Public reporting burden for this information collection is estimated to average 60 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. According to the Paperwork Reduction Act of 1995, a federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with, a collection of information unless it displays a currently valid OMB control number. The valid OMB control number for this information collection is 2130-0565. All responses to this collection of information are mandatory.

	US Department of Transportation Federal Railroad Administration	·		OMB No. 2130-056 FRA F6180.161 Q	
Inspector	r(s):	Inspection Loca	ation:	Date:	Region:
Builder:	Car Initial ar	nd Number:	Car Type:	No. of cars to be Built:	Builder Job No.
ITEM	Number - Dimensions - Lo	ocation - Manner	of Application	Appendix Referen	ce Notes
Hand Brake	Each car shall have at least one AAR-a with MSRP Section E, Standard S-475 equipment on the car. Total braking f comply with the requirements of MSI less than that developed by 50 psi brace of vertical-wheel hand brakes shall be gradually releasing the hand brake. Tapplication of the brake by turning the	and that operates in ha orce applied to the bral RP Section E, Standard S ake cylinder pressure. T e arranged so that both he hand brake shall be p	rmony with the power brakes shoes by the hand brakes 5-401, but in any event shall he hand brake wheel and chwill revolve when applying a provided with means to prev	e shall be not ain drum and	
	The brake wheel of vertical-wheel ha in., or 22 in. The brake wheel shall be material of equivalent strength.				
	The hubs of 22 in. hand brake wheels and the taper on the brake wheel hul in. total, with the small end of the shato the brake shaft with an American I cotter, or their equivalent.	o and shaft shall be 1 in aft opening 7/8 in. squa	. in 12 in. on each side, or 2 i re. The brake wheel shall be	n. in 12 secured	
	The attachment of hand brake wheel nominal diameter and depth can be a 20 in. nominal diameter shall provide paragraph 2.1.3.	pplied. The attachment	t of brake wheels of 16 in., 1	8 in., or	
Location	The hand brake shall be located so th motion and safely operated from the equipped with one hand brake shall k brakes on cars equipped with more the same of the base standard.	ground while the car is be applied on the left side	stationary. The hand brake deep of the car at the B end. The	on cars ne hand	
	When the tip of the operating lever of closest point of that arc shall be locat than 12 in. inboard of the inside surfactorest point of the arc of travel shall point of the side handhold closest to position, the tip of the lever shall be at than 48 in. above the top of rail when permit 48 in. hand brake height, the trail. On cars built prior to January 1, 2 the top of rail when in the released p	ed in the longitudinal date of the inboard vertice be not more than 16 in 46 in. above the lowest not less than 4 in. above e car construction permitip of the lever shall be 1017, the tip of the lever	irection not less than 4 in. not all leg of the sill step. In addit inboard of the inboard cleat sill step tread. When in the ethe lowest sill step tread not its. Where car construction not more than 56 in. above the step tread not the step tread not the step tread not more than 56 in.	or more tion, the irance released or more does not the top of	



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Sample Car Inspection Checklist for: S-2044 Appendix H-1 Safety Appliances for Enclosed Vehicle-Carrying Cars and Vehicle-Carrying Superstructures to Flat Cars

ITEM	Number - Dimensions - Location - Manner of Application	Appendix Reference	Notes
	The center of the hand brake shaft of vertical-wheel hand brakes shall be located in the longitudinal direction not more than 21 in. from the inside face of the inboard vertical leg of the sill step and shall be not less than 26 in. above the lowest sill step tread nor more than 46 in. above the highest sill step tread. In addition, the center of the hand brake shaft shall be not more than 61 in. above the top of rail.	Appendix H1, 2.2.3	
	Clearance around the grip portion of the hand brake operating lever throughout its full range of travel or the rim of the hand brake wheel shall be not less than 4 in. Clearance between the grip portion of the release lever, if used, throughout its full range of travel and any part of the car shall be not less than 2 1/2 in.	Appendix H1, 2.2.4	
	If the hand brake application is such that the requirements of paragraph 2.2.4 can be met only with hand brakes having short hand brake release levers or only with long release levers, but not both, the car shall be marked adjacent to the hand brake in 1 1/2 in. high letters "SHORT (LONG) RELEASE LEVER BRAKE ONLY."	Appendix H1, 2.2.5	
Manner of Application	The hand brake housing shall be securely fastened. The hand brake mounting bracket may be welded to the car structure. The hand brake application, including bolt hole pattern, shall conform to MSRP Section E, Standard S-475.	Appendix H1, 2.3.1	
	The hand brake chain shall conform to the requirements of S-475, but in any event shall have minimum working load of 5,875 lb and minimum proof test of 11,750 lb.	Appendix H1, 2.3.2	
	Hand brake rods shall be not less than 3/4 in. diameter.	Appendix H1, 2.3.3	
Sill Steps	There shall be four sill steps. The sill steps specified below shall not be obstructed by end doors in the closed or open position.	Appendix H1, 3.1	
Dimensions	Sill steps shall conform to the requirements of Standard S-2042. Minimum usable length of tread shall be 14 in.	Appendix H1, 3.2.1	



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Sample Car Inspection Checklist for: S-2044 Appendix H-1 Safety Appliances for Enclosed Vehicle-Carrying Cars and Vehicle-Carrying Superstructures to Flat Cars

ITEM	Number - Dimensions - Location - Manner of Application	Appendix Reference	Notes
	Sill steps shall be of steel not less than 1/2 in. thick, shall be not less than 4 in. wide, and shall be provided with a slip-resistant surface.	Appendix H1, 3.2.2	
	Sill step treads shall be spaced not more than 21 in. apart.	Appendix H1, 3.2.3	
	The clear depth above the entire usable length of all sill step treads shall be not less than 8 in.	Appendix H1, 3.2.4	
	The minimum clear width of the lowest sill step tread shall taper uniformly from not less than 6 in. at the tread surface to not less than 4 in. at 8 in. above the tread. The clear width so specified shall apply for both loaded and empty conditions with the trucks rotated to simulate the maximum curvature specified for the uncoupled car.	Appendix H1, 3.2.5	
Location	One sill step shall be applied near each end of each side of the car. The sill steps shall be located in the longitudinal direction such that the inside face of the outboard vertical leg of the sill step is not more than 2 in. inboard of the outboard clearance point of any side handhold. The inside face of the inboard vertical leg of the sill step shall be not less than 16 in. from the outboard clearance point of any horizontal side handhold. These requirements do not apply to additional handholds applied in accordance with the requirements of paragraph 4.3.4.	Appendix H1, 3.3.1	
	In the transverse direction, the outside edge of any sill step tread shall be not more than 6 in. inboard or outboard of the inside surface of the lowest adjacent side handhold. In addition, the outside edge of any sill step tread shall be not more than 4 in. inboard of any car structure below the clear length of the lowest adjacent side handhold.	Appendix H1, 3.3.2	
	The lowest tread shall be not more than 24 in. above the top of rail.	Appendix H1, 3.3.3	
Manner of Application	Sill steps shall be securely fastened.	Appendix H1, 3.4	
Side Handholds	There shall be not less than 16 side handholds, not less than 4 over each sill step. The handholds specified below shall not be obstructed by end doors in the closed or open position.	Appendix H1, 4.1	



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Sample Car Inspection Checklist for: S-2044 Appendix H-1 Safety Appliances for Enclosed Vehicle-Carrying Cars and Vehicle-Carrying Superstructures to Flat Cars

Handholds shall be of steel not less than 3/4 in. diameter and shall conform to the requirements of Standard S-224. Except as specified in paragraph 4.3.5, minimum clear length shall be 16 in. Minimum clearance shall be 2 in., preferably 2 1/2 in. The side handholds shall be oriented horizontally near each end on each side of the car. The lowest handhold shall be located not more than 48 in. above the top of rail and not more than 21 in. above the highest sill step tread. The handholds shall be spaced not more than 19 in. apart, with the spacing uniform within a maximum variation of 2 in. The spacing of the highest handhold to the second highest handhold may vary by more than 2 in. from the spacing between other side handholds.	Appendix H1, 4.2 Appendix H1, 4.3.1 Appendix H1, 4.3.2	
The lowest handhold shall be located not more than 48 in. above the top of rail and not more than 21 in. above the highest sill step tread. The handholds shall be spaced not more than 19 in. apart, with the spacing uniform within a maximum variation of 2 in. The spacing of the highest handhold to the second highest handhold may vary by more than 2 in. from the spacing between		
than 21 in. above the highest sill step tread. The handholds shall be spaced not more than 19 in. apart, with the spacing uniform within a maximum variation of 2 in. The spacing of the highest handhold to the second highest handhold may vary by more than 2 in. from the spacing between	Appendix H1, 4.3.2	
The clearance points of the outboard ends of the side handholds shall be in vertical alignment in the longitudinal direction.	Appendix H1, 4.3.3	
The clearance points of the outboard ends of the side handholds shall be located not more than 40 in. from the inside surface of the nearest end handhold. If the outboard clearance point of the lowest side handhold at each corner is more than 12 in. from the inside surface of the nearest end handhold, an additional side handhold conforming to the requirements of paragraph 4.3.5 shall be applied.	Appendix H1, 4.3.4	
If additional handholds are applied to conform to the requirements of paragraph 4.3.4, their outboard clearance points shall be not more than 12 in. from the inside surface of the nearest end handhold, they shall have clear length not less than 10 in., and shall be not less than 22 in. and not more than 45 in. above the top of rail. No part of the additional side handholds may extend beneath the clear length of the other side handholds. The additional handholds may be obstructed when the doors are open, but shall not be obstructed when the doors are closed.	Appendix H1, 4.3.5	
The inside surface of the side handholds adjacent to the hand brake shall be not more than 5 in. in the transverse direction from the inside surface of the hand brake lever grip.	Appendix H1, 4.3.6	
Side handholds shall be securely fastened.	Appendix H1, 4.4	
	If additional handholds are applied to conform to the requirements of paragraph 4.3.4, their outboard clearance points shall be not more than 12 in. from the inside surface of the nearest end handhold, they shall have clear length not less than 10 in., and shall be not less than 22 in. and not more than 45 in. above the top of rail. No part of the additional side handholds may extend beneath the clear length of the other side handholds. The additional handholds may be obstructed when the doors are open, but shall not be obstructed when the doors are closed. The inside surface of the side handholds adjacent to the hand brake shall be not more than 5 in. in the transverse direction from the inside surface of the hand brake lever grip.	If additional handholds are applied to conform to the requirements of paragraph 4.3.4, their outboard clearance points shall be not more than 12 in. from the inside surface of the nearest end handhold, they shall have clear length not less than 10 in., and shall be not less than 22 in. and not more than 45 in. above the top of rail. No part of the additional side handholds may extend beneath the clear length of the other side handholds. The additional handholds may be obstructed when the doors are open, but shall not be obstructed when the doors are closed. The inside surface of the side handholds adjacent to the hand brake shall be not more than 5 in. in the transverse direction from the inside surface of the hand brake lever grip.



Sample Car Inspection Checklist for: S-2044 Appendix H-1 Safety Appliances for Enclosed Vehicle-Carrying Cars and Vehicle-Carrying Superstructures to Flat Cars

ITEM	Number - Dimensions - Location - Manner of Application	Appendix Reference	Notes
End Handholds	There shall be four end handholds.	Appendix H1, 5.1	
Dimensions	Handholds shall be of steel not less than 3/4 in. diameter and shall conform to the requirements of Standard S-224. Minimum clear length shall be 16 in. Minimum clearance shall be 2 in., preferably 2 1/2 in.	Appendix H1, 5.2	
Location	The end handholds shall be oriented horizontally, one near each side of each end of the car on the end sill.	Appendix H1, 5.3.1	
	The clearance points of the outboard end of the end handholds shall be not more than 18 in. from the inside surface of the nearest side handhold at its outboard end and in addition shall be not more than 16 in. from the car structure adjacent to the side handhold.	Appendix H1, 5.3.2	
	The end handholds shall be not more than 45 in. above the top of rail.	Appendix H1, 5.3.3	
Manner of Application	End handholds shall be securely fastened.	Appendix H1, 5.4	



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Sample Car Inspection Checklist for: S-2044 Appendix H-1 Safety Appliances for Enclosed Vehicle-Carrying Cars and Vehicle-Carrying Superstructures to Flat Cars

ITEM	Number - Dimensions - Location - Manner of Application	Appendix Reference	Notes
Jncoupling Devices	Uncoupling devices and their application shall conform to MSRP Section S, Part III, Standard S-129, S-131, S-133, or S-134; or Specification M-961.	S-2044 6.1 (Base Standard)	
	One uncoupling device shall be applied at the left side of the B end of the car (BL corner) and one at the right side of the A end of the car (AR corner).	S-2044 6.2	
	Under all operating conditions, the outside surface of the uncoupling device handles shall be not more than 12 in. closer to the car center than the inside surface of the adjacent side handholds.	S-2044 6.3	
	There shall be not less than 2 in. clearance, preferably 2 ½ in., around the uncoupling device handles for a length not less than the lowest 4 in. of straight handles and not less than 4 in. in the grip portion of handles having clearly defined grip portions. The lower ends of the handles shall be not less than 12 in. nor more than 15 in. below the top surface of the uncoupling device at the device support and not less than 15 in. above the top of rail.	S-2044 6.4	
	Uncoupling device mounting brackets shall be securely fastened to the car with fasteners not less than 5/8 in. diameter.	S-2044 6.5	
tenciling	Car initial, numbers and built date stenciled on the car.	49 CFR Part 215.301	
eflectorization.	Reflectorization must meet all requirements. Attached Drawing	49 CFR Part 224	
oupler Height	Verify coupler height 31½ inch minimum, 34½ inch maximum.	49 CFR Part 231.31(a)(1)	
Power Brakes	Except for cars equipped with nominal 12-inch stroke (8 ½ and 10-inch diameters) brake cylinders, all cars shall have a legible decal, stencil, or sticker affixed to the car or shall be equipped with a badge plate displaying the permissible brake cylinder piston travel range for the car at Class I brake tests and the length at which the piston travel renders the brake ineffective, if different from Class I brake test limits. The decal, stencil, sticker, or badge plate shall be located so that it may be easily read and understood by a person positioned safely beside the car.	49 CFR Part 232. 103	

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ITEM	Number - Dimensions - Location - Manner of Application	Appendix Reference	Notes
	All equipment ordered on or after August 1, 2002, or placed in service for the first time on or after April 1, 2004, shall have train brake systems designed so that an inspector can observe from a safe position either the piston travel, an accurate indicator which shows piston travel, or any other means by which the brake system is actuated. The design shall not require the inspector to place himself or herself on, under, or between components of the equipment to observe brake actuation or release.		
SCT	A single car air brake test shall be performed on each new car prior to placing or using the car in revenue service.	49 CFR Part 232.305	

Miscellaneous 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.

Digital Photos General Arrangement Photo Sheet ~ No Deviations Noted (six photos minimum, A & B ends, each corner at 45 degree angle)

Deviation Photo Sheet ~ As many photos as necessary to fully depict, document and illustrate deviations of S-2044 Appendix H1 or CFR Parts (e.g. 215, 224 & 232)