U.S. Department of Transportation Federal Railroad Administration  Inspector(s):  Inspection Location:		Sample Car Inspection Checklist for: Passenger-train cars without end platforms - §231.14		OMB No. 2130-XXXX	
		Date:		Region:	
Builder:	Car Initials & Number:	Car Type:	Cars to be Built:	Builder Job #	
Item	Number - Dimensions - Location - Manr (All brackets used solely to support safety appliances are mechan		CFR Reference*	Notes	
Hand Brake	☐ Each passenger-train car shall be equipped with an efficient hand brake, which shall operate in harmony with the power brake thereon. ☐ Each hand brake shall be so located that it can be safely operated while car is in motion. Except for a private cars, all passenger equipment, including MU locomotives, shall be equipped with a hand brake that meets the requirements for hand brakes contained in Part 231 of this chapter and that can: ☐ Be applied or activated by hand. ☐ Be released by hand. ☐ Hold the loaded unit on the maximum grade anticipated by the operating railroad.		231.14(a)(1) 231.14(a)(2) 238.231(h)(2) 238.231(h)(2)(i) 238.231(h)(2)(ii) 238.231(h)(2)(iii)		
Sill Step	<ul> <li>□ Four.</li> <li>□ Minimum length of tread, 10 inches.</li> <li>□ Minimum cross-sectional area, ½ x 1½ inches ¹or equival minimum clear depth, 8 inches ³.</li> <li>□ One near each end on each side not more than 24 inchestread of sill step.</li> <li>□ Outside edge of tread of step shall be not more than two</li> <li>□ Tread shall be not more than 24, inches above the top of steps exceeding 18 inches in depth shall have an addition sill steps shall be securely fastened with not less than ½ possible) and riveted over, or with not less than ½ inch riveted over</li> </ul>	s from corner of car to center of inches inside of face of side of car.  rail.  nal tread and be laterally braced. inch bolts with nuts outside (when	231.14(b)(1) 231.14(b)(2) 231.14(b)(3)(i) 231.14(b)(3)(ii) 231.14(b)(3)(iii) 231.14(b)(4)(i) 231.14(b)(4)(ii)		
Side Handholds	<ul> <li>□ Four.</li> <li>□ Minimum diameter, 5% of an inch, wrought iron or steel 1.</li> <li>□ Minimum clear length, 16 inches.</li> <li>□ Minimum clearance, two inches.</li> <li>□ Horizontal or vertical, one near each end on each side of</li> <li>□ If horizontal, not less than 24 nor more than 30 inches at</li> <li>□ If vertical, lower end not less than 18 nor more than 24 ir</li> <li>□ Side handholds shall be securely fastened with bolts, rive</li> </ul>	pove center line of coupler. Inches above center line of coupler.	231.14(c)(1) 231.14(c)(2) 231.14(c)(3) 231.14(c)(3)(i) 231.14(c)(3)(ii) 231.14(c)(4)		

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Item	Number - Dimensions - Location - Manner of Application (All brackets used solely to support safety appliances are mechanically fastened per MP&E TB 98-14)	CFR Reference*	Notes
End Handholds	<ul> <li>□ Four.</li> <li>□ Minimum diameter, 5% of an inch, wrought iron or steel 1.</li> <li>□ Minimum clear length, 16 inches.</li> <li>□ Minimum clearance, two inches.</li> <li>□ Horizontal, one near each side on each end projecting downward from face of end sill or sheathing.</li> <li>□ Clearance of outer end of handholds shall be not more than 16 inches from side of car.</li> <li>□ Handholds shall be flush with or project not more than 1 inch beyond face of end sill.</li> <li>□ End handholds shall be securely fastened with bolts or rivets.</li> <li>□ When marker sockets or brackets are located so that they can not be conveniently reached from platforms, suitable steps and handholds shall be provided for men to reach such sockets or brackets.</li> </ul>	231.14(d)(1) 231.14(d)(2) 231.14(d)(3) 231.14(d)(4)(i) 231.14(d)(4)(ii) 231.14(d)(4)(iii)	
End Handrails	On cars with projecting end sills:  Four.  Minimum diameter, % of an inch, wrought iron or steel 1.  Minimum clearance, two inches.  One on each side of each end, extending horizontally from doorpost or vestibule frame to a point not more than six inches from corner of car, then approximately vertical to a point not more than six inches from top of platform end sill, horizontal portion shall be not less than 30 nor more than 60 inches above platform end sill.  End handrails shall be securely fastened with bolts, rivets or screws.	231.14(e) 231.14(e)(1) 231.14(e)(2) 231.14(e)(3) 231.14(e)(4)	
Side-door Steps	<ul> <li>□ One under each door.</li> <li>□ Minimum length of tread, 10 inches.</li> <li>□ Minimum cross-sectional area, ½ x 1½ inches or equivalent, wrought iron or steel.</li> <li>□ Minimum clear depth, 8 inches ².</li> <li>□ Outside edge of tread of step not more than two inches inside of face of side of car.</li> <li>□ Tread not more than 24 inches above the top of rail.</li> <li>□ Steps exceeding 18 inches in depth shall have an additional tread and be laterally braced.</li> <li>□ Side-door steps shall be securely fastened with not less than ½ inch bolts with nuts outside (when possible) and riveted over, or with not less than ½ inch rivets.</li> <li>□ A vertical handhold not less than 24 inches in clear length shall be applied above each side-door step on door post.</li> </ul>	231.14(f)(1) 231.14(f)(2) 231.14(f)(3) 231.14(f)(4)(i) 231.14(f)(4)(ii) 231.14(f)(4)(iii)	

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Item	Number - Dimensions - Location - Manner of Application (All brackets used solely to support safety appliances are mechanically fastened per MP&E TB 98-14)	CFR Reference*	Notes
Uncoupling Levers	<ul> <li>☐ Uncoupling attachments shall be applied so they can be operated by a person standing on the ground.</li> <li>☐ Minimum length of ground uncoupling attachment, 42 inches, measured from center line of end of car to handle of attachment.</li> <li>☐ On passenger-train cars used in freight or mixed-train service, the uncoupling attachment shall be so applied that the coupler can be operated from left side of car.</li> </ul>	231.14(g)(1) 231.14(g)(2) 231.14(g)(3)	
Other	<ul> <li>□ Ensure all brake components are located so that an inspection can be safely conducted without an inspector placing himself in a precarious or unsafe position, (TB MP&amp;E 98-32).</li> <li>□ Check for any sharp or protruding objects or areas on the equipment that may create a safety concern or personal injury.</li> <li>□ Check for potential pinch points at all safety appliance arrangements.</li> <li>□ Check to ensure that all brackets used solely to support a safety appliance are mechanically fastened. The use of weld on brackets is prohibited.</li> <li>□ Check to ensure compliance with all applicable federal regulations.</li> <li>□ Verify coupler height 31½ inch minimum, 34½ inch maximum ~ allow up to, but no more than one inch over the maximum height for settling of new truck components.</li> </ul>	231.31(a)(1)	
Digital Photos	<ul> <li>□ General Arrangement Photo Sheet ~ No Deviations Noted (six photos minimum, A &amp; B ends, each corner at 45 degree angle)</li> <li>□ Deviation Photo Sheet ~ Deviations Noted: As many photos as necessary to fully depict, document and illustrate CFR deviations (e.g. 221, 223, 229, 238 &amp; 239)</li> </ul>		

<sup>\*</sup> The CFR reference sections noted throughout the check list refers to the *actual* regulatory requirement.

## Footnotes:

- 1 TB MP&E 98-18 Ladder treads, handholds of circular cross-section, 13/16 inch diameter and sill steps, 5/8 inch thick and 2 inches wide, when constructed of 6061-T6 aluminum alloy exceeds the current Federal Railroad Administration's requirements.
- 2 Equivalent is determined by multiplying the cross sectional area the result of which may not be less than ¾ inch.
- 3 TB MP&E 98-13 Clear depth means a vertical space the width of, and above the sill/side step material or strap and should be clear and unobstructed for 8 inches.

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