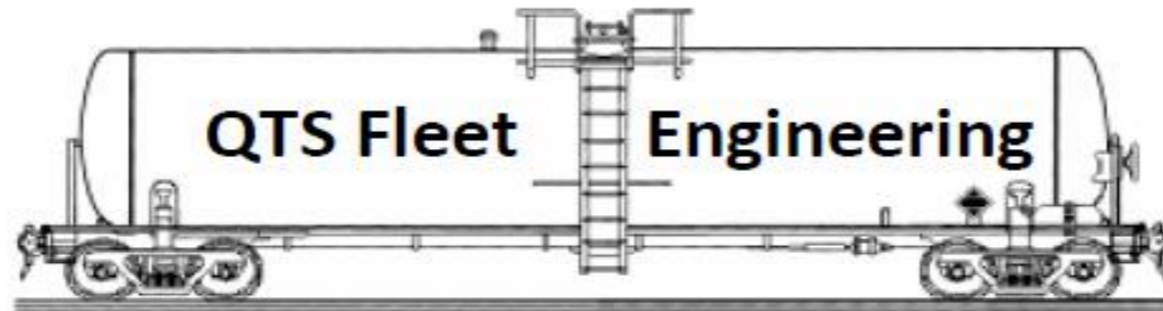




# QTS Engineering Circular Summary

For the month of April 2018



This document is provided as a reference for circulars released by the AAR during the month stated above. To view a copy of a certain circular, please contact your QTS representative, and reference the number of the circular. If you have any questions regarding the content of a circular please contact QTS Engineering (Tom Leiby at [TBLeiby@qts.com](mailto:TBLEiby@qts.com) or Kevin Bailey at [KTBailey@qts.com](mailto:KTBailey@qts.com)).

### Castings

Date Released	Number	Subject	Summary	Implementation Date
4/11/2018	C-13091	Implementation of Revisions to MSRP Section S, CASTING DETAILS, Specification M-201, Castings Steel, Regarding Flawed Tensile Specimen Procedures	On February 9, 2018, Circular Letter C-13067 was issued to solicit comments. No comments were received. In addition to the proposed revisions, the CSTCC made one editorial change in paragraph 5.5 to improve clarity. Specification M-201 is now implemented and effective immediately. The updated version of M-201 is attached. This modification will be incorporated in the next issue of the Manual of Standards and Recommended Practices, Section S. Please update your library and be governed accordingly.	4/11/2018

### Industry Info

Date Released	Number	Subject	Summary	Implementation Date
4/4/2018	C-13086	Update - Registrations Are Open for AAR M-1003 Quality Assurance Training Classes: Basic & Advanced Auditor Training and Root Cause Analysis	The Association of American Railroads (AAR) Quality Assurance Committee has scheduled the Quality Assurance Training classes. Interested parties are encouraged to enroll promptly as classes tend to fill quickly and acceptance is based on a first-come first-served basis. The cost for the Basic & Advanced Auditor Training classes are \$1,076 and for the Root Cause Analysis classes are \$760.	N/A
4/4/2018	C-13087	Save the Date - Announcing the 2019 AAR Quality Assurance Auditor and Industry Conference	The AAR QA is pleased to announce that the 31st Annual AAR Quality Assurance Auditor and Industry Conference will be held the week of January 21, 2019 in New Orleans, Louisiana.	N/A

### Locomotives

Date Released	Number	Subject	Summary	Implementation Date
4/6/2018	C-13088	Implementation of New Specification in MSRP, Section M LOCOMOTIVES AND LOCOMOTIVE INTERCHANGE EQUIPMENT, Specification M-1005 LOCOMOTIVE ELECTRONICS SAFETY ASSESSMENTS AND ANALYSES	On February 2, 2018, the AAR issued Circular Letter C-13064 to solicit comments for new Specification M-1005 LOCOMOTIVE ELECTRONICS SAFETY ASSESSMENTS AND ANALYSES, for the AAR Manual of Standards and Recommended Practices Section M, LOCOMOTIVES AND LOCOMOTIVE INTERCHANGE EQUIPMENT. No comments were received. The Subpart E Task Force and the Locomotive Committee have approved implementing and publishing M-1005 via this Circular Letter.	4/6/2018

### Tank Cars

Date Released	Number	Subject	Summary	Implementation Date
4/11/2018	C-13093	Implementation of Revision to MSRP Section C - Part II DESIGN, FABRICATION, AND CONSTRUCTION OF FREIGHT CARS, Specification M-1001 Chapter 6 General Design and Test Requirements – Tank Cars. Additional design guidance for tank car sill reinforcing pads	The purpose of this circular letter is to notify the industry of editorial revisions to Section C- Part II DESIGN, FABRICATION, AND CONSTRUCTION OF FREIGHT CARS, Specification M-1001 Chapter 6 General Design and Test Requirements – Tank Cars, paragraph 6.1.2.7. The previous and revised versions of this paragraph are shown below with the edited words underlined. The edit follows revisions made previously as described in Circulars C-12495 and C-12421, and is being implemented for clarity purposes with concurrence from the Federal Railroad Administration.	4/11/2018

Comments				
Date Released	Number	Subject	Summary	Implementation Date
4/6/2018	C-13089	Solicitation of Comments for Revisions to MSRP Section C, CAR CONSTRUCTION FUNDAMENTALS AND DETAILS, proposed new Recommended Practice RP-2018, Handholds, Steps, and Ladders for Interior Access	The application of handholds, steps, ladders, etc. to the interior of freight cars is not required by any AAR standards or FRA regulations. RP-2018 is proposed not to require interior safety appliances, but to provide guidance when interior safety appliances are applied.	5/6/2018
4/9/2018	C-13090	Solicitation of Comments for Revisions to MSRP Section S-II, TRUCK DETAILS AND CASTING CODES, Standard S-392, Update to Code Sheets and Drawings	The Coupling System and Truck Castings Committee (CSTCC) is proposing updates to the Pennsy, Columbus Castings, and ABC-NACO code sheets. These updates change the title to reflect Amsted Rail as the design owner and update code sheets accordingly. All truck drawings for Sections 4.0, 6.0 and 7.0 have been revised and updated and are included in the proposed changes. There are no costs associated with implementation of these updates. This update is one in a series of updates to S-392. Future updates will address other sections and new manufacturers.	5/9/2018
4/11/2018	C-13092	Solicitation for Comments – Revision to MSRP Section N, Specification M-992, Designated Satellite Shop Repair for Multi-Level Auto Rack Cars	The Specially Equipped Freight Car Committee has proposed the following revisions to MSRP Section N, Specification M-992. Please Request Circular to see recommended revisions.	5/11/2018
4/17/2018	C-13098	Solicitation of Comments for Revisions to AAR Intermodal Interchange Rules, Section L, Rule 156, and Appendix A, Destroyed, Badly Damaged, or Stolen Units, Depreciated Value Table Update and Billing Procedures Revisions	The purpose of this circular letter is to solicit comments for proposed revisions to AAR Intermodal Interchange Rules, Section L, Rule 156, and Appendix A, Destroyed, Badly Damaged, or Stolen Units, update to the Depreciated Value Table and revisions to the billing procedures.	5/17/2018
4/30/2018	C-13109	Solicitation of Comments Regarding the Removal of Tables 17.9 and 17.10 from Section 1 of the AAR Open Top Loading Rules Manual (OTLR)	The OTLRC requests comments from the industry regarding the removal of Table 17.9 AAR Approved High-Strength Type 1 Regular-Duty Package Bands and Table 17.10 - AAR Approved IRS/USLM Banding Manufacturers for AAR approved Unit Strap Lifting Method (USLM, formerly IRS) Banding Manufacturers. The band sizes in Table 17.9 are already included as package bands in Table 17.8.	5/30/2018
4/30/2018	C-13110	Solicitation of Comments: Proposal to Revise Figures 244, 247, 263, 267, 280, and 285 – Section 2 AAR Open Top Loading Rules Manual (OTLR)	The Open Top Loading Rules Committee (OTLRC) requests comments from the industry regarding the proposal to revise Figures 244, 247, 263, 267, 280, and 285 in Section 2 AAR Open Top Loading Rules. The proposal is to require Item W – "Tie-down assemblies: consisting of a winch, ratchet, and polyester woven strap 4 in. wide with 20,000 MBS" for load configurations in which Tier 2 is nested on Tier 1 (pyramid loading). An example is Figure 244, Sketch 48 (see attached).	5/30/2018
4/30/2018	C-13111	Solicitation of Comments: Proposal to Revise or Archive Figure 124 – Section 2 AAR Open Top Loading Rules Manual (OTLR)	The Open Top Loading Rules Committee (OTLRC) requests comments from the industry regarding the proposal to revise or archive Figure 124 - PIPE, STEEL, 26 IN. O.D. OR LESS, UNIFORM OR MIXED LENGTHS AND DIAMETERS—GONDOLAS (MUST HAVE 4 FT VOID AT EACH END ON MATERIAL LOADED ABOVE CAR ENDS AT ORIGIN), Section 2 AAR Open Top Loading Rules. The proposed change to this figure would to allow its use only with high-end gondolas. However, if the industry does not currently use this loading figure, the committee will move to archive it to Section 4 of the AAR Open Top Loading Rules Manual due to non-use.	5/30/2018
4/30/2018	C-13114	Solicitation of Comments Regarding Loading Mixed Widths and Lengths of Steel Plate, Figures 14 and 14-A - Section 2 AAR Open Top Loading Rules Manual (OTLR)	The OTLRC requests comments from the industry regarding changes to Figures 14 and 14-A. The committee would like the industry to provide information regarding standard loading/stacking configurations for mixed widths and lengths of plate. Examples of methods or best practices might include loading wider plate on bottom, longer plate on top, bridging, overlapping, pyramiding, elevating load/layers, etc. The committee will also be editing the note for each to state each plate must have the minimum number of clamping pieces as per the Chart for Item C. For example, in the attached photo of a securement failure, two piles of 20 foot plate were loaded under two 40 foot plates. Only 4 clamping pieces were applied. The committee feels that a total of 6 clamping pieces should have been applied as the chart for Item C calls for 3 clamping pieces for each 20 foot pile.	5/30/2018
4/11/2018	CPC-1331	Umler System Notification to Tank Car Owners and Solicitation of Comments on the Permissible Value of "Unknown"	First, the Committee agreed to issue the general notification herein that reminds each Tank Car Owner to accurately register all tank car equipment to the approved operating design for each applicable data element. Secondly, the Tank Car Committee agreed to seek industry comments on the following proposal to sunset the use of "Unknown" as a permissible value for tank cars.	5/11/2018

**Open Top**

Date Released	Number	Subject	Summary	Implementation Date
4/13/2018	C-13094	Implementation of New Figure 21-E – Section 6 AAR Open Top Loading Rules Manual (OTLR)	The AAR's Open Top Loading Rules Committee (OTLRC) has approved new Figure 21-E - BRIDGE ERECTION BOAT (BED), M30—FLATCAR, CHAIN TIE-DOWN - Section 6 of the AAR Open Top Loading Rules.	4/13/2018
4/13/2018	C-13095	Implementation of Archival of Figure 34-B– Section 2 AAR Open Top Loading Rules Manual (OTLR)	The AAR's Open Top Loading Rules Committee (OTLRC) has approved the archival, due to non-use, of Figure 34-B – COILS OF WIRE, 48 IN. DIAMETER OR LESS—BULKHEAD FLATCARS, WITH SLOPED FLOORS AND STEEL SIDE RAILS EXTENDING 8 IN. ABOVE CAR DECK - Section 2 of the AAR Open Top Loading Rules.	4/13/2018
4/13/2018	C-13096	Implementation of Archival of Figure 117-B– Section 3 AAR Open Top Loading Rules Manual (OTLR)	The AAR's Open Top Loading Rules Committee (OTLRC) has approved the archival, due to non-use, of Figure 117-B – PIPE, PRESSURE, REINFORCED CONCRETE, 10 FT 4 IN. TO 11 FT 6 IN. DIAMETER, INCLUSIVE, NOMINAL 16 FT OR 20 FT LENGTHS—FLATCARS, 48 FT OR LONGER, WITH CONSTANT TENSIONING DEVICES - Section 3 of the AAR Open Top Loading Rules.	4/13/2018
4/13/2018	C-13097	Implementation of Revisions to Figure 55 – Section 3 of the AAR Open Top Loading Rules Manual (OTLR)	The AAR's Open Top Loading Rules Committee (OTLRC) has approved revisions to Figure 55 - WRECKED CAR BODIES—FLATCARS OR GONDOLAS, Section 3 of the AAR Open Top Loading Rules.	4/13/2018
4/18/2018	C-13099	Implementation of Revisions to Figure 112-A– Section 5 AAR Open Top Loading Rules Manual (OTLR)	16-D nails were specified in Item B, as well as being "equally spaced across the length of the bearing pieces." And, "8 on layers extending above top of bulkhead" was deleted from the No. of Pcs for Item J.	4/18/2018
4/18/2018	C-13100	Implementation of Revisions to Figure 154-B– Section 2 AAR Open Top Loading Rules Manual (OTLR)	The AAR's Open Top Loading Rules Committee (OTLRC) has approved revisions to Figure 154-B - TUBING, STEEL, SQUARES, RECTANGLES, HOLLOW STRUCTURAL, AND ROUNDS, OVER 12 FT LONG, PACKAGED—BULKHEAD FLATCARS, WITH CUSHIONING DEVICES - Section 2 of the AAR Open Top Loading Rules. The maximum load height of 9 feet was increased to 9 feet 6 inches.	4/18/2018
4/18/2018	C-13101	Implementation of Revisions to General Rule 19– Section 1 of the AAR Open Top Loading Rules Manual (OTLR)	The AAR's Open Top Loading Rules Committee (OTLRC) has approved revisions to General Rule 19- Section 1 of the AAR Open Top Loading Rules. General Rule 19.2.6 was added to describe the proper application of a dynamic buckle to Type 1A Polyester straps. The rule states "Before feeding the strap through the center gap, ensure the grooves or markings on the legs of the buckle are facing toward you." Figure 19.4 was also added to illustrate a dynamic buckle.	4/18/2018
4/18/2018	C-13102	Implementation of Revisions to Figures 120 and 121 – Section 2 of the AAR Open Top Loading Rules Manual (OTLR)	The AAR's Open Top Loading Rules Committee (OTLRC) has approved revisions to Figures 120 - PIPE, CONDUIT, OR TUBING, STEEL, 1/2 IN. TO 9 IN. O.D., 10 FT TO 45 FT LONG, BUNDLED—BULKHEAD FLATCARS, WITH CUSHIONING DEVICES and 121 - PIPE, STEEL, BUNDLED THREADED OR NOT, UNCOATED AND VARNISH COATED, 1/2 IN. TO 10 IN., NOMINAL DIAMETER, INCLUSIVE, MINIMUM LENGTH 38-FT FLATCARS 48 FT OR OVER, EQUIPPED WITH PERMANENT END BULKHEADS AND PERMANENT STEEL SIDE STAKES, Section 2 of the AAR Open Top Loading Rules. In both figures, Item B was revised to state that nails are to be evenly spaced across the bearing pieces.	4/18/2018
4/18/2018	C-13103	Implementation of Revisions to Figure 19– Section 2 AAR Open Top Loading Rules Manual (OTLR)	The AAR's Open Top Loading Rules Committee (OTLRC) has approved revisions to Figure 19- Section 2 of the AAR Open Top Loading Rules. A new note was added to this figure stating "Dunnage, attached or otherwise, must not be placed on top of permanent floor risers or bearing pieces." The implementation of this revision is effective immediately and will be included in the next edition of the AAR's OTLR Manual. In the interim, please insert the circular attachment for Figure 19 in your copy Section 2 and be governed accordingly.	4/18/2018
4/18/2018	C-13104	Implementation of Revisions to Figures 43-H and 43-I– Section 2 of the AAR Open Top Loading Rules Manual (OTLR)	The AAR's Open Top Loading Rules Committee (OTLRC) has approved revisions to Figures 43-H - INGOTS, ALUMINUM, 52 IN. WIDE AND OVER, LENGTHWISE—BULKHEAD FLATCARS and 43-I- INGOTS, ALUMINUM, 53 IN. WIDE AND OVER—BULKHEAD FLATCARS, Section 2 of the AAR Open Top Loading Rules. In both figures, Item B was revised to specify 20-D nails instead of 40-D nails and that they are to be evenly spaced.	4/18/2018

4/18/2018	C-13105	Correction - Implementation of Revisions to Figure 119- Section 2 AAR Open Top Loading Rules Manual (OTLR)	This is a correction to C-13103. The previous circular letter referenced Figure 19. The correct figure is 119, Section 2 of the AAR Open Top Loading Rules. The AAR's Open Top Loading Rules Committee (OTLRC) has approved revisions to Figure 119- Section 2 of the AAR Open Top Loading Rules. A new note was added to each of these figures stating "Dunnage, attached or otherwise, must not be placed on top of permanent floor risers or bearing pieces."	4/18/2018
4/27/2018	C-13106	Implementation of Revisions to Figures 244, 260, 263 and 267- Section 2 AAR Open Top Loading Rules Manual (OTLR)	The AAR's Open Top Loading Rules Committee (OTLRC) has approved revisions to Figures 244, 260, 263 and 267- Section 2 of the AAR Open Top Loading Rules. For these figures, Item W DOES NOT need to be increased with load weight as stated in Note 3 (Note 5 in 263).	4/27/2018
4/27/2018	C-13107	Implementation of Online Library for AAR Open Top Loading Rules Manuals (OTLR)	The AAR's Open Top Loading Rules Committee (OTLRC) has approved the creation of an online library for the Open Top Loading Rules Manuals. Access to the library is free to the public. The individual rules and figures will be updated weekly as changes occur. Each book, in its entirety, will only be updated periodically (see attachment for an example). The library may be accessed by clicking <a href="https://my.aar.org/otlr">https://my.aar.org/otlr</a> .	4/27/2018
4/30/2018	C-13108	Implementation of New Figure 48-H- Section 6 AAR Open Top Loading Rules Manual (OTLR)	The AAR's Open Top Loading Rules Committee (OTLRC) has approved new Figure 48-H - MOTOR GRADERS, ARMORED, WITH PNEUMATIC TIRES, 45,300 LB OR LESS—FLATCARS WITH CHAIN TIE-DOWN - Section 6 AAR Open Top Loading Rules Manual.	4/30/2018
4/30/2018	C-13112	Implementation of Revisions to Figures 128 and 128-A - Section 2 of the AAR Open Top Loading Rules Manual (OTLR)	In Figure 128, Item B was revised to specify 20-D nails instead of 16-D. In both 128 and 128-A, the verbiage "Nails are to be equally spaced across bearing pieces" was added.	4/30/2018
4/30/2018	C-13113	Implementation of Revisions to Figures 31-A, 37, 54-B, 58-A, 58-B, 58-C, 101-A, 102-A and 113- Section 5 AAR Open Top Loading Rules Manual (OTLR)	A new note was added to each of these figures stating "Dunnage, attached or otherwise, must not be placed on top of permanent floor risers or bearing pieces."	4/30/2018