects for springs or spring rigging. Springs or spring rigging with any of the following defects shall be taken out of service immediately and renewed or properly repaired:
- (1) An elliptical spring with its top (long) leaf or any other five leaves in the entire spring pack broken;
- (2) A broken coil spring or saddle;
- (3) A coil spring that is fully compressed;
- (4) A broken or cracked equalizer, hanger, bolt, gib or pin;
- (5) A broken coil spring saddle; and
- (6) A semi-elliptical spring with a top (long) leaf broken or two leaves in the top half broken, or any three leaves in the entire spring broken.
- (d) Tender securing arrangement. Where equipped, tender devices and/or securing arrangements intended to prevent the truck and tender body from separating in case of derailment shall be maintained in a safe and suitable condition for service.
- (e) Side bearings and truck centering devices. Where equipped, side bearings and truck centering devices shall be