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.

0	US Department of Transportation Federal Railroad Administration	Sample Car Inspection Checklist for: S-2044 Appendix H-1 Safety Appliances for Enclosed Vehicle-Carrying Cars and Vehicle-Carrying Superstructures to Flat Cars	OMB No. 2130-0565 FRA F6180.161 Q
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Inspector(s): Inspection Location:		Date:	Region:	
Builder:	Car Initial and Number:	Car Type:	No. of cars to be Built:	Builder Job No.
ITEM	Number - Dimensions - Location - Manner	of Application	Appendix Reference	Notes
Hand Brake	Each car shall have at least one AAR-approved lever or vertic with MSRP Section E, Standard S-475 and that operates in ha equipment on the car. Total braking force applied to the bral comply with the requirements of MSRP Section E, Standard S less than that developed by 50 psi brake cylinder pressure. T of vertical-wheel hand brakes shall be arranged so that both gradually releasing the hand brake. The hand brake shall be p application of the brake by turning the brake wheel in a cour	rmony with the power brake ke shoes by the hand brake sh 5-401, but in any event shall b he hand brake wheel and cha will revolve when applying ar provided with means to preve	nall e not in drum nd	
	The brake wheel of vertical-wheel hand brakes shall have a r in., or 22 in. The brake wheel shall be of shallow configuratio material of equivalent strength.			
	The hubs of 22 in. hand brake wheels shall be 2 5/8 in. deep and the taper on the brake wheel hub and shaft shall be 1 in in. total, with the small end of the shaft opening 7/8 in. squa to the brake shaft with an American National Standard 7/8-9 cotter, or their equivalent.	in 12 in. on each side, or 2 in re. The brake wheel shall be s	in 12 secured	
	The attachment of hand brake wheels to the shaft shall be sun nominal diameter and depth can be applied. The attachment 20 in. nominal diameter shall provide an equal or greater deprargraph 2.1.3.	of brake wheels of 16 in., 18	in., or	
Location	The hand brake shall be located so that it can be safely opera motion and safely operated from the ground while the car is equipped with one hand brake shall be applied on the left sid brakes on cars equipped with more than one hand brake sha 9.0 of the base standard.	stationary. The hand brake o de of the car at the B end. The	n cars	
	When the tip of the operating lever of lever hand brakes is so closest point of that arc shall be located in the longitudinal d than 12 in. inboard of the inside surface of the inboard vertic closest point of the arc of travel shall be not more than 16 in point of the side handhold closest to 46 in. above the lowest position, the tip of the lever shall be not less than 4 in. above than 48 in. above the top of rail where car construction perm permit 48 in. hand brake height, the tip of the lever shall be rail. On cars built prior to January 1, 2017, the tip of the lever the top of rail when in the released position.	irection not less than 4 in. no cal leg of the sill step. In addit . inboard of the inboard clear sill step tread. When in the re the lowest sill step tread non hits. Where car construction co not more than 56 in. above the	r more ion, the ance eleased r more loes not le top of	

Feo		for Enclosed Vehicle-Carrying Cars and rrying Superstructures to Flat Cars	FRA F6180.161 Q
ITEM	Number - Dimensions - Location - Manner of Application		dix Reference Notes
	The center of the hand brake shaft of vertical-wheel hand brak longitudinal direction not more than 21 in. from the inside face step and shall be not less than 26 in. above the lowest sill step the highest sill step tread. In addition, the center of the hand b in. above the top of rail.	e of the inboard vertical leg of the sill tread nor more than 46 in. above	: H1, 2.2.3
	Clearance around the grip portion of the hand brake operating travel or the rim of the hand brake wheel shall be not less thar portion of the release lever, if used, throughout its full range o be not less than 2 1/2 in.	4 in. Clearance between the grip	: H1, 2.2.4
	If the hand brake application is such that the requirements of p hand brakes having short hand brake release levers or only wit the car shall be marked adjacent to the hand brake in 1 1/2 in. RELEASE LEVER BRAKE ONLY."	h long release levers, but not both,	: H1, 2.2.5
Manner of Application	The hand brake housing shall be securely fastened. The hand b welded to the car structure. The hand brake application, includ to MSRP Section E, Standard S-475.		: H1, 2.3.1
	The hand brake chain shall conform to the requirements of S-4 minimum working load of 5,875 lb and minimum proof test of		: 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 shal the closed or open position.	I not be obstructed by end doors in Appendix	H1, 3.1
Dimensions	Sill steps shall conform to the requirements of Standard S-2042 shall be 14 in.	2. Minimum usable length of tread Appendix	: H1, 3.2.1

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TEM	Number - Dimensions - Loc	ation - Manner of Application	Appendix Reference	Notes
	Sill steps shall be of steel not le be provided with a slip-resistan	ss than 1/2 in. thick, shall be not less than 4 in. wide, and shall t 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 entir	e usable length of all sill step treads shall be not less than 8 in.	Appendix H1, 3.2.4	
	in. at the tread surface to not	e lowest sill step tread shall taper uniformly from not less than 6 less than 4 in. at 8 in. above the tread. The clear width so paded and empty conditions with the trucks rotated to simulate ied for the uncoupled car.	Appendix H1, 3.2.5	
ocation	in the longitudinal direction su is not more than 2 in. inboard face of the inboard vertical leg clearance point of any horizon	ar each end of each side of the car. The sill steps shall be located ch that the inside face of the outboard vertical leg of the sill step of the outboard clearance point of any side handhold. The inside of the sill step shall be not less than 16 in. from the outboard tal side handhold. These requirements do not apply to additional ce with the requirements of paragraph 4.3.4.	Appendix H1, 3.3.1	
	inboard or outboard of the ins	outside edge of any sill step tread shall be not more than 6 in. ide surface of the lowest adjacent side handhold. In addition, the ead shall be not more than 4 in. inboard of any car structure owest adjacent side handhold.	Appendix H1, 3.3.2	
	The lowest tread shall be not m	ore than 24 in. above the top of rail.	Appendix H1, 3.3.3	
lanner of pplication	Sill steps shall be securely faste	ned.	Appendix H1, 3.4	
ide Handholds		side handholds, not less than 4 over each sill step. The handholds ostructed by end doors in the closed or open position.	Appendix H1, 4.1	

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ITEM	Number - Dimensions - Location - Manner of Application	Appendix Reference	Notes
Dimensions	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.	Appendix H1, 4.2	
Location	The side handholds shall be oriented horizontally near each end on each side of the car.	Appendix H1, 4.3.1	
	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, 4.3.2	
	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	
Manner of Application	Side handholds shall be securely fastened.	Appendix H1, 4.4	

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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	
ocation	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	
Aanner of pplication	End handholds shall be securely fastened.	Appendix H1, 5.4	

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ITEM	Number - Dimensions -	Number - Dimensions - Location - Manner of Application		Notes
Uncoupling Devices	Uncoupling devices and their ap S-129, S-131, S-133, or S-134; or	plication shall conform to MSRP Section S, Part III, Standard Specification M-961.	S-2044 6.1 (Base Standard)	
	One uncoupling device shall be one at the right side of the A en	applied at the left side of the B end of the car (BL corner) and d of the car (AR corner).	S-2044 6.2	
	. –	the outside surface of the uncoupling device handles shall be he car center than the inside surface of the adjacent side	S-2044 6.3	
	handles for a length not less tha the grip portion of handles havi shall be not less than 12 in. nor	clearance, preferably 2 ½ in., around the uncoupling device n the lowest 4 in. of straight handles and not less than 4 in. in ng clearly defined grip portions. The lower ends of the handles more than 15 in. below the top surface of the uncoupling d not less than 15 in. above the top of rail.	S-2044 6.4	
	Uncoupling device mounting brailers than 5/8 in. diameter.	ackets shall be securely fastened to the car with fasteners not	S-2044 6.5	
Stenciling	Car initial, numbers and built da	te stenciled on the car.	49 CFR Part 215.301	
Reflectorization.	Reflectorization must meet all r	equirements. Attached Drawing	49 CFR Part 224	
Coupler Height	Verify coupler height 31½ inch r	ninimum, 34½ inch maximum.	49 CFR Part 231.31(a)(1)	
Power Brakes	cylinders, all cars shall have a le equipped with a badge plate dis the car at Class I brake tests and ineffective, if different from Clas	ominal 12-inch stroke (8 ½ and 10-inch diameters) brake gible decal, stencil, or sticker affixed to the car or shall be playing the permissible brake cylinder piston travel range for the length at which the piston travel renders the brake ss I brake test limits. The decal, stencil, sticker, or badge plate e easily read and understood by a person positioned safely	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 b the car in revenue service.	e performed on each new car prior to placing or using	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)