## Expires 09/30/2022

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.

	Department of Transportation eral Railroad Administration		ection Checklist For: S-204 for Bulkhead Flatcars with		OMB No. 2130-0565 FRA F6180.161 C
Inspector(s):		Inspection Loca	ation:	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 with MSRP Section E, Standard equipment on the car. Total bra comply with the requirements less than that developed by 50 drum of vertical-wheel hand br and gradually releasing the han application of the brake by turn	S-475 and that operates in aking force applied to the b of MSRP Section E, Standar psi brake cylinder pressure akes shall be arranged so t d brake. The hand brake sh	harmony with the power brac brake shoes by the hand brake of S-401, but in any event sha e. The hand brake wheel and of hat both will revolve when ap nall be provided with means t	ke e shall II be not chain plying	
	The hand brake wheel shall hav shallow configuration and shall			of Appendix C1, 2.1.2	
	The hub of the hand brake whe shaft. The taper on the brake w 12 in. total, with the small end secured to the brake shaft with 3/16 in. × 1 1/2 in. cotter, or the	heel hub and shaft shall be of the shaft opening 7/8 in an American National Star	e 1 in. in 12 in. on each side, o . square. The brake wheel sha	r 2 in. in Il be	
Location	The hand brake shall be located platform while the car is in mot one hand brake shall be located more than 22 in. from, the cent 40 in. above the platform-supp brakes on cars equipped with m paragraph 9.0 of the base stand	ion. The center of the hand d on the B end of the car to cerline of the car and shall l ort surface of the end-plat nore than one hand brakes	d brake shaft on cars equippe the left of, and not less than be not less than 28 in. nor mo form mounting brackets. The	d with 17 in. nor re than hand	
	Clearance around the rim of the	e hand brake wheel shall b	e not less than 4 in. Clearance	Appendix C1, 2.2.2	

 Clearance around the num of the hand brake wheel shall be not less than 4 in. Clearance
 Appendix C1, 2.2.2

 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 C1, 2.2.2

 The outside edge of the hand brake wheel shall not extend more than 8 in. beyond the striker or end of the center sill, whichever extends farther, and not more than 8 in. beyond the outboard edge of the end platform. The outside edge of the hand brake wheel shall be not less than 1 in. and not more than 18 in. outboard of the inside surface of the horizontal end-platform handhold.
 Appendix C1, 2.2.2

	ailroad Administration Safety Appliances for Bulkhead Flatcars with High Bull	OMB No. 2130-0565 FRA F6180.161 C	
ITEM	Number - Dimensions - Location - Manner of Application	Appendix Reference	Notes
	If the hand brake application is such that the requirements of paragraph 2.2.2 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 C1, 2.2.4	
Manner of Application	The hand brake housing shall be securely fastened. The hand brake application, including bolt hole pattern, shall conform to MSRP Section E, Standard S-475.	Appendix C1, 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 C1, 2.3.2	
	Hand brake rods shall be not less than 3/4 in. diameter.	Appendix C1, 2.3.3	
Sill Steps	There shall be four sill steps.	Appendix C1, 3.1	
Dimensions	Sill steps shall conform to the requirements of Standard S-2042. Minimum usable length of tread shall be not less than 12 in.	Appendix C1, 3.2.1	
	Sill steps shall be of steel not less than 1/2 in. thick and not less than 2 in. wide.	Appendix C1, 3.2.2	
	Sill steps shall have sufficient treads such that the top tread is not more than 21 in. below the lowest adjacent side handhold. Sill step treads shall be spaced not more than 21 in. apart.	Appendix C1, 3.2.3	
	The clear depth above the entire usable length of all sill step treads shall be not less than 8 in., and the clear width of the lowest sill step tread shall be not less than 6 in. for both loaded and empty conditions with the trucks rotated to simulate the maximum curvature specified for the uncoupled car.	Appendix C1, 3.2.4	
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 10 in. from the outboard clearance point of any side handhold.	Appendix C1, 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 C1, 3.3.2	
	The lowest tread shall be not more than 24 in., preferably not more than 22 in., above the top of rail.	Appendix C1, 3.3.3	

	tment of TransportationSample Car Inspection Checklist For: S-2044 Appendiailroad AdministrationSafety Appliances for Bulkhead Flatcars with High Bulk		OMB No. 2130-0565 FRA F6180.161 C
ITEM	Number - Dimensions - Location - Manner of Application	Appendix Reference	Notes
Manner of Application	Sill steps shall be securely fastened.	Appendix C1, 3.4	
Side Handholds	When the end platforms are aligned with the lowest end handholds, there shall be 16 side handholds, 4 near each end on each side of the car. When the end platforms are aligned with the second lowest end handholds, there shall be 20 side handholds, 5 near each end on each side of the car.	Appendix C1, 4.1	
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 of the lowest side handhold at each corner shall be 16 in. Minimum clear length of the side handholds above the lowest handhold at each corner shall be 16 in. if the bulkhead is wide enough to permit their use. If the bulkhead does not have sufficient width, handholds having clear length less than 16 in., but not less than 12 in., may be applied. Minimum clearance shall be 2 in., preferably 2 1/2 in. The side handhold at each corner aligned with the end platform, and any side handholds located below them, shall have foot guards or upward projections not less than 2 in. in height at their inboard ends.	Appendix C1, 4.2	
Location	The side handholds shall be oriented horizontally and spaced not more than 19 in. apart, with the lowest handhold located not more than 21 in. above the top tread of the sill step. Spacing between side handholds shall be uniform within a maximum variation of 2 in.	Appendix C1, 4.3.1	
	There shall be a side handhold aligned with each end handhold, up to and including the end handhold at each corner aligned with the end-platform handhold. Individual side handholds shall coincide in height with corresponding end handholds within a maximum variation of 2 in.	Appendix C1, 4.3.2	
	The clearance points of the outboard end of the side handholds shall be not more than 10 in. inboard of, and no farther outboard than, the inside surface of the end handholds.	Appendix C1, 4.3.3	
Manner of Application	Side handholds shall be securely fastened.	Appendix C1, 4.4	
End Handholds	When the end platforms are aligned with the lowest end handholds, there shall be 16 end handholds, 4 near each side on each end of the car. When the end platforms are aligned with the second lowest end handholds, there shall be 20 end handholds, 5 near each side on each end of the car.	Appendix C1, 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. The end handhold at each corner aligned with the end platform, and any end handholds located below it, shall have foot guards or upward projections not less than 2 in. in height at their inboard ends.	Appendix C1, 5.2	

-	tment of TransportationSample Car Inspection Checklist For: S-2044 Appendiailroad AdministrationSafety Appliances for Bulkhead Flatcars with High Bulk		OMB No. 2130-0565 FRA F6180.161 C
ITEM	Number - Dimensions - Location - Manner of Application	Appendix Reference	Notes
Location	The end handholds shall be oriented horizontally and spaced not more than 19 in. apart, with the lowest handhold located not more than 21 in. above the top tread of the sill step nor more than 45 in. above the top of rail. Spacing between end handholds shall be uniform within a maximum variation of 2 in.	Appendix C1, 5.3.1	
	There shall be an end handhold aligned with each side handhold. Individual end handholds shall coincide in height with corresponding side handholds within a maximum variation of 2 in.	Appendix C1, 5.3.2	
	The clearance points of the outboard end of the end handholds shall be not more than 10 in. from the inside surface of the side handholds.	Appendix C1, 5.3.3	
Manner of Application	End handholds shall be securely fastened.	Appendix C1, 54	
adders	When access to the top of the bulkhead is provided, there shall be two ladders, one on each end of the car.	Appendix C1, 6.1	
Dimensions	Ladder treads 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 C1, 6.2	
ocation	The ladders shall be located on the ends of the car above the end handholds. One shall be applied on the B end at the left side of the car and one on the A end at the right side of the car.	Appendix C1, 6.3.1	
	The ladder treads shall be oriented horizontally and spaced not more than 19 in. apart. Spacing between ladder treads and end handholds shall be uniform within a maximum variation of 2 in.	Appendix C1, 6.3.2	
	The top ladder tread shall be not less than 12 in. nor more than 18 in. below the mounting surface of the bulkhead top handhold.	Appendix C1, 6.3.3	
	The clearance points of the outboard end of the ladder treads shall be not more than 10 in. from the inside surface of the side handholds. The clearance points of the inboard ends of the ladder treads and the end handholds beneath them shall be in vertical alignment in the transverse direction.	Appendix C1, 6.3.4	
	On each end of the car, each end handhold and ladder tread shall be not more than 3 in. inboard of a plane extending from the lowest handhold to the highest ladder tread. Each handhold or ladder tread shall be not more than 3 1/2 in. inboard or outboard of the handholds or ladder treads immediately above and below it. No ladder tread or handhold shall be more than 3 in. outboard of the lowest handhold.	Appendix C1, 6.3.5	

0	US Department of Transportation Federal Railroad Administration

Sample Car Inspection Checklist For: S-2044 Appendix C-1 Safety Appliances for Bulkhead Flatcars with High Bulkheads

OMB No. 2130-0565 FRA F6180.161 C

ITEM	Number - Dimensions - Location - Manner of Application	Appendix Reference	Notes
Manner of Application	Ladders shall be securely fastened.	Appendix C1, 6.4	
Bulkhead Top Handholds	When access to the top of the bulkhead is provided, there shall be two bulkhead top handholds, one over each ladder.	Appendix C1, 7.1	
Dimensions	Bulkhead top 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 C1, 7.2	
Location	Bulkhead top handholds shall be mounted on the top surface of the end bulkheads and shall be parallel to the top ladder treads below them.	Appendix C1, 7.3.1	
	In the transverse direction, the clearance points of the inboard end of the bulkhead top handholds shall be not more than 8 in. inboard from and no farther outboard than the clearance point of the inboard end of the top ladder tread.	Appendix C1, 7.3.2	
	In the longitudinal direction, the inside surface of the bulkhead top handholds shall be not less than 8 in. from the outboard edge of the bulkhead top surface and not more than 15 in. from the inside surface of the top ladder tread.	Appendix C1, 7.3.3	
Manner of Application	Bulkhead top handholds shall be securely fastened to the end bulkheads.	Appendix C1, 7.4	
End Platforms	There shall be two end platforms.	Appendix C1, 8.1	
Dimensions	End platforms shall conform to the requirements of Standard S-226. The platform material shall have uniform antiskid surfaces and shall be of construction to provide at least 50% clear opening in a representative area to permit elimination of accumulated snow and ice. The thickness from the mounting surface to the top of tread shall be not less than 3/8 in. and not more than 2 in. End-platform width shall be not less than 8 in. The preferred length for end platforms is 60 in. Platforms shall not be shorter than 60 in. but may be longer if a longer length is necessary to comply with the requirements of paragraph 8.3.1	Appendix C1, 8.2	

ITEM	Number - Dimensions - Location - Manner of Application	Appendix Reference	Notes
Location	One end platform shall be applied on each end of the car between end handholds. The center of the outer mounting holes shall be not more than 7 3/4 in. from the clearance points of the nearest end handholds. The end platform shall be centered between the end handholds and, where practicable, at the center of the car end.	Appendix C1, 8.3.1	
	Where conventional draft gears or cushioning devices having less than 6 in. longitudinal coupler travel in buff are used, the outside edge of the end platforms shall extend no farther from the end of the car than the striker or end of the center sill. Where draft gears or cushioning devices having 6 in. or greater longitudinal coupler travel in buff are used, the outside edge of the end platforms shall extend not more than 6 in. beyond the striker or end of the center sill with the cushioning device (if used) at full buff.	Appendix C1, 8.3.2	
	The platform-support surface of the mounting brackets shall be not more than 3 in. above nor more than 4 3/8 in. below the top surface of the nearest end handhold.	Appendix C1, 8.3.3	
	Minimum vertical clearance above the end platform, measured from the end-platform mounting brackets, shall be not less than 7 in., except for the hand brake rod, hand brake chain, bell crank, and sheave wheel. No part of the car end or fixture on the car end above the end platform and less than 84 in. above the end-platform mounting brackets, other than the hand brake, hand brake rod, hand brake chain, bell crank, sheave wheel, horizontal end-platform handhold, and end-platform handhold support shall extend closer to the outside edge of the end platforms than 8 in. When car construction does not permit 8 in. clearance to be provided, not less than 5 in. clearance shall be provided.	Appendix C1, 8.3.4	
Manner of Application	Each end platform shall be supported by four mounting brackets. The mounting brackets shall be of steel not less than 3/8 in. thick nor less than 2 in. wide and shall conform to Standard S-226. The mounting brackets shall be securely fastened to the car body. The end platforms shall be securely fastened with two fasteners at each mounting bracket.	Appendix C1, 8.4	
Horizontal End- Platform Handholds	There shall be two horizontal end-platform handholds.	Appendix C1, 9.1	

	rtment of TransportationSample Car Inspection Checklist For: S-2044 Appendailroad AdministrationSafety Appliances for Bulkhead Flatcars with High Bull		OMB No. 2130-0565 FRA F6180.161 C
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. Handholds with unsupported length greater than 36 in. shall be not less than 1 in. diameter. The unsupported length of 1 in. diameter handholds shall not be greater than 72 in. It is preferred that the clear length of the end-platform handholds be not less than 60 in. Minimum clearance shall be 2 in., preferably 2 1/2 in.	Appendix C1, 9.2	
Location	One horizontal end-platform handhold shall be applied on each end of the car above the end platform and between end handholds. The transverse distance between the clearance points at the ends of the end-platform handholds and the clearance points at the inboard ends of the corresponding end handholds shall not exceed 6 in.	Appendix C1, 9.3.1	
	Horizontal end-platform handholds shall preferably coincide in height with the corresponding end handholds but shall be within a maximum variation of 2 in. Height from the top of the end- platform handhold to the platform-support surface of the end-platform mounting brackets shall be not less than 40 in., preferably not less than 50 in., nor more than 60 in.	Appendix C1, 9.3.2	
	Horizontal end-platform handholds shall be located no farther than 6 in. in the longitudinal direction from the corresponding end handholds, measuring from inside surface to inside surface. This requirement applies to the entire length of end-platform handholds and end handholds.	Appendix C1, 9.3.3	
Nanner of Application	Horizontal end-platform handholds shall be securely fastened.	Appendix C1, 9.4	
Clearance at The end of Car	No part of the car above the end sill more than 30 in. from the longitudinal centerline of the car, except the hand brake wheel, hand brake shaft, bell crank, sheave wheel, end platform, or horizontal end handholds, shall extend beyond the striker or end of the center sill with the draft gear or cushioning device (if used) at full buff. No other part of the car end or fixtures on the end above the end sill and less than 84 in. above the end-platform mounting brackets, other than the exceptions herein noted, shall extend beyond the outer face of the striker or end of the center sill.	Appendix C1, 10.0	
Uncoupling Devices	There shall be a minimum of two uncoupling devices that conform to the requirements of the base standard.	Appendix C1, 11.0	
	Uncoupling devices and their application shall conform to MSRP Section S, Part III, Standard S-2044 6.1 (Base 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 S-2044 6.2 one at the right side of the A end of the car (AR corner)	S-2044 6.2	

	US Department of TransportationSample Car Inspection Checklist For: S-2044 Appendix C-1Federal Railroad AdministrationSafety Appliances for Bulkhead Flatcars with High Bulkheads		
ITEM	Number - Dimensions - Location - Manner of Application	Appendix Reference	Notes
	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	
Stenciling	Car initial, numbers and built date stenciled on the car.	49 CFR Part 215.301 49	
Reflectorization.	Reflectorization must meet all requirements. Attached Drawing	CFR Part 224	
Coupler 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	

6	US Department of Transportation Federal Railroad Administration	Sample Car Inspection Checklist For: S-2044 Appendi Safety Appliances for Bulkhead Flatcars with High Bulk		OMB No. 2130-0565 FRA F6180.161 C
ITEM	Number - Dimensions	- Location - Manner of Application	Appendix Reference	Notes
	after April 1, 2004, shall have a safe position either the pisto other means by which the bra	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 shal the car in revenue service.	l be 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 (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 C-1 or CFR Parts(e.g. 215, 224 & 232)