3 (Inspection Checklist for: w-side gondola cars- §231.5		OMB No. 2130-0565 Rev. 06/24/2004
Inspector(s	s): Inspection Location:		Date:	Region:
Builder:	Car Initials & Number:	Car Type:	Cars to be Built:	Builder Job #
Item	Number - Dimensions - Location - Manner (All brackets used solely to support safety appliances are mechanically		CFR Reference*	Notes
Hand Brake	Except for box and other house cars that comply with either 23 other house car shall be equipped to meet the following specific One efficient handbrake which shall operate in harmony with the car. Each such handbrake shall provide the same degree of safe plate A. Or provide the same degree of safety as that specified in 23 The brake shaft shall be not less than 1½ inches in diameter without weld. The brake wheel may be flat or dished, not less than 15 inciron, wrought iron, or steel. The handbrake shall be so located that it can be safely ope The brake shaft shall be located on end of car to the left of There shall be not less than four inches clearance around in Outside edge of brake wheel shall be not less than four inches coupler horn against the buffer block or end sill. Brake chain shall be of not less than 3/8, preferably 7/16, inclink on the brake rod end of not less than 7/16 inch wrought Brake wheel shall be held in position on brake shaft by a nu of brake shaft; said threaded portion shall be not less than the diameter; said nut shall be secured by riveting over or by the cotter.	cations: th the power brake installed on ety as the design shown on 31.27. er, of wrought iron or steel thes in diameter, of malleable rated while car is in motion. center. im of brake wheel. thes from a vertical plane of knuckle when closed with the wrought iron or steel, with a tiron or steel. It on a threaded extended end three-fourths of an inch in	231.1(a)(1) 231.1(a)(1)(i) 231.1(a)(1)(ii) 231.1(a)(2)(i) 231.1(a)(2)(ii) 231.5(a)(3)(ii) 231.5(a)(3)(ii) 231.1(a)(4)(ii) 231.1(a)(4)(vi) 231.1(a)(4)(vi) 231.1(a)(4)(xiii)	

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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
Sill Steps	 Four sill steps Minimum cross-sectional area ½ x 1-½² inches, or equivalent ³ wrought iron or steel. Minimum length of tread, ten inches. Minimum clear depth, eight inches. ⁴ One near each end of each side of car, so that there shall be not more than 18 inches from end of car to center of tread of sill step. Outside edge of tread of step shall be not more than four inches inside of face of side of car. Tread shall be not more than 24, inches above the top of rail. Sill steps exceeding 21 inches in depth shall have an additional tread. Sill 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. 	231.1(d)(1) 231.1(d)(2) 231.1(d)(3)(i) 231.1(d)(3)(ii) 231.1(d)(3)(iii) 231.1(d)(4)(i) 231.1(d)(4)(ii)	
Side Handholds	 Number ~ Four. (Tread of side ladder is a side handhold.) Minimum diameter, 5% of an inch, wrought iron or steel.² Minimum clear length, 16 inches Minimum clearance, two inches. Horizontal, one near each end on each side of car. Side handholds shall be not less than 24 nor more than 30 inches above center line of coupler, except as provided above, where tread of ladder is a handhold. Clearance of outer end of handhold shall be not more than eight inches from end of car. Side handholds 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. 	231.1(h)(1) 231.1(h)(2) 231.5(c)(3)(i) 231.1(h)(4)	
End Handholds	 □ Four. □ Minimum diameter, five-eighths of an inch, wrought iron or steel. ² □ Minimum clear length, 16 inches, preferably 24 inches. □ A handhold 14 inches in length may be used where it is impossible to use one 16 inches in length. □ Minimum clearance, two inches. □ Horizontal, one near each side of each end of car on face of end sill. Clearance of outer end of handhold shall be not more than 16 inches from side of car. □ Horizontal end handholds 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. 	231.5(d)(1) 231.1(i)(2)(i) 231.1(i)(2)(ii) 231.1(i)(2)(iii) 231.5(d)(3)(i) 231.1(i)(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
Uncoupling Levers	 □ Two uncoupling levers. □ May be either single or double, and of any efficient design. □ Handles of uncoupling levers, except those shown on Plate B or of similar designs, shall be not more than six inches from side of car. (Plate B is the primary application you will see) □ Uncoupling levers of design shown on plate B and of similar designs shall conform to the following prescribed limits: □ Handles shall be not more than 12 inches from sides of car. Center lift arms shall be not less than 7 inches long. □ Center of eye at end of center lift arm shall be not more than 3½ inches beyond center of eye of uncoupling pin of coupler when horn of coupler is against the buffer block or end sill. (See plate B.) □ End of handles shall extend not less than four inches below bottom of end sill or shall be so constructed as to give a minimum clearance of two inches around handle. Minimum drop of handles shall be 12 inches; maximum, 15 inches overall (see Plate B). □ One on each end of car. When single lever is used, it shall be placed on left side of end of car. 	231.1(k)(1) 231.1(k)(2)(i) 231.1(k)(2)(ii) 231.1(k)(2)(iii) 231.1(k)(2)(iv) 231.1(k)(2)(v) 231.1(k)(3)	
End Ladder Clearance	□ No part of car above end sills within 30 inches from side of car, except buffer block, brake shaft, brake wheel or uncoupling lever shall extend to within 12 inches of a vertical plane parallel with end of car and passing through the inside face of knuckle when closed with coupler horn against the buffer block or end sill, and no other part of end of car or fixtures on same above end sills, other than exceptions noted in this subparagraph shall extend beyond the outer face of buffer block.	231.5(f)(1)	

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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
Other CFR Sections	 Inspect all components to ensure compliance with the regulations. 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&E 98-32). 		
Misc.	 □ Check for any sharp or protruding objects or areas on the equipment that may create a safety concern or personal injury. □ Check for potential pinch points at all safety appliance arrangements. □ Check to ensure that all brackets used solely to support a safety appliance are mechanically fastened. The use of weld on brackets is prohibited. □ Check to ensure compliance with all applicable federal regulations. □ Verify coupler height 31½ inch minimum, 34½ inch maximum. 	231.31(a)(1)	
Digital Photos	 □ General Arrangement Photo Sheet ~ No Deviations Noted (6 photos minimum, A & B ends, each corner at 45 degree angle) □ Deviation Photo Sheet ~ Deviations Noted: As many photos as necessary to fully depict, document and illustrate CFR deviations (e.g. 215, 229, 231 & 232) 		

^{*} The CFR reference sections noted throughout the check list refers to the actual regulatory requirement.

Footnotes:

- 1 TB MP&E 98-53 ... 1/2 inch alloy chain and 1/2 inch steel alloy chain currently being used by new car manufacturers exceed the specifications.
- 2 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.
- 3 Equivalent must meet or exceed the cross sectional area the result of which may not be less than ¾ inch.
- 4 TB MP&E 98-13 Clear depth means a vertical space the width of, and above the sill step material or strap and should be clear and unobstructed for 8 inches
- 5 Variance allowed due to construction of car. Note exception on F6180.4.

IMPORTANT NOTE: **Equipment that is not adequately addressed in Part 231**. For examples: There are no ladder requirements in §§231.29 or 231.30. However, if additional safety appliances are used on *any type of equipment*, (i.e., §231.18 Cars of special construction), they must meet the dimension, location, and a manner of application requirements. This logic holds true regardless of the equipment inspected. When applying §231.6 during a sample-car inspection on an auto rack, you will encounter components not mentioned in that section such as ladders, stenciling, end ladder clearance, etc. These additional components must meet the appropriate requirements. If there is any doubt, consult your regional specialist.

Pubic reporting burden for this information collection is estimated to average 60 minutes per response. This estimate includes the time for reviewing each page of the checklist. According to the paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is 2130-0565.

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