

AAR Inspection Report

A.	Outbound Inspection (Completed Cars)
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B.	Inbound Inspection (Bad Order Verification)
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AAR Inspection Report					
C.	Shop Inspection	Maj	Mod	Min	Rule Violation
	Inspection of Car Structure a) Center sills, end sills, side sills, body bolsters, side bearings, center plates, decks, draft sills? b) Wheel sets inspected for defects listed in Rule 36, 37, 41, 43 and 90 (Field Manual)? c) Side Bearing Clearance Measured and Adjusted Properly d) “Empty” Box Car Doors Lubricated & Cycled at time of Single Car Test. Trucks e) Side Frames and Bolsters inspected for defects? - o Wedge Rise Height Above Condemning Limits - o Column Wear Plates Worn 1/8” or More. - o Pedestal Roof Liners Missing or Broken - o Pedestal Roof Liner Stop Lugs Applied in Correct Location & welded properly. - o Broken springs - o Column guide wear inspected. - o Loose bolster side bearings - o Beam guides worn. f) Brake Beams inspected for defects? - o Worn ends. - o Worn lever slots. - o Worn pin holes. Safety Appliances g) Ladders, ladder treads, handholds, sill steps and uncoupling levers inspected for defects? h) Running boards, dome platforms, brake steps and crossover platforms inspected for defects. Miscellaneous Items i) Trolleys inspected and air hose clearance proper? j) Piston travel inspected for proper operating range. k) Brake lever angularity correct? l) Empty Box or Gondola cars graded and updated in EHMS/UMLR. m) Top brake rod or hand brake chain not contacting axle. n) Cross key retainer lock clearance. o) Other?				Interchange Rules & CFR 49, Part 215, 231 & 232

AAR Inspection Report								
D.	Scrap Inspection				Maj	Mod	Min	Rule Violation
	Scrap Material Inspections							Interchange Rules 83, 120
	a. Component Materials		# Inspected					
			<u>Defective</u>	<u>Not Defective</u>				
	1	Air hoses						
	2	Adapters						
	3	Brake shoes						
	4	Truck bolsters						
	5	Brake beams						
	6	Coupler knuckles						
	7	Coupler bodies						
	8	Coupler yokes						
	9	Coupler component						
	10	Draft gears						
	11	Truck side frames						
	12	Truck springs						
	13	Other?						
E.	Repair Practices							
1.	Air Brake							Interchange Rules 2 - 13
	a. Air Brake Test Information verified for cars on repair track? b. Single Car Air Brake Tests performed for cause and reported as required? c. Single Car Test device, Brake cylinder pressure gage and 28mm test coupling in-date? d. Brake Cylinder measurement tap applied? e. Daily Test of SCABT device properly demonstrated? f. Single Car Air Brake Test properly demonstrated? g. Hand Brake inspected & lubricated as required? h. Proper piston travel and Decals/Stickers as required? i. Air hose clearance and trolley arrangements proper? j. Model 3050, 3050-A, 3200 & 3200-A Sloan angle cocks removed at time of SCABT? k. Is set & release done in compliance with Field Manual? l. Are they cleaning & checking the reflective material properly with the comparator panel? m. Are brake valves being replaced per Rule 4.A.3? n. Are brake cylinders being replaced with reconditioned or new? o. Other?							
2.	Coupler/Draft Gear							Interchange Rules 16-22
	a. Draft systems inspected for defective conditions? b. Use of coupler gages adequately demonstrated? c. Coupler and draft components being removed for actionable defects? d. With coupler removed is the facility using the cushion unit yoke/endcap wear gage? e. Are they checking anti-creep and do they know how to check anti-creep? f. Are they checking anti-gravity locks on F type couplers when knuckle is removed? g. Other?							

AAR Inspection Report					
E	Repair Practices - Continued	Maj	Mod	Min	Rule Violation
3.	Running Gear a. Wheels, axles, roller bearings are being removed for actionable defect? b. Wheel gages properly used? c. Removed wheels properly identified with car initial, car number, why made code, location on car, & repair date, i.e.: (48) Thin Rim 16/16 or less and dynamic ≥ 50 Kips (60) Thin Flange (61) High impact 80<90 Kips (62) Vertical Flange (63) Wheel Tread hollow (64) High Flange (65) High impact ≥ 90 Kips (66) Cracked or broken Flange (67) Wheel out-of-round (68) Cracked or broken Rim (73) Thin Rim (74) Thermal crack (75) Shelled Tread (76) Built-up Tread (77) Grooved Tread (78) Slid flat (80) Scrape/Dent/Gouge (83) Cracked or broken plate (85) Loose (07) Obsolete (25) Owners Request (13) Early Warning/Maintenance Advisory d. Condemned bearings properly identified? (04) Defective internal parts (50) Roller bearing Overheated (51) Roller bearing Temperature per MSRP F 2.0 & 4.1 (52) Roller bearing Temperature per MSRP F 2.0 & 4.2 (92) Loose/Missing Cap Screw (91) Non-verified ABD (96) Verified ABD (93) Seals loose or cocked (97) Loose backing ring (95) Roller bearing fused due to Overheating (99) Damaged seals e. Are roller bearing adapters being checked anytime when wheel sets are removed for any reason? f. Are Maintenance Advisory's checked for outstanding active wheel impacts? g. When renewing a wheel set, are Maintenance Advisory's checked and updated when required? h. Adapters being removed for Actionable Defects? (01) Worn out (02) Broken (05) Bent (08) Wrong (Not standard to car) i. Are overheated and TADS bearings marked properly? j. Do they know how to properly perform a hand roll inspection? k. Other?				Interchange Rules 36 - 44
4.	Car Body a. AEI transponders properly programmed, applied per Rule 63.B Figure 63.1 and/or Figure 63.2? b. Constant contact side bearings inspected and measured as required? c. Car body center plate checked for defective condition? d. Are trailer hitches checked with NO/GO gage when shop is repairing and lubricated them? e. Is slag chipped and is weld appearance without defects? f. Other?				Interchange Rules 57 - 79

AAR Inspection Report					
E.	Repair Practices - Continued	Maj	Mod	Min	Rule Violation
5.	Truck Side Frames/Bolsters a. When trucks are removed for any reason, is wear on side frame columns and bolster gibs being measured? b. Is car checked in EHMS for Truck Hunting Index? Truck Side Frames: c. Inspected for defects? d. Pairing buttons incorrect (must be within one button side to side when applied). e. When trucks are dismantled are thrust lugs measured? f. Are pedestal roofs checked for squareness per MSRP Section D, S-327? g. Other? Truck Bolsters: h. Inspected for defects? i. Friction casting wear limits checked? j. When truck is dismantled for other cause, are pocket wear plates worn 50% from new replaced as required? k. Other?				Interchange Rules 46 - 50
6.	Gages & Publications Gages Required 1) Single Car Air Brake Test device. Manual or ASCTD 2) Steel wheel gage or other AAR approved alternate standard. 3) Standard wheel defect gage No. 34401 or 34401A and simplified wheel gage, or combined wheel gage. 4) Wheel back-to-back service limit gage, (Go/No-Go or alternate type capable of measuring a ¼" difference). 5) Adapter wear gage. 6) E coupler contour condemning limit age (5 5/16 inch) No. 25623-1, Side A. 7) E coupler secondhand and parts replacement contour limit gage (5 ⅛ inch) No. 25623-1, Side B. 8) E coupler reconditioned contour limit gage (5 inch) No. 28393. 9) E knuckle nose worn limit gage No. 44057. 10) F knuckle nose worn limit gage No. 49822. 11) F knuckle wear & stretch gage No. 44250-3. 12) F coupler contour limit gage No. 47120-2. 13) F coupler guard arm distortion gage No. 36527-2A or 3 14) Pedestal Ceiling Wear Gage No. EC-1200. 15) Tread Worn Hollow Gage. 16) 70,100,&125 ton (Grade C) Ride Control, Super Service Ride Control, SK-1546-1, SK-1546-2 17) Comparator Panel or Retroreflectometer				Interchange Rule 1

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E.	Repair Practices - Continued	Maj	Mod	Min	Rule Violation
6.	Publications Required 1) Field Manual of the AAR Interchange Rules. (current year and revisions) 2) Code of Air Brake System Tests for Freight Equipment. (AAR Standard S-486) 3) Instruction Leaflet No. 2391, Sup. 1 Repair Track Maintenance, Freight Brake Equipment "AB" Type. 4) Repair Track Maintenance, Freight Brake Equipment DB-60 and DB-60L Control Valves. 5) Repair Track Maintenance, Freight Brake Equipment ABDX & ABDXL Control Valves. 6) CFR49 Part – 232 7) CFR49 Part – 231 8) CFR49 Part – 224 9) CFR49 Part – 215 10) M-1003 QA 7.1 11) Circular letters that revise an Interchange Rule or the MSRP and identified as mandatory. 12) Certified tank car facilities need additional publications as listed in Rule 81.E. 13) Wheel and Axle Manual, MSRP, Section G-II, only if performing ultrasonic testing of wheels. 14) Miner's "Field Guide." 15) Stucki's "Yard & Shop Insp. Pocket Guide." 16) Amsted Rail Group's "Shop and Field Inspection Pocket Guide" 17) Wabtec's "SBX Installation and Maintenance Procedure" SK-3103 18) AWS D15.1 Railroad Welding Specification for Railcars & Locomotives 19) Other				Interchange Rule 1

F.	AAR Billing and Forms	Maj	Mod	Min	
	AAR Billing a. All items of repair covered in proper detail on the original record of repairs and signed by the party authorized to vouch for correctness? (foreign car or DDCT/Joint Inspection Certificate only) b. Original Record of Repairs retained as required? c. DDCT/Joint Inspection Card (JIC) checked versus repairs billed. d. Jacking charges properly recorded? e. Obsolete material charges proper? f. Are CID codes getting entered into Umler when required parts are being replaced? AAR Forms g. DDCT issued for Rule 95 conditions as required? h. DDCT/Joint Inspection Certificate checked for accuracy? i. Field Manual Rule 126.D.3 - Damaged Car Reports, maintained as required? j. Form MD-11, AAR Roller Bearing Hot Box and Shop Inspection Report completed as required? k. Form MD-115, Defective Wheels Removed, Causing Derailments, or Line-of-Road Setouts Report completed as required? l. M-1003, QA - 7.1 Non Conformance Report completed as required? m. Form MD-500, Cracked/Broken side frames/bolsters completed as required? n. Form MD-502, Cracked/Broken couplers completed as required? o. Does the facility have welding procedure specifications for each welding process, and do they have welder qualification records, and continuity logs for all people that are performing welds for each welding process? p. Are they clearing out EHMS for wheels removed for detectors, WPDAXLE, and WPDWHEEL? q. Are they correcting EHMS when AEI tag is applied incorrectly? r. Other?				Interchange Rules

G.	Material ID/Packaging & Storage	Maj	Mod	Min	Rule Violations
	Air Brake Valves a. Control & auxiliary brake valves properly stored and covered? b. Truck mounted piston assemblies properly covered? c. Body mounted piston assemblies properly covered? d. Clean choke filters in emergency portion valves received from vendors? e. Rubber gaskets in date and properly stored? f. End air hoses in date and properly stored? Must be separated/labeled for use on own cars. g. Intermediate air hoses in date and properly stored? Must be separated/labeled for use on own cars. Wheel Sets h. Wheel sets properly stored? Lubricants i. AAR required lubricants properly labeled and protected to prevent contamination M-914, M-942, M-971, SAE 30 oil, & SAE 50 oil? Covered Commodities j. New / reconditioned / repaired items performed in Accordance with Specification M-1003 as required? k. Other?				Interchange Rules and Instruction Pamphlets

Outbound Defects

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