



BUILDING AMERICA®

[Union Pacific Rules](#)

System Special Instructions

Effective May 2, 2016

Includes Updates as of May 2, 2016

PB-27015

[COVER: Cover Page](#)

[SHL: Safety Hot Lines](#)

[TOC: Table of Contents](#)

[INTRO: Introduction to Special Instructions](#)

[ITEM 1: Time Comparison](#)

[ITEM 2: Speed Restrictions](#)

[ITEM 3: Trains Handling - Company Equipment](#)

[ITEM 4: Locomotive Information](#)

[ITEM 5: Car Placement and Train Make-Up Restrictions](#)

[ITEM 6: Maximum Gross Weight Limitations](#)

[ITEM 7: Employee Information](#)

[ITEM 8: Heavy and Mountain Grade Operations](#)

[ITEM 9: Use of Engine Horns](#)

[ITEM 10: Rule Supplements & Amendments](#)

[ITEM 11: Moveable Point Frogs](#)

[ITEM 12: Track Breach Protection](#)

[ITEM 13: Train Defect Detectors](#)

[ITEM 14: Operating With Foreign Railroads](#)

[ITEM 15: Work Orders](#)

[ITEM 16: Tornado Watch and Warning Instructions](#)

[ITEM 17: Accessing General Orders and Bulletins Electronically](#)

[ITEM 18: Distant Signals](#)

[ITEM 19: Block and Interlocking Signals](#)

[ITEM 20: Automatic Cab Signals](#)

[ITEM 21: Slide Warning Indicator](#)

[ITEM 22: Roadway Signs](#)

[ITEM 23: Security Alert Instructions](#)

[ITEM 24: California Proposition 65 Warning](#)

[EXPLAIN: Explanation of Characters](#)

[OTHERS: Other Available Reference Material](#)

COVER: Cover Page

- [COVER: COVER PAGE](#)

COVER: COVER PAGE



BUILDING AMERICA®

**UNION PACIFIC RAILROAD
SYSTEM SPECIAL INSTRUCTIONS**

Effective 0900 CDT Monday, May 02, 2016

C.A. Scott, Executive Vice President – Operations
K. H. Hunt, Vice President – Transportation
S. K. Keller, Vice President – HDC & Network Operations
G. N. Garrison, Vice President – Northern Region
C. A. Wilbourn, Vice President – Southern Region
R. M. Castagna, Vice President – Western Region
G. D. Workman, Vice President – Engineering
J. C. Estes, Chief Mechanical Officer
T. F. Jacobi, Vice President – Operating Systems & Practices
R. N. Doerr, Vice President – Safety & CSO

This document supersedes:
Union Pacific Railroad
System Special Instructions
Effective April 01, 2015

Rule Updated Date

May 2, 2016

[^Top](#)

[Union Pacific Rules](#)

[System Special Instructions](#)

SHL: Safety Hot Lines

- [SHL: Safety Hot Lines](#)

SHL: Safety Hot Lines

NORTHERN REGION			
David Giandinoto, Assistant Vice President - Operations Ken Bruening, Chief Engineer - Northern Region Dean Hagelstein, General Superintendent, HDC			
Service Unit	Safety Hot Line	Superintendent	Headquarters
01: Twin Cities	651-552-3916	Erik Erickson	St. Paul, MN
02: Chicago	See Local Instructions	Ricky Wells	Northlake, IL
03: Council Bluffs	See Local Instructions	Paul Hinton	Council Bluffs, IA
04: St. Louis	See Local Instructions	Kelli Dunn	St. Louis, MO
05: Kansas City	See Local Instructions	Jason Wilkerson	Kansas City, MO
13: North Platte	308-535-4545	Tony Orr	North Platte, NE
14: Denver	See Local Instructions	Ron Tindall	Denver, CO
23: Commuter Ops	See Local Instructions	Arnold Robinson	Chicago, IL
SOUTHERN REGION			
Brian McGavock, Assistant Vice President - Operations Mark Wheeland, Chief Engineer - Southern Region Dan Witthaus, General Superintendent, HDC			
Service Unit	Safety Hot Line	Superintendent	Headquarters
06: North Little Rock	501-373-2444	Jay Everett	N. Little Rock, AR
07: Wichita	8-211-9990	Cliff Bowman	Wichita, KS
08: Livonia	866-896-7511	Jamal Chappell	Livonia, LA
09: Houston	8-211-0891	Jack Huddleston	Spring, TX
11: Ft. Worth	817-353-7488	Kurt Zalar	Ft. Worth, TX
12: San Antonio	210-200-3504	Daniel Torres	San Antonio, TX

WESTERN REGION

Neil Scott, Assistant Vice President - Operations

Jason Rea, Chief Engineer - Western Region

Ruben Lopez, General Superintendent, HDC

Service Unit	Safety Hot Line	Superintendent	Headquarters
16: Sunset	800-269-2060	Ramiro Barba	El Paso, TX
17: Utah	800-992-0945	Terry Brown	Salt Lake City, UT
18: Portland	503-249-2539	Robert Ellis	Portland, OR
19: Roseville	916-789-6161	James Rawlinson	Roseville, CA
20: Los Angeles	909-685-2655	Roger Lambeth	Bloomington, CA
21: Pocatello	8-211-1458	Carl Garrison	Pocatello, ID

Operating Practices

Cecil E. Copeland, General Director - Operating Practices – Ph 402-544-8842

Steve L. Foresman, Sr. Director - Operating Practices & Rules – Ph 402-544-3219

Taylor J. Weisbeck, Director Operating Systems Compliance – Ph 402-544-4620

Jay K. Bahr, Director - Field Training Exercises (FTX) – Ph 402-544-6133

Rules Manager	Phone Number	Service Unit
Robbie Goldman	801-212-3815	Denver; Chicago; Commuter Operations; Council Bluffs; Kansas City; North Platte; St. Louis; Twin Cities.
Ricky Carver	402-501-4310	Ft. Worth; Houston; Livonia; North Little Rock; San Antonio; Wichita.
Rob Hunter	909-685-2826	Los Angeles; Roseville; Portland; Salt Lake City; Sunset.

For emergencies call RMCC: 1- 888 UPRR COP or 1-888-877-7267

Harriman or Spring Dispatching Centers: Safety Hot Line Numbers: 8-501-3666 and 800-262-0608

Rule Updated Date

May 2, 2016

[^Top](#)

TOC: Table of Contents

- [TOC: TABLE OF CONTENTS](#)

TOC: TABLE OF CONTENTS

INTRODUCTION TO SPECIAL INSTRUCTIONS	1
Item 1 Time Comparison	1
Item 2 Speed Restrictions	2
Item 2-A Maximum Speeds: General	2
Item 2-B Maximum Speeds: Cars	3
Item 2-C Maximum Speeds: Maintenance of Way and Mechanical Equipment	6
Item 2-D Maximum Speeds: Hot Weather	8
Item 2-E Maximum Speeds: Cold Weather	9
Item 2-F Maximum Speeds: Tons Per Operative Brake (TPOB)	10
Item 3 Trains Handling - Company Equipment	15
1. Rail Trains	15
2. Wrecking Derricks, Locomotive Cranes and Similar Equipment	16
3. Jordan Spreaders	16
4. Snow Plows	17
5. Two-axle Scale Test Cars	17
6. Passenger, Business, and Outfit Cars	17
7. Ballast Cars with Air-Operated Ballast Gates	17
8. Engine Handling ITW (In Track Welder)	18
Item 4 Locomotive Information	19
Item 5 Car Placement and Train Make-up Restrictions	22
Item 5-A Shipments of Excessive Height/Width	22

Item 5-B System Train Make-up Requirements	23
1. Responsibilities When Train Make-up Does Not Meet Requirements	24
2. Maximum Train Length Restrictions	24
3. Maximum EPA/EDBA	25
4. Car Placement Restrictions	26
5. Train Make-up Restrictions West of N. Platte, Denver and El Paso	27
6. Train Make-up and Helper Requirements	28
Item 5-C Coupler Limits with Helper(s), Helper Placement, and Train Power Balance	30
Item 6 Maximum Gross Weight Limitations	32
Item 7 Employee Information	33
Item 7-A Reference Documents	33
Item 7-B Qualifications of Certified Employees	36
Item 8 Heavy and Mountain Grade Operations	40
Item 9 Use of Engine Horns - Quite Zone	44
Item 10 Rule Supplements & Amendments (Cardinal Rules)	45
Item 10-A General Code of Operating Rules, Chapters 1 to 19	49
Item 10-B (<i>Reserved</i>)	82
Item 10-C Air Brake & Train Handling Rules, Chapters 30 to 39	82
Item 10-D Maintenance of Way Rules, Chapters 40 to 57	91
Item 10-E Safety Rules, Chapters 70 to 83	99
Item 10-F Instructions for Inspecting, Welding and Grinding of Rail and Track Components, Chapters 100 to 115	102
Item 10-G Chief Engineer Instruction Bulletins, Chapters 121 to 138	103
Item 10-H Hazardous Materials Instructions	124
Item 10-I Programs and Policies	125
Item 10-J Commuter Train Operations	126
I. Commuter Operations Documents & Requirements	126
II. Instructions Governing Movements Between the Ogilvie Transportation Center (OTC) and Halsted and Erie	126
III. Additional Rules and Instructions	127

Item 10-K Main Track Switches	133
Item 10-L Additional Equipment Securement Requirements	134
Item 10-M Mechanical Department (Maintenance Operations)	136
Item 11 Moveable Point Frogs	145
Item 12 Track Breach Protection	147
Item 13 Train Defect Detectors	149
13.1 General Instructions For All Detectors	149
13.2 Hot Box or Hot Box/Hot Wheel and Dragging Equipment Detector with Radio Transmitted Defect Indicators	151
13.3 Hot Box or Hot Box/Hot Wheel and Dragging Equipment Detector with Radio Transmitted Defect Indicators - Talk On Defect Only	152
13.4 High Wide Shifted Load Detector and Dragging Equipment Detector with Radio Transmitted Verbal Defect Indicators	152
13.5 Dragging Equipment Detector Equipped With Radio Transmitted Verbal Defect Indicators - Talk On Defect Only	152
13.6 Wheel Impact Detector Equipped With Radio Transmitted Verbal Defect Indicators - Talk On Defect Only	152
13.7 Wheel Down Indicators	153
13.8 Detector Failures	153
13.8.1 Failed Detector Situation Table	154
13.8.2 Detector Failure - Action Table	155
Item 14 Operating With Foreign Railroads	156
Item 14-A UPRR Crews Operating Over Foreign Railroads	156
Item 14-B Foreign Railroads Operating on UPRR Tracks	156
Item 15 Work Orders	157
Item 16 Tornado Watch and Warning Instructions	160
Item 17 Accessing General Orders and Bulletins Electronically	161
Item 18 Distant Signals	161
Item 19 Block and Interlocking Signals	162
Item 20 Automatic Cab Signals	169

Item 21 Slide Warning Indicator	169
Item 22 Roadway Signs	170
Item 23 Security Alert Instructions	172
Item 24 California Proposition 65 Warning	173

Rule Updated Date

April 1, 2015

[^Top](#)

[Union Pacific Rules](#)

[System Special Instructions](#)

INTRO: Introduction to Special Instructions

- [INTRO: Introduction to Special Instructions](#)

INTRO: Introduction to Special Instructions

The General Code of Operating Rules, Air Brake and Train Handling Rules, and Safety Rules apply system wide unless modified by System Special Instructions. Timetable subdivision special instructions apply on the subdivision listed.

Observe all slower speed restrictions. Examples include subdivision speed restrictions, train consist speed restrictions, tons per operative brake restrictions and locomotive maximum speed etc.

When operating on any foreign railroad:

- Respect all restrictions listed in UPRR System Special Instructions Item 2-A (parts 1, 2, and 9 through 12), Item 2-B, Item 2-C, and Item 14.
- Respect the foreign railroad's requirements that are more restrictive.

Rule Updated Date

May 2, 2016

[^Top](#)

ITEM 1: Time Comparison

- [Item 1: Time Comparison](#)

Item 1: Time Comparison

Obtain Coordinated Universal Time (Greenwich Time) by calling:

- 8-544-4601
or
- 8-976-1111

Use the following table to convert from Coordinated Universal Time:

FROM THE SECOND SUNDAY IN MARCH UNTIL THE FIRST SUNDAY IN NOVEMBER, CONVERT TO:	BY SUBTRACTING:	FROM THE FIRST SUNDAY IN NOVEMBER UNTIL THE SECOND SUNDAY IN MARCH, CONVERT TO:	BY SUBTRACTING:
Central Daylight Saving Time	5 hours	Central Standard Time	6 hours
Mountain Daylight Saving Time	6 hours	Mountain Standard Time	7 hours
Pacific Daylight Saving Time	7 hours	Pacific Standard Time	8 hours

Rule Updated Date

May 2, 2016

[^Top](#)

[Union Pacific Rules](#)

[System Special Instructions](#)

ITEM 2: Speed Restrictions

- [Item 2-A: Maximum Speeds: General](#)
- [Item 2-B: Maximum Speeds: Cars](#)
- [Item 2-C: Maximum Speeds: Maintenance of Way and Mechanical Equipment](#)
- [Item 2-D: Maximum Speeds: Hot Weather](#)
- [Item 2-E: Maximum Speeds: Cold Weather](#)
- [Item 2-F: Maximum Speeds: Tons Per Operative Brake \(TPOB\)](#)

Item 2-A: Maximum Speeds: General

Part	Description	MPH
1	Key Trains (including trains with one or more PIH/TIH cars)	50
	Key Trains - Crude Oil / Key Trains - High Hazard Flammable Train (Operating within a High Threat Urban Area)	40
2	Moving against the current of traffic:	
	• Passenger trains	59
	• All other trains	49
3	Through dual control switch turnouts not connected to a siding	30
4	Through other turnouts not connected to a siding	15
5	Sidings:	
	• Sidings identified with a "!" symbol and connected turnouts / not to exceed main track speed at that location	30
	• Other sidings and connected turnouts / not to exceed main track speed at that location	20
6	Tracks other than main tracks and sidings	10
7	Balloon tracks & Wye tracks, except those portions used as a main track or siding	5
8	Live rails of track scales	5
9	Designated locomotive servicing facilities and car repair facilities	5
10	Engines with cars	70
	• GE AC Locomotives	75
	• Engines UP 844, 949, 951, B963, 3985, 6936 and Amtrak and other passenger engines	82
	• SW-1500	50
11	A multiple-unit engine controlled from other than the leading unit	30
12	Engines running light	70

	• Eight locomotives or less may operate at passenger train speeds not to exceed	70
	• More than eight locomotives	45
	• When speed cannot be controlled using dynamic brake	45
	• When speed cannot be controlled using dynamic brake on descending grade over 1 percent	25
13	Unit trains (loaded or empty)	50
14	Military trains	
	• Loaded	50
	• Empty	60
	Exception: Military train that exceeds 60 cars (Does not Apply to military trains consisting entirely of intermodal equipment.)	45
15	Movements over piston type (Dowty) retarders	6

Rule Updated Date

May 2, 2016

[^Top](#)

Item 2-B: Maximum Speeds: Cars

A. Use the train consist, when available, to identify the maximum train speed. It shows the maximum speed for each car and the maximum train speed, which is the lowest maximum speed of any car entrained. If a car that restricts the maximum train consist speed is set out at an unscheduled location, operate at the lowest maximum speed of cars left in the train.

Exception: Rule 31.8.7 part B regarding coal train operations.

B. The maximum speed for cars is shown on the train consist. When train consist is not available:

- The maximum speed is 60 MPH, unless the table shows a different speed.
- or
- If the equipment is 100% passenger car equipment, the train may operate at maximum passenger speed, unless otherwise restricted.

C. Use the speeds listed in the table as a backup summary:

- When a train consist is not available.
- When a pickup is made enroute without car speed information.
- or
- For foreign railroads operating on UPRR.

D. Refer to Item 2-C for MW and Mechanical equipment speeds.

Maximum Speeds Cars

Part	Description	MPH
1	Loaded ordinary flat cars	50
	Exceptions:	
	(a) Flat cars loaded with auto frames; flat cars UP 904150-904167 loaded with locomotive traction motors	60
	(b) Cars in series TBCX 7471-7481, TBCX 76700-76707, and specially equipped flat cars carrying airplane and rocket equipment	70
2	Bulkhead flat cars:	
	• Loaded	50
	• Empty cars equipped with constant contact side bearings	50
	• Empty	40
3	Centerbeam flat cars:	
	• Loaded with plywood or lumber	60
	• Loaded with other commodities	50
	• Empty	50
4	Anode flat cars:	
	• Loaded	50
	• Empty cars equipped with constant contact side bearings	50
	• Empty	40
5	Heavy-Duty Flat Cars, 8 axles or more:	
	8 to 14 axles:	
	• Loaded or empty	45
	16 to 24 axles:	
	• Loaded	25
	• Empty	45
	36 axles:	
• Loaded	15	
	• Empty	25
6	TOFC or COFC flat cars or other intermodal equipment:	
	• Loaded	70
	• Empty	60
	Exceptions:	
	(a) Loaded multi-platform/unit/well cars	75
	(b) Empty well cars and empty articulated spine cars for carrying trailers and/or containers	70
	(c) Intermodal flat cars made from box cars in series SP 520583-520727, CP 520350-520386 and empty NS 157000-157849	50

	(d) Loaded intermodal flat cars made from box cars in series NS 157000-157849	60
	(e) Flat cars in series DRGW 4015-4071, DRGW 21502-21547, DRGW 21700-21759, SP 513153, SP 514004, SP 513153-515761, SP 518013-518180, SP 599702-599888, SSW 84894, and SSW 85401-85492:	
	• Loaded	50
	• Empty	45
7	Open-top hopper cars:	
	• Loaded	60
	• Loaded with coal	50
	• Empty	50
	• Loaded cars in series CTRN 601001 – 601600 and 602001 - 602920 unless train consist indicates a higher speed	40
	Exception:	
	Empty cars having constant contact side bearings or center plate extension pads	60
8	Gondola cars	50
	Exceptions:	
	(a) Empty car in series EJE 4000-4549, EJE 4800-4874, CR 607000-607480, UP 66800-67649, SP 337700-338099, MRL 38000-38071 and MRL 80511-81332 except if equipped with constant contact side bearings	40
	(b) Loaded cars in series UP 903084-903094; cars with initials UP, WP, MP or GONX loaded with aluminum ingots and empty gondolas having constant contact side bearings or center plate extension pads	60
	(c) Covered coil gondolas equipped with constant contact side bearings	70
9	Gondola or open-top hopper cars used to haul ore	50
10	Covered hopper cars in car series TGSX 443401-443700 and CGAX 9001-9505	50
11	Tank cars:	
	• Loaded	60
	• Empty	50
	Exception:	
	Loaded 4-axle tank cars with 125 ton trucks designed for maximum gross weight of 315,000 lbs	50
12	Multilevels	70
13	Mechanical reefers; cryogenic reefers with initials CRYX or JRSX	70
14	Cabooses	70
15	Business cars and AMTK 70000 and AMTK 71000 series	79
16	Cars in ANSX series 800420-800421, 800425-800427, 800430-800433, and 800440-800444	50
17	Roadrailer™ cars	70

Rule Updated Date

May 2, 2016

[^Top](#)**Item 2-C: Maximum Speeds: Maintenance of Way and Mechanical Equipment**

The maximum speed for cars is 60 MPH unless the train consist shows a different speed. Use the speeds listed below as a backup summary, when a train consist is not available.

Maintenance of Way and Mechanical Equipment		
Part	Description	MPH
1	Continuous welded or jointed rail trains	
	• Loaded	40
	• Empty	50
	Loram rail train (loaded or empty)	50
2	Cars in series RGAX 25000-25049	40
3	MPX cars (excluding outfit cars and locomotive cranes), loaded or empty air dump cars, SPMW 7721-7799, RGAX 3900-3923, SPMW 4111-4147, 5101-5121, 5128-5191, 5202, 5218-5291, 5835, 6401-6438, and SSW 94500-94520	35
	Exception: Series Series MPX 27028-27060, 30000-30014 and 50001-50014	50
4	Outfit cars	40
	Exception: After mechanical department approval following inspection of cars	50
5	Four-axle scale test cars	50
	Two-axle scale test cars	30
6	Snow plows, or locomotive cranes on their own wheels; foreign line or privately-owned derricks, cranes or other similar equipment on their own wheels on revenue billing (unless further restricted on waybill or train consist); or company-owned cranes loaded on flat cars	30
	Exception: Cranes moved on flat cars in series MP 17000-17057 and MP 50064	50
7	Self-propelled cranes, pile drivers and similar equipment moving under its own power or TRT 909	30
8	Hy-rail equipped Holmes, Pettibone and similar type cranes, and hy-rail equipped wheel changers	25
9	Gondola or open top hoppers used to carry ballast	50
	Exception: Loaded UP 901710-901830, UP 919000-920216 & HZGX 7000-7700	60
10	Jordan spreaders (in all plowing operations with a MW Supervisor present):	
	• In snow plowing operations or traveling in either direction with wings retracted and locked	45
	• In snow plowing operations with wings extended	35
	• In other plowing operations	25

	<ul style="list-style-type: none"> • With one wing extended 	15
	When moving in reverse direction, wings should be fully retracted. When there is no MW Supervisor present, be governed by Item 3.3 Jordan Spreader (entrained) rules.	
11	Engines handling ITW (in-track welder) work equipment, Loram rail train or TRT 909	50
12	Wrecking derrick consists are assigned to locations shown below. When operating derrick consists, the equipment having the lowest authorized speed restricts the maximum authorized speed for that consist.	
Assigned Location	Consist Contains Equipment:	MPH
Ogden	UP 905275, 905280, 908455	50
Green River	UP 903047, 909317, 906209, 904206, 904703	60
	UP 905269, 905273, 905274	50
Denver	RGAX 030, 3330	35
Hinkle	UP 903050, 909351, 906203, 904294, 904295, 909355	60
Salt Lake	UP 903046, 904200, 904239, 906200, 906208, 909307, 909308	60
Stockton	UP 909313, 904301	60
	WPMW 796, 797	50
	UP 900310, TPX 14181	40
Portola	UP 903045, 904232, 904300, 909320	60
	WPMW 376, 378	50
North Little Rock	MP 15427, 3646, 15082, 517, 2909, 4324, MPX 251	60
	MP 2155, 3160, 15090	50
Roseville	SPMW 7113, 7184, 7185, 7071, 7055	45
	SPMW 7072, 7077, 7078	35

Rule Updated Date

May 2, 2016

[^Top](#)

Item 2-D: Maximum Speeds: Hot Weather

During periods of extreme heat, conditions exist that could affect track structure. When advised by track bulletin that a Level 1 or 2 Heat Restriction is in effect, restrict train speed within the limits of the track bulletin as shown in the tables below. In addition, when the train is equipped with distributed power at the rear of the train, operate in synchronous mode or in

independent mode with distributed power 1-3 throttle notches below the lead consist in power and 1-3 throttle positions above the lead consist in dynamic brake, except when cresting a grade or when specific train handling procedures are required by local instructions.

Maximum Speeds: Hot Weather	
Level 1 Heat Restriction:	Restriction MPH:
Passenger trains, light engines, and freight trains averaging less than 90 tons per car/platform/unit/well (see Note below).	No Additional Restrictions
Freight trains averaging 90 tons or more per car/platform/unit/well in signaled territory (see Note below).	50

Level 2 Heat Restriction:	Restriction:
Chicago - All Metra trains. California - Metrolink, Pacific Surfliner, Capitol Corridor, Altamont Commuter Express(ACE), Caltrain and San Joaquin trains.	No Additional Restrictions
Passenger trains (except commuter trains listed above), light engines, and freight trains averaging less than 90 tons per car/platform/unit/well.	50
Freight trains averaging 90 tons or more per car/platform/unit/well.	40
Exceptions: When an exception to Item 2-D is shown on the subdivision page, the above restrictions do not apply to freight trains and the appropriate exception listed below applies instead.	
Exception 1: All freight trains operating on the subdivision while heat restriction bulletin is in effect	30
Exception 2: All freight trains operating on the subdivision while heat restriction bulletin is in effect	Restricted speed, not exceeding 10 MPH

Note: Each platform/unit/well of an intermodal car is to be considered as one car when calculating tons per car.

Rule Updated Date

May 2, 2016

[^Top](#)

Item 2-E: Maximum Speeds: Cold Weather

During periods of extreme cold, conditions exist that could affect track structure. When advised by track bulletin that a Cold Weather Restriction is in effect, restrict train speed within the limits of the track bulletin as shown in the table.

Maximum Speeds: Cold Weather		
Cold Weather Restrictions	Restriction MPH	
	Signaled Track	Non-Signaled Track

All Passenger trains, light engines, and freight trains averaging less than 90 tons per car/platform/unit/well.	No Restrictions	40
Freight trains averaging 90 tons or more per car/platform/unit/well.	40	40

Note: Each platform/unit/well of an intermodal car is to be considered as one car when calculating tons per car.

Rule Updated Date

May 2, 2016

[^Top](#)

Item 2-F: Maximum Speeds: Tons Per Operative Brake (TPOB)

Freight trains must not exceed the speed specified in the tables below. If a subdivision special instruction specifies a higher or lower TPOB speed, be governed by that speed.

When using the following tables, round your train's TPOB up to the next whole number. For example, 100.1 TPOB becomes 101 TPOB.

The TPOB as shown on the train graph will be used to determine the maximum speed of the train. If the train graph for TPOB is unavailable, or train consist is changed enroute and a new train graph is not provided, the TPOB of the train will be computed by dividing the train's tonnage by the total number of operative brakes in the train. There is 1 brake per conventional car (See **Table C** for other car types).

Table A applies to multi-platform/unit/well trains with less than 5 conventional cars.

Table B applies to all other freight trains.

Table C is used to determine the equivalent number of operative brakes for multi-platform/unit/well cars and for cars that are solid drawbar connected.

The following abbreviations are used in **Table A** and **Table B**:



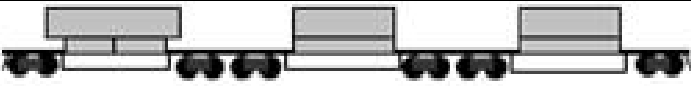

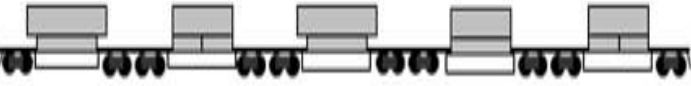

MSS: Maximum Subdivision Speed NR: No Restriction

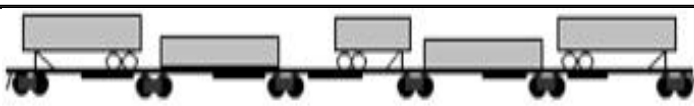

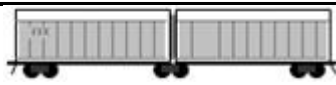

Table A –Multi-Platform/Unit/Well Trains with Less Than 5 Conventional Cars				
T P O B	Total number of platforms/units/wells & other cars			
	80 or less	81 to 110	111 to 140	141 or more
120 or less	NR	NR	NR	MSS minus 10 MPH
121 to 126	NR	NR	MSS minus 10 MPH	MSS minus 10 MPH
127 to 132	NR	MSS minus 10 MPH	MSS minus 10 MPH	MSS minus 10 MPH
133 or more	MSS minus 10 MPH	MSS minus 10 MPH	MSS minus 10 MPH	MSS minus 10 MPH

Table B – All Other Freight Trains			
Including Multi-Platform/Well Trains with 5 or More Conventional Cars			
T P O B	Maximum Speed	T P O B	Maximum Speed
100 or less	NR	111 to 120	MSS minus 10 MPH
101 to 110	MSS minus 5 MPH	Over 120	50 MPH

Note: Tables do not restrict train speed to below 50 MPH.

Use **Table C** to determine the equivalent number of operative brakes for multi-platform/unit/well cars and for cars that are solid drawbar or articulated connected and for other cars that are shown in the table .

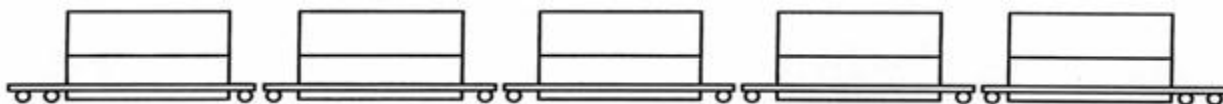
Table C - Equivalent Number of Operative Brakes		
Type of Equipment (Car Code)		Number of Operative Brakes
1.	Well cars (Permanently connected solid drawbar or articulated equipment)	
A.	 Equipped with five wells: (A, E, D, C and B) (Articulated Equipment) (P5A)	3 brakes
B.	 Equipped with three wells (A, C and B) (3 Unit Articulated) (P3A)	2 brakes
C.	 Equipped with three units (A, C and B) solid drawbar connected (P3A)	3 brakes
D.	 Equipped with four units(A, D, C and B) solid drawbar connected. (P4A)	4 brakes
E.	 Equipped with five units (A, E, D, C and B) solid drawbar connected. (P5A)	5 brakes
2.	Spine Cars (Permanently connected multi-platform articulated equipment)	
A.		2 brakes

	Three platform articulated spine cars (P3 *)	
		3 brakes
	B. Five platform articulated spine cars (P5 *) (* is a number)	
3.	TOFC and COFC flat cars (Two-unit solid-drawbar connected long car)	
		2 brakes
	A. Two cars with solid-drawbar (P2 *) (* is a letter or number)	
4.	Cars for automobiles (Permanently connected articulated equipment)	
		2 brakes
	Two unit articulated in series BTTX 880000-880419 and Automax (M* 1 or M* 3) (* is number of decks)	
5.	Superhopper car (C7T)	3 brakes
6.	Roadrailer™ cars	½ brake per van
		

The train consist shows each well (1A-E above) as a single car. The train consist shows other cars listed above (2 or 3) as one car. (See examples). When applying Item 2-D (Maximum Speed: Hot Weather) or Item 6 (Maximum Gross Weight Limitations) to calculate tons per platform/unit/well, use the total number of platforms/units/wells shown for cars listed in the above table. If it becomes necessary to cut the air brakes out on a car (control valve), count as 1 brake per Rules 30.2.2 & 32.7.4.

Examples of Train Consist: Table C – 1.

Intermodal Cars - Train Consist Articulated Multi-Well Car



DTTX 75292 LP5A ARTICULATED MULTI-WELL CAR

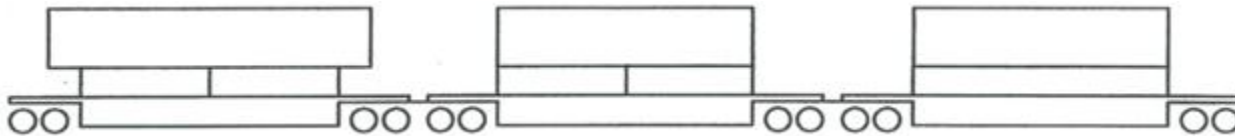
CONSISTS OF FOLLOWING 5 CARS

8 DTTA 75292 LP1A COFC XG077 05-701-96 RAMP MARION AR UNION PAC
75-MPH 61-TONS 62-FT 1-P 0.0-BRK 832-ATONS 1136-AFT
DO NOT HUMP

CSXU 683386 LK60 MIXFRT XG077 MARION AR CSX INTERMOD
EMHU 230112 LK70 MIXFRT XG077 MARION AR LANDST LOGIS

9	DTTE	75292 LP1A	COFC XG077	05-701-96 RAMP	MARION	AR UNION PAC
		75-MPH 62-TONS	62-FT 1-P	0.0-BRK 894-ATONS	1198-AFT	
		DO NOT HUMP				
	EMPU	289223 LK60	MIXFRT XG077		MARION	AR CLARKE LOGIS
	STXU	240104 LK70	MIXFRT XG077		MARION	AR PROFES TRANS
10	DTTD	75292 LP1A	COFC XG077	05-701-96 RAMP	MARION	AR UNION PAC
		75-MPH 59-TONS	62-FT 1-P	0.0-BRK 953-ATONS	1260-AFT	
		DO NOT HUMP				
	APLU	492709 LK60	MIXFRT XG077		MARION	AR SHARP FRE SY
	EMHU	230602 LK70	MIXFRT XG077		MARION	AR LANDST LOGIS
11	DTTC	75292 LP1A	COFC XG077	05-701-96 RAMP	MARION	AR UNION PAC
		75-MPH 76-TONS	62-FT 1-P	0.0-BRK 1029-ATONS	1322-AFT	
		DO NOT HUMP				
	EMPU	681487 LK60	MIXFRT XG077		MARION	AR SCHNEI NAT O
	STXU	238934 LK70	MIXFRT XG077		MARION	AR SHARP FRE SY
12	DTTB	75292 LP1A	COFC XG077	05-701-96 RAMP	MARION	AR UNION PAC
		75-MPH 67-TONS	62-FT 1-P	0.0-BRK 1096-ATONS	1384-AFT	
		DO NOT HUMP				
	APLU	492264 LK60	MIXFRT XG077		MARION	AR SHARP FRE SY
	CSXU	934228 LK70	DRYGDS XG077		MARION	AR CSX INTERMOD

Intermodal Cars - Train Consist
Solid Drawbar Connected or Articulated Multi-Well Car



DTTX 427102 P3A SOLID DRAWBAR CONNECTED MULTI-WELL CAR

CONSISTS OF THE FOLLOWING 3 CARS

1	DTTA	427102 LP1A	COFC JP017	41-801-96 RAMP	ICTF	CA UNION PAC
		70-MPH 78-TONS	72-FT 1-P	3.00-BRK 78-ATONS	72-AFT	
		NH DO NOT HUMP				
		DO NOT HUMP				
	HLXU	511982 LK4E	MIXFRT JP017		ICTF	CA HAPAG LLO AM
	HLXU	447026 LK40	MIXFRT JP017		ICTF	CA HAPAG LLO AM
2	DTTC	427102 LP1A	COFC JP017	41-801-96 RAMP	ICTF	CA UNION PAC
		70-MPH 79-TONS	72-FT 1-P	0.00-BRK 157-ATONS	144-AFT	
		NH DO NOT HUMP				

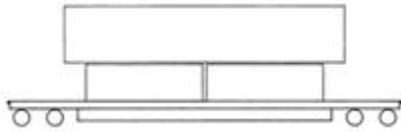
DO NOT HUMP

UESU	483829 LK50	MIXFRT JP017		ICTF CA HUB GROUP
TRLU	402070 LK40	MIXFRT JP017		ICTF CA PACER GLO LO
3 DTTB	427102 LP1A	COFC JP017	41-801-96 RAMP	ICTF CA UNION PAC
	70-MPH 80-TONS	72-FT 1-P	0.00-BRK 237-ATONS	216-AFT

NH DO NOT HUMP
DO NOT HUMP

MOAU	705 LK1E	MIXFRT JP017		ICTF CA MITSUI OSK L
FSCU	756099 LK40	MIXFRT JP017		ICTF CA HAPAG LLO AM
MOFU	55161 LK40	MIXFRT JP017		ICTF CA MITSUI OSK L

**Intermodal Car - Single Unit Well Car
(Considered a conventional car for train makeup purposes)**



34 DTTX	54000 LP1A	TOFC NZ020	05-801-96 RAMP	GLO2 IL UNION PAC
	70-MPH 80-TONS	70-FT 1-P	1.00-BRK 2273-ATONS	2283-AFT

SINGLE UNIT WELL CAR
NH DO NOT HUMP
DO NOT HUMP

NOSU	246829 LK10	MIXFRT NZ020		GLO2 IL APL LAN TRA
TRLU	211890 LK10	MIXFRT NZ020		CPRS MINNEAPOLMN APL LAN TRA
APHU	455705 LK50	MIXFRT NZ020		GLO2 IL APL LAN TRA

**Intermodal Cars - Train Consist
Multi-Platform Spine Car**



1 TTAX	553048 LP52	TOFC AX482	02-801-96 RAMP	PTLAREDO TX UNION PAC
	70-MPH 218-TONS	291-FT 5-P	2.00-BRK 218-ATONS	291-AFT

MULTI-PLATFORM SPINE CAR
DO NOT HUMP

NONZ	57098 LV77	MIXFRT AX482	LAREDO	TX SWIFT INTERM
EMHU	231127 LK70	CLNRS AX482	LAREDO	TX ALLIAN SHIPP
NONZ	541025 LV66	MIXFRT AX482	LAREDO	TX SWIFT INTERM

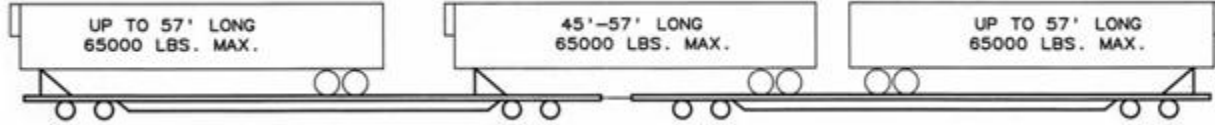
SNLZ 400592 LV77

CEREAL AX482

LAREDO

TX SCHNEI NAT C

Two-Unit Solid Drawbar Connected Long Car



17 TTEX	353221 LP28	TOFC RV185	01-800-96 RAMP	SPARKS	NV UNION PAC
---------	-------------	------------	----------------	--------	--------------

70-MPH	162-TONS	186-FT 2-P	2.00-BRK	1723-ATONS	2533-AFT
--------	----------	------------	----------	------------	----------

TWO-UNIT SOLID DRAWBAR CONNECTED LONG CAR

CC NO COUPLE TO 39FT. CAR

DO NOT HUMP

SNLZ 441782 LV77

MIXFRT RV185

SPARKS

NV SCHNEI NATIO

SNLZ 450448 LV77

MIXFRT RV185

SPARKS

NV SCHNEI NATIO

SNLZ 508399 LV78

AUTOPT RV185

SPARKS

NV SCHNEI NATIO

Rule Updated Date

May 2, 2016

[^Top](#)

[Union Pacific Rules](#)

[System Special Instructions](#)

ITEM 3: Trains Handling - Company Equipment

- [Item 3: Trains Handling Company Equipment](#)

Item 3: Trains Handling Company Equipment

1. Rail Trains

Equipment for handling continuous-welded rail, or continuous lengths of bolted rail, consists of permanently-coupled flat cars. Couplers are blocked against slack and are highly susceptible to damage from rough handling.

Buffers Cars

When equipment is loaded with rail, a buffer car is used at each end. The buffer car must not be a car containing hazardous materials or an occupied caboose or camp car. The ends of the buffer car must be at least as tall as the top row of rail to restrain the rail. The "B" end of the buffer car must not be next to the equipment loaded with rail. However, the rail train supervisor may authorize loaded equipment to be operated without a buffer to/from an unloading/loading site.

Exception: Trains LR1-50, LR2-50 and LR3-50 will utilize their attached bulkhead doors on each end to restrain rail.

Do Not Combine Rail Trains

Do not combine rail trains with other traffic. However, a Chief Engineer may authorize an empty rail train to be placed on the rear of a manifest train. A Chief Engineer may also authorize handling outfit cars and cars of track material or related items, not exceeding 70 cars, behind the CWR equipment.

Do not combine two CWR rail train sets on the following territories unless authorized by a Chief Engineer:

- Western Region
- Colorado Springs Subdivision
- Alamosa Subdivision
- Moffat Tunnel Subdivision
- Glenwood Springs Subdivision
- North Fork Subdivision
- Craig Subdivision
- Tennessee Pass Subdivision,
or
- Any track with curvature exceeding six degrees.

Loram Rail Train

Do not handle Loram rail train on any territory with curvature exceeding 16 degrees.

Movement of Loaded Rail Trains

Do not move loaded rail trains without authority from:

- The MW supervisor in charge on the rail train.
or
- MW train management.

The MW supervisor must accompany rail trains during loading and unloading operations. The MW supervisor is not required to accompany rail train movements to/from an unloading/loading site. When accompanied by a MW supervisor, train and engine crews must be alert for any signal or instruction from the MW supervisor. Before releasing a loaded rail train, the MW supervisor must ensure all rails are properly secured and buffer cars are in place.

Bad-ordered and/or Separated Equipment

If any rail trains or support equipment have been bad-ordered and/or separated from their mated car/s, the Maintenance of Way Operations Control (MWOC) Desk (402) 636-7434, must be notified immediately and the remainder of the rail train or support equipment should stay (as a unit) at that location until the repair is complete. The rail train manager must be notified if necessary repairs will require the rail train to be delayed more than 24 hours. The rail train manager can be contacted through the MWOC Desk.

Rail Train Equipment:

Rail Pick-up Units	
MP6853 (F-50)	UP913720 (C-50)
UP913498 (E-50)	UP913722 (D-50)
UP913671 (G-50)	UP904596 (M-54)
SSW97003 (S-40)	SPMW5396 (T-40)
SPMW6678 (U-48)	SPMW9013 (H-40)
SPMW9019 (K-40)	UP904697 (P-40)
UP904735 (W-50)	ADBF51140 (X-50)
SPMW9028 (J-40)	UP913523 (N-40)
SPMW9052 (I-40)	UP904534 (L-40)
CGW251000 (O-40)	RGAX4650 (Q-40)
RGAX4688 (R-40)	SPSX915 (SP-50)
LMIX701019 (LR-1) Train	LMIX701046 (LR-2) Train
LMIX701073 (LR-3) Train	

Rail Pick-up Units - Sets of Two

UP913524 & UP913525
UP913526 & UP913527
UP913528 & UP913529
UP913530 & UP913531
MP6858 & MP6863
MP6859 & MP6861
RGAX4691 & RGAX4693
SPMW6681 & SPMW6682
SPMW6683 & SPMW6684
SPMW6685 & SPMW6686
UP913532 & UP913533
UP913534 & UP913535
UP913536 & UP913537
Rail Pick-up Units - Sets of Three
LMIX701003/04/05 (Loram)
Rail Pick-up Units - Sets of Four
MP6800/MP6801/MP6802/MP6803
MP6804/MP6805/MP6806/MP6807
SPMW6650/SPMW6651/SPMW6652/SPMW6653
Rail Pick-up Units - Sets of Five
MP6864/MP6865/MP6866/MP6867/MP6868
SPMW5398/SPMW5399/SPMW5401/SPMW5403/SPMW5397
UP904563/UP904564/UP904565/UP904566/UP904567

2. Wrecking Derricks, Locomotive Cranes and Similar Equipment

Secure booms on wrecking derricks, locomotive cranes and similar equipment. Booms must be trailing or detached unless they are in work train service. A mechanical employee will accompany the wrecking derrick. A crane operator will accompany locomotive cranes and must ride either:

- In the crane.
- On the train that has the crane entrained.
or
- In a nearby vehicle having radio communications.

Inspect cranes at the following locations:

- Before leaving the initial terminal.
- Within 50 miles of the initial terminal.
- Within each 100 miles afterward.

During the inspection, ensure:

- Crane is headed in the right direction.
- Boom is properly secured.
- Equipment is being handled at the proper speed.

Booms must be disconnected on cranes, unless boom rest car specifically designed to enable the crane to move with the boom attached accompanies the crane. However, if the boom cannot be disconnected and cannot be in the trailing position, the train may be moved only as follows:

- Train management or an operating manager must authorize the movement.
- A crane operator must accompany the crane.
- Speed must not exceed:
 - 15 MPH if the crane operator is not riding the crane.
 - 30 MPH if the crane operator is riding the crane.
- Movement may only be made to the first location where it can be turned.

Placement in train:

- Place derricks and cranes within 10 cars of the engine and not ahead of more than 8000 tons.
- Place wrecking derrick consists as close to the rear of the train as possible and not ahead of more than 4000 tons.

The above restrictions do not apply to cranes loaded on flat cars, series MP 17000-17057, and MP 50064. These cranes may operate at 50 MPH. They may also operate with the boom in the non-trailing position, if properly secured.

3. Jordan Spreaders (entrained)

Head Jordan Spreaders in the direction the train is moving, unless in work trains. Inspect equipment carefully before moving, and frequently en-route. When entrained:

- Operate with wings always retracted, locked and secured with chain or cable.

- Maximum speeds:
 - 35 MPH forward.
 - 15 MPH reverse.*
- Only move in reverse direction to the first location machine can be turned.*
- Must be handled on the rear of train.*

***Exception:** Upon instructions from the MW supervisor, Jordan Spreaders entrained in work trains may be moved in reverse, to the designated location, at the speed authorized by the MW supervisor.

4. Snow Plows

Handle one-way (multiple track) and wedge (single track) snow plows as follows:

- When deadheading the plow and snow is not above the top of the rail locate the plow in trailing position on the rear of freight trains.
- When deadheading the plow and snow is above the top of the rail, locate the plow in leading position immediately ahead of the lead locomotive.
- When plowing snow, locate the plow in leading position immediately ahead of the lead locomotive. Do not pull a train when plowing snow.
- Do not operate snow plows through drifts when trains are approaching or passing on an adjacent track.
- Raise flangers when passing over bridges, highway crossings, railroad crossings, track car set-offs, high guardrails, frogs, and switches, and when passing through interlocking limits.
- Handle rotary snow plows in special trains or on the rear of freight trains with rotary blades in the trailing position.
- In switching movements, handle a snow plow alone or with only one car.

5. Two-axle Scale Test Cars

Handle two-axle scale test cars in a train immediately ahead of the rear car. Scale test cars must not be placed next to any loaded car containing hazardous materials. Handle two-axle scale test cars in separate trains if moving more than one.

6. Passenger, Business, and Outfit Cars

Train management may specifically instruct handling passenger, business and outfit cars differently than listed below. Do not handle passenger, business, or outfit cars while switching. In freight trains, handle:

- Outfit cars on the head end.
- Passenger and business cars on the rear end.

When handling passenger or business cars on the rear end of a freight train, comply with the following:

- Limit bulk commodity unit trains and trains consisting entirely of multi-platform/unit/well cars to a maximum of three passenger and/or business cars.
- Limit all other trains to a maximum of two passenger and/or business cars. In addition, trains must not:
 - Contain more than 20 multilevel cars.
 - Exceed 6000 feet (including locomotives and passenger and/or business cars).

If train management authorizes handling passenger or business cars on the head end of a freight train, comply with the following:

- A maximum of five of these cars may be entrained.
- When handling two or more of these cars if trailing tonnage behind these cars exceeds 3500 tons, separate these cars from each other by at least two loaded freight cars.
- Handle business cars UPP 106 (Shoshone) UPP 115 (Selma), UPP 203 (Idaho), and UPP 420 (Fox River) only on the rear of freight trains.
- Handle business cars UPP 210, UPP 252, EMDX 820, and EMDX 840 (mobile laboratory cars) at any location in freight trains.

7. Ballast Cars with Air-operated Ballast Gates

The following cars are ballast cars equipped with air-operated gates and an independent ballast air system:

- UP 901660-901830.
- UP 901900-901949.
- UP 901991-901999.
- UP 919000-920311.

Do the following to make the ballast air system inoperative when these cars are loaded and in transit:

- Stop the air supply to the ballast air system.
- Bleed the ballast air system reservoirs by opening an air drain valve on the ballast reservoirs, located on the "A" end of the car.
- Leave the ballast air line angle cocks open.

Before using the ballast air system, close all ballast reservoir drain valves. Charge the system only during short work train moves to an unloading site and during actual ballast unloading.

8. Engines Handling ITW (In-Track Welder)

- Employee in charge may impose more restrictive speed restrictions.
- ITW work equipment is equipped with independent air brakes.
- Employees in charge will occupy ITW and have control of the air brakes and have radio communication with the engineer.
- ITW is towed with a solid hitch and must not be placed in a train or handled with any other equipment.
- ITW is equipped with marker on rear.

Rule Updated Date

May 2, 2016

[^Top](#)

ITEM 4: Locomotive Information

- [Item 4: Locomotive Information](#)

Item 4: Locomotive Information

To determine Equivalent Powered Axles (EPA) and Equivalent Dynamic Brake Axles (EDBA) for a locomotive consist, use the EPA and EDBA numbers indicated on the train consist. The following table is to be used only when a train consist is not available or when a locomotive consist is changed.

Note: An Equivalent Axle is a locomotive's tractive effort or braking effort compared to one standard axle which has 10,000 lbs. tractive effort or 10,000 lbs. braking effort. The locomotive model is identified on the FRA Form F 6180-49A (blue card).

As used in these tables, the following abbreviations apply:

- CTE = Controlled Tractive Effort (limits locomotive to maximum of 110,000 lbs. tractive effort when equipped).
- PA = Powered Axles.
- EPA = Equivalent Powered Axles.
- EDBA = Equivalent Dynamic Brake Axles.
- FTE = Full Tractive Effort.
- TM c/o = Traction motor(s) cut out.
- Truck c/o = Truck cut out.

DC Locomotives					
Model	EPA	EDBA	Model	EPA	EDBA
B23-7	4.5	4.2*	GP40-2	5.0	3.9#
B30-7	5.0	4.2*	GP50	6.5	4.1*
B36-7	5.0	4.2	GP60	8.0	5.4
B39-8; B40-8	7.8	5.2	SD38-2	5.4	5.7*#
C40-8; C40-8W	7.8	5.2	SD40-2; SD40N; SD30Eco	7.1	5.9*#
C41-8; C41-8W	10.1	7.9	SD45	7.0	5.9
C44-9; C44-9W	11.5	7.9	SD50	9.2	6.1
ES40DC	10.1	7.9	SD59MX	7.1	8.1
ES44DC	11.5	7.9	SD60; SD60M	9.9	8.1**
SW1500	3.7	0.0	SD70/SD70M	10.4	8.6
MP15	4.0	0.0	SD75	10.3	8.6
GP9	4.0	3.0*#	DDA40X	10.3	8.0
GP15-1	3.9	0.0	E9	3.5	6.2
GP22; GP22Eco	5.1	0.0	SL1 (Slug)	4.0	0.0

GP38; GP38-2	4.5	4.0*#	S4B (Slug)	4.0	0.0
GP39-2	4.5	3.8	S3-2B (Slug)	4.0	0.0
GP40	4.5	4.0*#	S6-1 (Slug)	5.0	0.0

*May not be equipped with dynamic brakes.

May be equipped with standard range dynamic brakes.

** UP 2100, 2156, 2157, 2159-2168, 2170-2214 have 6.0 EDDBA.

Note: Traction motor cut out switches.

- DC locomotive traction motors must not be cut out to meet EPA or EDDBA limitations. Traction motors may be cut out only when they are defective. Locomotives may be isolated/shut down to meet EPA or EDDBA limitations.
- AC Locomotive traction motors 1, 2 & 3 may be cut out to meet EPA or EDDBA limitations, traction motors 4, 5 & 6 may only be cut out when defective.
- A tag must be placed on the lead unit and on the unit having the cut out traction motor stating that the traction motor has been cut out for the purpose of meeting equivalent axle restrictions. This is to ensure subsequent crews are aware that all dynamic brakes on that locomotive are inoperative.

AC Locomotives			
GE Model	Total # of Traction Motor(s) Cut Out	EPA	EDDBA
C44AC; C44/60AC; C44ACCCA	None	12.1	9.8
	1	11.0	8.0
	2	8.0	6.0
	3	6.0	5.0
C44AC (CP)	None	12.1	7.8
	1	11.0	7.0
	2	8.0	5.0
	3	6.0	4.0
C6044AC	None	12.1	11.7
	1	11.0	10.0
	2	8.0	6.0
	3	6.0	6.0
C44ACCTE; C45ACCTE; C45AH; ES44AC** & ES44AH** When in a lead consist or in a remote consist operating in the Full Tractive Effort (FTE) mode	None	12.1	9.8
		11.0*	9.8*
When in a remote consist operating in the Controlled Tractive Effort (CTE)	1	11.0	8.0

mode*	2	8.0	6.0
	3	6.0	5.0
CW60AC	None	12.1	11.7
	1	12.0	10.0
	2	11.0	8.0
	3	8.0	6.0
**Foreign line ES44AC and ES44AH locomotives may not be CTE capable.			
AC Locomotives			
EMD Model	Truck Cut Out	EPA	EDBA
SD70MAC	None	10.4	8.1
	#1	6.0	5.0
SD70ACe; SD70AH *Operating in CTE mode.	None	12.0	10.5
		11.0*	10.5*
	#1	7.0	6.0
	#2	7.0	0.0
SD80MAC	None	13.0	10.0
	#1	7.0	5.0
	#2	7.0	0.0
SD9043AC	None	11.6	9.6
	#1	7.0	5.0
	#2	7.0	0.0
SD9043AC (CP)	None	12.0	9.0
	#1	9.0	5.0
	#2	9.0	0.0

Note:

On AC locomotives, dynamic brakes and wheel slip protection are still operative with either traction motors or a truck cut out. Therefore, cutting out axles or a truck on AC locomotives to meet equivalent axle limitations is not a non-complying condition.

If unable to determine the model of a locomotive or its EPA and EDBA, type =po in the MyUP search bar and select Go. In the tab that opens, enter the unit initials and number, then select submit.

Dynamic Brakes are designated in the report as follows:

A - AC

E - Extended Range (Flat)

F - Extended Range (Tapered)

N - Not Equipped

S - Standard Range (Flat) = #

T - Standard Range(Tapered) = #

X - Disconnected (No Dynamic Brake)

Z - AC with Dynamic Braking to 0 MPH

A unit in the locomotive consist that is not working or bad ordered will have the values in the EA PW and EA DB columns enclosed in parenthesis, e.g., "(12.1)", or displayed as dashes, "---", and will not be calculated in the locomotive totals.

Rule Updated Date

May 2, 2016

[^Top](#)

[Union Pacific Rules](#)

[System Special Instructions](#)

ITEM 5: Car Placement and Train Make-Up Restrictions

- [Item 5-A: Shipments of Excessive Height/Width](#)
- [Item 5-B: System Train Make-Up Requirements](#)
- [Item 5-C: Coupler Limits with Helper\(s\), Helper Placement, and Train Power Balance](#)

Item 5-A: Shipments of Excessive Height/Width

When train length and train make-up requirements permit, position dimensional loads, excess high wide shipments and unusual shipments (including those identified as high value on the consist) that require close attention as close to the engine as possible, but no closer than the sixth car from an occupied engine or caboose when train length permits. When positioning a shipment, each platform/unit/well of a multi-platform/unit/well car is to be considered as one car.

The following must be considered when placing excessive dimension loads, unusual shipments that require close attention or high value loads:

- **Train Make-Up requirements take precedence.**
- Equipment requiring handling on the rear end only.

Excessive Dimension Load

The following classes of equipment will be covered by instructions from a Manager Clearances and/or a track bulletin concerning movement:

- Excessive dimension load.
- or**
- Other unusual shipments that require close attention.

An "**Excessive Dimension Load**" is any load with a width more than 12 feet. At least twelve hours ahead of the train's departure, local managers must notify Train Management of the train in which they would like to place the excessive dimension load. Excessive dimension loads may only be scheduled to the train by Train Management. Upon Train Management's approval, the train dispatcher will issue a wide load notification track bulletin:

- To the train that will handle the excessive dimension load.
- To trains that may meet, pass or be passed by the train handling the excessive dimension load.

If the conductor does not receive a track bulletin covering such shipments, notify the train dispatcher before moving the train.

Dimensional Load

A "**Dimensional Load**" is any load with a width of 11 feet 0 inches to 12 feet 0 inches, inclusive, as shown on the train consist. If the consist includes a dimensional load, the conductor must conduct a job briefing with the train dispatcher before moving the train, reviewing all operating restrictions for their route.

The conductor must notify other crew members of the presence of both excessive dimension loads and dimensional loads before movement of the train.

Speed Restricted Areas

Trains handling dimensional or excessive dimension loads must not exceed 30 mph until load is beyond restricted area. Train dispatcher may authorize normal speed when other trains are not in the area to be met or passed. Restricted areas will be listed in subdivision special instructions.

Special Handling Guidelines for High Wide or High Value Loads

When there are High Wide or High Value Loads in the train that require close attention these shipments must:

Be inspected by a Mechanical representative at time of interchange or release from an industry to ensure loads are properly braced and secured for safe damage-free transportation.

- Be positioned in a train in accordance with system and subdivision special instructions.
- Not remain in a consist during switching operations, except when necessary to properly position the car in train.
- Not be kicked or humped.
- Not have other cars kicked or humped against these loads.
- Have air brake system charged and used when spotting/pulling these loads.
- Be set to a special hold track designated to hold/process such loads at terminals.

The air brake system must be charged and used when spotting/pulling these loads.

At terminals, these loads must be set to a special hold track designated to hold/process such loads.

Rule Updated Date

May 2, 2016

[^Top](#)

Item 5-B: System Train Make-Up Requirements

Train consist information will govern train make-up requirements.

When train consist specifies train type different from train symbol, train will operate as the train type identified on train consist.

Example: QHONL 14 will operate as a bulk train.

TPA and trailing tonnage limits (including tonnage behind entrained helper) shown on train consist must not be exceeded. Tonnage handled by helper(s) must be deducted from total tonnage to determine trailing tonnage behind lead consist.

If an enroute locomotive failure causes the TPA listed on the train consist to be exceeded, train may continue provided maximum TPA for any train category on that route is not exceeded.

If the coupler limit is exceeded, one or a combination of the following may be necessary:

- Road power rearranged (Move units from the lead consist to the helper.)
- Add power to the helper.
- Add additional helper consist.
or
- Reduce Tonnage.

In addition, the lead cars of a manifest train may be equipped with high strength couplers. If the first car behind locomotive is determined to have high strength couplers, the accumulated tonnage of that car and any consecutive cars equipped with high strength couplers may be added to the standard strength coupler limit, not to exceed the high strength limit.

High Strength Couplers

Each car is to be considered equipped with a standard type coupler unless it is known the car is equipped with high strength couplers. Coal cars, covered hopper cars and cars designed to carry TOFC vans and/or containers are equipped with high strength couplers.

If it is not known that a car is equipped with high strength couplers, it can be determined by looking at the coupler casting identification located on top of the coupler. A high strength coupler will have the letter "E", "EA" or "EX" as the last character of identification. Examples of high strength coupler identifications are E60HTE, SBE60CE, SBE60DE, EF512WEX.



If train consist is not available, contact yardmaster or other authority to determine maximum TPA and coupler limits allowed for route to be operated over.

Bulk Commodity Unit Trains

On territories where bulk TPA is higher than manifest TPA, bulk trains operating with more than one DC locomotive must not exceed TPA for manifest trains.

TPA requirements will not apply to loaded bulk commodity unit trains operating with less than 3 locomotives on the following service units and their respective subdivisions:

- North Platte
- Council Bluffs
- Chicago
- Twin Cities

1. Use the table below to determine general responsibility when a train does not meet train make-up requirements.

Train Make-Up Does NOT Meet the Train Make-Up Requirements				
	Notify Train Dispatcher	Notify yardmaster or proper authority	Speed is not to exceed 45 MPH	Correct Condition
Train was received from another railroad.	Yes	Yes, if applicable.	Yes	As directed by the train dispatcher or at the first scheduled work location.
Other trains (i.e. home terminal).	NA	Yes	NA	Train is not to leave terminal until condition corrected.
Placement error is discovered enroute.	Yes	NA	Yes	Correct condition at next available location.

Note: Trains (including trains received from another railroad) must meet train make-up requirements before entering code 'H' territory.

2. Maximum Train Length Restrictions

Maximum Train Length	
Length	Description
8,500 feet	Behind head end consist to head end of DP remote consist.
10,000 feet	Behind head end consist to EOT.

10,000 feet	Trains consisting entirely of single well cars and/or multi well cars listed in Item 2-F, Table C 1, from behind head end consist to head end of DP remote consist.
15,000 feet	Train with entrained EOT repeater. Distance between the repeater and the head or rear end of the train must not exceed 8,500 feet.
18,000 feet	Train with entrained DP remote consists must not exceed 18,000 feet between rear of head end consist and head end of rear DP remote consist. Maximum distance between rear of any consist to the head end of the next remote consist must not exceed 6,000 feet. Note: If train has no rear DP remote consist, the 15,000 foot restriction applies.
80 cars	Loaded trains containing 60 or more multilevel cars (Auto Racks) must not exceed a total of 80 cars, platforms, units or wells. Empty trains must not exceed 10,000 feet.
	Loaded or Empty Military Trains. Exception: Does not apply to military trains consisting entirely of intermodal equipment.

3. Maximum EPA/EDBA

Maximum EPA/EDBA						
Head End & Helper Consist EPA/EDBA Standard System Limits						
Train Type	Maximum EPA			Maximum EDDBA		
	Head end	Cut-in Helper	Rear Helper	Head end	Cut-in Helper	Rear Helper
Intermodal Equipment, only	62	48	24	28	40	28
Manifest Trains	52*	48	24	28	40	28
Empty Bulk Commodity Unit Train (or Loaded with some empty cars)	52*	36	24	33	40	28
Loaded Bulk Commodity Unit Train (no empty cars in train)	52*	55	28	33	40	28

* Limit head end EPA to 36 axles on ascending grades exceeding 1.9% on Bulk and Manifest trains.

Note: When EPA or EDDBA limits are exceeded by less than one whole number, round down to the next whole number.
 Example: 48.4 EPA becomes 48 EPA.

4. Car Placement Restrictions

Note:

The addition of helper(s) may not be used to provide relief from the following car placement restrictions. Any placement errors will be indicated on the 'detailed' train consist. If no errors are indicated, the detailed train consist will govern train make-up and helper placement. Additional car placement restrictions are also listed in Item 5-C. Car definitions are located at the end of Item 5-B.

Car Placement Restrictions	
Trains Total Trailing Tonnage Exceeds 7,000 tons	<p>Rear 1/4 of the train must not weigh more than 1/3 of the total weight (i.e. a 100 car train weighing 9000 tons must not have more than 3000 tons in the rear 25 cars. Round up other than whole numbers; a 102 car train weighing 9002 tons must not have more than 3001 tons in the rear 26 cars).</p> <p>Exception: This does not apply to:</p> <ul style="list-style-type: none"> • Trains made up entirely of cars weighing a minimum of 45 tons each. • Solid loaded or solid empty unit bulk commodity trains. • Trains made up entirely of intermodal equipment.
Trains Total Trailing Tonnage Exceeds 5,500 tons but not more than 12,000 tons	<p>Place cars listed below no closer than the 11th car/platform/unit/well behind the lead consist:</p> <ul style="list-style-type: none"> • Car that is 80 feet or longer and weighs less than 45 tons. • Multi-platform/unit/well cars having one or more empty platforms, units or wells. • Autoracks weighing less than 60 tons, except when train consists entirely of autoracks.
Trains Total Trailing Tonnage Exceeds 12,000 tons	<p>Place cars listed below no closer than the 16th car/platform/unit/well behind the lead consist:</p> <ul style="list-style-type: none"> • Conventional car weighing less than 45 tons. • Car that is 80 feet or longer and weighs less than 45 tons. • Multi-platform/unit/well cars having one or more empty platforms, units, or wells. • Intermodal flatcar 80 feet or longer in length loaded with a single trailer or container. This also applies to two unit, solid drawbar connected, twin flatcars (186 feet in total length) with a single trailer/container on either unit. • Two-unit solid drawbar-connected long cars (P2) if the total weight of the car is less than 120 tons. • Three and four-unit solid drawbar-connected multi-well cars (P3 / P4) with any well weighing less than 45 tons. • Autoracks weighing less than 60 tons, except when train consists entirely of autoracks.

<p>Long Car/Short Car</p>	<p>Do not couple freight cars 80 feet or longer to any car 45 feet or shorter when weight behind the coupling would exceed 3000 tons. However, this does not apply to:</p> <ul style="list-style-type: none"> • A locomotive crane 45 feet or shorter when coupled to a boom idler car 80 feet or longer. • A car listed in the train consist as 80 feet and the consist does not show a train placement error.
<p>Rear End Only Equipment</p> <p>Note: Does not apply to trains consisting entirely of passenger equipment.</p>	<p>Entrain equipment tagged, stenciled, billed or shown on the train consist as "Rear End Only" or "Rear Rider" as rear car of the train unless the mechanical department specifies that it must be the second car from the rear .</p> <p>This also includes the following equipment:</p> <ul style="list-style-type: none"> • Five unit solid drawbar cars (in series CN 677000-677139). • Gondola cars in series AMGX that are solid-drawbar connected. On the train consist, the symbol 2-P on AMGX cars indicates 2 units that are solid drawbar connected. <p>Passenger cars with initials MTDX must be placed in a train immediately ahead of the rear car of the train.</p> <p>When placed in a train with a rear helper, comply with the following:</p> <ul style="list-style-type: none"> • The helper must be placed immediately ahead of this equipment • The helper must be considered a rear helper in regard to restricted car limits. <p>One rear rider car allowed per train except M of W may have a maximum of 2 cars on rear of train.</p>
<p>Heavy-Duty Flat Cars with 8 axles or more</p>	<p>When gross weight of car exceeds 240 tons, at least one empty car must be positioned ahead of and behind the car unless waived by NCSC and Engineering.</p>
<p>Entrained Locomotive(s)</p>	<p>When locomotives are positioned in rear of a train, refer to Rule 31.7.1.</p>
<p>Shoving Platforms</p>	<p>Move shoving platforms (caboose), only at the rear of the train. However, this requirement does not apply when handling less than 20 cars and not exceeding 2500 tons.</p> <p>Any helper must be placed ahead of this equipment.</p>
<p>Helper Restriction</p>	<p>When helper is located to pull less than 1/2 the tonnage handled by the helper, the helper must be considered a rear end helper in regard to restricted car limits.</p>

5. The following train makeup restrictions apply west of Cheyenne, Denver and El Paso.

The tonnage behind the car must not exceed the listed tonnage.

Maximum Tonnage Behind Car		
Type of Car	Maximum Tonnage	
	Behind Car - 4500 Tons	Behind Car - 5500 Tons
Multiplatform Spine Car	One or more empty platforms	All platforms loaded
Multi-platform/well cars; Solid Drawbar Connected Multi-unit/well Cars; Single Unit Well Cars	One or more empty wells	
Two-unit Solid Drawbar Connected Long Car	One or more empty units	
Solid Drawbar Connected Multi-Well Car	Any well weighing less than 30 tons.	

6. Train Make-up and Helper Requirements

a. The following cars must not be entrained within any restricted car limits:

- Multi-platform/unit/well cars having one or more empty platforms, units or wells.
- Autoracks weighing less than 60 tons, except when train consists entirely of autoracks.
- Conventional car which weighs less than 45 tons. Does not apply to empty bulk commodity unit trains.
- Intermodal flatcar 80 feet or longer in length loaded with a single trailer or container. This also applies to two unit, solid drawbar connected, twin flatcars (186 feet in total length) with a single trailer/container on either unit.
- Car 45 feet or less coupled to a car 80 feet or longer regardless of weight (does not apply to multi-unit equipment unless individual units are 80 feet or longer).
- Two-unit solid drawbar-connected long cars (P2) if the total weight of the car is less than 120 tons.
- Three and four-unit solid drawbar-connected multi-well cars (P3 / P4) with any platform weighing less than 45 tons.
- Five-platform spine car with total car weight less than 175 tons.
- Three-platform spine car with total car weight less than 105 tons.

b. Restricted equipment above in part 'a' must be properly placed in the train. Use the tables below to determine proper placement. These restrictions are in addition to system train make-up requirements and car placement restrictions in Part 4.

Restricted Car Placement Behind Consist	
"L" Territories	
Tonnage behind lead locomotive consist and any entrained consist is:	Place restricted equipment no closer behind lead or helper consist than the:
5500 to 12000 tons	11th Car/Platform/Unit/Well
12001 tons and greater	16th Car/Platform/Unit/Well

'H' territories	
Tonnage behind lead locomotive consist and any entrained consist is:	Place restricted equipment no closer behind lead or helper consist than the:
3500 to 4000 tons	6th Car/Platform/Unit/Well
4001 to 4500 tons	11th Car/Platform/Unit/Well
4501 tons and greater	16th Car/Platform/Unit/Well

Restricted Car Placement Ahead of Consist	
Other than 'H' territories	
If cut-in helper EPA is:	Place restricted equipment no closer ahead of helper than the:
20 or Less	No Restriction
21 to 34	6th Car/Platform/Unit/Well
35 to 48	11th Car/Platform/Unit/Well
If rear helper EPA is:	Place restricted equipment no closer ahead of helper than the:
10 or Less	No Restriction
11 to 20	6th Car/Platform/Unit/Well Exception: Conventional car which weighs less than 45 tons does not apply.
21 to 24	11th Car/Platform/Unit/Well
"H" territories	
If cut-in helper EPA is:	Place restricted equipment no closer ahead of helper than the:
20 or Less	No Restriction
21 to 28	6th Car/Platform/Unit/Well
29 to 36	11th Car/Platform/Unit/Well
37 to 48	16th Car/Platform/Unit/Well
If rear helper EPA is:	Place restricted equipment no closer ahead of helper than the:
10 or Less	No Restriction
11 to 14	6th Car/Platform/Unit/Well Exception: Conventional car which weighs less than 45 tons does not apply.
15 to 19	11th Car/Platform/Unit/Well
20 to 24	16th Car/Platform/Unit/Well

Equipment Definitions:

Spine Car: Multi-platform articulated car.

Well Car: Multi-well articulated car, solid drawbar connected well car, or single well car.

Multi-unit Car: Multi-units permanently connected with solid drawbars. Units can be flat cars or wells.

Conventional: A car such as a gondola, hopper, intermodal flat car, box car, bulkhead flat car or single well car.

Rule Updated Date

May 2, 2016

[^Top](#)

Item 5-C: Coupler Limits with Helper(s), Helper Placement, and Train Power Balance

Trains that exceed the coupler limits for a territory must have locomotive(s) placed within or behind the trailing tonnage to avoid exceeding the designated coupler limit. When helper(s) will be cut-in, it is necessary to determine the proper balance between the lead power and the helper(s) for safe train operations.

The maximum number of Distributed Power remote consists is four.

Example:

'A Consist (Head End) - B Consist - C Consist - D Consist - E Consist (Rear Remote)'

Follow these steps to determine the correct helper placement, power balance and trailing tonnage for helper consists:

Step 1: Determine Total EPA: Add the EPA of the lead consist and all helper power together.

Use only the EPA that will actually be used on each locomotive:

$$EPA \text{ lead consist} + EPA \text{ helper consist(s)} = Total \text{ EPA}$$

Step 2: Calculate the TPA: Divide the total tonnage of the train by the total EPA:

$$Total \text{ Train Tonnage} \div Total \text{ EPA} = TPA$$

Note: When calculating TPA, use the actual EPA number, do not round off. When the resulting TPA is not a whole number round up to the next whole number.

Step 3: Determine placement of a cut-in helper:

When a helper is used, locomotives should be arranged to reduce tonnage handled by a single consist (i.e., use a 2 x 2 configuration rather than 3 x 1 when possible). When practicable, helper should not be cut-in unless

distance behind head end consist and head end of DP remote consist will exceed 8,500 feet.

To determine the tonnage the helper must be placed ahead of, use one of the following formulas, 3-A, 3-B or 3-C, as applicable.

Place helper as close to the calculated position as possible.

A helper may be moved up to 5 cars/platforms/units/wells ahead of or behind the calculated position to comply with restricted car requirements in Item 5-B Part 6 'Train Make-up and Helper Requirements' or Form 8620 Hazardous Materials Placement in Train requirements.

3-A: Single cut-in helper without rear helper:

$$TPA \times \frac{1}{2} \text{ helper EPA} = \text{tonnage to be placed behind cut-in helper}$$

Exception:

Trains with cut-in helper of 24 EPA or less are not required to use placement formula provided the cut-in helper:

- Is located within the rear 50% of the train's trailing tonnage.
- Complies with restricted car requirements and hazardous materials placement requirements.
- Is located within 8,500 feet of the head end consist.

3-B: Single cut-in helper + rear helper:

$$(\frac{1}{2} \text{ EPA cut-in helper} + \text{rear EPA}) \times TPA = \text{tonnage to be placed behind cut-in helper}$$

Exception:

Trains with cut-in helper of 24 EPA or less may be located at other than the calculated position provided the cut-in helper:

- Is located within the tonnage it is calculated to handle.
- Complies with restricted car and hazardous materials placement requirements.
- Complies with coupler limits.

To determine the tonnage range where the cut-in helper may be placed:

- 1) Determine calculated position of cut-in helper using the formula in step 3-B above.

$$(\frac{1}{2} \text{ EPA cut-in helper} + \text{rear EPA}) \times TPA = \text{tonnage to be placed behind cut-in helper}$$

- 2) Determine tons cut-in helper may be moved ahead of or behind the calculated position:

$$\frac{1}{2} \text{ EPA cut-in helper} \times TPA = \text{Tons cut-in helper may be moved from calculated position}$$

Example: 18,000 ton train is operating with lead consist of 36 EPA, single cut-in helper with 24 EPA and a rear helper with 24 EPA (total EPA of train is 84 EPA). The TPA is 215 and, using the formula in step 3-B above, the

calculated position of the cut-in helper is ahead of 7,740 tons. ½ EPA of the cut-in helper is 12.

$$12 \times 215 = 2,580 \text{ tons}$$

Cut-in helper may be moved 2,580 tons ahead of or behind the calculated position.

3-C: Two or more cut-in helpers:

- **Without rear helper:**

Start at the rear of the train and multiply the TPA by ½ the EPA of the first cut-in helper.

$$TPA \times \frac{1}{2} \text{ helper EPA of first cut-in helper} = \text{tonnage to be placed behind first cut-in helper}$$

- **With rear helper:**

Start at the rear of the train and add ½ the EPA of the first cut-in helper to EPA of the rear helper.
Multiply this figure by the TPA.

$$(\frac{1}{2} \text{ EPA of first cut-in helper} + \text{rear helper EPA}) \times TPA = \text{tonnage to be placed behind first cut-in helper}$$

For each additional cut-in helper the following applies. Add ½ the EPA of the next helper to the total EPA of all previous helper consists.

Multiply this figure by the TPA.

$$(\frac{1}{2} \text{ EPA of next helper to be cut-in} + \text{EPA of all previous helper consists}) \times TPA = \text{tonnage to be placed behind the helper consist being cut-in}$$

Step 4: Determine that trailing tonnage handled by each consist is less than the coupler limits, by using the formulas below.

- **Tonnage pulled by Lead Consist:**

Multiply the EPA of lead consist by the TPA. This figure must be less than the coupler limit for the territory.
Applies to trains with cut-in helper(s), (with or without rear helper), and trains with rear only help.

$$\text{EPA of lead consist} \times TPA = \text{tonnage pulled by lead consist}$$

(Must be less than coupler limit)

- **Tonnage pulled behind cut-in helper:**

Multiply ½ the EPA of the helper by the TPA. This number must be less than the coupler limit for the territory.

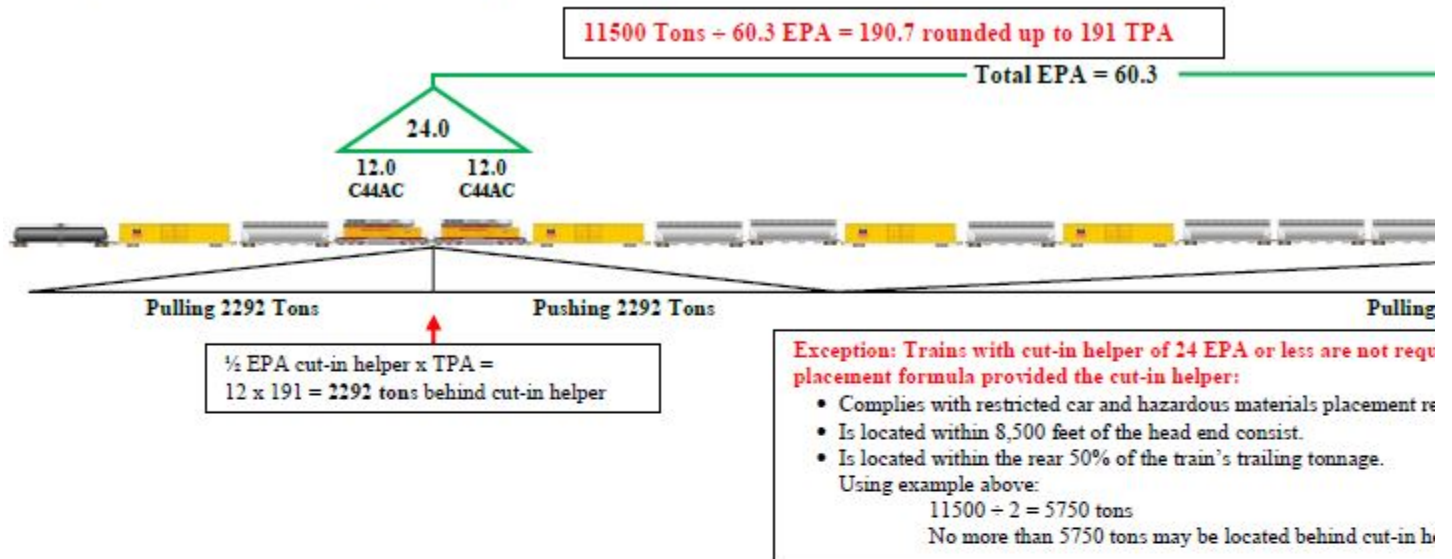
$$\frac{1}{2} \text{ EPA of helper} \times TPA = \text{tonnage pulled by helper consist}$$

(Must be less than coupler limit)

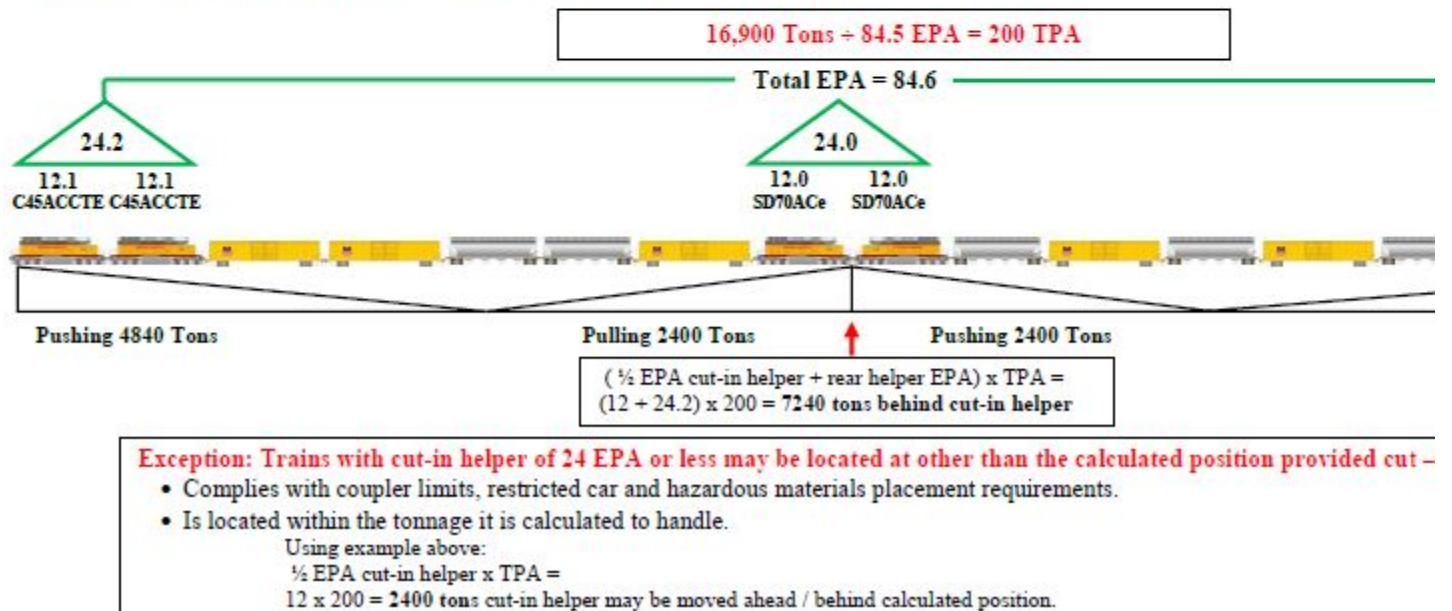
See following page for examples of trains with two or more cut-in helpers.

Example: Item 5-C, Step 3-C: Two or more cut-in helpers - Without rear helper

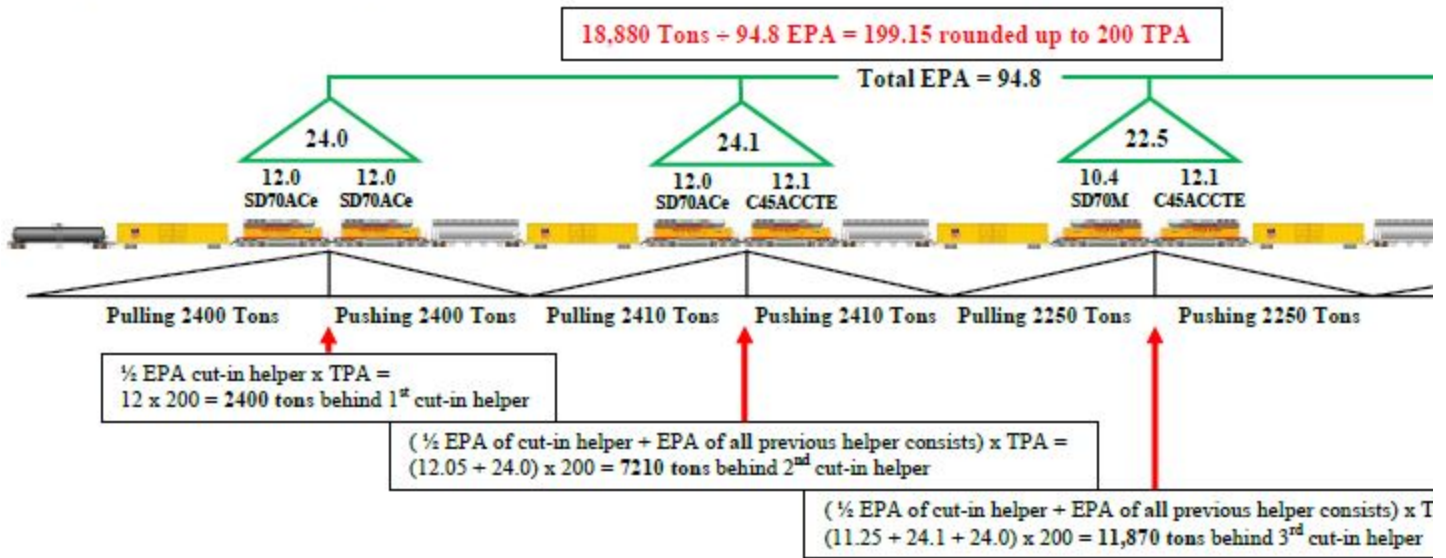
Example: Item 5-C, Step 3-A: Single cut-in helper without rear helper



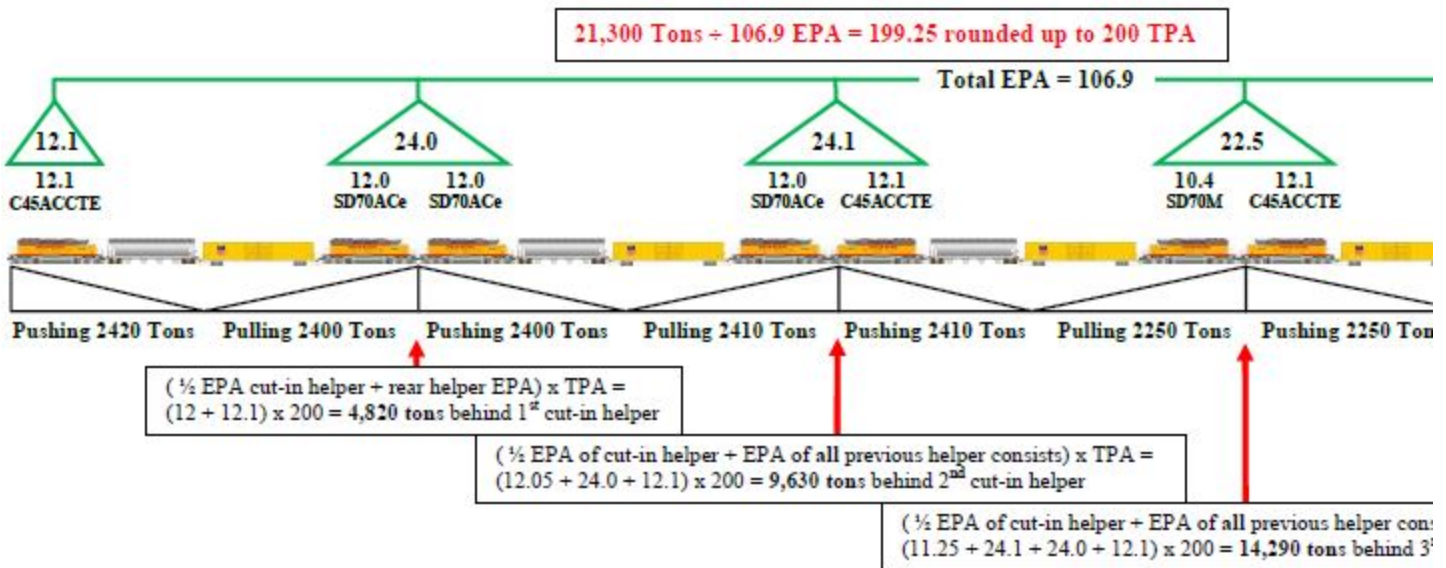
Example: Item 5-C, Step 3-B: Single cut-in helper + rear helper



Example: Item 5-C, Step 3-C: Two or more cut-in helpers - Without rear helper



Example: Item 5-C, Step 3-C: Two or more cut-in helpers - With rear helper



Rule Updated Date

May 2, 2016

[^Top](#)

[Union Pacific Rules](#)

[System Special Instructions](#)

ITEM 6: Maximum Gross Weight Limitations

- [Item 6: Maximum Gross Weight Limitations](#)

Item 6: Maximum Gross Weight Limitations

Maximum gross weight restrictions are shown in Timetable Item SI-12 for Subdivisions or SI-11 for Industrial Leads. They will indicate a maximum gross weight for a four-axle car with a coupled length of 53 feet 1 inch or longer and two letter restrictions (A through G and N through T).

Maximum gross weight for cars shorter than 53 feet 1 inch, articulated intermodal cars, six-axle cars, or eight-axle cars can be obtained from the Car Weight Restriction Table by referencing the car length, axle count, and letter restriction.

The gross weight of a four-axle car may not exceed the most restrictive case of either:

- maximum gross weight based on journal size or other mechanical considerations, or
- maximum gross weight for subdivision (SI-12) or industrial lead (SI-11), or
- maximum gross weight for car length and letter restriction from the Car Weight Restriction Table.

Examples:

SI-12 for Subdivision XXX states '143 Tons, Restrictions C and R.'

- For a four axle car 53'-1' long, the table indicates 158 Tons (row 11, column C). However, the car weight is restricted to 143 Tons by SI-12 maximum gross weight.
- For a four axle car 41'-11' long, the table indicates 139 Tons (row 4, column C). The car weight is restricted to 139 Tons.
- For an eight-axle car 74'-10' long, the table indicates 190 Tons (row 19, column R). The car weight is restricted to 190 Tons.

1. Cars Exceeding Authorized Weights

Cars that do not meet the specified weight limits and cars having more than eight axles are not permitted without specific authority of the Clearance Bureau in the National Customer Service Center.

2. Six-Axle Locomotives

Do not operate six-axle locomotives on subdivisions or industrial leads where the maximum gross weight limitation is less than 120 Tons.

3. **Cranes and Pile Drivers**

Do not operate relief outfit cranes, locomotive cranes, cranes, or pile drivers on subdivisions or industrial leads where the maximum gross weight limitation is less than 132 Tons.

4. **Multiplatform Cars**

Multiplatform cars are identified on the TCS train consist as either 'articulated' or 'solid drawbar connected.' Weights and lengths are given for each individual platform.

To determine maximum allowable gross weight

- For a solid drawbar connected car, treat each platform as a separate car and refer to the SI-11 or SI-12 restriction and the Car Weight Restriction Table.
- For an articulated car, refer to row 12 of the Car Weight Restriction Table. The maximum weight shown applies to the sum of the weights of any two adjacent platforms in the same car.

5. **Modifications**

Changes to maximum gross weight restrictions in Timetable Items SI-11 and SI-12 must be submitted to the Manager Operating Rules and approved by the Director Structures Design.

Car Weight Restriction Table

4-Axle and Intermodal Cars			Maximum Weight of Car (Tons) Based on Car Restrictions A-G. Applicable to either single car or multiple car movements. If weight in this table exceeds weight listed in Timetable SI-11 or SI-12, lesser weight in SI-11 or SI-12 controls. Car lengths per UMLER reporting rules, with fractional inches rounded to the higher inch. For example, 48'-8½" => 48'-9". NP denotes that the car may not be moved without specific authority of the Clearance Bureau. *For articulated intermodal cars, weight shown is the sum of the weights of any two adjacent platforms in the same car.							
			3.67 T/ft	3.41 T/ft	3.32 T/ft	3.13 T/ft	3.04 T/ft	2.97 T/ft	2.75 T/ft	
Row	No. Axles	Range of Car Lengths	A	B	C	D	E	F	G	
1	4	less than or equal to 34'-11"	NP	NP	NP	NP	NP	NP	NP	
2	4	35'-0" to 38'-10"	129	119	116	109	106	104	96	
3	4	38'-11" to 41'-10"	143	133	129	122	118	115	107	
4	4	41'-11" to 43'-0"	154	143	139	131	128	124	115	
5	4	43'-1" to 45'-8"	158	147	143	135	131	128	118	
6	4	45'-9" to 46'-11"	158	156	152	143	139	136	126	
7	4	47'-0" to 48'-8"	158	158	156	147	143	139	129	
8	4	48'-9" to 50'-0"	158	158	158	152	148	145	134	
9	4	50'-1" to 50'-11"	158	158	158	157	152	149	138	
10	4	51'-0" to 53'-0"	158	158	158	158	155	151	140	
11	4	53'-1" or greater	158	158	158	158	158	158	146	
12	Varies	Articulated Intermodal	158T or 143T Route	158*	158*	158*	158*	158*	158*	146*
			134T Route	134*	134*	134*	134*	134*	134*	124*
6-Axle and 8-Axle Cars			Maximum Weight of Car (Tons) Based on Car Restrictions N-T. Applicable to either single car or multiple car movements. Car lengths per UMLER reporting rules, with fractional inches rounded to the higher inch. For example, 61'-1½" => 61'-2". NP denotes that the car may not be moved without specific authority of the Clearance Bureau.							
Row	No. Axles	Range of Car Lengths	N	O	P	Q	R	S	T	
13	6	less than or equal to 61'-1"	NP	NP	NP	NP	NP	NP	NP	
16	6	61'-2" or greater	188	188	180	171	171	160	NP	
17	8	less than or equal to 64'-0"	NP	NP	NP	NP	NP	NP	NP	
18	8	64'-1" to 73'-3"	209	200	186	190	180	178	NP	
19	8	73'-4" to 84'-9"	222	212	193	201	190	189	NP	
21	8	84'-10" or greater	228	218	196	207	195	194	NP	

Rule Updated Date

May 2, 2016

[^Top](#)

[Union Pacific Rules](#)

[System Special Instructions](#)

ITEM 7: Employee Information

- [Item 7-A: Reference Documents](#)
- [Item 7-B: Qualifications of Certified Employees](#)

Item 7-A: Reference Documents

Employees must provide themselves with their own copy of the following and have them available for reference:

- This UPRR System Special Instructions document, which supersedes all previous System Special Instructions.
- Current applicable area timetable(s) for territories upon which operating.
 - Chicago Area Timetable #5, effective 0900C on 10/13/2014.
 - Council Bluffs Area Timetable #4, effective 0900C on 02/14/2011.
 - Dallas/Ft. Worth Area Timetable #5, effective 0900C on 09/28/2015.
 - Denver Area Timetable #5, effective 0900C on 09/28/2015.
 - Houston Area Timetable #6, effective 0900C on 01/26/2015.
 - Iowa Area Timetable #4, effective 0900C on 10/10/2011.
 - Kansas City Area Timetable #4, effective 0900C on 2/28/2011.
 - Livonia Area Timetable #1, effective 0900C on 01/26/2015.
 - Los Angeles Area Timetable #5, effective 0900C on 10/28/2013.
 - North Little Rock Area Timetable # 5, effective 0900C on 07/09/2012.
 - North Platte Area Timetable #4, effective 0900C on 03/19/2012.
 - Portland Area Timetable #6, effective 0900C on 10/13/2014.
 - Roseville Area Timetable #6, effective 0900C on 10/22/2012.
 - Salina Area Timetable #5, effective 0900C on 12/16/2013.
 - Salt Lake City Area Timetable #5, effective 0900C on 12/07/2015.
 - San Antonio Area Timetable #5, effective 0900C on 03/25/2013.
 - St. Louis Area Timetable #5, effective 0900C on 05/27/2013.
 - Sunset Area Timetable #4, effective 0900C on 04/14/2014.
 - Twin Cities Area Timetable #4, effective 0900C on 11/14/2011.
- Subdivision general order for each subdivision operating on. There is one general order in effect for each subdivision.
- Current system general orders.

Note: There are 10 system general orders in effect at any given time that employees are required to have. System general orders are categorized as follows:

SSI 1 – 3 (1 Time Comparison; 2 Speed Restrictions and 3 Trains Handling - Company Equipment)

SSI 4 - 5-C (4 Locomotive Information and 5 Car Placement and Train Make-up Restrictions)

SSI 6 - 9 (6 Maximum Gross Weight Limitations; 7 Employee Information; 8 Heavy and Mountain Grade Operations and 9 Use of Engine Horns)

SSI 10 - 10-B (10-A General Code of Operating Rules and 10-B (Reserved))

SSI 10-C - 10-D (10-C Air Brake & Train Handling Rules and 10-D Maintenance of Way Rules)

SSI 10-E - 10-G (10-E Safety Rules; 10-F Inspecting, Welding and Grinding of Rail and Track Components and 10-G Chief Engineer Instruction Bulletins)

SSI 10-H - 10-M (10-H Hazardous Materials Instructions; 10-I Programs & Policies; 10-J Commuter Train Operations; 10-K Main Track Switches; 10-L Additional Equipment Securement Requirements; and 10-M Mechanical Department.)

SSI 11 - 17 (11 Moveable Point Frogs; 12 Track Breach Protection; 13 Train Defect Detectors; 14 Operating With Foreign Railroads; 15 Work Orders; 16 Tornado Watch and Warning Instructions and 17 Accessing General Orders and Bulletins Electronically)

SSI 18 – 22 (18 Distant Signals; 19 Block and Interlocking Signals; 20 Automatic Cab Signals; 21 Slide Warning Indicator and 22 Roadway Signs)

SSI 23 – 24 (23 Security Alert Instructions and 24 California Proposition 65 Warning)

- All rule books must contain the current rules and the latest revised chapters/pages in the proper page sequence. The required rule chapters for each employee work group are listed below. All employees must have a current copy of and comply with the rules corresponding to one of these work groups. If you have responsibilities that require rules in addition to those listed for your work group, contact your supervisor.

Transportation (TE&Y)

1-17, Glossary, Index; 30-39, Glossary; 70-83; Glossary, Index.

Engineering and Communications

1-9, 14 & 15, Glossary, Index; 40-57, Glossary, Index; 70-83; Glossary, Index; Electrical Safety Rules.

Maintenance Operations (Mechanical)

1-9, 14-17, Glossary, Index; 30-39, Glossary; 42; 70-83; Glossary, Index; Electrical Safety Rules.

Clerical/General Office

1-5, Glossary, Index; 70-83; Glossary, Index.

Managers and Train Dispatchers

All chapters.

Current version:

- Chapters 1 through 17, effective 04/2015.
- Chapters 20 through 27 effective 08/2008.
- Chapters 30 through 39, effective 05/02/16.
- Chapters 40 through 57, effective 05/02/16.
- Chapters 70 through 83, effective 07/02/13.
- Instructions for Handling Hazardous Materials, Form 8620, effective July 2, 2013. Required for all employees examined on the General Code of Operating Rules. Conductors who transport hazardous materials must also have a copy of the current Emergency Response Guidebook (ERG) (2016) readily accessible while on duty.

- Track Welding Rules and Procedures for Inspecting, Welding, and Grinding of Rail and Track Components, effective 05/02/2016 required for track supervisors, section foremen, and track welders, grinders, and slotters.
- Electrical Safety Rules, effective July 1, 2010,
Required for Maintenance Operations, Engineering & Communications.
- Chief Engineer Instruction Bulletins effective 05/02/2016 required for all examined Engineering Department employees and Transportation Department managers.
- UPRR photo identification card (National Badge). Each National Badge expires after 6 years. If your National Badge is expired, contact your manager to get a new photo taken as soon as possible. The National Badge must be kept current whether the employee has a certification or not. A separate UP photo ID will not be required to be in their possession if the employee has a photo on their FRA certificate.
- A valid "FRA Certificate" card, if applicable, regardless of the type of service the employee is called to perform, must be in the employee's possession while on duty. Each FRA Certificate must have your photo on it to be valid. If you are issued an FRA certificate with no photo, contact your manager to get a new photo taken as soon as possible. Within 10 days after taking photo notify EC&L at 544-CERT. Restrictions listed on certificate must be complied with as required. Certified employees who wear contact lenses must have a pair of corrective glasses available while on duty.

Electronic Versions

Access and use of approved electronic media must be restricted in accordance with Rule 2.21 Electronic Devices.

Employees may utilize electronic media (Laptop, Tablet, Smartphone etc.) to access the approved electronic versions from the UP Website in lieu of printed copies. Follow these instructions to download rules or documents specified in SSI Item 7-A from the employee website:

1. Select **Departments**.
2. Under **Operating**, select **Operations Support**.
3. Under **Rules**, select **UP Rule Book**.
4. Follow instructions for desired download.

Also refer to **Item 17** for additional electronic files and instructions.

Employees must be able to access the electronic versions in a timely manner. This does not relieve employees from having the most current required revisions. Electronic versions must be capable of displaying information as intended, and Timetables and Form 8620 must be displayed in color.

When using electronic devices, the UPRR General Code version applies only when operating on UPRR trackage. UPRR crews operating on foreign lines must use the BASIC General Code of Operating Rules.

Rule Updated Date

May 2, 2016

[^Top](#)

Item 7-B: Qualifications of Certified Employees

A. Locomotive Engineers

Qualification is determined by a Designated Supervisor of Locomotive Engineers (DSLE) before the locomotive engineer is allowed to operate without direct on-board supervision. Depending on individual case-by-case circumstances, a DSLE may provide notice of qualification after a ride, face-to-face discussion, telephone conversation, or electronic notification with the locomotive engineer. However, if the locomotive engineer disagrees with the decision that he or she is qualified, a DSLE must ride with the locomotive engineer before qualification. The ride must be of sufficient duration over the most demanding portion of the territory to ensure proficiency.

1. Initial Familiarization

Prior to being qualified on a main track territory upon which the employee has never operated in the capacity of a locomotive engineer, he or she must make familiarization trips over the entire territory. The average number of familiarization trips necessary for qualification will be determined jointly by the Director Road Operations and DSLE responsible for that location. The average number of trips necessary is based on qualifying the typical locomotive engineer. Prior experience will be taken into account in determining the number of required trips. Certain non-mainline territories, i.e. industrial leads, have such generic and undemanding characteristics that familiarization with similar or more challenging territories may be used in-lieu of trip(s).

2. Maintaining Locomotive Engineer Proficiency

An engineer who has not worked any road trips in the past 12 months on territories in which the locomotive engineer was previously qualified must notify his/her DSLE.

When CMS calls an engineer to work a road trip for skills proficiency, a DSLE or a qualified engineer familiar with the territory will accompany the engineer. To the extent practicable, the DSLE will conduct an annual monitored ride during the trip pursuant to the FRA engineer certification requirements for engineers who do not normally work road trips.

3. Route Familiarization

Route familiarization is required in order to perform service as a certified locomotive engineer without the assistance of a pilot. After initial qualification on a specific route by completing the required familiarization plan specified by the DSLE, route familiarization is maintained by observing the route when performing service in any capacity (engineer or trainman) every 12 months. Other methods of maintaining route familiarization may also be specified by a DSLE.

Locomotive engineers are responsible for maintaining territory familiarization on the routes in their respective seniority districts.

Exception: Route familiarization as outlined above on the heavy and/or mountain grades of subdivisions listed in the following table, in any capacity, is required every 5 months.

In addition to the twelve month requirements, engineers subject to call on the following territories who have not worked both directions in the past five months must notify their manager. When notified, the manager will discuss the familiarization requirements to determine if familiarization trips are needed. An engineer who has not worked **both** directions during the preceding six months must notify CMS and their manager of this fact. Unless otherwise instructed by the DSLE assigned to the territory in question, the engineer is prohibited from operating the train unless accompanied by a DSLE or a qualified engineer familiar with the territory.

Subdivision	Between	Subdivision	Between
Los Angeles	Yermo and W. Riverside	Montana	Monida and Waco, Apex and Silver Bow
Cima	Cima and Kelso	Greeley	Lasalle and Cheyenne
Caliente	Crestline and Las Vegas	Green River	Grand Junction and Helper
Huntington	LaGrande and Huntington	Provo	Helper and Salt Lake
LaGrande	LaGrande and Hinkle	Lakeside	Ogden and Alazon
Canyon	Portola and Oroville	Evanston	Wahsatch and Echo
Brooklyn	Eugene and Oakridge	Tennessee Pass	Minturn and Dotsero
Valley	Dunsmuir and Redding	Laramie	Sherman and Cheyenne
Cascade	Oakridge and Klamath Falls	Colorado Springs	Denver and Colorado Springs
Black Butte	Klamath Falls and Dunsmuir	Mojave	Bakersfield and West Colton
Roseville	Roseville and Sparks	Yuma	West Colton and Indio
Moffat Tunnel	Denver and Tabernash Bond and Crater	SCRRA	Palmdale and Burbank Jct
Craig	Phippsburg and Craig	Coast	San Luis Obispo and Santa Margarita

4. Cut back engineers and engineers recalled to engine service or hostling positions

a. Many promoted engineers retain seniority rights as brakemen and/or conductors. Due to changes in work force requirements, some of these engineers may be cut back to brakeman or conductor assignments. When this occurs, these individuals may be permitted to operate the locomotive under the provisions of Rule 1.47 B. 1. if:

- Such activity does not interfere with their assigned duties.
- They have the consent of the working engineer of the crew.

Locations are not limited to territories where the employee was previously qualified. Only an engineer holding a valid Form 20106, Union Pacific Railroad FRA Certificate, is allowed to operate a locomotive or train. Seniority restrictions placed on an employee while an engineer remain in effect. A disqualified engineer must not operate a locomotive.

b. Cut back brakemen or conductors who have not worked as a locomotive engineer within the past 6 months must notify their DSLE and CMS of this fact. The DSLE may require the employee to make trips over a subdivision to maintain proficiency as an engineer.

c. During the first 12 months following completion of the engineer training program, an employee who has not worked any road trips as an engineer in the past 30 days, if called to work as a road engineer, must not accept the call unless so instructed by the DSLE. The DSLE will also determine what, if any, additional familiarization trips or training may be needed following any period in cut back or furloughed status within that 12 month period.

5. Recertification

Employees requiring recertification packets are to print the necessary forms from the Certification area of the TE&Y portal. Instructions on printing the documents for TE&Y employees are issued in service unit superintendent's bulletin.

150 days prior to the certification expiration date an item will be available on the Certification area of the TE&Y portal allowing the packet to be printed using a local printer. Initially it will only be available for employees who are certified and must complete required documents for recertification. Employees are required to follow the instructions contained in the packet and complete all required forms along with instructions for obtaining hearing and/or vision exams. All required items must be completed promptly, but no less than 60 days in advance of the certificate expiration date. All certified (licensed) employees must be re-certified (licensed) every three years. FRA Certificates will expire on the employee's birthday, every third year, after being initially certified. If the re-certification item is not available on the TE&Y portal, contact the licensing group at 544-2378 (area code 402).

Note: If you are unable to print the necessary forms, please consult your immediate supervisor for assistance. A separate UP photo ID will not be required if the employee has a photo on their FRA certificate.

B. Remote Control Operators (RCO)

1. Qualification

Qualification is determined by a Designated Supervisor of Remote Control Operations (DSRCO) before the RCO is allowed to operate without direct supervision. Depending on individual case-by-case circumstances, a DSRCO may provide notice of qualification after a ride, face-to-face discussion, telephone conversation, or electronic notification with the RCO. However, if RCO disagrees with the decision that he or she is qualified, a DSRCO must ride with the RCO before qualification.

2. RCO position not worked in the previous 6 months

A Remote Control Operator who has not worked as a RCO in the previous 6 months must notify a service unit manager:

- Before being placed on a board that requires the employee to work a RCO position.
- If called to work a RCO position.

Employees must also inform the manager if their skill as an RCO has been evaluated in the past 12 months. The manager will determine if the employee needs familiarization after a discussion with the employee.

3. Remote Control Operators on selected jobs

The service unit will list jobs that require additional training and familiarization. Additional air brake and train/train dynamics training may be required for these jobs. The RCO is responsible for notifying a manager when placing himself or herself on a position or when force assigned to a position listed. The lead DSRCO will determine what, if any, training and familiarization is required. Remote control operators must not exceed the limits of their qualification and must inform the manager of limits, if requested to exceed qualification.

C. Conductors

1. Initial Certification

Train and engine service employees hired on or before December 1, 2012, are "grandfathered" as certified conductors and are fully qualified to perform conductor service under federal regulation. Grandfathered conductors will be evaluated and tested for re-certification (licensing) purposes no later than June 1, 2015.

Train service employees hired after December 1, 2012, must pass all proficiency, knowledge, and territory familiarization training and testing required by law and the Company's Conductor Certification Program to work as a certified, fully qualified conductor.

2. Territory Familiarization on Main Track

Conductors are responsible for maintaining territory familiarization on the routes in their respective seniority districts.

Each person who is called to perform service as a certified conductor must meet the territory familiarization requirements on the pertinent segment(s) of main track where they work. Route familiarization is maintained by observing the route when performing service in any capacity (engineer or trainman). Training trip(s) may be required if territory familiarization has expired and can include the use of technology and/or job aids. Employees must pass a territorial examination covering the operating conditions of main track territory where they have never operated, and for territory not traversed for a period of twenty-four (24) months or longer prior to working over that territory. Conductors must notify CMS and their assigned manager if they do not meet these territorial familiarization requirements prior to protecting service.

Exception: A pilot is not required if a conductor is working on a section of track with an average grade of less than 1% over 3 continuous miles, and any one of the following applies:

- The maximum distance the locomotive or train will be operated does not exceed one mile.
- The maximum authorized speed for any operation on the track does not exceed 20 miles per hour.
- Operations are conducted under operating rules that require every locomotive or train to proceed at a speed that permits stopping within one-half the range of vision of the locomotive engineer.

3. Territory familiarization on other than main track

If a conductor has never worked on a segment of track or has not been over that track for a period of twenty-four (24) months or longer, the conductor will be:

- Accompanied by a qualified employee who meets the territorial requirements where practicable.
- Provided an appropriate job aid or
- Receive a detailed job briefing from an employee familiar with the territory.

D. Recertification (All Classes of Services)

Employees requiring recertification packets are to print the necessary forms from the Certification area of the TE&Y portal. Instructions on printing the documents for TE&Y employees are issued in service unit superintendent's bulletin.

150 days prior to the certification expiration date an item will be available on the "Certification" link of the TE&Y portal allowing the packet to be printed using a local printer. The packet will only be available for employees who are certified and must complete required documents for recertification. Employees are required to follow the instructions contained in the packet and complete all required forms as well as follow the instructions for obtaining hearing and/or vision exams. All required items must be completed promptly, but not less than **60 days in advance of the certificate expiration date**. All certified (licensed) employees must be re-certified (licensed) every three years. FRA Certificates will expire on the employee's birthday, every third year, after initial certification. If the re-certification information is not available on the TE&Y portal, contact the

licensing group at 402-544-2378.

Note: If you are unable to print the necessary forms, please consult your immediate supervisor for assistance. A separate UP photo ID will not be required if the employee has a photo on their FRA certificate.

All certified employees must maintain a valid, unexpired certificate. Failure to do so may result in an interruption in service. It is the individual employee's responsibility to ensure that certification does not expire.

It is the individual employee's responsibility to ensure availability to perform service by maintaining valid certification(s). Employees must carry an unexpired FRA Certificate for freight and/or passenger service while on duty.

Employees who are certified for multiple TE&Y classes of service will be issued one certificate listing each class of service the employee is qualified to perform. In order to maintain multiple classes of service, employees will be required to satisfy all proficiency testing and regulatory recertification requirements on a periodic basis (i.e., hearing, vision, motor vehicle, certification ride, etc.). Multiple certificates will all have the same expiration date.

Recertification is required within three years of the expiration date listed on the employee's FRA Certificate. Employees will have access to recertification instructions via the certification link in TE&Y portal 150 days prior to the expiration date on his/her license. If the re-certification item is not available on the TE&Y portal, contact the licensing group at 402-544-2378.

All requirements must be completed promptly, but no less than 60 days prior to the expiration of the certification.

E. Familiarization and Pilot Authorization

All certified TE&Y employees who bid, place, or are forced to a new assignment must contact a manager to arrange for completion of any necessary company or regulatory familiarization requirements prior to working the new assignment if :

1. They have never worked the territory
or
2. Their territory familiarization or territory exam for that assignment has expired.

The TE&Y employee must contact a service unit manager to authorize the use of a qualified pilot in advance of call or reporting for the assignment. Failure to comply with these instructions may subject the employee to discipline.

Rule Updated Date

May 2, 2016

[^Top](#)

[Union Pacific Rules](#)

[System Special Instructions](#)

ITEM 8: Heavy and Mountain Grade Operations

- [Item 8: Heavy and Mountain Grade Operations](#)

Item 8: Heavy and Mountain Grade Operations

1. Descending Grade Requirements

Cresting the Summit "CG"

When freight trains (leading locomotive) and light locomotive consists crest the summit of grades listed below as "CG", speed must be at least 5 MPH below the maximum authorized speed.

Descending Grades

When operating freight trains or light locomotive consists on descending grades between locations listed below as 1% or 2%, if train speed reaches 5 MPH above maximum authorized speed:

- Stop movement immediately, using an emergency brake application.
- When operating light locomotives consists, actuate and fully apply independent brake.
- After stopping, apply hand brakes as required to prevent movement.
- Do not move the train until authorized by a Designated Supervisor of Locomotive Engineers.

Refer to Rule 34.2.10 Emergency Brake Applications.

2. Two-Way EOT Requirements

The following restrictions are applicable to those grades listed below:

1% Trains departing from a designated crew change location for that train, if entering territory listed in the following table, must be equipped with an operable 2-way end-of-train telemetry device (rear-end unit and head-end unit) or equivalent device. However, the following trains do not require a 2-way EOT or equivalent device to operate on these grades:

- Passenger trains.
- Local trains not exceeding 4000 trailing tons, operating within a single designated crew district, and not operating over a section of track indicated as 2%.
- Work trains not exceeding 4000 trailing tons and not operating over a section of track indicated as 2%.

Refer to rule 32.9.1 for further information.

2% Trains operating on the following grades listed below must be equipped with an operable 2-way end-of-train telemetry device (rear-end unit and head-end unit) or equivalent device. However, passenger trains do not require a 2-way EOT or equivalent device. Refer to Rule 32.9 End of Train Telemetry System for further information.

Note: For 1% and 2% grades also refer to rule 32.9.1.

Subdivision/Industrial Lead	Location (Applies for movements in both directions between/at the points unless specified otherwise.)	Applicability Code
Altoona	St. Paul and Hammond	1%
Bend	BNSF MP 102.5	CG
Bingham	Robbe and Midvale	2%
Bingham Ind. Lead	Leadmine and Welby	CG
Black Butte	Azalea, MP 331.5, Southward	CG
	Grass Lake, MP 367.7, Southward	CG
	Azalea and Dunsmuir	2%
	Klamath Falls and Azalea	1%
Caliente	Crestline and Las Vegas	1%
Canyon	Portola and Oroville	1%
Carrizozo	Vaughn and Alamagordo	1%
Cascade	Cascade Summit, MP 537.5, Northward	CG
	Cascade Summit to Oakridge	1%
Cedar City	Cedar City , Eastward	CG
Chevron Industrial Lead	MP 8.00 and Chevron	1%
Cima	Cima, MP 253.8, Westward	CG
	Cima and Kelso	2%
	Las Vegas and Arden	1%
Clifton	Clifton and Guthrie	2%
Coast	Cuesta, MP 235.7, Westward	CG
	MP 236.6, Eastward	CG
	San Luis Obispo and Santa Margarita	2%
	San Luis Obispo and King City	1%
Colorado Springs	Palmer Lake, MP 50.0, Southward	CG
	Sedalia and Colorado Springs	1%
Comstock	Iron Mountain, MP 13.0, Eastward	CG
	Iron Mountain and Iron Springs	2%
Condon	MP 8.00, Northward	CG

Cumberland Ind. Lead	MP 9.4 Northward	CG
De Soto	Piedmont and De Soto	1%
Dry Valley	MP 25.0 Southward	CG
Elkol Industrial Lead	MP 2.4 Northward	CG
Evanston	Wahsatch, MP 928.0, Westward, Track 1	CG
	Wahsatch and Ogden	1%
Falls City	Atchison and Nebraska City	1%
Gay	Gay, MP 14.5 Westward	CG
	Gay and Nine Mile	1%
Glenwood Springs	Bond and Grand Jct.	1%
Gila	Estrella and Bosque	1%
Greeley	Cheyenne and Greeley	1%
Green River	Grand Jct. and Helper	1%
Huntington	Encina, MP 352.0, Both directions	CG
	Telocaset, MP 312.5, Westward	CG
	Pleasant Valley and Pritchard Creek	2%
	Pleasant Valley and Durkee	1%
La Grande	Kamela, MP 271.3, Both directions	CG
	Kamela and Hilgard	2%
	Kamela and Huron	2%
	Minthorn and Hilgard	1%
Lakeside	MP 645.40, Eastward	CG
	MP 616.3, Westward	CG
	Lucian and Wells	1%
Laramie	Bufford, CP W536, Eastward, Tracks 1 & 2	CG
	Hermosa, CP W547, Westward, Track 3	CG
	Sherman and Wycon	1%
	Hermosa and Red Buttes	1%
Limon	Sharon Springs and Mesa	1%
Livonia	W. Bridge JCT and E. Bridge Jct.	1%
Lone Pine	Cantil and Searles	1%
Lordsburg	PFE Yard and Lordsburg	1%
Los Angeles	Silverwood, BNSF MP 56.6, Westward	CG
	Summit and San Bernadino	2%
	Riverside Jct. and Barstow	1%

Lufkin	Appleby and Tenaha	1%
Modoc	Ambrose and Canby	CG
	Ambrose and Canby	2%
Moffat Tunnel	MP 50.1, Eastward	CG
	MP 57.0, Westward	CG
	MP 138.5, Eastward	CG
	MP 154.0, Westward	CG
	East Portal and Rocky	2%
	Winter Park and Fraiser	2%
	Crater and Bond	2%
	Denver and Bond	1%
Mojave	MP 359.5, Northward	CG
	Cameron, MP 371.5, Southward	CG
	Hiland, MP 463.8, Southward	CG
	Through Silverwood connector track Southward, MP 464.7	CG
	Hiland and West Colton	2%
	Cable Xover and Mojave	2%
	Colton and Bakersfield	1%
Montana	Monida MP 264.0	CG
	Apex MP 340.25	CG
	Humphrey and Dubois	2%
	Apex and Navy	2%
	Feeley and Silver Bow	2%
	Idaho Falls and Silver Bow	1%
Nampa	Ticeska, MP 358.0, Westward	CG
	Reverse, MP 391.5, Eastward	CG
	Mt. Home and Bliss	1%
Oak Creek Industrial Lead		2%
Oakland	Tracy and Altamont	1%
Peoria	Pottstown and Pioneer	1%
Pocatello	At Kemmerer	1%
Powder River	S. Morrill and E. Caballo Jct.	1%
Provo	MP 638.2, Eastward	CG
	MP 651.8, Westward	CG

	MP 673.3, Westward	CG
	Kyune and Helper	2%
	Summit and Castilla	2%
	Helper and Springville	1%
Roseville	MP 136.5, Westward, Track 1	CG
	MP 191.0, Westward, Tracks 1 & 2	CG
	MP192.0, Eastward	CG
	Norden and Loomis MP 114.0	2%
	Norden and Truckee	2%
	Sparks and Roseville	1%
Sanderson	Maxon and Altuda	1%
SCRRA Trackage	Vincent 61.8	CG
	Vincent and Palmdale	2%
	Vincent and Paris	2%
	Burbank Jct. and Palmdale	1%
Sedalia	Dow and Smithton	1%
	Rock Creek Jct. and Pleasant Hill	1%
Shafter	Wendover and Wells	1%
Sharon Springs	Brookville and Sharon Springs	1%
Spokane	Shiloh and Eastport	1%
Stauffer Industrial Lead	Stauffer and Big Island	1%
Sunnyside	Sunnyside and Banning	2%
Tennessee Pass	MP 281.8, Westward	CG
	MP 290.3, Westward	CG
	Tennessee Pass and Minturn	2%
Toyah	Sweetwater and Sierra Blanca	1%
Valentine	Alpine and Marfa	1%
	Sierra Blanca and McNary	1%
Valley	Dunsmuir and Redding	1%
Wallace	Spokane and Eastport	1%
Yoder	Yoder and Egbert	1%
Yuma	Beaumont, MP 561.4, Westward	CG
	MP 566.2, Eastward	CG
	Beaumont and Garnet	2%
	Beaumont and MP 545.1	1%

Rule Updated Date

May 2, 2016

[^Top](#)

[Union Pacific Rules](#)

[System Special Instructions](#)

ITEM 9: Use of Engine Horns

- [Item 9: Use of Engine Horns - Quiet Zone](#)

Item 9: Use of Engine Horns - Quiet Zone

Quiet Zone

Quiet zones are designated in the timetable. Do not sound the horn for grade crossings within limits or at locations designated on the subdivision page.

Sounded Horn

Horn may be sounded to provide a warning to animals, vehicle operators, pedestrians, trespassers or crews on other trains in an emergency situation when engineer believes such action is appropriate in order to prevent injury, death, or property damage.

Horn must be sounded when:

- Employees are working on or near the track.
- Meeting or passing the head end or rear end of a train in the vicinity of a grade crossing.
- Notified that automatic warning devices are malfunctioning or disabled or crossings require additional precautions.
Sound whistle signal 5.8.2(7) regardless of any prohibition.

Rule Updated Date

May 2, 2016

[^Top](#)

[Union Pacific Rules](#)

System Special Instructions

ITEM 10: Rule Supplements & Amendments

- [Item 10: Rule Supplements & Amendments](#)
- [Item 10-A: General Code of Operating Rules, Chapters 1 to 19](#)
- [Item 10-B: Reserved](#)
- [Item 10-C: Air Brake & Train Handling Rules, Chapters 30 to 39](#)
- [Item 10-D: Maintenance of Way Rules, Chapters 40 to 69](#)
- [Item 10-E: Safety Rules, Chapters 70 to 89](#)
- [Item 10-F: Instructions for Inspecting, Welding and Grinding of Rail and Track Components Chapters 100 to 119](#)
- [Item 10-G: Chief Engineer Instruction Bulletins, Chapters 120 to 140](#)
- [Item 10-H: Hazardous Materials Instructions](#)
- [Item 10-I: Union Pacific Railroad Policies](#)
- [Item 10-J: Commuter Train Operations](#)
- [Item 10-K: Main Track Switches](#)
- [Item 10-L: Additional Equipment Securement Requirements](#)
- [Item 10-M: Mechanical Department \(Maintenance Operations\)](#)

Item 10: Rule Supplements & Amendments

Critical Rules for Operating and Supply Departments

Critical Rules for All Employees	
Rule Number	Rule Description
1.13	Reporting and Complying with Instructions
74.3	Cell Phone/Electronic Device
74.5	Seat Belts
	Violations that result in property damage meeting or exceeding the FRA reportable monetary threshold.

Critical Rules - Transportation	
Rule Number	Rule Description
1.47	Failure to Maintain Conductor's Log (Missing Entries)
2.21	Electronic Devices
5.13	Blue Signal Protection
6.5	Shoving Movements
6.5.1	Remote Control Movements (Unprotected Shove)

6.7	Remote Control Zone (Fouling an active RCL zone without permission)
6.7A	Remote Control Zone – System Special Instructions (Failure to maintain a zone log when required)
6.25	Movement Against the Current of Traffic
6.27	Restricted Speed
6.28	Movement on Other Than Main Track
7.1	Switching Safely and Efficiently
8.2/8.3/8.8/8.9.1/8.20	Switches and Derails (Not resulting in FRA reportable incident)
9.5	Stop Signal
9.15	Track Permits
10.1	Authority to Enter CTC Limits
15.2 Form B	Protection by Track Bulletin Form B
7.6/32.1/32.1.1/32.1.4	Securing Cars, Engines, Trains, etc.
32.1.2/32.1.3/32.2.1	Securing Cars, Engines, Trains, etc. (Failure to apply handbrakes, airbrakes, or locomotive brakes)
35.3.3/35.4.1/35.4.4	RCL Operations
35.4.3	"Pitch and Catch" Operations (Failure to verbally confirm)
81.2.2	Sufficient Distance (Failure to separate equipment required distance)
81.4.2	Getting On and Off Moving Equipment
81.5.4	Understanding Between Crew Members Before Crossing Through or Fouling Equipment
81.8.1	Avoiding Fouling Hazards
81.13.1	Working Between Equipment
81.13.2	Coupler Adjustment (Use of feet to adjust coupler)
SSI Item 8	Heavy and Mountain Grade Operations
SSI Item 10K/8.3	Switch Left Open in Non-Signaled Territory

Critical Rules - Maintenance of Way / Engineering Employees	
Rule Number	Rule Description
32.1.4	Operating and Air Brake Instructions (Applies to any MofW or work equipment handling rail cars)
42.2.2	Other Speed Requirements
42.3	Main Track Authorization
42.6	Grade Crossings
74.6.1	Back-Up Moves by Engineering Employees and Contractors
78.8	Operating Booms Near Power Lines
122.4.1.1	Wearing Fall Protection
122.4.1.2	Using Fall Protection
122.4.1.6	Working Over or Adjacent to Water
122.4.1.7	Working on Bridges over RR and Roadways
135.3.2	Lockout/Tag out Procedures
135.4	Maintenance or Repair of Running Equipment
136.3	Job Briefing

136.3.1	Job Briefing for Roadway Work Groups
136.4	On Track Safety Procedures
136.4.1	Exclusive Track Occupancy
136.4.2	Inaccessible Track
136.4.3	Individual Train Detection
136.4.4	Train Approach Warning
136.4.6	Flag Protection
136.4.7	Train Coordination
136.4.8	Automatic or Symbol (Z) Manual Interlockings
136.4.9	Train Approach Warning System (TAWs)
136.7.3	Work Zone around Machines
136.7.4	Safe Working Distance Between Machines
136.7.5	Safe Traveling Distance
136.7.6	Tying up Machines
137.2.3	Disabling Crossing Warning Device
138.3.2	Critical Lift

Critical Rules – Maintenance of Way/Engineering Employees - Track Maintenance Field Manual	
Rule Number	Rule Description
8.2	Standards and Compliance
4.18.6	Remedial Action Required (Rail Defects)
7.8.1	General Requirements
7.8.16	Summary of Speed Restrictions for Track Work

Critical Rules - Maintenance of Way/Engineering Employees - Engineering Fire Prevention Plan	
Rule Number	Rule Description
2.0	Job Briefings
4.1	Not Conducting/Documenting a Fire Risk Assessment Prior to Hot Work Being Conducted
5.1.2/5.2.3/5.3.2/5.4.3/5.5.3/5.6	Not Complying When Fire Risk is High

Critical Rules - Maintenance of Way/Engineering Employees GCOR and MofW Rules	
Rule Number	Rule Description
2.21	Electronic Devices
5.4.1	Temporary Restrictions
5.4.2	Display of Yellow Flag
5.4.3	Display of Yellow-Red Flag
5.4.4	Authorized Protection by Yellow or Yellow-Red Flag
5.4.5	Display of Green Flag
5.4.6	Display of Flags Within Current of Traffic

5.4.7	Display of Red Flag or Red Light
5.4.8	Flag Location
40.6/6.2.1	Train Location
40.6/6.5	Handling Cars Ahead of Engine
40.6/6.21.1	Protection Against Defects
40.15/15.2	Protection by Track Bulletin Form B
40.8/8.2	Position of Switches
43.5/7.6	Securing Cars, Engines, Trains, etc.
56.1.3	Compromising Signal Safety

Critical Rules - Premium Operations	
Rule Number	Rule Description
2.21	Electronic Devices
5.13	Blue Signal Protection
7.6/32.1.1/32.1.2/32.1.3/32.1.4/32.2.1	Securing Cars, Engines, Trains, etc.
74.12	Off Road Vehicles
81.23	Lockout Protection Required
83.1.6	Adjustment of Container on Chassis
83.1.9	Intermodal Equipment Maintenance Repair Lockout / Tagout Procedures
83.2.1	Speed Limits on Ramp
83.2.2	Observing Stop Signs / Stop Lines
83.3.2	Overhead Lifting
83.3.4	Staying Clear of a Suspended Load
83.3.5	Getting On and Off Intermodal Cars
83.3.8	Crossing Platforms
83.4.2	King Pin (Inspect to Ensure Locked)
83.4.3	Loading Container on Flat Car - COFC
83.4.5	Hitches
83.5.4	Securing Containers

Critical Rules - Mechanical/Car	
Rule Number	Rule Description
2.21	Electronic Devices
5.13	Blue Signal Protection of Workmen
7.6	Securing Cars or Engines
8.2/8.20	Switches and Derails (Not resulting in FRA reportable incident)
74.12	Off Road Vehicles
76.3.14	Jacking Equipment
76.3.15	Securing Jacked Equipment
78.2	Lockout/Tagout

80.14	Fall Protection
81.4.2	Moving Equipment
81.10.2	Using Mobile Equipment
81.10.4	One Person Operations
81.15	Car Doors
	Mechanical Fire Prevention Plan

Critical Rules - Mechanical / Locomotive	
Rule Number	Rule Description
2.21	Electronic Devices
5.13	Blue Signal Protection of Workmen
6.5	Shoving Movements
7.6	Securing Cars or Engines
8.2/8.20	Switches and Derails (Not resulting in FRA reportable incident)
78.2	Lockout/Tagout
80.14	Fall Protection
81.4.2	Moving Equipment
81.8.3	Impaired Clearances
81.10.2	Using Mobile Equipment
81.10.3	Using Locomotive
81.10.4	One Person Operations
	Mechanical Fire Prevention Plan

Critical Rules - Supply/Telecom	
Rule Number	Rule Description
70.6	Lifting and Moving Material
74.2	Driver Requirements
74.6 - Telecom	Back-Up Moves
75.3	Loading and Unloading Tractor Trailers
75.7 - Supply	Forklifts
Chapter 136	On Track Safety

Rule Updated Date

May 2, 2016

[^Top](#)

Item 10-A: General Code of Operating Rules, Chapters 1 to 19

Rule : 1.2.5 Reporting

Change rule to read :

All cases of personal injury, while on duty or on company property, must be immediately reported to the proper manager and the prescribed form completed.

A personal injury that occurs while off duty that will in any way affect employee performance of duties must be reported to the proper manager as soon as possible. The injured employee must also complete the prescribed written form before returning to service.

All cases of occupational illness must be immediately reported to the proper manager and the prescribed form completed.

Because railroads are required by Federal regulations to report injuries and occupational illnesses that meet certain medical treatment criteria, employees must report to their manager any medical treatment they receive that was directly related to their injury or illness, including any follow-up visits. Below are examples of the types of medical treatments and instructions that employee's must report to their manager if they were given in relation to an injury or occupational illness:

- Medical treatments provided or recommended
- Physical therapy or chiropractic treatments
- Prescriptions and other medications issued or recommended, including dosages
- Lost time instructions
- Work restriction instructions

Rule : 1.3.1 Rules, Regulations, and Instructions

Application:

Examinations are required to be passed biennially or more often when necessary to ensure employees are familiar with all rules, regulations and instructions.

Issued, Canceled, or Modified

When there is a conflict, subdivision special instructions takes precedence over system special instructions.

Rule : 1.3.2 General Orders

Add a sentence to last paragraph:

Employees must each have a current copy of system general orders and subdivision general orders they can refer to while on duty.

1.5 - Drugs and Alcohol

Add as last paragraph:

Refusals to provide a test sample or interference or delay in the testing process are also treated as prohibited conduct. This also includes leaving the scene of an accident, tampering or substituting a sample.

Application:

Also refer to the UPRR Drug and Alcohol Policy which governs all employees. Access the policy by using the link:

http://home.www.uprr.com/emp/operating/op_prac/dap/index.shtml

Rule : 1.6.1 Motor Vehicle Driving Records

Change Rule To Read :

A certified conductor, engineer, employee seeking initial certification or employees qualified to drive commercial motor vehicles must report any arrest, citation or conviction to an employee assistance representative at (800)779-1212, within 48 hours for:

- Operating a motor vehicle while under the influence of or impaired by alcohol or a controlled substance.
- Refusal to undergo such testing when a law enforcement official seeks to find out whether a person is operating under the influence of alcohol or a controlled substance.

State-sponsored diversion programs, guilty pleas, and completed state actions to cancel, revoke, suspend, or deny a driver's license are considered convictions as applied to this rule.

Rule : 1.6.3 Notification of Deteriorating Vision or Hearing

Add note to read:

Note: A certified conductor, engineer or employee seeking initial certification who has knowledge that a restriction listed on their FRA Certificate has been corrected or improved to meet the minimum acceptable requirement as outlined in federal regulations must report that fact immediately to the proper authority or the medical department (402-544-5234).

1.11.1 - Napping

TE&Y and Engineering employees, except those working in passenger or commuter service are permitted to nap while on duty when it does not cause a delay to the operations or interfere with the performance of safety-related duties, the safety of the employee , coworkers , or the public under the following conditions:

- The employee has reported on duty and completed all necessary preparations for duty including a job briefing. These duties include reviewing all general orders, track warrants, track bulletins, and all other paperwork.
- The employee responsible for notifying a napping employee work is ready to proceed should allow at least 15 minutes for the napping employee to recover from grogginess which may occur after awaking. Another job briefing must not occur during the 15 minute recovery period, but must take place prior to proceeding with work to ensure all employees are prepared to perform service after the operational delay has concluded.
- The napping employee is relieved of all duties during the napping period. Employees being transported to or from their job duties may nap when no safety sensitive duties are being performed by another employee.

Transportation Employee Requirements:

- When napping in a designated napping facility, one member of the assigned crew or work team must remain awake at all times to perform any work related duties including ensuring that all employees are ready to commence work promptly after the delay has ended. If the entire crew requests time to nap, the supervisor on duty may grant the request if doing so does not jeopardize the safety of the employees, the public, or train operations and will be responsible for ensuring the crew is ready to commence work promptly after the delay has ended.
- A job briefing must be conducted to review the conditions of the napping period and to reach agreement as to who will nap and who must remain awake. The employee's supervisor or co-worker has the right and responsibility to refuse to allow another employee to take a nap if doing so could jeopardize safety or cause undue delay to operations.

- Before napping is allowed **on a locomotive**:
 1. The employee in charge of the locomotive controls must:
 - Make at least a 10 pound brake pipe reduction.
 - Place generator field switch in the "OFF" position.
 - Center and remove the reverser, if removable.
 2. The employee who is to remain awake must remain on the locomotive while others on the locomotive are napping, except when inspecting passing trains.

Engineering Employee Requirements:

- Employee must request a nap from their immediate supervisor and identify the location where the nap is to take place. The supervisor may grant the request if doing so does not jeopardize the safety of employees, the public or train operations. In no case may the employee nap foul of any track or in an area where equipment is operating.
- Before napping is allowed **on maintenance of way equipment**: The operator of the equipment must ensure the equipment is properly tied down, secured against movement and adequately ventilated.
- When on a road in a company vehicle, at least one employee in addition to the employee driving the vehicle must stay awake to help the driver identify potential hazards ahead.

Rule : 1.12 Weapons

Application:

Also refer to UPRR Policy to Address Violence & Abusive Behavior in the Work Place. Access the policy by using the link: <http://home.www.uprr.com/emp/ec/policy/violence.shtml>

Rule : 1.23.1 Locomotive-Mounted Safety Devices

Add new rule:

A. Tampering with or Disabling

Employees are prohibited from:

- Tampering with or disabling any locomotive mounted safety device.
- Operating or failing to take appropriate action to prevent a train from being operated when the controlling locomotive of that train is equipped with a disabled safety device, except as provided in part C of this rule.

Safety devices include crew alertness devices, automatic cab signal devices, automatic train control/train stop devices, and audio, video and other recording devices concerning operations.

B. Inspection of Locomotive-Mounted Safety Devices

The engineer must make a visual inspection of accessible safety devices in the controlling locomotive cab, nose or vestibule, or in the cab control car when taking charge of a locomotive or train to ensure that:

- Nothing interferes with their intended function.
- Switches and breakers controlling the devices are in proper position.

- Seals, as appropriate, are properly applied.
- There is no apparent damage to the device.

If any exceptions are detected, immediately report them to the train dispatcher.

C. Operation of Trains with Defective or Disabled Locomotive-mounted Safety Devices

Locomotives or cab control cars with defective or disabled safety devices must not be operated as the controlling unit unless:

- Provided for in the operating rules,
or
- Authorized by the train dispatcher.

Rule : 1.27 Divulging Information

Add new last sentence reading :

Employees are responsible for all activity with their assigned User ID's and are responsible for protecting the confidentiality of information accessed. Sharing passwords is prohibited. Unauthorized use of another person's User ID and password is prohibited.

Rule : 1.33 Inspection of Freight Cars

Application:

1. When a defect is discovered, note the type of defect on proper tag and attach a tag on each side of the car.
2. Open top rail equipment loaded with wood chips or bark must be covered with approved netting.
3. When applicable, inspections required by Hazardous Materials Instructions must be completed.

Rule : 1.37 Open Top Loads

Change (combine) third and fourth bullets as shown:

- Occupied locomotive or occupied caboose.

1.47 - Duties of Crew Members

Change Rule To Read :

The conductor and the engineer are responsible for the safety and protection of their train and observance of the rules. They must ensure that their subordinates are familiar with their duties, determine the extent of their experience and knowledge of the rules, and instruct them, when necessary, on how to perform their work properly and safely. If any conditions are not covered by the rules, they must take precautions to provide protection.

When the conductor is not present, other crew members must obey the instructions of the engineer concerning rules, safety, and protection of the train.

A. Conductor Responsibilities

1. Supervises the Operation

The conductor supervises the operation and administration of the train (if trains are combined with more than one conductor on board, the conductor with the most seniority takes charge). All persons employed on the train must obey the conductor's instructions, unless the instructions endanger the train's safety or violate the rules. If any doubts arise concerning the authority for proceeding or safety, the conductor must consult with the engineer who will be equally responsible for the safety and proper handling of the train.

2. Restrictions on Equipment

The conductor must advise the engineer and train dispatcher of any restriction placed on equipment being handled.

3. Calling Attention to Restrictions

The conductor must remind the engineer that the train is approaching an area restricted by:

- Limits of authority.
- Track warrant.
- Radio speed restriction.

or

- Track bulletin.

The conductor must inform the engineer after the train passes the last station, but at least 2 miles from the restriction.

4. Freight Conductors

Freight conductors are responsible for the freight carried by their train. They are also responsible for ensuring that the freight is delivered with any accompanying documents to its destination or terminals. Freight conductors must maintain any required records.

5. Conductor Report Form

UPRR crews operating on a foreign railroad are required to properly complete a UPRR form or a foreign railroad form as required by UPRR rules. Foreign railroad crews operating on the UPRR are governed by that railroad's rule concerning awareness forms.

"Conductor Report Form" (FORM 20849) must be maintained as follows (**also see Item 10-K**):

a. Road freight conductors, including locals and switchers but not including yard or passenger conductors, are required to complete the Conductors Report. However, yard conductors performing road service on the main track (transfer, relief service, etc.) will be required to complete the Conductors Report Form.

Remote control operators are not required to maintain a Conductor Report Form except when required by Item 10-K.

The report will include:

- The name of other than Clear wayside signals, speed of the train as head end passes and, as appropriate, a "Z" or "X".
- After passing an Approach or Diverging Approach signal the next wayside signal must be entered regardless of signal indication including the speed of the train (even if the signal is Clear).
- Train defect detector results from all detectors (except "%" detectors) and mile post. "X" will identify in cab communication of results.
- Approaching temporary speed restrictions that affect the train. (Enter speed of restriction on form).

- Approaching the end of authority unless additional authority has been granted to continue on the main track. If the additional authority contains a Box 2 (after arrival) it must be included on the form.
- Train delays.
- Restricted Speed documentation. Every 2 miles that the train is operating at Restricted Speed, enter mile post location, time, train speed, a "Z" to indicate that the information was communicated between crew members and amount of air brake application if any, (None, Minimum, 10#, etc.).
- On the main track in non-signaled territory, the time, train's milepost location, and speed every 5 miles and record an "X" to indicate the information was communicated between crew members. (Comply with bullet 7 if operating at Restricted Speed).
- On Subdivisions with a CG location (as listed in SSI Item 8), record the time and speed of the train as the train crests the grade. Enter an "X" to indicate the information was communicated between crew members.

Entries will be made when head end of train is at or about the mile post location of required entry. Entries will be sequential and legible.

EXAMPLES:

LOCATION	SIGNAL NAME OR TDD ANNOUNCEMENT	TIME	COMMENTS & DELAYS
87.3	AA	0535	X - 52 MPH
89.1	A	0543	Z - 33 MPH
Y091	S	0558	X - Stop - 8" delay
92.5	RP	0617	Z - 12 MPH
94.5	RS	0625	Z - 8 MPH - None
101.3	TSR	0643	Z - 30 MPH
103.3	ND	0657	X
115.0	XH	0715	Z - 15 MPH
129.0		0755	PU - 8 cars - 30"
135.0	EA	0840	Z

Note :

1. Abbreviations may be used. e.g. (Advance Approach = AA; Diverging Clear = DC; Diverging Approach = DA; Approach = A; Approach Diverging = AD; Restricting = R; Restricted Proceed = RP; Stop = S; Speed Restriction (temporary) = TSR; End of Authority = E/A; Crossing Restrictions (received enroute) = XG, XH, XS; Cab Red Zone = Z; In-Cab Communication = X; ND = No Defects; Restricted Speed = RS.
2. Enter MP location where Cab Red Zone begins and/or in-cab communication takes place when other entries are required. However, entry may be made with signal entry when passing signal.
3. Enter delays.

- b. The conductor's report must be completed (and signed on the last page to signify report is complete and accurate) on each trip or tour of duty. If the form is not available, record the information as required. Reports of the last 5 round trips (a minimum of 5 days) must be kept in your possession while on duty, and presented to a Manager upon request.
- c. Do not erase information entered on the form. If an error is made, cross out the entry and write the correct entry.
- d. Conductors with a valid Class 1 "Certificate to Operate Locomotives": When conductors with a valid Class 1 "Certificate to Operate Locomotives" are allowed to operate the engine the time and location (beginning and ending) will be noted on the conductors report form. Entries on the form will not be required during this time period except entries required by Item 10 K.

B. Engineer Responsibilities

1. Operating the Engine

The engineer is responsible for safely and efficiently operating the engine. Crew members must obey the engineer's instructions that concern operating the engine. A student engineer or other qualified employee may operate the engine only under the direct and immediate supervision of the engineer. The engineer must closely monitor the employee's performance. The engineer must be in a position to take immediate action as necessary. Employee that operates an engine must have a current certificate in their possession.

2. Special Handling

The engineer must check with the conductor to determine if any cars or units in the train require special handling.

C. All Crew Members' Responsibilities

1. Crew Members in Control Compartment

Crew members in the control compartment must communicate to each other any restrictions or other known conditions and required actions that affect the safe operation of their train sufficiently in advance of such condition to allow the engineer to take proper action. If proper action is not being taken, crew members must remind engineer of such condition and required action.

Crew members in the control compartment must be alert for signals. Crew members must:

- Communicate clearly to each other the name of signals affecting their train as soon as signals become visible or audible.
- Continue to observe signals and announce any change of aspect until the train passes the signal.
- Communicate clearly to each other the speed of the train as it passes a signal with an indication other than Clear.
- Immediately remind the engineer of the rule requirement if the signal is not complied with.

2. Radio Transmission

Except when switching a crew member must transmit the engine number, direction, location and signal name (include track number in multiple main track CTC territory) when the head end of the train:

A. Passes a signal that requires:

- Being prepared to Stop at the next signal.
 - Being prepared to pass next signal at Restricted Speed.
- or
- Restricted speed.

B. Stops for a signal that requires stopping.

However, instructions may be issued to identify locations where this radio transmission is not required.

3. Proper Action

If engineer and/or conductor fail to comply with a signal indication or take proper action to comply with a restriction or rule, crew members must immediately take action to ensure safety, using the emergency brake valve to stop the train, if necessary.

4. Performing Work

Before work is performed at a location, the crew must discuss how the work will be performed, which switches/derails will be used, what method will be used to pass signals, close clearances and any other safety related concerns. When work is completed, the crew will confirm that work was completed as planned, switches and derails are in proper position and any unforeseen safety concerns are properly reported.

1.47.1 Cab Red Zone

Add new rule:

During a Cab Red Zone (CRZ), an environment must be created in the locomotive control compartment that focuses exclusively on controlling the train, verbally communicating restrictions, and proper application of the rules. The conductor must be in the control compartment unless required to perform other duties (i.e. to operate switches, be at a road crossing, passenger train duties, etc.).

A Cab Red Zone exists during critical times such as:

- Operating at Restricted Speed. (Does not apply when switching.)
- Operating on a signal that requires the train to:
 - Be prepared to Stop at the next signal.
 - or
 - Pass the next signal at Restricted Speed.
- Copying mandatory directives.
- Approaching a Form B restriction.
- Approaching a temporary speed restriction that affects the train.
- Approaching the end of the train's authority.

The following restrictions or conditions are required during a Cab Red Zone:

- Cab communication is restricted to immediate responsibilities for safe train operation.
- Radio communication with the dispatcher or other employees must be limited to the train's immediate movement or conditions that affect the safety of trains.
- A crew member other than the employee operating the controls will be required to handle radio communications when that crew member is in the control compartment.
Exception: Rule 33.6.1 (Operating Responsibilities with Manned Helper.)
- If proper action is not being taken, crew members must remind each other of the Cab Red Zone and/or take appropriate action to stop the train.

Application: As contained within this rule, approaching is defined as two miles from the restriction or end of the train's authority.

Rule : 1.47.2 Training and Familiarization**Add new rule :**

Employees assigned to a position for the purpose of training or familiarization must be under the direct and immediate supervision of a qualified employee at all times. The qualified employee must closely monitor the employee's performance and must be in a position to take immediate action as necessary. Any employee requiring certification must have a current certificate in his possession.

Rule : 2.1 Transmitting**Application:****Normal Dispatcher Call-in Procedure**

To contact the train dispatcher from the field:

1. Ensure that you are on the correct dispatcher radio channel for the area you are in. The radio channel is identified in timetable subdivision instructions under Radio Display (SI-RD).

2. On the radio key pad, dial "*" plus the 2-digit code for the dispatcher you wish to call. (For example, "*20").

Note: After dialing the "*XX" digits, you should receive an acknowledgment tone on your radio indicating the call-in has been detected and processed. If you do not hear the acknowledgment tone you will need to re-dial the code.

Rule : 2.2 Required Identification**Application:**

During switching operations, short identification must be unique enough to ensure no misunderstanding as to whom the communication is intended for or could be misinterpreted. Job numbers alone could be misinterpreted as car counts, track number or other equipment etc. "10 back up 5" must not be used. Instead use "Job 10 back up 5 cars; Yard Job 10 back up 5 cars" or "DY10 back up 5 cars".

Rule : 2.3 Repetition**Add as last paragraph:**

When a mandatory directive or instruction concerning train movement has been repeated correctly, the repeat must be acknowledged as correct.

Rule : 2.10 Emergency Calls**Application:****Emergency Call-in Procedure**

The Emergency call-in code is "911" throughout the entire UPRR system. To contact the train dispatcher in case of an emergency:

1. Ensure that you are on the dispatcher's radio channel for the area you are in. The radio channel is identified in timetable subdivision instructions under Radio Display (SI-RD).

2. Dial DTMF digits "911" on the radio key pad.

Note: After dialing the "911" digits, you should receive an acknowledgment tone on your radio indicating the emergency call-in has been detected and processed. If you do not hear the acknowledgment tone you will need to resend the "911" code.

Rule : 2.14 Transmission of Mandatory Directives

Add a bullet reading:

- When transmitting a track restriction directly to a train, the restriction will be issued using the following format: (Train ID) do not exceed (speed) between (location) and (location) (add track when necessary). If no flags are displayed, the words "No flags are displayed" will be added to the format.

2.14.1 - Verbally Transmitting and Repeating Mandatory Directives

Change last sentence to read:

A decimal point must be spoken as "point", "dot", or "decimal", and a hyphen must be spoken as "dash".

2.21 - Electronic Devices

Entire Rule Changed To Read:

The restrictions in this rule apply to use of personal and railroad-supplied electronic devices by railroad operating employees and does not affect the use of railroad radios under FRA regulations.

PROHIBITED USE:

A railroad operating employee shall not use an electronic device while on duty if that use would interfere with the performance of safety-related duties. Electronic Devices must not be used to verbally obtain or release a mandatory directive when radio communication is available.

A. Personal Electronic Devices:

Devices must be powered off with any earpiece removed from the ear, and properly stowed while on duty.

Except as described in Sections C and D below, use by any crew member in the cab of a controlling locomotive is prohibited when:

- On a moving train.
- Any member of the crew is on the ground or on moving equipment.
- Any railroad employee is assisting in preparation of the train, engine or on-track equipment for movement.

B. Railroad-Supplied Electronic Devices:

Unless required to be powered on for purposes of timely, automated updating or transmission of information, railroad-supplied

electronic devices must be powered off with any earpiece removed from the ear, and stowed when not in use.

Crew members authorized to use railroad-supplied electronic devices may use such devices when:

- A job briefing is held and all crewmembers agree the device is safe to use.
- Not on a moving train.
- The crewmember using the device is not fouling the track.

Note: For Work Order Reporting Devices, refer to System Special Instructions Item 15.

C. Limited Use Permitted:

After conducting a safety briefing with all crew members and agreeing the limited use of the device is safe, the use of an electronic device is permitted if necessary to respond to an emergency situation involving the operation of the railroad, to respond to an emergency encountered while on-duty, or necessary due to a radio malfunction or as follows:

1. **Railroad-Supplied Device:** may be used by a crew member for exchange of work related information during train operations with railroad supervisors, dispatchers, customers, NCSC, or customer service employees.
2. **Digital Storage and Display Function:** may be used to refer to a railroad rule, special instruction, timetable, or other directive if the wireless capability of the device is disabled.
3. **Voice Communication:** permitted on the condition that the device must be turned off as soon as the call is completed.
4. **Camera:** may be used to take a photograph of a safety hazard or a violation of a rail safety law, regulation, order, or standard, provided that:
 - The device is a personal stand alone camera. NOTE: A camera that is part of a cell phone or other similar multi-functional electronic device is not included in this exception unless it is a railroad-supplied device and is used for an authorized business purpose; and
 - The camera is turned off immediately after the photograph is taken; and the camera is not used by an employee at the controls of moving equipment.

A personal stand-alone calculator, digital watch whose only purpose is as a timepiece and medical devices that are consistent with the railroad's standards may be used as necessary in the performance of duties.

D. Permitted Use:

An operating employee may use an electronic device when:

- Deadheading in a non-controlling unit or automobile.
- In a crew room to update rules or documents specified in SSI Item 7-A, or other required company provided electronic media only.

Railroad authorized electronic devices may be used in the body of a business car or passenger train for railroad business when it will not interfere with an employee's performance of safety related duties.

Engineering, Mechanical, and Premium Operations Employees will be governed by the following:

A camera may be used to take a photograph of a safety hazard or a violation of a rail safety law, regulation, order, or standard, provided that:

- The device is a personal stand alone camera. NOTE: A camera that is part of a cell phone or other similar multi-functional electronic device is not included in this exception unless it is a railroad-supplied device and is used for an authorized business purpose; and
- The camera is turned off immediately after the photograph is taken; and the camera is not used by an employee at the controls of moving equipment.

E. Engineering Employees

When cell phone use is allowed, employees must follow all applicable federal, state and local laws. Use of electronic devices is governed by the following:

1. Before using an electronic device, determine that it is safe to do so.
2. Operators of vehicles and equipment, including hyrails, must not use an electronic device while equipment is moving. A computer may be used for business purposes, however, the operator must stop equipment when necessary to enter or view information. If the computer is not equipped with a screen black out process that blacks out the screen when equipment is moving faster than 5 MPH, the device screen must not be viewable to the operator. Passengers may use cell phones or computers as long as their use doesn't distract the driver from safely operating the equipment.

Employees must not use electronic devices when:

- Standing or walking on a roadway.
- Foul of any track.
- In close proximity to men or equipment working on or off track.

F. Mechanical Employees

1. Personal Use of Electronic Devices

- Electronic devices must be limited to designated break and meal periods.
- Electronic devices must be turned off except when in a designated break or office area.

2. Business Use of Electronic Devices

Employees must ensure that electronic device usage does not compromise the safety of themselves and others.

Electronic devices must not be used while:

- In a red zone.
- Walking.
- Operating any vehicle (locomotives, car movers, forklifts, scooters, man lifts, etc.)
- Operating or in close proximity of operating machinery.
- Moving locomotives.
- Performing any safety sensitive work activity
- In the line of fire.

G. Premium Operations

UPRR intermodal ramp employees will be governed by the following:

In addition to rule 74.3, with exception of company data devices at the gate or equipment VMU's, no one may use any electronic device while on a UPRR intermodal ramp with the following exceptions:

- Use of electronic devices should be limited in nature and cell phones must be powered off and not used when in a red zone or when operating ramp related equipment of any kind. Electronic devices may not be used when working on the ground, in mechanical areas, in and around any type of equipment or when performing any type of safety sensitive task.
- Operators of over the road trucks, passenger vehicles and repair type vehicles are permitted to use cell phones only when a hands free device is used along with voice activated or speed dialing or when parked in designated parking areas. Gate lanes are not designated parking areas for this purpose. The use of a cell phone for anything other than voice communication is prohibited while operating a motor vehicle.
- Use of electronic devices is permitted only in break areas, office areas or in parked passenger or over the road type vehicles in designated parking areas.

Rule : 5.2.1 Looking for Signals

Application:

Engineering department employees performing lookout duties (wearing a yellow/green vest with orange reflectorized striping, with "Lookout" printed on the vest) may be communicating with their work group with a white flag. This white flag is not a signal to the train, rather a signal to the work group that an approaching train has been spotted.

Rule : 5.3.7 Radio Response

Delete entire rule.

Rule : 5.4.4 Authorized Protection by Yellow or Yellow-Red Flag

Change rule as follows :

Delete all references to yellow-red flags. Rule only applies to use of yellow flags.

Rule : 5.4.8 Flag Location

Application:

In three or more main track territory, flags will be displayed to the right of center tracks (inside tracks) where clearance allows.

Rule : 5.5 Permanent Speed Signs

Application:

The location of permanent speed signs are:

- 2500 feet ahead of the restriction (Arrow-shaped signs).
- 2 miles ahead of the restriction (Square or rectangular signs).

Rule : 5.8.1 Ringing Engine Bell

Add bullet :

- When moving on the main track or siding, ring bell continuously while passing standing equipment on an adjacent track.

Rule : 5.8.2 Sounding Whistle

Add second sentence to first paragraph.

First paragraph now reads:

The whistle may be used at anytime as a warning regardless of any whistle prohibitions. When approaching areas where it is known employees are working or seen on a track adjacent to a main track or siding, sound warning.

Change (1) and add to (7) to read:

SOUND	INDICATION
[1] Sound whistle to attempt to attract attention to the train.	Use when persons or livestock are on the track at other than road crossings at grade. Use when within quiet zones when engineer believes such action is appropriate. When unable to determine an employees work group, sound signal 5.8.2 (8).
[7] - - o -	Addition: At locations where crossing signs are displayed sound whistle as required above regardless of the type of crossing train is approaching. In the states of California and Montana sound whistle signal at all crossings, public and private.

Rule : 5.9.5 Displaying Ditch Lights

Application:

The term "ditch lights" includes oscillating white headlights or strobe lights located on the front of the locomotive. Ditch lights on some foreign locomotives are configured to operate only when the horn is activated. Ditch lights which operate in this manner will be considered as meeting the requirements of this rule. When a remote control locomotive is being controlled with a remote control transmitter the ditch lights need not be displayed if speed does not exceed 20 MPH. Ditch lights are not required on steam locomotives. Failure of two ditch lights includes employee failure to turn on the ditch lights.

Rule : 5.10 Markers

Application:

Before departing the initial terminal, the conductor must know the initials and number of the car that has the marker applied or unit number, when the engine at rear of the train is used as the marker. This can be done verbally by the employee making the

initial terminal air brake test, or included on the written notification of the test. If the rear car changes, an employee must report to the conductor the initials and number of the car having the marker applied before the train departs.

When a train is set out clear of the main track at other than a crew change location, a crew member must remove the end of train telemetry device, if so equipped. Transport the device on the engine to the destination where the crew is relieved.

If the engine remains with the train, a crew member must deliver the end of train telemetry device to the proper authority at the tie-up point. However, proper authority may advise the crew to leave the device with the train. Always notify the train dispatcher of the location of the telemetry device.

Do not place an EOT on a locomotive unless it is mounted on the knuckle. Conductors are responsible to ensure the EOT is placed in the correct location at yards/terminals.

Rule : 5.11 Engine Identifying Number

Change rule to read :

Trains will be identified by initials and engine number, adding the direction when required. When an engine consists of more than one unit or when two or more engines are coupled, the number of one unit only will be illuminated as the identifying number. The identifying number will be the number of the lead unit, unless changing direction during a trip or tour of duty when that unit is no longer the lead unit.

Exceptions:

- On track bulletins that advise about excessive dimension equipment, trains may be identified by train symbol.
- On track bulletins and on track warrants that do not convey movement authority, passenger trains may be identified by schedule number.

Note: Engines with the following initials stenciled on the side of the locomotive will be identified as NS engines: SOU, NW, PRR, CG, INT, GSF, AGS, CRCX and CR (ConRail).

Rule : 5.13 Blue Signal Protection of Workmen

Part C. 2.

Add second sentence to read:

A blue tag must be placed on the switch governing remote/manual operation.

Part C.3.

Add note after diagram reading:

Note:

Remote control locomotives may be in remote mode while under blue signal protection to service remote control locomotive equipment/functions when the following requirements are met:

1. The employee placing the locomotive in remote mode has been trained to repair and operate remote control equipment.

2. All employees involved on the unit and/or tracks are job briefed and warned against possible inadvertent movement of the locomotive.

5.14.1 - Contractor Protection for Servicing Locomotives

Add New Rule :

5.14.1: Contractor Protection for Servicing Locomotives

When contractors are working, on, under, or between equipment, the contractor will place a red flag in a location that can be clearly seen from the cab of the controlling engine. When employees take charge of an engine, they must visually determine if a red flag is displayed. When a red flag is attached to an engine, unless directed by the contractor, the following are prohibited:

- Changing controls or brake settings.
- Turning on or off switches (except overhead cab lights).
- Changing circuit breakers.
- Starting or shutting down the engine.

Rule : 6.2.1 Train Location

Change Rule To Read :

Trains who receive authority to occupy the main track after the arrival of a train or to follow a train, must ascertain the train's location by one of the following methods:

- Direct communication with a crew member of the train.
or
- Receiving information about the train from the train dispatcher or control operator.

Rule : 6.3 Main Track Authorization

Add a new bullet reading:

- Rule 9.14.2 Controlled Block System (CBS).

Add the following paragraph under Joint Authority

When a train receives joint authority, movements must be made at restricted speed.

Rule : 6.4.1 Permission for Reverse Movement

Application:

In ATC territory "within same signaled block" only applies where continuous block signal territory is designated.

Rule : 6.4.2 Movements Within Control Points or Interlockings

Change Part A (Control Point or Manual Interlockings) to read:

Control Points Outside Manual Interlockings.

Except within track and time limits, if movement stops while the trailing end is between the outer opposing absolute signals of a control point, the movement must not change direction without permission from the control operator. However, after a job briefing has been conducted and the control operator has a clear understanding of all movements to be made and tracks to be used, the control operator may grant permission for all movements.

Manual Interlockings

If movement stops while the trailing end is between the outer opposing absolute signals of a manual interlocking, the movement must not change direction without permission from the control operator.

Rule 6.5 Shoving Movements

Change Rule To Read :

Equipment must not be shoved until the engineer and the employee protecting the movement have completed a job briefing concerning how protection will be provided. Employee must be in position, provide visual protection of the equipment being shoved and participating crewmembers must not engage in unrelated tasks while making a shoving movement.

When making a shoving movement, the employee protecting the movement must see the route is clear and:

- Be in a position to continuously observe the leading end of the equipment until it is stopped.
- or
- Walk adjacent to or ride the leading end of the equipment.

The employee protecting the shove must not turn their back on the movement or walk backwards ahead of the movement. Radio communications for shoving movements must specify the direction and distance and must be acknowledged when distance specified is more than four cars.

**MOVEMENT MUST STOP WITHIN HALF THE DISTANCE SPECIFIED UNLESS
ADDITIONAL INSTRUCTIONS ARE RECEIVED.**

Equipment must not be shoved until it is visually determined that:

- Portion of track to be used is clear of equipment or conflicting movements.
- The track will remain clear to the location where movement will be stopped.
- Switches and derails are properly lined.

Employees may be relieved from providing visual protection when:

- Superintendent Bulletin specifies tracks that will be protected with shove lights or monitored cameras.
- Picking up a crew member in accordance with Rule 6.6 (Back Up Movements).

Shoving movements over road crossings must be made in accordance with Rule 6.32.1 (Providing Warning Over Road Crossings).

Speeds when Shoving

When cars are shoved on a main track or controlled siding in the direction authorized, movement must not exceed:

- 20 MPH for freight trains.
- 30 MPH for passenger trains.
- Maximum timetable speed for snow service unless the employee in charge authorizes a higher speed.

Application:

When not using hand signals, radio job briefing must include the following:

- Who will protect the shove.
- Which track is being shoved.
- How the shove will be protected.
- Distance and direction to be shoved.
- Position of switches and derails, if applicable.

Rule : 6.5.1 Remote Control Movements

Change entire rule to read :

Remote control movements are considered shoving movements, except when the remote control operator controlling the movement is riding the leading locomotive in the direction of movement. Before initiating movement, the remote control operator or a crew member must be in position to visually observe the direction the equipment moves.

When approaching within 200 feet of a fouling point, switch or derail, employee controlling the movement must be on the point of the movement outside the cab when riding the locomotive. However, movement may be controlled from inside the cab of the lead locomotive when:

- Operating in severe weather conditions.
or
- It is necessary to sound the whistle.

Relief of Providing Protection

The remote control operator is relieved from providing protection and the requirement to stop within half the range of vision for movements with engine on leading end when:

1. The remote control zone has been activated.
2. Switches/derails are known to be properly lined.
and
3. Track(s) within the zone are known to be clear of other trains, engines, railroad cars, and men or equipment fouling track.

When Remote Control Zone is equipped with pull back / stop protection (PSP), the operator must verify that PSP is operational. Pull back and stop protection must again be verified if PSP is overridden or disabled.

Note: These steps must be repeated each time the remote control zone is activated.

When operating in pitch and catch mode and making a shoving movement, the primary operator must be in position to protect point of movement.

The primary operator at the coupling may stretch the slack to ensure couplings are made or separate equipment to make coupler adjustments after a job briefing with the employee who will be protecting the point.

When requesting pin slack, the employee uncoupling the equipment is not required to be the primary operator.

Rule : 6.5.2 Movement of Light Remote Control Locomotive

Add new rule:

Unless relieved of providing protection, the primary operator must take a position on the leading end of a light remote control locomotive consist or be positioned on the ground clear of the movement and able to observe the entire movement before initiating the movement.

6.6 Back Up Movements

Change Rule To Read :

After obtaining permission from the train dispatcher, a train may back up on any main track or on any track where CTC is in effect under the following conditions:

1. The crew ensures movement will not:
 - a) Exceed the limit of the train's authority.
 - b) Exceed the train's length.
 - c) Enter or foul a private or public crossing except as provided by Rule 6.32.1 (Providing Warning Over Road Crossings).
 - d) Be made into or within yard limits, restricted limits, interlocking limits, drawbridges, railroad crossings at grade, or track bulletin Form B limits.

2. The train dispatcher grants permission to make the movement after verifying the following within the same or overlapping limits:
 - a) Another authority is not in effect unless conflicting movements are protected.
 - b) A track bulletin Form B is not in effect.
 - c) A main track is not removed from service by a track bulletin.
 - d) Track Breach Protection is not in effect.
 - e) Permission to leave a switch in the reverse position has not been granted.

When movement is made under these conditions, restricted speed does not apply.

Before a crew requests and makes a move under this rule, a job safety briefing between crew members must be conducted that includes:

- Confirmation of authority limits.
- Location of nearest affected road crossings in direction of movement.
- Distance to be shoved.
- Confirmation that train is intact, verified either visually or by determining that brake pipe continuity exists using EOT device or distributed power telemetry.

Rule : 6.7 Remote Control Zone

Application of part A. Entering Remote Control Zone:

Timetable special instructions will designate limits of remote control zones. Signs will be posted at access locations to remote control zones. Remote control zone limits do not include tracks within CTC or interlocking limits (CTC or interlocking rules apply). Only the remote control operator may activate a zone. However, timetable special instructions may designate the hours a zone is active.

Proper records must be maintained concerning activation, deactivation and transfer of the zones at locations where a designated supervisor may be contacted to determine if a zone is active.

Record must include:

- Job designation.
- Zone number.
- Date and time zone activated.
- If applicable, time zone transferred and job designation of other remote control job. Transfers from one job to another do not need to be recorded unless the transfer involves a job that is going off duty or will not again control the active zone. All active zones must be transferred to a new zone log.
- Date and time zone deactivated.

Remote control operators may allow only one other train or engine movement to occupy the limits of their active zone at one time. When that train or engine is clear of the zone with switches properly lined, it must report directly to the remote control operator. If it is necessary for other train or engine movements to enter the limits of the active zone during that time, the zone must be deactivated.

Engineering employees may use Individual Train Detection (ITD) in an active Remote Control Zone, when performing work without equipment. A job briefing must take place between the RCO and the engineering employee. The job briefing must include one of these options:

- Remote control movements will stop until the engineering employee completes the task and reports clear.
or
- RCO must provide protection for all movements.

Engineering or mechanical department employees, with equipment, must not enter or foul the track within an active zone. If necessary to enter the zone limits, the zone must be deactivated.

Rule : 6.19 Flag Protection

Application:

Flagging distance is 2 miles.

6.20 B. Other Equipment Left on Main Track

Application:

A train must not be left on the main track in non signaled territory unless protected by one of the following:

1. Yard Limits
2. Track Warrants
 - The train dispatcher may request the release of the crew's track warrant and inform crew that protection has been provided.
 - After being informed that protection has been provided, the following procedure must be followed:
 - Crew will state: "(Train ID) is stopped between MP___ and MP___ on main track (Subdivision). Protection has been provided."
 - Dispatcher will state: "(Train ID) that is correct."

A crew member will then release their track warrant.

Rule : 6.21 Precautions Against Unusual Conditions

Add the following application to rule:

Verbally Notified	Track Bulletin or Track Warrant	Procedure to follow
"FF" in effect between _____ and _____, or at location _____.	Flash Flood warning in effect between _____ and _____. Within these limits or specified location be governed by Rule 6.21 and Rule 6.21.2.	Be governed by Rule 6.21 and Rule 6.21.2.

Rule : 6.21.3 Track Obstruction/Unusual Conditions

Change Rule to Read:

When a train is instructed by the Train Dispatcher in the words, "BETWEEN (location) AND (location) BE GOVERNED BY RULE 6.21.3", within specified limits, train must proceed at a speed which will permit stopping short of slide, rock, washout or debris on track.

Rule : 6.23 Emergency Stop or Severe Slack Action

Obstruction of a Main Track or Controlled Siding - Application:

To notify the train dispatcher or control operator, use the emergency call-in feature if available.

Inspection of Cars and Units:

Inspect the train on each side of all cars, units, equipment, and track to ensure they are in a safe condition. Make sure the marker is attached to the designated rear car. Before proceeding check the proper positioning of all wheels on the rail. If physical characteristics prevent a complete visual inspection, inspect as much of the train as possible. The train may then be moved, but may not exceed 5 MPH for the distance necessary to complete the inspection, and must be stopped immediately if excessive power is required to start or keep the train moving. When an inspection is required, the entire train must be inspected. When any of the following conditions are met, crews are relieved of visual inspection required by an emergency application when device located at rear of train immediately indicates that brake pipe pressure has been restored.

- Solid loaded bulk commodity trains.
- Train is made up entirely of double stack well cars and/or five-platform articulated single-level spine cars.
- Train speed is above 20 MPH.
- or
- Train is 5000 tons or less.

An inspection on any train must be made if:

- Train is a key train.
- Severe slack action was experienced.

Train must be stopped immediately and inspected, if excessive power is required to start or keep the train moving.

Rule : 6.26 Use of Multiple Main Tracks

Application:

Multiple main tracks are numbered as follows:

- On east-west subdivisions, track numbers increase from north to south, and the northern most track is No. 1.
- On north-south subdivisions, track numbers increase from west to east, and the western most track is No. 1.

Rule : 6.27 Movement at Restricted Speed

Application:

Train and / or engine speed must allow for movement to stop short of the obstructions listed consistent with good train handling.

Rule : 6.28 Movement on Other than Main Track

Application:

Train and/or engine speed must allow for movement to stop short of the obstructions listed consistent with good train handling.

Rule : 6.29.1 Inspecting Passing Trains**Change Ground Inspections to read:**

When a train is stopped and is met or passed by another train, crew members must inspect the passing train. The trainman's inspection will be made from the ground if there is a safe location. When stopped, the crew member must detrain, on the field side, the side away from the adjacent main track.

Inspection will be made from the cab of the locomotive:

- During snow and ice conditions that may cause slippery conditions underfoot when getting on or off.
or
- When stopped at a location where it is unsafe to detrain or there is an adjacent main track on each side of the train (i.e. on track 2 in 3 main track territory).

Application:

When a trackside warning detector indicates a train defect, stop train according to instructions contained in Item 13.

Rule : 6.32.1 Cars Shoved, Kicked, or Dropped**Change Title and Rule To Read :****6.32.1 Cars Shoved, Kicked, or Dropped**

When cars are shoved or kicked over road crossings at grade (except those used exclusively by railroad employees), a crew member must be on the ground at the crossing to warn traffic until the crossing is occupied. Make any movement over the crossing as directed from that crew member. Such warning is not required when gates are known to be in the fully lowered position.

6.32.2 Automatic Warning Devices and Crossings That Require Additional Precautions**Change rule title and rule to read :**

Under any of the following conditions, a movement must not foul a crossing equipped with automatic warning devices until the device has been operating long enough to provide warning and the crossing gates, if equipped, are fully lowered:

- Train, engine, and other such movements consisting of 12 physical axles or less. However, Self Propelled Engineering Department Track Geometry cars will be governed by Engineering Department instructions.
- Movement has stopped within 3,000 feet of the crossing.
- Movement is within 3,000 feet of the crossing and speed has increased by more than 5 MPH.
- Movement is closely following another movement.
- Movement is on other than the main track or siding.
or
- Movement enters a main track or siding within 3,000 feet of the crossing.

Employees must observe all automatic warning devices and report any that are malfunctioning by the first available means of communication to the:
--

- **Train dispatcher**
or
- **Grade Crossing Safety Hot Line (800-848-8715).**

Notify all affected trains as soon as possible.

If equipped, when the white power-on light on the exterior of the signal house is not lit or when a strobe light on the exterior of the signal house is flashing, immediately notify the train dispatcher or Grade Crossing Safety Hot Line.

A. Automatic Warning Devices Malfunctioning

Use the following procedures to properly complete movement over the crossing:

Procedure 1:

Unless otherwise instructed by signal employee in charge, train must stop before occupying the crossing. A crew member must be on the ground at the crossing to warn highway traffic. The train may proceed over the crossing as directed by that crew member. When leading end of movement completely occupies the crossing, proceed at maximum authorized speed.

Procedure 2:

Unless otherwise instructed by signal employee in charge, train must approach crossing prepared to stop before entering crossing. If automatic warning devices are not working comply with Procedure 1. If devices are seen to be working, or when advised by the train dispatcher, track bulletin or track warrant, train may proceed through the crossing not exceeding 15 miles per hour. When leading end of movement completely occupies the crossing, proceed at maximum authorized speed.

Note: Crossing with broken gate(s) is considered as having working devices when the balance of the automatic warning devices are seen to be working.

Movement when notified of warning devices that are malfunctioning or crossings that require additional precautions:

When notified verbally, by track bulletin or track warrant to comply with Procedure:	Required Action:
XG or XS	Procedure 1
XH	Procedure 2
XC or XI	The train may proceed over the crossing not exceeding 15 mph. When leading end of movement completely occupies the crossing, proceed at maximum authorized speed.

When advised by the train dispatcher or proper authority that the warning devices have been repaired, these restrictions no longer apply.

Note: When a crew is notified (e.g. from another train crew) that a crossing has an activation failure or a malfunction, the appropriate procedure must be followed.

B. Whistle for Crossing

When notified that automatic warning devices are malfunctioning, sound whistle signal 5.8.2(7) regardless of any prohibition.

Application:

Crossing Warning Device Malfunction Sign

Where a Crossing Warning Device Malfunction sign (System Special Instructions Item 22) is located next to a road crossing, movement must stop at the sign and **Procedure 1** applies.

"STOP" Sign

Where a STOP sign is located next to a road crossing, movement must stop at the STOP sign. Movement may proceed only after automatic crossing warning devices have been operating long enough to provide warning and crossing gates, if equipped, are fully lowered. If automatic crossing warning devices fail to operate, comply with Procedure 1.

XG – Automatic Crossing Device has an activation failure.

XH – Automatic Crossing not working properly.

XS – Automatic Crossing device has been disabled.

XC – Cars have been left closer than the required distance from the crossing.

XI – Due to broken crossbuck, stop sign, vegetation, etc.

Rule : 6.32.4 Clear of Crossings and Signal Circuits

Add as last paragraph:

When cars, engines or equipment are left on a siding or a main track closer than the required distance, the train dispatcher must be notified.

Application:

Referring to 250 feet:

- In Illinois, the distance is 500 feet.
- In Wisconsin, the distance is 330 feet.

- In Arkansas and Louisiana the distance is 300 feet.

Rule : 6.32.7 Road Crossings within Intermodal and Automotive Facilities

Add new rule:

Movements over crossings within intermodal and vehicle loading/unloading facilities will be made as follows:

- Shoving movements and locomotive consist movements, when not controlled from the cab nearest the direction of travel, must be protected by an employee in position at the crossing to warn traffic until the crossing is occupied. Make movement over the crossing only after warning has been provided.
- Movements with the engine in the lead, when controlled from the cab nearest the direction of travel, must ring the engine bell when approaching crossing. In addition, sound whistle as a warning when vehicles are stopped, closely approaching or crossing view is obstructed.

7.3 - Additional Switching Precautions

Change fourth bullet in first series of bullets to read:

- Loaded Autoracks

Add note after second series of bullets reading:

Note: Loaded Autoracks may be humped, but must otherwise be shoved to rest.

Rule : 7.4 Precautions for Coupling or Moving Cars or Engines

Change Rule To Read :

Before coupling to or moving cars or engines, verify that the cars or engines are properly secured and can be coupled and moved safely.

Make couplings at a speed of not more than 4 MPH. After coupling, engine direction must be changed to stretch slack to ensure that coupling(s) have been made. Before beginning shoving movement, ensure that all couplings have been stretched.

Rule : 7.4.1 Remote Control Couplings

Add new rule :

When using a remote control locomotive in 'pitch and catch' operations to make a coupling, the RCO located at the coupling must be the primary operator. This does not prevent a utility employee, not equipped as a RCO, from making the coupling.

Make couplings at a speed of not more than 2 MPH. Remote Control Operator must use speed selection of not greater than "Couple".

Do not use 'Coast' and independent brake override to make car couplings.

Note: When spotting cars at an industry that requires precision spotting of the cars the independent brake override may be used.

Rule : 7.5 Testing Hand Brakes

Add sentence :

If hand brake is not operational, attach a bad order tag to hand brake wheel or lever.

Rule : 7.7 Kicking or Dropping Cars

Change rule to read :

Kicking or allowing cars to roll under their own momentum is only permitted at authorized locations and when it will not endanger employees, equipment, or contents of cars. This does not apply to crews actively humping cars.

When kicking cars, crew member must ensure that cars kicked are clear of and will remain clear of next track to be entered before track is fouled.

Dropping cars is prohibited.

Rule : 7.7.1 Gravity Switch Moves

Add :

A gravity switch may only be made where authorized by "Superintendent Bulletin" and manned hand brake must be located on the trailing end of the trailing car in the direction of movement.

Rule : 7.8 Coupling or Moving Cars on Tracks Where Cars are Being Loaded or Unloaded

Change 4th bullet under, "In addition:" part to read :

- Do not pull empty cars from an unloading facility until cables, straps, and other devices used to secure lading are secured and any major accumulation of debris is removed by the customer.

Rule : 7.12 Movements Into Spur Tracks

Add a bullet as follows :

- Stop movement short of end of track, bumper, chock, etc., unless it is necessary to shove cars to the end of the track to properly spot cars for the industry. When necessary, use extreme caution to avoid damage to equipment, track or structures.

7.13 Protection of Employees in Bowl Tracks

Change Rule To Read :

During humping operations, before a train or yard crew member performs any work activities between bowl tracks , protection must be provided against cars released from the hump into the bowl track **that will be fouled** as follows:

- The employee requesting protection must notify the employee controlling the switches that provide access from the hump to the bowl track where work will occur.

- After being notified, the switch controller must line any remote control switch against movement to the affected bowl track and locking or blocking device must be applied to the switch control.
- The switch controller must then notify the employee that protection is provided. Protection will be maintained until the switch controller is advised that work is complete and employee is clear of the bowl track and protection is no longer required.

Rule : 8.19.1 Radio Controlled Switches

Change Rule To Read :

The location of Radio Controlled Switches (RCS) and operating instructions will be designated in timetable special instructions. When movement authority requires a train to stop at a RCS location, stop must be made before any part of a train passes the signal governing movement over the RCS.

At locations where radio controlled switches are installed, the following instructions apply.

RCS locations are equipped with:

- Dual control switch machines.
- Bi-directional switch point indicators per Rule 8.10.
- Occupancy (OS) circuits with limits marked by signs reading "Begin OS" and "End OS".

Signs reading "Switch Control" are located approximately 2 miles in advance of RCS locations.

Operating Instructions:

1. Upon passing a 'Switch Control' sign use the radio keypad to transmit the proper sequence (designated in the timetable) to request the desired switch position and receive radio transmitted verbal confirmation of switch alignment at that location.
2. Once radio confirmation of proper switch alignment has been received, movement through the RCS location must be made within 10 minutes of confirmation or the movement must approach the RCS location prepared to stop.
3. If radio confirmation of proper switch alignment is not received, movement must approach the RCS location prepared to stop until the switch point indicator can be clearly seen to indicate proper switch alignment. Notify the train dispatcher that radio confirmation was not received.

Stop and Inspect Switch

If the radio message received is "Switch Not Lined" or no radio message is received and the switch point indicator continues to display an indication to stop and inspect switch:

1. Movement must stop before entering the OS circuit limits.
2. After stopping, the RCS may be operated by unlocking the box on the side of the signal bungalow and using the push-button.
3. After push-button operation is attempted, if the switch point indicator continues to display an indication to stop and inspect switch, employee must operate the switch by hand as outlined in Rule 9.13.1 (Hand Operation of Dual Control Switches).

Note: If the switch point indicator can be clearly seen to indicate proper switch alignment, the movement may proceed without stopping. Notify the train dispatcher of malfunction.

Movement Completely Through a Radio Controlled Switch Location

After movement has been made through a RCS location, the switch point indicator will display an indication to stop and inspect switch and the switch will remain in the normal position. If switch was reversed, it will return to the normal position.

Route Change

If necessary to change the route that was originally requested, movement must stop outside the OS circuit limits and:

- Wait 15 minutes and then enter the proper sequence to line the switch for the desired route.
- Wait 15 minutes and then operate the push-button on the signal bungalow to line the switch for the desired route.
or
- Operate the switch by hand as outlined in Rule 9.13.1 (Hand Operation of Dual Control Switches) to line the switch for the desired route.

Additional Instructions

The RCS will not operate if the OS circuit at the RCS location is occupied. A proper sequence or push-button request must be made and confirmation of proper switch alignment must be received before movement enters the OS circuit limits at the RCS location.

Rule : 8.20 Derail Location and Position

Change last paragraph to read:

Derails that are used in conjunction with worker protection must be in the derailing position with proper flag displayed only when their use is required for such protection. When their use is not required for protection:

- Remove portable derails, then remove flag.
or
- Lock fixed derails in non-derailing position with an effective locking device, then remove (take down) flag.

Rule : 9.8 Next Governing Signal

Add:

This rule does not apply on UPRR. Comply with the signal indication until passing the next governing signal.

Rule : 9.9 Train Delayed Within a Block

Add to Part B:

Passenger trains operating in push/pull service must not exceed 40 MPH until the next signal is visible and that signal displays a proceed indication.

Rule : 9.11 Movement from Signal Requiring Restricted Speed

Add exception to read:

Exception:

If a train is within ACS or ATC territory, with operative cab signals, the train may immediately comply with the cab signal indication.

Rule : 9.12.4 ABS Territory

Add:

D. Control Point Locations

At control point locations, if no conflicting movement is evident, a crew member must immediately contact the control operator for authority to pass the Stop indication unless the control point is within the train's track permit limits.

Add:

Application:

Examples of joint authority beyond the signal in Part A 1: Work Between, Yard Limits, Restricted Limits.

9.13 When Instructed to Operate Dual Control Switches by Hand

Change Rule To Read :

If the control operator cannot line the dual control switch to the desired position, or the control machine does not indicate that the switch is lined and locked, before authorizing movement the control operator and crew must have a clear understanding specifying:

- The control point.
- Route.
- Switch(s) that must be operated by hand.

The control operator may then authorize movement past the Stop indication and instruct the employee to operate the switch(s) by hand.

Movement may then proceed as authorized only after a clear understanding is reached with all crew members specifying the control point, route and switch(s) that must be operated by hand.

Before passing over a switch specified by the dispatcher, the train must stop and the employee must operate the switch by hand as outlined in Rule 9.13.1 (Hand Operation of Dual Control Switches). After at least one unit or car has passed over the switch points, the employee must return the switch to power unless otherwise instructed by the control operator. If any additional facing point switches are in the route, the crew must stop and verify the switches are lined for the intended route and the switch points fit properly.

Rule : 9.13.2 Performing Switching

Add new rule:

When necessary to place a dual control switch in hand operation to perform switching the crew must:

- Complete a job briefing with the control operator on moves to be made.
- Receive authority to enter the control point.
- Receive permission to place the switch in hand operation.

Crew will then comply with Rule 9.13.1, except do not return switch to power until final movement has been made over the switch.

Notify the control operator when switch has been returned to power. Further movements must be made by signal indication or as authorized by the control operator.

Rule : 9.14.2 Controlled Block System (CBS)

Add new rule:

On tracks designated in the timetable, movements will run in the direction specified by verbal authority from the train dispatcher or a controlled signal displaying a proceed indication. This authority will establish the current of traffic for the movement. Before granting authority, the train dispatcher must know that conflicting movements are protected.

A train must not enter or occupy any track in CBS limits unless:

- A controlled signal indicates proceed.

or

- Verbal authority is granted.

A movement must proceed only in the direction authorized unless authority is granted by Rule 9.15 (Track Permit).

A movement authorized in one direction must report to the train dispatcher when it has cleared the main track within CBS limits. A movement that clears the main track within CBS limits must not reenter that track without new authority unless within Track Permit limits.

In CBS limits, Rule 9.15 (Track Permits) is in effect.

Rule : 9.15.1 Issuing Track Permits

Change second paragraph under Track Permit Acknowledgment part to read:

The employee will repeat the preprinted information and information transmitted by the train dispatcher including what has been entered in the summary, "This authority has (total number) boxes marked: (individual box numbers)."

Rule : 9.17 Entering Main Track at Hand-Operated or Spring Switch

Part A. When Hand Operation of a Spring Switch or 5 Minute Wait Is Not Required

Change condition (2) to read:

2. Track occupancy indicator indicates track is clear at locations specified in timetable special instructions.

Rule : 9.23.1 Guidelines While Block System Is Suspended**Change Rule To Read :**

When a block system or sections of it are suspended, the following guidelines govern:

A Track Bulletin will specify, when applicable:

- The affected tracks and milepost limits of the suspension.
- The location(s) of flagmen who may authorize trains to enter or to proceed at intermediate locations within the suspended limits, specifying track(s) when necessary.
- The position of dual control switches at the end of multiple main tracks.
- Dual control switches that have been locked in hand operation for main track movement.
- Actions to be taken where automatic crossing warning devices are affected.
- When track warrants may be used to authorize movement.

Crew members must:

- Follow rules that apply to non-signaled territory and not exceed 59 MPH for passenger trains or 49 MPH for other trains.
- Disregard extinguished or illuminated block and interlocking signals, unless specified by track bulletin, except when those signals:
 - Govern movements over railroad crossings at grade.
 - Are connected with trackside warning detectors.
- Approach the beginning and end of the suspended limits prepared to stop. When suspension ends at a block signal identified as in service, trains must approach that signal prepared to stop until its aspect can be clearly seen.
- If suspension begins at an in service control point, signal indication will only authorize movement through the control point, not beyond it.
- If suspension does not end at a signal identified as in service, trains leaving the limits and moving into block system territory must move at restricted speed to the first signal in service beyond the limits.

Movements over Railroad Crossings at Grade and Drawbridges:

- Signals that govern movement over railroad crossings at grade and drawbridges must be regarded as displaying a Stop indication, regardless of the aspect displayed, unless the track bulletin specifies that the signals are in service or flagman at that location authorizes movement.
- Crew members must not rely on time release or key controller operation as adequate protection to move over the crossing, unless instructed that they are in service.

Dual Control Switches:

Unless notification has been received from the train dispatcher that dual control switches are:

- Locked in hand operation and are lined for intended movement.

or

- Atended by a flagman;

Trains must stop and crew member must:

- Hand operate and lock dual control switches for main track movement.
- Leave switches locked in hand operation.
- Notify the train dispatcher that switches have been locked in hand operation and lined for main track movement.

Remote control switches not equipped for hand operation will be spiked or clamped and all concerned notified.

Spring Switches:

Spring switches removed from service must be spiked and those concerned notified. If spring switches are left in service, trains making facing point movements must be prepared to stop and test the switch, unless it is known that the switch is properly lined for the diverging route.

Block System Returned to Normal:

Train Dispatcher must notify crew members within the affected territory before permitting other trains to enter the limits when the block signal system will be returned to normal operation.

Rule : 10.3 Track and Time

Application of the second paragraph:

When the track and time includes "Switch Yes," the limits include that switch and the track between the absolute signals governing movement over the switch.

Application of the boxed sentence:

Track and time limits are sometimes issued across an interlocking. Track and time provides authority to be on the main track in CTC on both sides of the interlocking; however, it does not provide authority to occupy the interlocking limits. Interlocking rules must be complied with.

Rule : 10.3.4 Track and Time Acknowledgment

Change second paragraph to read:

The employee will repeat the preprinted information and information transmitted by the train dispatcher including what has been entered in the summary, "This authority has (total number) boxes marked: (individual box numbers)."

Rule : 12.1 Required Equipment

Delete the word "passenger".

Rule : 13.1.5 Departure Test

Add new rule :

A cab signal departure test must be made at the initial terminal of the locomotive. The certification of the departure test shall be recorded on the proper form and posted in the locomotive cab, with a copy left at the test location for filing in the office of the supervisor having jurisdiction. If it is impractical to leave a copy of the certification and test results at that location, then the results must be transmitted to either the train dispatcher or another designated individual before entering equipped territory. A written record of the test results and the name of the person performing the test shall be retained for 92 days at these locations.

The departure test must determine that:

1. The ACS device is operative and cut-out handle is sealed.
2. The cab signal apparatus reflects all aspects according to the code rates.
3. Acknowledgment of all more restrictive aspects will silence the audible indicator and forestall a penalty brake application.
4. Not acknowledging the restrictive indication will initiate a full service penalty brake application within eight (8) seconds.

Rule : 14.0 RULES APPLICABLE ONLY WITHIN TRACK WARRANT CONTROL (TWC) LIMITS

Change form to read :

TRACK AUTHORITY FORM – T&Y

Track Warrant Track & Time Track Permit

Number: _____ Date: _____
 To: _____ At: _____

1. Track warrant _____ is void
2. Not in effect until after the arrival of _____ at _____
3. Proceed from _____ to _____ on _____ track _____ Subdivision
4. Hold Main Track at last named point
5. Clear Main Track at last named point
6. Do not foul limits ahead of _____
7. Work between _____ and _____ on _____ track _____ Subdivision
8. Authority granted between CP _____ on _____ (track) Switch Yes / No
 and CP _____ on _____ (track) Switch Yes / No

Joint _____ Blocked until _____ Extended to _____

9. Limits jointly occupied between _____ and _____
 (NOTE: Trains must move at restricted speed within joint authority limits)

10. Joint with _____ between _____ and _____
 Joint with _____ between _____ and _____
 Joint with _____ between _____ and _____

11. Do not exceed _____ mph between _____ and _____
 No flags displayed _____ Flags displayed at MP _____ for _____ trains
 Do not exceed _____ mph between _____ and _____
 No flags displayed _____ Flags displayed at MP _____ for _____ trains
 Do not exceed _____ mph between _____ and _____
 No flags displayed _____ Flags displayed at MP _____ for _____ trains

12. Comply with Procedure _____ at/between MP _____ and MP _____
 Comply with Procedure _____ at/between MP _____ and MP _____
 The _____ switch at _____ is lined for siding
 The _____ switch at _____ is lined for siding
 Leave the _____ switch at _____ lined for siding
 Leave the _____ switch at _____ lined for siding

Box(es) marked: _____
 OK at _____ Dispatcher _____ Relayed to _____ Copied by _____

Clear of _____ at _____ ~~Dispatched~~ by _____
 Clear of _____ at _____ ~~Dispatched~~ by _____
 Clear of _____ at _____ ~~Dispatched~~ by _____

Limits reported clear at _____ by _____

Rule : 14.3 Operating with Track Warrants

Change diagram "A" as follows:

Change that part reading:

Authority Boxes 2 and 8

To read:

Authority Boxes 3 and 4

Change that part reading:

Authority Box 4 between Anna and West Switch Bess

To read:

Authority Box 7 between Anna and West Switch Bess

Rule : 14.6 Movement Against the Current of Traffic**Application:**

This rule does not apply on UPRR unless designated in the timetable.

Rule : 14.7 Reporting Clear of Limits**Change entire rule to read:**

Before reporting clear of the limits or reporting having passed a specific location, confirm with the dispatcher that the conductor and engineer have discussed their location and are in agreement with limits or warrant being released.

Communication must include the track warrant number when releasing track warrants.

A train without a crew member on the rear and operating in non-signaled or double track territory may report clear of the limits, report having passed a specific location, or release the track between two specific locations only when it is known the train is complete. This must be determined by one of the following ways:

1. The rear of the train has a rear-end telemetry device, and air pressure on the head-end device indicates brake pipe continuity.
2. An employee verifies the marker is on the rear of the train.
3. A crew member can observe the rear car of the train on which the marker is placed.
4. The train is stopped, and an inspection verifies that the marker is on the rear car of the train.
5. A trackside warning detector transmits an axle count for the train, and the axle count duplicates the axle count transmitted by the previous trackside warning detector.

In non-signaled territory comply with the requirements outlined in Rule 8.3 (Main Track Switches) and advise the train dispatcher:

- All main track switches operated have been restored and locked in normal position.
- The crew has completed the job briefing.
- The conductor report form is properly initialed.

When a hand-operated switch is used to clear the main track, except where Rule 6.13 (Yard Limits) or Rule 6.14 (Restricted Limits) are in effect, advise the train dispatcher of the position of the switch and that the switch is locked when reporting clear of track warrant limits. Train dispatcher shall repeat the reported switch position and employee releasing the limits shall confirm to the train dispatcher this information is correct.

Application

Engineer and conductor are jointly responsible to ascertain and agree on the exact location their entire train has passed before reporting past a specific location or clearing their track warrant limits.

'Roll-up'

When the train dispatcher requests a crew to report a train's location to shorten up or 'Roll-up' an active track warrant the following communication will apply:

Train dispatcher: 'I need to roll-up track warrant (number). What will protect the rear of your train, over?'

When reporting past a specific location:

- Engineer and conductor will job brief and agree on train's location and location entire train is past.
- When using a milepost location, communication with the train dispatcher will include a whole milepost number (not tenths) the entire train is past.
- When using railroad identifiable points that include a direction, such as a siding switch, state and spell direction i.e. "North (N O R T H) siding switch at Dora".

Conductor: 'Milepost (number) covers the rear of our train, dispatcher. Conductor (Name) ready to copy, over

After initial communication the train dispatcher will initiate 'Roll-up':

Sample radio transmissions:

Train Dispatcher: 'Track Warrant #4655, UP 2467 is clear of MP 362, over.'

Conductor: 'Track Warrant #4655, UP 2467 is clear of MP 362, over.'

Train Dispatcher: 'That is correct at 0817, dispatcher BAF, copied by Smith, over.'

Conductor: 'Correct at 0817, dispatcher BAF, Smith, over.'

Train Dispatcher: 'That's correct, Dispatcher Out.'

Rule : 14.9 Copying Track Warrants

Change Part A. to read :

A. Transmitting Track Warrants

1. The train dispatcher will transmit the track warrant. The train dispatcher will not transmit the summary.
2. An employee will enter all of the information transmitted by the train dispatcher. The employee will then check the information copied to ensure all items are correct and enter in the summary the total number of boxes marked and individual box numbers.
3. The employee will repeat the preprinted and information transmitted by the train dispatcher including what has been entered in the summary, "This track warrant has (total number) boxes marked: (individual box numbers)."
4. The train dispatcher will check the repeat and summary, and if all information including the summary is correct; will say "OK" and give the time and his/her initials.

The employee will enter the OK time and the train dispatcher's initials on the track warrant and repeat them to the train dispatcher.

Rule : 14.11 Changing Track Warrants

Add Note:

Note: This does not prohibit additions or changes authorized by the rules (e.g. Rule 14.7).

Rule : 14.13 Mechanical Transmission of Track Warrants

Add the following paragraph:

The crew must verify the designated limits and any conditions of track warrants that convey authority with the train dispatcher before initiating movement on main track.

Rule : 15.0 TRACK BULLETIN RULES - TRACK CONDITION SUMMARY

Form B's will have asterisks before and after the bulletin. When flags are displayed in less than the prescribed distance, the milepost and direction will be shown. If flags are not displayed "NOT" will be shown.

Example: Track Condition Summary

NO: (Track Warrant) TO: (Train ID)

Subdivision (000)

42683(2) 42554(3) 42276(2) 42034

LINE NO.	LIMITS		TRACK(S)	FLAG	FOR	FROM	UNTIL
	FROM MP	TO MP	AFFECTED	AT MP	DIR	DATE	DATE TIME

FORM A NO. 42683

1.	43.9	44	40	MT 2	43	WWD	04/07/14 1220
----	------	----	----	------	----	-----	---------------

2.	46.6	47.1	40	MT 2			04/11/14 1318
----	------	------	----	------	--	--	---------------

FORM A NO. 42554

1.	51	51.2	40	MT 2			04/10/14 1102
----	----	------	----	------	--	--	---------------

2.	55.5	55.6	40	MT 2			04/10/14 0100
----	------	------	----	------	--	--	---------------

LINE NO.	LIMITS		TIME	TRACK(S)	FLAG	FOR	GANG
	FROM MP	TO MP	FROM UNTIL	AFFECTED	AT MP	DIR	NO / FOREMAN

*****FORM B NO. 42276*****

ON 04/14/14 RULE 15.2 APPLIES WITHIN THE FOLLOWING LIMITS:

1.	113	118	0700 1900	MT 1	112	WWD	4763 GUTZ
----	-----	-----	-----------	------	-----	-----	-----------

2.	113	118	0700 1900	MT 2	112	WWD	4763 GUTZ
----	-----	-----	-----------	------	-----	-----	-----------

LINE NO.	LIMITS		TRACK(S)	FLAG	FOR	FROM	UNTIL
	FROM MP	TO MP	AFFECTED	AT MP	DIR	DATE	DATE TIME

FORM A NO. 42554

3.	114.4	116.3	60	MT 2			04/10/14 1118
----	-------	-------	----	------	--	--	---------------

FORM C NO. 42034

Date 04/03/14

1. SIDING AT WILD OUT OF SERVICE SWITCHES ARE SPIKED AND TAGGED

For Train Movements in the Opposite Direction.

Example: Track Condition Summary

NO: (Track Warrant) TO: (Train ID)

Subdivision (000)

42276(2) 42554(3) 42683(2) 42034

LINE NO.	LIMITS FROM MP TO MP		TIME FROM UNTIL	TRACK(S) AFFECTED	FLAG AT MP	FOR DIR	GANG NO / FOREMAN	
*****FORM B NO. 42276*****								
ON 04/14/14 RULE 15.2 APPLIES WITHIN THE FOLLOWING LIMITS:								
1.	118	113	0700 1900	MT 1	112	WWD	4763	GUTZ
2.	118	113	0700 1900	MT 2	112	WWD	4763	GUTZ
LINE NO.	LIMITS FROM MP TO MP		MPH	TRACK(S) AFFECTED	FLAG AT MP	FOR DIR	FROM DATE	UNTIL DATE TIME
FORM A NO. 42554								
3.	116.3	114.4	60	MT 2			04/10/14	1118
2.	55.6	55.5	40	MT 2			04/10/14	0100
1.	51.2	51	40	MT 2			04/10/14	1102
FORM A NO. 42683								
2.	47.1	46.6	40	MT 2			04/11/14	1318
1.	44	43.9	40	MT 2	43	WWD	04/07/14	1220

FORM C NO. 42034 DATE 04/03/14
 1. SIDING AT WILD OUT OF SERVICE SWITCHES ARE SPIKED AND TAGGED

Below the last line of data there will be a blank line then the page number. Nothing should be printed below the page number.

OK times and Train Dispatchers initials are not shown.

Form A and Form B Track Bulletins

On the subdivision summary page, the track bulletin number for Form A and Form B bulletins will have, in parenthesis, the number of line items for that track bulletin. Because of the sorting by milepost, any particular Form A or Form B bulletin may be split by another Form A or Form B in the body of the Track Condition Summary.

Form C Track Bulletins

Form C track bulletins for a particular subdivision will be listed after the Form A and Form B bulletins for that subdivision with two exceptions.

- Listed first on the Track Condition Summary will be Form C bulletins that apply to the entire system. The subdivision heading will be "System Bulletin All Subdivisions".

- Form C bulletins issued on multiple subdivisions will be listed next. These will only be listed once; the subdivision heading will show all the subdivisions that the bulletin has been issued on.

15.1 Track Bulletins

Example Track Warrant for Bulletins
 NO: (Track Warrant) FROM: (Location) TO: (Location) DATE: 4/25/2014
 TO: (Train ID) (Train Symbol) AT: (Location)
 ON: Subdivision (000)
 16.(X) 4 TRACK BULLETINS IN EFFECT: 42034 42683 42554 42276
 17.(X) OTHER SPECIFIC INSTRUCTIONS:
 THIS WARRANT IS USED TO DELIVER TRACK BULLETINS ONLY AND DOES NOT
 CONVEY AUTHORITY TO OCCUPY THE MAIN TRACK.
 OK (time) DISPATCHER ABC RELAYED TO: COPIED BY:

15.1 Track Bulletins

Change fifth paragraph under Receipt and Comparison of Track Bulletins; add note as follows:

At locations where track warrants listing track bulletins are received by printer or fax, crew members must verify that route description, if printed, covers the intended route of their train and that the track warrant includes the correct train ID and train symbol of their train. If it does not, contact the train dispatcher and determine if the track warrant is valid. Also, crew members must check the date and "OK" time on the track warrant and if the track warrant is over 4 hours old, contact the train dispatcher and determine if additional track bulletins are needed.

Note: After receiving track warrant, if a crew is assigned to operate a train with a train symbol different than the one listed on their track warrant, the above applies.

Application:

Having a copy of the 'Track Condition Summary' meets the requirement of having a copy of the bulletins listed.

Rule : 15.1.1 Changing Address of Track Warrants or Track Bulletins

Add second sentence to rule reading:

However, crews performing yard or hostling service, using the main track at a yard or terminal, may change the engine number or train symbol on track warrants or track bulletins received from the train dispatcher without communicating with the train dispatcher.

Rule : 15.2 Protection by Track Bulletin Form B

Change third paragraph to read:

A crew member must attempt to contact the employee in charge sufficiently in advance to avoid delay, giving the train's location and track being used. The crew member must inform the employee in charge if there are any

excessive dimension loads in the train. The employee in charge will use the following format to establish communication with the train:

Foreman (name and/or gang number) using Track Bulletin No.____ (specifying line number when necessary) between MP____ and MP____ (specifying subdivision when necessary).

Change first bullet in part A. Instructions to read:

- (Train ID) may pass the red flag at MP____ and proceed at (one of the following), (specifying track when necessary):

Application:

When two Form B track bulletins meet at adjoining subdivisions resulting in a continuous Form B restriction with the same employee in charge and the same time limits, the employee in charge may grant permission and give instructions to the train concerning both Form B's at the same time. The communication will begin using the following format:

Foreman (name) using 2 track bulletins. Track Bulletin No.____ Line No. _____ Subdivision _____ and Track Bulletin No. ____ Line No. _____ Subdivision _____ between MP _____ and MP _____ (outer mileposts).

Rule : 15.2.2 Protection of Non-Railroad Contractors

Add new rule :

When authorized non-railroad employees or non-railroad contractors are working near a main track or controlled siding, protection will be provided as outlined below.

- When working within 10 feet of the track, protection will be provided by use of a track bulletin, track and time, track permit, track warrant, or other means of protection. Except in California or when work will be performed foul of the track, a Form C track bulletin may be used:

"EFFECTIVE ON (DATE) FROM (TIME) UNTIL (TIME) BETWEEN MP____ AND MP____
PROCEED PREPARED TO STOP SHORT OF MEN AND EQUIPMENT NOT TO EXCEED
20 MPH UNLESS INSTRUCTED OTHERWISE BY FOREMAN (NAME)."

Train receiving track bulletin must proceed within the limits prepared to stop short of men and equipment and not exceed 20 MPH until leading wheels have cleared the limits unless instructed otherwise by the employee in charge. Whistle signal 5.8.2 (8) will be sounded.

- When working between 10 and 25 feet of the track, trains will be notified of their presence by issuance of a Form C track bulletin that reads:

"CONTRACTORS ARE WORKING AT LEAST 10 FEET FROM THE TRACK AT THE
FOLLOWING LOCATION(S): (IDENTIFIED AT MP____ OR BETWEEN MP____ and
MP____)."

A watchman must ensure workers and equipment remain at least 10 feet from the track.

Railroad employees who observe work being performed within the boundaries of railroad right-of-way without notification as outlined above should report this information to the train dispatcher for further action.

Rule : 15.4 Protection when Tracks Removed from Service

Change Rule To Read :

Before a track is removed from service it must be protected.

A track bulletin may protect tracks removed from service by designating the track and naming the points at each end of the track. Trains must not use this track unless the track bulletin states the name or title of an employee who may authorize use. This person will direct all movements. Movements must be made at restricted speed unless instructed otherwise by the employee in charge. Movements may then proceed as instructed and in accordance with signal indications.

The control operator must grant authority to pass an absolute signal displaying a Stop indication at control points at either end of the out of service track. Except at interlockings, after stopping, movements may pass Stop indications within the out of service track. When required, the train dispatcher must advise crews of alternate routes and switch positions.

Rule : 15.12 Relief of Engineer or Conductor During Trip

Change Rule To Read :

When being relieved before a trip is finished, contact the train dispatcher and comply with instructions concerning the handling of track warrants, track bulletins, and other instructions.

When crew members are called to relieve a train at other than the initial station, crew members must contact the train dispatcher before leaving the initial station and determine if any track warrants, track bulletins, or other instructions must be obtained.

Comparison of Information

The relieving conductor and engineer must compare:

- Track warrants, track bulletins, instructions, and pertinent information with each other.
- Their track warrant for bulletins number with the train dispatcher. The train dispatcher will verify that the warrant includes all required track bulletins and will provide any additional restrictions required for the route.

Rule : 15.12.1 Relief of Engineer or Conductor at Crew Change

Add new rule :

When making a crew change, relieving crew members must determine from the inbound crew if there are any unforeseen restrictions issued that have not been fulfilled/traversed or tasks in progress (e.g. air test). When not relieved by another crew, the inbound crew must leave this information in writing for the relieving crew and notify the dispatcher of tasks not completed. In addition, at locations where a yardmaster is on duty, the yardmaster must also be notified.

15.13 - Voiding Track Bulletins

B. Issue Track Bulletin or a Track Warrant to Void a Track Bulletin

Change that part reading:

Issue a track bulletin or use the line designated "OTHER SPECIFIC INSTRUCTIONS" on a track warrant using one of the following examples:

To read:

Issue a track bulletin or use the lines designated on Box 12 on a track warrant using one of the following examples:

Rule : 15.13.1 Verbally Raising a Speed Restriction

Add new rule:

The train dispatcher may verbally raise the speed on an existing speed restriction, Rule 2.14 (Mandatory Directive) applies. The train dispatcher must identify the existing speed restriction; e.g., Form A 1234, line 2. After a crew member informs the train dispatcher they have located the speed restriction and are ready to copy, the train dispatcher will use the following format:

(Train ID) Track Bulletin _____, Line No MP ___ to MP ___, ___MPH (adding track if necessary), speed is increased to ___ MPH.

The employee will draw a line through the existing speed on the track condition summary form, write the new speed adjacent to the old speed, and then repeat the information to the train dispatcher. If the information is correct, the train dispatcher will state "OK", with the time and the train dispatcher's initials, which must be repeated by the employee.

The new speed must not be acted upon until the train dispatcher states 'OK', and gives the time and the train dispatcher's initials.

Rule : 17.4 Departure Test Requirements

Application:

Procedures for Locomotives with Automatic Testing Equipment

A. Locomotives with solid state Union Switch & Signal ATC/CCS System:

1. With the locomotive standing on dead track, fully apply the independent brake and release the automatic brake and:
 - a. Place the generator field switch in the ON position.
 - b. Turn on the signal circuit breaker.
 - c. Place the reverser in Forward.
2. Place CNW Cut-out switch in cut in position.
3. Place CNW Cut-out cock in cut in position and seal.
4. After opening the departure test box, put the test switch in the ON position. As the ATC system begins internal testing, Clear and Restricting cab signals are turned off and the motion light flashes.

5. After the internal test is complete (approximately 10 seconds), a Clear cab signal is illuminated and the acknowledge alarm is activated. Press and release the acknowledge button.

a. The Clear is then turned off.

b. A Restricting cab signal is illuminated and acknowledge alarm is activated. Press and release the acknowledge button.

c. The Restricting is then turned off.

6. The system then drives the speedometer to:

a. Locate the Union Pacific overspeed setting and repeats this process four times.

b. Test the CNW Restricted overspeed setting of 23 MPH.

c. A Restricting is illuminated and acknowledge alarm is activated. Press and release the acknowledge button. The system then drives the speedometer to the CNW high speed setting.

d. A Clear is illuminated and acknowledge alarm is activated. Press and release acknowledge button.

e. The Clear is turned off and speedometer is returned to 0 MPH.

7. Fully release independent brake.

a. The acknowledge alarm is activated (do not acknowledge).

b. A penalty brake application should occur within 8 seconds.

c. Recover the air.

8. The successful completion of the departure test will result in:

a. The overspeed alarm beeping continuously.

b. All signal lights flashing.

9. Place the Departure Test Switch to OFF position.

10. If the locomotive is to be operated in non ATC territory prior to entering ATC territory, push the Arm button after completing the departure test (see Item 8).

11. If departure test is unsuccessful, repeat the test. If the test is again unsuccessful, perform an ATC departure test as prescribed by Rule 17.4.

B. Locomotives with MICROCAB System:

1. Turn on the DEPT TEST SWITCH and:

- a. The MOTION indicator is illuminated throughout Departure Test. The overspeed alarm activates intermittently for 1 second, then goes silent to indicate the start of the test.
- b. The system waits for 6 seconds before proceeding to the next step.
- c. The overspeed alarm activates intermittently for 1 second, then is silent to indicate the end of the delay.
- d. Within 5 seconds the Clear cab signal is illuminated.

2. When the acknowledge alarm is activated, the acknowledge switch must be pressed and released within 6 seconds to avoid a penalty brake application.

- a. Within 5 seconds the Clear is extinguished and the Restricting cab signal illuminated. When the acknowledge alarm is activated press and release the acknowledge switch.
- b. The Restricting cab signal is then extinguished. Failure to respond within 6 seconds results in a penalty brake application.
- c. The overspeed alarm is activated intermittently for 1 second, then is silent to indicate the completion of carrier tests.

3. The system then drives the speedometer to the high speed setting and:

- a. Visually confirm that the expected speed (within 3 MPH) is displayed by the speedometer.
- b. The acknowledge alarm is activated continuously. Press and release the acknowledge switch.

4. The system then drives the speedometer to the restricted overspeed of 23 MPH. Visually confirm that the speedometer displays the expected speed (within 1 MPH).
 - a. The acknowledge alarm sounds continuously. Press and release the acknowledge switch.
 - b. The system stops driving the speedometer and it returns to 0 MPH.
 - c. The overspeed alarm sounds for approximately 1 second.
 - d. When the alarm is silent, the test is confirmed.

5. The system waits indefinitely for the operator to press and release the acknowledge switch.
 - a. Upon releasing the switch the overspeed alarm is activated intermittently for 1 second, then silenced to indicate the start of a penalty delay.
 - b. In about 6 seconds, the system initiates a penalty brake application. The acknowledge alarm sounds continuously.
 - c. Recover the air.

6. The intermittent sound of the overspeed alarm prior to the DEPT TEST SWITCH being turned off indicates that the Departure Test has been successfully made.
 - a. Turn off the DEPT TEST SWITCH. A Restricting cab signal is illuminated.
 - b. The acknowledge and over speed alarms are silent.

If the locomotive is to be operated in non ATC territory prior to entering ATC territory, push the Arm button after completing the departure test.

Rule : 17.4.2 ATC Automatic Cut-in Circuit

Add new rule :

A departure test entering ATC territory is not required for engines equipped with the automatic ATC cut-in circuit when the following conditions are met:

- The ATC actuator is cut in and sealed.
- The motion light is illuminated enroute to ATC territory at speeds of 6 MPH or more.

At ATC Automatic Cut-in Test Locations:

- The cab signal will display a Clear aspect when passing a "B" sign (Beginning ATC test section). The speed whistle will sound for 3 or 4 seconds.
- The cab signal will change to a Restricting aspect when the "E" (End ATC test section) is passed.
 - When train speed exceeds 40 MPH the high speed whistle will sound until a Clear aspect is displayed.
 - When train speed is below 40 MPH the horn will sound and must be acknowledged.

Rule : 17.7 ATC Failure/Cut-out Enroute

Add note:

Note: Continuous block signal territory is designated on the subdivision page where ATC is in effect.

Rule : 17.8 Improper Display

Add note:

Note: The cab signal indication may change within 300 feet of a hand operated switch (before or after). The cab signal may change from Restricting to Clear before (within 300 feet) an opened hand operated switch. This is normal due to track circuitry and would not be considered an improper display of the cab signal.

GLOSSARY

Abbreviations

Add:

OCT Other Controlled Track

SI Special Instructions

SSI System Special Instructions

Add:

Adjacent Track

Parallel tracks that are not separated by a single lane roadway or similar distance are considered adjacent tracks.

Note: This definition only applies when determining if Track Breach Protection is required.

Automatic Train Control (ATC)

Change to read:

A system to enforce compliance with cab signal indications. If the train exceeds a predetermined speed for a given cab signal indication and speed is not reduced at a sufficient rate, brakes are automatically applied.

Add:

Breach

To enter an area between two adjacent tracks.

Add:

Cab Red Zone

A "Cab Red Zone" (CRZ) exists during critical times or when multiple tasks are occurring. During a Cab Red Zone, an environment must be created in the locomotive control compartment that focuses exclusively on controlling the train, verbally communicating restrictions, and proper application of the rules.

Crossover**Change to read:**

A combination of two switches that connect two adjacent tracks, normally used for crossover movements.

Add:**Electronic Device**

An electronic or electrical device used to conduct oral, written, or visual communication; place or receive a telephone call; send or read an electronic mail message or text message; look at pictures; read a book or other written material; play a game; navigate the Internet; navigate the physical world; play, view, or listen to a video; play, view or listen to a television broadcast; play or listen to music; execute a computational function; or, perform any other function that is not necessary for the health or safety of the person and that entails the risk of distracting the employee or another employee from a safety related task.

Add:**Gravity Switch**

A switching process using gravity to reposition cars on the opposite end of a locomotive, without using locomotive to start movement of cars. See Rule 7.7.1.

Add:**Humping Cars**

Allowing cars to roll under their own momentum during cresting operations at a hump yard.

Add:**Jump Frog**

A main track frog designed for use with low traffic turnouts. The main track side is made up of an unbroken rail and the turnout side carries the wheel over the main track rail by supporting the flange of the wheel.

Add:**Kicking Cars**

To shove a car a short distance and uncouple it in motion.

Add:**Other Controlled Track (OCT)**

A segment of track (not main track or siding) between Control Points that is governed by GCOR Chapter 10 (CTC) rules. Locations of OCT are listed in the timetable.

Add:**Radio Speed Restriction**

A speed restriction received from the train dispatcher while enroute.

Add:**Railroad Operating Employee**

An individual who is engaged in or connected with the movement of a train including a hostler, a train employee providing commuter or inter-city rail passenger transportation, or is subject to hours of service governing train service employees.

Add:

Spur Track

A track connected to another track at only one end, also referred to as a stub track.

Add:

Stowed

When required by Rule 2.21, electronic devices including cell phones, laptops, cameras, DVD's, etc., must be turned off and placed out of sight in the employee's grip, luggage, back pack, etc. Electronic devices placed in pockets or device holsters are not considered as being stowed.

Add:

Switch Providing Direct Access

A switch that if used by rolling equipment could permit the rolling equipment to enter the track and couple to other equipment.

Add:

Train Dispatcher

Employee assigned to operate a CTC or interlocking machine, transmit or deliver orders affecting train movements, and supervise train movements and any employees connected with that movement, including control operators.

Add:

Train ID

Trains will be identified by initials and engine number, adding the direction when required. When an engine consists of more than one unit or when two or more engines are coupled, the number of one unit only will be illuminated as the identifying number. The identifying number will be the number of the lead unit, unless changing direction during a trip or tour of duty when that unit is no longer the lead unit.

Add:

Yard Access Crossing

A grade crossing that is located within the physical confines of a railroad yard and is either:

- Open to unrestricted public access;
- or
- Open to persons other than railroad employees going about their normal duties, e.g., business guests or family members.

[^Top](#)

Item 10-B: Reserved

Reserved

Rule Updated Date

July 2, 2013

[^Top](#)

Item 10-C: Air Brake & Train Handling Rules, Chapters 30 to 39

[^Top](#)

Item 10-D: Maintenance of Way Rules, Chapters 40 to 69

[^Top](#)

Item 10-E: Safety Rules, Chapters 70 to 89

Statement of Safety Policy

Change entire policy to read:

It is Union Pacific Railroad's policy to conduct its business in a manner that addresses the safety of employees, contractors, customers and the communities we serve. Union Pacific will strive to prevent all incidents, accidents, injuries and occupational illnesses through the active participation of all stakeholders. The company is committed to continuous efforts to identify and manage safety risks associated with its activities.

Accordingly, Union Pacific's policy is to:

- Encourage and support:
 - Employee engagement in workplace safety;
 - A Total Safety Culture;
 - Care for employees;
- Maintain infrastructure and equipment, establish documented safety management systems, provide training and conduct operations in a manner aimed at safeguarding people and property;
- Communicate with employees, contractors, communities and customers with respect to their roles and responsibilities surrounding rail safety.
- Comply with all applicable laws, regulations, rules and instructions.
- Respond quickly, effectively, and with care to emergencies, accidents, or incidents in cooperation with authorized government agencies;
- Undertake appropriate reviews and evaluations of its operations to measure progress, foster compliance with this policy and continually improve.

Change Rule To Read :

It is Union Pacific Railroad's policy to conduct its business in a manner that addresses the safety of employees, contractors, customers and the communities we serve. Union Pacific will strive to prevent all incidents, accidents, injuries and occupational illnesses through the active participation of all stakeholders. The company is committed to continuous efforts to identify and manage safety risks associated with its activities.

Accordingly, Union Pacific's policy is to:

- Encourage and support:

- Employee engagement in workplace safety;
- A Total Safety Culture;
- Care for employees;
- Maintain infrastructure and equipment, establish documented safety management systems, provide training and conduct operations in a manner aimed at safeguarding people and property;
- Communicate with employees, contractors, communities and customers with respect to their roles and responsibilities surrounding rail safety.
- Comply with all applicable laws, regulations, rules and instructions.
- Respond quickly, effectively, and with care to emergencies, accidents, or incidents in cooperation with authorized government agencies;
- Undertake appropriate reviews and evaluations of its operations to measure progress, foster compliance with this policy and continually improve.

70.18 - Fusees

A. Fusee Storage

Change first bullet to read:

- In metal containers inside motor vehicles and other designated equipment.

71.4 - Hard Hats

Change first sentence to read:

Hard hats must be worn at the following facilities and work sites:

- Locomotive.
- Car.
- Engineering.
- Intermodal.
- In other designated hard hat areas as specified by department head.

Change Exceptions to read:

Exceptions:

1. A track welder, wearing a Powered Air Purifying Respirator (PAPR), will not be required to wear a hard hat when working in areas where there is no potential for injury to the head from falling objects.
2. Intermodal personnel are not required to wear hardhats when:
 - Mechanical personnel are working under intermodal equipment.
 - Hostlers are on equipment adjusting air lines.
 - Personnel are going to and from personal vehicle parking areas.
3. Transportation employees are not required to wear hardhats when:

- Moving locomotives to or from locomotive service areas,
- Spotting cars within car or maintenance of way repair facilities.
- Switching cars within intermodal ramps

Rule : 71.6.1 Highly Visible Outer Wear

Add new Part B reading:

B. Highly Visible Headgear

During the first year of employment, TE&Y employees must wear orange headgear. Headgear is not required when in:

- Office areas and lunch rooms.
- Enclosed vehicles (including locomotives).
- Parking lots when tracks will not be fouled.
- Areas specifically designated by the department head.

73.2 - Handling Explosives

Change 3rd bullet to read:

- Allow anyone to carry matches, lighters or other flame-producing devices except the person lighting the fuse.

Rule : 74.2 Driver Requirements

Add new Part C reading:

C. Employees must not tamper with any recording or monitoring device.

74.3 Cell Phone and Electronic Device Use

Change Rule To Read :

Use of cell phones while operating a motor vehicle is permitted when:

- A hands free device is used and voice activated dialing or speed dialing is used.
or
- Stopped on other than a roadway.

The driver may instruct passengers to turn off electronic devices to eliminate distractions while the vehicle is moving.

The use of electronic devices for anything other than voice communication is prohibited while operating a motor vehicle.

Do not use a cell phone or electronic device while fueling a vehicle.

74.6 - Back-Up Moves

Change Rule to read:

On Union Pacific property, work must be planned to minimize back-up moves and to avoid driving into areas requiring back-up moves. No back-up move is allowed when a forward move can safely be made.

Employee(s) in the cab of a vehicle must not speak to or distract the driver until the back-up move is completed, except in case of emergency.

Unless vehicle is equipped with an operative rear vision camera, before initiating a back-up move driver must:

- Walk around the vehicle and confirm that it is safe to move.
- Look in the direction of movement.
- Sound horn prior to back up move if back up alarm is inoperative or unavailable.
- Not exceed 5 MPH; conditions may require a lower speed.

When rearward vision is impaired, when equipment is standing on one or more tracks adjacent to the road, or in a Union Pacific parking lot, the following applies unless vehicle is equipped with an operative rear vision camera:

- When a second person is available:
 - A job briefing must be performed prior to movement, addressing the direction of move and position of person protecting the move.
 - The second individual, when safe to do so, must be near the rear of the vehicle to direct the movement.
 - Driver must immediately stop if the person who is directing the movement disappears from the driver's view.
- When a second person is not available:
 - The driver must stop every 150 feet. After stopping, the driver must secure the vehicle and walk around the vehicle to confirm that nothing has entered the path of the rearward movement of vehicle.
 - This will be repeated consecutively every 150 feet or until back-up move is no longer required.

74.6.1 - Back-up Moves by Engineering Employees and Contractors in Vehicles

Change Rule title and entire rule to read:

Back-up Moves by Engineering Employees and Contractors in Vehicles

Work must be planned to minimize back-up moves and to avoid driving into areas requiring back-up moves. No back-up move is allowed when a forward move can safely be made.

Employee(s) in the cab of a vehicle must not distract the driver with unnecessary conversation or other distractions until the back-up move is completed.

Before initiating a back-up move, the driver must walk to the rear of the vehicle to confirm that it is safe to move unless a second person is directing the move as described in 2(A) below.

In addition, each driver must comply with the following:

1. Sound horn frequently if back up alarm is inoperative or unavailable.
2. When safe to do so, proceed not exceeding 5 MPH and complying with either (A) or (B) below.

(A) When a second person is available to direct the back-up move (i.e any other employees or contractors in the vehicle or present in the immediate vicinity):

- A job briefing must be performed prior to movement, addressing the direction of move and position of person protecting the move.
- The person directing the move (spotter) must be in a position to be seen by the driver and must be able to see the rear of the vehicle and the intended path.
- The spotter must not walk backwards or turn his/her back to the back-up move. Instead, the spotter must bring the vehicle back to a pre-determined point and stop the move. The spotter may then reposition himself before resuming the back-up move.
- Driver must immediately stop if the person who is directing the movement disappears from the driver's view.

(B) When a second person is not available:

- The driver must stop every 150 feet. After stopping, the driver must secure the vehicle against movement, walk to the rear of the vehicle and visually confirm that the way is clear.

There are three exceptions to requirement 2 (A or B) above:

1. The vehicle is equipped with an operative rear vision camera that provides sufficient visibility.
2. Short turn-around move or backing into a parking spot that requires a back-up move of 30 feet or less if there are no other persons on the ground within 150 feet and the vehicle has pulled by the area to ensure a safe move can be made.
3. Delivery of materials or equipment to a work site if there are no persons on the ground within 150 feet of the intended path and there is no equipment standing on an adjacent track

74.6.3 Back-Up Moves by Off-Track Equipment

Add new rule:

Off-track equipment (bulldozer, backhoe, etc.) working on Union Pacific Railroad property must be equipped with an operative back-up alarm.

Rule 74.14: Deleted the Rule.

78.7 - Employees Working Near Power Lines

Change Title and deleted SRM reference- remainder of rule unchanged.

Rule : 78.8 Operating Booms Near Power Lines

Change Entire Rule To Read :

<p>78.8</p> <p><i>Ref. 29 CFR 1926.1408</i></p>	<p>Operating Booms Near Power Lines</p> <p>Do not operate booms over power lines at any time. Do not operate booms under power lines unless proper clearance is maintained.</p> <p>At stationary worksites, crane operators must place at least three (3) orange cones evenly spaced along the minimum clearance line to mark the minimum safe working distance to overhead power lines.</p> <p>A. Operation Near Energized Lines</p>
--	---

A. If booms must be operated near energized lines, maintain the minimum clearances listed in the table listed below.

MINIMUM CLEARANCE DISTANCES

Voltage (nominal, kV, alternating current)	Minimum clearance distance (feet)
up to 50	10
over 50 to 200	15
over 200 to 350	20
over 350 to 500	25
over 500 to 750	35
over 750 to 1,000	45
over 1,000	(as established by the utility owner/operator or registered professional engineer who is a qualified person with respect to electrical power transmission and distribution).

Note: The value that follows "to" is up to and includes that value. For example, over 50 to 200 means up to and including 200kV

A groundman must be designated to observe equipment clearance and give timely warning for all operations when it is difficult for the operator to observe clearance.

B. In Transit

B. When in transit with no load and boom lowered, use the table below.

MINIMUM CLEARANCE DISTANCES WHILE TRAVELING WITH NO LOAD

Voltage (nominal, kV, alternating current)	While traveling—minimum clearance distance (feet)
up to 0.75	4
over .75 to 50	6
50 to 345	10
over 345 to 750	16
over 750 to 1,000	20
over 1,000	(as established by the utility owner/operator or registered professional engineer who is a qualified person with respect to electrical power

	<p>(transmission and distribution).</p> <p>If proper clearance cannot be maintained, shut off the power and ground power lines before performing work per Rule 78.9.</p>
--	---

79.2.3 - Proper Clothing

Change 3rd paragraph to read:

For overhead welding and other applications where clothing or body may be exposed to sparks or slag, wear a full leather welding jacket and additional approved leather protective outerwear such as:

- Spats or sleeves.
- Aprons.
- Leggings.

Add last sentence:

Kevlar jacket or Kevlar jacket with leather sleeves are not intended for overhead welding.

79.5 - Welding, Cutting or Heating on Tank Cars

Change last sentence to read:

These instructions apply to tank cars that are within 50 feet of welding or torch burning repairs being performed on other equipment.

79.7 - Torch Test

Add new 5th bullet reading

- When new torch equipment is installed.

Rule : 80.6 Working at Night or Low Light Level

Change Rule To Read :

<p>80.6</p>	<p>Working at Night or Low Light Level</p> <p>Employees must carry a light, or use additional lighting, when working at night or in reduced lighting.</p> <p>Exercise care to avoid hazards caused by shadows resulting from the use of lights.</p> <p>Specific lighting requirements for:</p>
--------------------	---

	<ul style="list-style-type: none"> • Remote Control Operator - Hands free light. (Lantern may be used if hands free light fails or as an auxiliary light). • Trainmen – Lantern • Engineers - Lantern, flashlight, and/or hands free light. <p>Trainmen may use a hands free light in addition to a lantern.</p>
--	---

81.2.1 - Walking Near or Crossing Track

Change Fifth Paragraph To Read:

Stop before fouling or crossing track(s) and:

- Look in both directions.
- Ensure no movement is closely approaching.
- Look for conditions that could interfere with footing.

81.5.4 - Understanding Between Crew Members Before Crossing Through or Fouling Equipment

Under that part reading:

Performing Work in Red Zones in a Yard:

Delete step 2 and change step 3 to step 2.

81.6 - Coupler and End Sill

Change first sentence to read:

Do not:

- Place any part of the body on or between coupler and car end sill.
- Reach over drawbars to open or close angle cocks.

81.7 - Riding Equipment

3. How to Ride

Change 3rd sub-bullet under 3rd bullet to read:

- May ride on the end platform of ARMN, JR SX, or similar cars equipped with an end platform and hand rails. The platform is located on the "A" end of the car.

Riding Tank Cars

Change 2nd bullet under:

- When shoving:

To read:

- Be positioned to ride behind the safety bar outside the gage of the track. On cars equipped with two vertical handholds or if unable to ride behind the safety bar, employee may ride on the outer portion of the crossover platform facing direction of movement, positioned outside the gauge of the track.

81.11 - Hand Brake

Change 7th bullet under, "While operating hand brakes employees must not:" to read:

- Use unapproved material or device to apply or release brake

81.11.3 - Brake Sticks

Change rule to read:

<p>81.11.3</p> <p><i>Ref. Rule(s)</i></p> <p>81.5.4</p>	<p>Brake Sticks</p> <p>When practical and available, use approved brake sticks to operate:</p> <ul style="list-style-type: none"> • Hand brake wheels. • Knuckles. • Angle cocks located on the side nearest where you are standing. <p>Precautions when using brake sticks:</p> <ul style="list-style-type: none"> • Car must be stopped. • Work from the field side rather than between adjacent tracks when possible. • Brake sticks less than 5 feet in length may not be used to reach across drawbar to operate hand brake wheel. • The handle can easily foul an adjacent track, so be alert to keep clear of moving equipment. <p>Do not:</p> <ul style="list-style-type: none"> • Place the butt of the brake stick against your body. • Climb or cross equipment with the brake stick in your hand. • Use brake stick while in or on a vehicle. • Operate the hand brake quick release with a brake stick. <p>Local instructions may be issued regarding use of brake sticks.</p>
--	---

81.13 - Coupling and Uncoupling Equipment

Change First Paragraph and Related Bullets To Read:

Local instruction may be issued requiring:

- Movement to stop before coupling is made.
- Employees riding locomotives to dismount prior to coupling.

83.1.2 - Walkways

Change rule to read:

Use only designated pathways for walking. Keep eyes on path and remain alert for obstructions and walking conditions including moving vehicles and equipment.

83.1.7 - Security Bolts and Seals

Change rule title and first sentence to read:

Security Bolts and Seals

Employees are prohibited from applying or removing security bolts and seals from trailer or container doors.

83.1.9 - Intermodal Equipment Maintenance and Repair Lockout / Tagout Procedures

Add New Rule:

In order to properly lock out and tag out equipment on UPRR intermodal ramps and service areas, prior to performing service, maintenance, adjustments or repair of any energized type of equipment, the following steps must be taken:

1. Apply the parking brake if equipped and test the brake to ensure that it will hold.
2. Shut the equipment down and remove the key from the ignition switch.
3. Release all stored energy in hydraulic, pneumatic, electric, mechanical, chemical, thermal and any other sources of energy present in equipment.
4. Block at least one of the equipment's wheels on both sides to prevent unwanted movement.
5. Ensure that no movement will take place if controls are moved, whether intentionally or unintentionally. All lockable or brace-able components must be locked or braced to prevent any movement of equipment.
6. Place a "do not operate / out of service" sign facing inward at the driver's controls, attached to the steering wheel or blocking door entry way to ensure that anyone approaching the equipment controls will see the sign.
7. Place reflective safety cones that are at least 36" in height in the front center and rear center of equipment when it is practical and safe to do so.
8. Disconnect the battery using the battery disconnect switch and lock if the battery is equipped. If there is no disconnect switch, disconnect the battery cables from the battery and place a lock in the ring on the battery cable with a tag indicating "out of service" so the battery cannot be reconnected without removing the lock. In cases where the battery cable is disconnected, the cable must be placed in a position to ensure that it will not accidentally come into contact with the battery terminal.
9. Follow all manufacturer procedures to ensure that the equipment is safe for performing maintenance or service.
10. Test the integrity of the tagout. If the equipment cannot be started and the components cannot be energized, you may safely start the maintenance or service.
11. Only the employee who tagged the equipment out of service or that individual's supervisor, may remove the lock out- tag out locks and tags and restore equipment to service.

83.2.1 Speed Limits on Ramp

Change rule to read:

Maximum speed on intermodal ramps is 20 MPH.

83.2.2 Observing Stop Signs

Change rule to read:

All vehicle operators must come to a complete stop prior to passing a stop sign or painted stop bar location.

83.2.3 Vehicle Lights

Change rule to read:

All vehicles and equipment operating on ramps will have headlights/running lights on dim and four-way flashers on while operating.

All equipment and vehicles assigned to ramp operations must display illuminated amber strobe lights.

83.3.1 - Precautions Near Equipment

Change rule to read:

All personnel on the ground must remain alert and attentive to equipment movement and expect movement at any time. Employees on the ground must maintain a safe distance from tractors, trailers, or any other equipment standing or moving.

83.3.3 Working Around Lift Equipment - Groundmen

Change first sentence to read:

All personnel must stay clear of crane or packer lifting arms at all times.

Change last paragraph to read:

When working with cranes or packers, the groundmen and all personnel in the vicinity must:

- Be positioned where they cannot be caught between the load being handled and an obstruction.
- Stay clear of suspended loads.
- Not be under the crane boom or similar machine when it is lifting or suspending a container, trailer or chassis.
- Not stand near or in line with a cable, rope or chain under tension or one that might be tightened at any moment.
- Not operate equipment under crane area unless authorized to do so by crane operator.

83.3.5 Getting On and Off Intermodal Cars

Add reference rule:

Ref. Rule

81.4.1

Add as last bullet:

- Three-point contact is maintained.

[^Top](#)

Item 10-F: Instructions for Inspecting, Welding and Grinding of Rail and Track Components Chapters 100 to 119

[^Top](#)

Item 10-G: Chief Engineer Instruction Bulletins, Chapters 120 to 140

[^Top](#)

Item 10-H.: Hazardous Materials Instructions

Instructions for Handling Hazardous Materials

Form 8620

3. Operating Key Trains

Change Section VII Train Operations Part 3 "Operating Key Trains" as follows:

a. Definition:

Change first sentence to read:

A "Key Train" is any train that meets one or more of the following conditions:

Add new (5) reading:

(5) A "Key Train - Crude Oil" is a train with 20 or more loads of Petroleum Crude Oil with an identification Number of UN1267.

Add new (6) reading:

(6) A "Key Train – High Hazard Flammable Train" is a train with 20 or more loaded tank cars of a Class 3 Flammable Liquid in a continuous block, or containing 35 or more loaded tank cars of a Class 3 Flammable Liquid across the entire train; and at least one of these cars is a DOT-111 tank car.

b. Identifying Key Trains

Change item (1) to read:

(1) A computer-generated Train List will identify Key Train / Key Train - Crude Oil / Key Train - High Hazard Flammable Train status in the header block on the first page.

c. Instructions for Operating Key Trains

Change item (1) to read:

(1) The maximum authorized speed for Key Trains is 50 MPH, unless further restricted. The maximum authorized speed for a Key Train - Crude Oil / Key Train – High Hazard Flammable Train is 40 MPH within a High Threat Urban Area. (Refer to SI-03 in Area Timetable or Subdivision General Order for HTUA restrictions.)

Note: Where lower speed restrictions are in effect, or when the Key Train is restricted to a lower speed for other reasons, the lower speed governs.

Rule : APPENDIX Appendix

Change the expiration date of Special Permit DOT-SP 9271 to read:

SPECIAL PERMIT AUTHORIZATION

DOT-SP 9271

EXPIRATION DATE: In effect until further notice.

Glossary

Change High Threat Urban Area To Read :

High Threat Urban Area (HTUA) – An area comprising one or more cities and surrounding areas including a 10-mile buffer zone identified by the Department of Homeland Security's Transportation Security Administration (TSA) in 49 CFR 1580, Appendix A. HTUAs will be identified on work orders and train lists as necessary. (See list)

HTUAs include the metropolitan area of the following cities:

Northern Region: Chicago, Denver, Kansas City, Milwaukee, Omaha, St. Louis, Twin Cities.

Southern Region: Baton Rouge, Dallas, Houston, Memphis, New Orleans, Oklahoma City, San Antonio.

Western Region: Anaheim/Santa Ana, San Francisco Bay Area, Las Vegas, Los Angeles/Long Beach, Phoenix, Portland, Sacramento Area, Seattle.

[^Top](#)

Item 10-I: Union Pacific Railroad Policies

Links to view Union Pacific Policies:

"Employees are expected to work safely, honestly, and to treat others with respect. Employees are expected to be familiar with and comply with Company policy including those listed below. Employees who are unsure of the application of any Company policy to their work, must ask their supervisor for an explanation."

Statement of Policy on Ethics and Business Conduct:

<http://home.www.uprr.com/emp/exec/conduct/index.shtml>

Drugs and Alcohol Policy:

http://home.www.uprr.com/emp/operating/op_prac/dap/index.shtml

Blood-Borne Pathogens Policy:

http://home.www.uprr.com/emp/operating/she/policy/iv-regs/k_pathogens.shtml

Smoking Policy:

<http://home.www.uprr.com/emp/ec/policy/smoking.shtml>

Medical Rules:

http://home.www.uprr.com/emp/ec/health/medical_rules/index.shtml

Policy to Address Violence & Abusive Behavior in the Work Place:

<http://home.www.uprr.com/emp/ec/policy/violence.shtml>

Equal Employment Opportunity/Affirmative Action and Related Policy Directives

http://home.www.uprr.com/emp/ec/policy/eoo_uprr.shtml

Information Security Policy:

http://home.www.uprr.com/emp/exec/conduct/information_security.shtml

Workplace Recordings Policy:

http://home.www.uprr.com/emp/law/policy/workplace_recordings.shtml

Engineering Fire Prevention Policy

http://home.www.uprr.com/emp/operating/she/policy/attachments/iv-regs/ah_fire_prevent/ah_eng_fire_plan.pdf

Mechanical Fire Prevention Policy

http://home.www.uprr.com/emp/operating/she/policy/attachments/iv-regs/ah_fire_prevent/ah_mech_fire_plan.pdf

Transportation Fire Prevention Policy

http://home.www.uprr.com/emp/operating/she/policy/attachments/iv-regs/ah_fire_prevent/ah_transp_fire_plan.pdf

Rule Updated Date

May 2, 2016

[^Top](#)

Item 10-J: Commuter Train Operations

Geneva, Kenosha, Harvard and McHenry Subdivisions.

I. Commuter Operations Documents and Requirements

All employees affected must have a copy of the current Commuter Operations Train Schedules. Freight trains and engines must attempt to clear the time of scheduled passenger trains to avoid delay. Employees in passenger train service, including engineers, must have a copy of the current METRA Operations Profile.

II. Instructions Governing Movements Between the Ogilvie Transportation Center (OTC) and Halsted and Erie

1. Ogilvie Transportation Center (OTC)

- a.** All movements into the OTC must be controlled so stop will be made by service application of the brakes and short of the white line painted on platforms 10 feet in advance of bumping posts.
- b.** When movement is made over Lake Street Interlocking, when practicable, movement must be controlled by the engineer from the lead unit or cab car in the direction of movement.
- c.** Rule 7.9 Switching Passenger or Occupied Outfit Cars: When couplings are made within the OTC, stop not less than 20 feet from the cars. Then complete coupling on signal from employee on the ground.

2. Lake Street Interlocking:

- a.** Engineer on scheduled passenger train will contact Lake Street operator via radio when the coach doors have been closed, door light is displayed in the operating control compartment, and the train is ready to depart. In the event of a door light failure, the engineer must communicate with the conductor to ascertain that all doors are closed before contacting Lake Street.
- b.** The first signal governing movements from each of the train shed tracks is identified by two white stars located directly above the signal light. In addition, these signals are equipped with a single white star which is in view when looking back at the signal (train or engine beyond the signal). When the indication displayed by the first signal cannot be observed due to train or engine extending beyond this signal, engineer or trainman will be governed by the single white star. When the single white star is illuminated:
 1. The signal displays a proceed indication.
 2. The route is lined to the next signal.
- c.** Movement from the mail or fuel pockets must not be made without a proceed indication and permission from Lake Street control operator.
- d.** Locomotives exceeding four axles must utilize crossovers west of Lake Street Tower to enter the OTC authorized tracks as specified for business cars.

3. Movements between Halsted or Erie and OTC.

- a.** Engine bell must be rung continuously.
- b.** Headlight must be dim.
- c.** Ditch lights and oscillating headlight must be off.

4. Running Brake Test

All trains and yard movements entering the OTC will make a running air brake test approaching Halsted or Erie to know that the brakes on the train are functioning properly. Trainmen handling back-up movements

into the OTC will make a running brake test through use of the valve on back-up hose or its equivalent, approaching Halsted or Erie, to know that the brakes are functioning properly. All trains and yard movements departing OTC will make a running brake test to know that the brakes on the train are functioning properly.

5. Cars Exceeding 16 Feet

Cars exceeding a height 16'0" above top of rail must not be operated on any track in the OTC.

III. Additional Rules and Instructions

Passenger Train: A train made up of equipment designed to transport passengers.

Letter S: The letter S in the schedule column in Commuter Operations Train Schedules indicates a regular stop.

Canceling Regular Stops: When a passenger train is directed to cancel regular stops and will pass through stations where people may be crossing from one platform to another, train will not exceed 30 MPH and must whistle frequently approaching and passing these stations.

Operating on Other Than Normal Tracks: When movements are made on tracks other than those normally used, the engineer must notify commuter control sufficiently in advance to permit passengers to change platforms. The train must enter the station at a speed to allow all passengers to cross over before blocking crosswalk.

Operation of Doors and Handling of Passengers at Station Platforms:

The Conductor will designate one member from the train crew who will operate the doors at each station.

Exterior doors must not be opened until the train has come to a full stop at a station platform. Trainmen must position themselves evenly spaced (when possible) on the platform to ascertain that all doors have opened for those passengers entraining/detraining and to provide assistance. Conductors, Assistant Conductors, and Collectors are required to be on all station platforms at every stop except if the car they are working is not on the platform.

Trainmen assigned to work the ADA car should maximize their presence in that car and must be aware of the passengers special needs. Special attention should also be given to coaches carrying the elderly and families with small children.

When two or more cars are open, trainmen must not work from the same car, EXCEPT as required in the performance of duty.

Doors located at other than a platform or other suitable surface such as street crossing will not be used. Announcements must be made in advance, directing passengers to doors that can be opened properly. Precautions must be taken to see that doors improperly spotted remain closed. If an unusual stop is made at a station which results in car doors not being spotted at a platform, the engineer will sound one long signal or the override circuit or make a PA announcement. The trainmen responsible for the doors must consider this an emergency signal and only open the doors which are properly spotted.

Trains are not to depart stations until the following has occurred:

- Trainman responsible for working the doors receives visual signals from all other train crew members that the train is ready to depart.

- Trainman will then close all doors except his own.
- Trainmen will then make a final check of all doors in both directions from the best possible vantage point to ensure all doors except his own are closed.
- Once it is verified that all other doors are closed except his own, the trainman will then close his door.
- After the door light indication is illuminated in the engineers compartment signifying that all doors are closed, the train can depart the station. When conditions permit, the engineer should observe the platform area, utilizing his rear view mirror or camera monitor, looking for any unsafe conditions as the train begins to depart the station.
 - o If, after the door closed light has illuminated and:
 - train begins to pull away from the station, the engineer notices that the door closed light has gone out; a normal brake application will be made to bring the train to a stop. Trainmen will then ascertain the cause of the open door indication and correct the problem, if possible, before resuming operation.
 - train is operating at speed and the engineer notices that the door closed light has gone out; the engineer will communicate with the train crew and ascertain the cause of the open door indication.

If there is a failure of the door light indication in the engineers compartment, the train may proceed under the authorization of the Conductor, only after a full understanding on an alternative method for assuring the doors are closed has been reached by all crew members through a supplemental job briefing. Please note, system failures must be reported on the Passenger Car Inspection Report.

At stations where track curvature or other circumstances restrict sight distances making it impossible for the trainman responsible for door operation to observe all cars in the train while making the final check the following should occur prior to the train departing the station:

- All trainmen will bleed off the door of the car they are operating from.
- All trainmen will position themselves on the platform along the length of the train in such a way that all cars can be observed.
- All doors will be closed except those doors where a trainman is positioned.
- After each trainman makes a final check of the cars under their observation, all crew members will exchange a second hand signal prior to boarding and closing their own doors.
- After the door light indication is illuminated in the engineers compartment signifying that all doors are closed, the train can depart the station. When conditions permit, the engineer should observe the platform area, utilizing their rear view mirror or camera monitor, looking for any unsafe conditions as the train begins to depart the station.
 - o If, after the door closed light has illuminated and:
 - train begins to pull away from the station, the engineer notices that the door closed light has gone out; a normal brake application will be made to bring the train to a stop. Trainmen will then ascertain the cause of the open door indication and correct the problem, if possible, before resuming operation.
 - train is operating at speed and the engineer notices that the door closed light has gone out; the engineer will communicate with the train crew and ascertain the cause of the open door indication.

Door control panel on all cars must be deactivated in the closed (locked out) position except when needed for immediate use by a train crew member. Once all passengers have been loaded/unloaded the Control Panel must be locked prior to leaving the vestibule. Coach keys are to be removed after they are used and are not to be left in the lock at any time.

Approaching Stations: When approaching stations;

1. Engine bell must be rung one-fourth mile in advance of stations where passengers are received or discharged and must continue until engine has passed platform. In the event of bell failure, whistle must be sounded when approaching stations.
2. Headlight must be on bright and ditch lights and oscillating headlight on, except when approaching OTC.
3. A street or road crossing adjoining or immediately adjacent to the station platform will be considered a part of the platform or platform area.

Movements between M19A and the OTC:

Train and engine movements on the main track between M19A and the OTC must have a track warrant or determine no track bulletins are necessary by contacting Commuter Control, the Yardmaster at California Avenue Coach Yard or the M19A clerk. A copy of track bulletins in effect can be obtained at either Commuter Control or M19A.

California Avenue Coach Yard

Locomotives exceeding four axles are prohibited from operating within Cal Ave between Sacramento and Western Avenues, unless special permission is received from the Cal Ave Yardmaster or a Commuter Operations Manager

1.7 Altercations:

Application: Employees must not enter into altercations with each other, passengers and/or the general public.

1.47 Duties of Crew Members

Application:

Calling Attention to Restrictions:

Conductors of passenger trains must remind the engineer of permanent restrictions by use of the radio or intercom and receive acknowledgement between the following locations:

Geneva Sub:
MP 30.0 and MP 30.5.

Harvard Sub:
MP 7.7 and MP 7.8.
MP 50.4 and MP 52.0.

Kenosha Sub:
MP 11.8 and MP 12.0.

McHenry Sub:
MP 65.4 and MP 69.2.

If the radio and the intercom fail, the communication signal buzzer will be used by 2 sounds of the communication signal

buzzer. If communication is made by use of the buzzer, the engineer will sound whistle signal 5.8.2(4) as acknowledgment. Conductors failing to hear the whistle signal acknowledgment must re-establish communication with the engineer to obtain acknowledgment or take the necessary actions to stop the train prior to reaching the restriction.

2.7 Monitoring Radio Transmissions:

The conductor and the trainman assigned to operate the doors must carry a company radio and have it turned on to the proper frequency while on a train or performing duties related to train movement.

All other trainmen must carry a company radio and have it turned on to the proper frequency while performing duties related to train movement off a train other than loading or unloading passengers at station platforms.

The engineer is designated as the primary radio operator unless a different procedure is determined through a job briefing.

The conductor may instruct other crew members to carry and use radios as conditions require.

2.21 Electronic Devices

Application for Commuter Operations:

The use of cell phones is prohibited and must be turned off when in engine or the control cab of moving trains. This includes Company issued cell phones unless all other forms of communications have failed. Conductors with company issued cell phones, not in the control compartment, may have cell phones on for required communications between crew members and/or commuter control.

If all other forms of communication fail, the Company issued cell may be used for communications. Cell phone communication with the engineer is limited to that required by the rules.

The train dispatcher or commuter control may authorize the use of a cellular phone in the control cab by someone other than a locomotive engineer operating the controls of a moving train, during mechanical breakdowns or other service interruptions, after a safety briefing, provided that all involved personnel agree that it is safe to do so. Any other use is prohibited in the cab.

This does not prevent the use of cell phones during emergencies.

Personal cell phones must be turned off when performing train or engine service.

6.11 Mandatory Directive

Application:

... **"retained for the duration of that crew's tour of duty"**. Conductor and Engineer will retain a copy of mandatory directives from all trips during an entire day's tour of duty including trips before and after any "release periods" during a day.

Application:

When a mandatory directive is issued to commuter trains, the conductor and engineer must each have a copy of the directive. The engineer may give the information to the conductor at first opportunity. It will not be necessary to discuss this information with other crew members before being acted upon. If an engineer receives such information just prior to a location where the directive takes effect, the engineer must comply with the information even if the conductor has not yet received the information.

6.25 Movement Against Current of Traffic

Add:

When authorized to move against the Current of Traffic:

1. A crew member must be positioned in controlling cab. This crew member must enter cab prior to departing last scheduled station stop before beginning movement against current of traffic and remain in operating cab until arrival at first scheduled station stop after completing movement against current of traffic.
2. When exiting an against current of traffic movement at non signaled hand throw crossover switch, be governed as follows:
 - Verbal authorization must be received from the employee in charge of crossover switches at that location or the train dispatcher, before returning to operate with the current of traffic.
 - Train must stop short of the first crossover switch at the exit location before returning to operate with the current of traffic.

6.30 Receiving or Discharging Passengers

Application:

1. Passenger trains must not enter a station at which another passenger train is stopped to receive or discharge passengers until first bringing train to a stop, after which they may proceed with caution to or through the platform, ringing bell and sounding whistle. When a train is "laying back" to delay entering a station, the train laying back must not enter that station until the departing train has cleared the platform area and the platform area can be plainly seen.
2. When two passenger trains are nearing a station at the same time and only one of them is scheduled to stop, the train to stop must not enter the station until the other train has cleared the platform area and the platform area can be plainly seen.
3. When two passenger trains are nearing a station at the same time and both are scheduled to stop, both trains may enter simultaneously. They must enter the station with caution ringing the bell and sounding the whistle when necessary. Eastward and Southward trains have preference in the AM and Westward and Northward trains in the PM.
4. Freight trains must make every effort consistent with safety and efficient train handling:
 - a. To avoid passing a station at which a passenger train is stopped to receive or discharge passengers.
 - b. To avoid entering the platform area until the passenger train has departed and the platform area can be plainly seen.
 - c. To control their speed to avoid entering a station during the time an on-time passenger train would normally be receiving and discharging passengers.
 - d. To communicate with passenger trains that may be met or passed to determine their locations.

Freight trains and engines **MUST** attempt to communicate by radio with scheduled passenger trains that may be met or passed prior to the scheduled time at stations, to determine the location of the passenger train and plan location of meet or pass. Also, attempt to contact the train dispatcher to determine location if unable to contact passenger train by radio.

When a freight train cannot avoid passing a station after a passenger train has entered, the whistle must be sounded until the front of the freight train has passed through the platform area. Freight trains that enter a station under these conditions (except under part 6 below) must notify Commuter Control by radio and advise circumstances.

If a freight train stops or becomes disabled at station platforms at or near scheduled times of passenger trains, the engineer will, when possible, contact commuter control **BEFORE** the train is moved so that a public address announcement can be made to inform the public to stand clear. Required whistle signals must be sounded **BEFORE** any movement is made.

5. If it becomes necessary to operate a lift when operating on Track 2 between CP Y029 and CP Y015 or between CP Y043 and CP Y044 the following applies:

- a. The train dispatcher must be notified that operation of the lift will be necessary at (Station). This must be done as far in advance as possible to avoid unnecessary delay.
- b. Request must be made to stop all trains on Track No. ___ (the adjacent track to the side that the lift will be deployed).
- c. If advised that the control signals to protect the limits display Stop, but a train/s is in the area, the lift cannot be deployed until there is an understanding with the engineer that the train/s has cleared the station or will not enter the station area until notified it is safe to do so.
- d. When advised the control signals to protect the limits display Stop and no trains are approaching on the adjacent track, the lift can be deployed.
- e. The train dispatcher must be advised when the lift has been stowed and trains may operate through the station area.

6. The engineers of trains involved in the above will communicate by radio with other trains to plan the movements.

7.4 Precautions for Coupling or Moving Cars or Engines

Add:

When coupling a locomotive to a passenger car or another locomotive, the slack must be stretched twice to insure that the coupling has been made.

8.2 Position of Switches

Application:

Crews handling passenger equipment from a coach yard or parking track must inspect hand operated switches and spring switches under the standing train to ascertain that they are properly lined and latched. This inspection must be made regardless of the indication on switch stand.

9.9 Train Delayed Within a Block

Application:

A Chicago Commuter passenger train is not considered delayed within a block after making a scheduled stop of less than five minutes with no other delay.

12.1.1/17.2 ATS and ATC Keys

Application:

When operating in ATC/ATS territory, the ATC and ATS Operating key must be kept in the conductor's possession at all times, except when a failure of the device makes it necessary to cut out the ATC or ATS or when the train is operating without ATC or ATS cut-in under proper authority. The following procedure must be followed:

- At turnaround and tie up point, the conductor is to deliver the key to the engineer, who must immediately cut out the ATC-ATS device, leaving the key in the actuator.
- When changing ends on commuter trains in ATS territory, leave the cab signal circuit breaker turned on.
- Conductors of all trains terminating in the Chicago Passenger Terminal must not surrender the ATC key to the engineer until the train has passed Halsted (CPY901) and the ATS key must be surrendered to the engineer until the train passed Erie (CPN001). Engineers failing to receive their key at the designated point of surrender must, as promptly as practicable, report this fact to Commuter Control or other proper authority so immediate action can be taken to retrieve the key.

12.2/17.7 ATS or ATC Failure/Cut-out Enroute

Add for Passenger Trains:

ATC or ATS Failure/Cut-out Enroute

In the event of an ATC or an ATS failure:

1. A crew member will be positioned in the controlling cab as soon as practicable.
2. If the train stops or the speed is reduced to below 10 MPH when operating in a block immediately preceding an interlocking, control point or junction, the train must proceed prepared to stop before passing the next signal. Speed must not exceed 40 MPH until the next signal can be clearly seen and that signal displays a proceed indication.

14.0 Track Warrants

When authorized by the train dispatcher, passenger trains may enter the main track at restricted speed, at the initial station, to load passengers before a track warrant is received.

Passenger trains, receiving a track warrant used for delivery of track bulletins only addressed to the wrong engine number, may depart the initial station before the train dispatcher verbally changes the engine number, if the address shows the correct train number and date. However, the train dispatcher must be advised at the earliest opportunity.

15.2 A. Verbal Permission:

Application:

In Commuter Operations Territory the bulletin number, line number, location and subdivision name will be used to begin communication.

The following applies:

When granting verbal permission, begin the communication using the following words:

"Foreman (name and/or Gang No.) ____ using track bulletin No. ____, Line No. ____, between MP ____ and MP ____, _____ Subdivision"

17.4 Departure Test Procedures

A. Energized Test Loop:

Cab Cars: When a cab car is on energized track, the cab signal should display Clear.

- Hold down the test button and a penalty brake application should occur within 8 seconds.
- Recover the air.
- After the brakes have released, hold down the test button a second time.
- When the horn sounds, acknowledge to prevent brake application.

B. De-energized Track:

In the Ogilvie Transportation Center, M19 A or Elburn, when the test was performed on de energized track as described above, after the brakes release, move over the test loop and acknowledge the horn when moving off of the test loop to prevent brake application.

32.1.1.1 Securing Locomotive Cab Doors

Application:

A. Unattended Locomotives

Commuter locomotives left unattended at outlying yards must be locked when mechanical department employees are not on duty. Secure commuter locomotives coupled to a coach as follows:

- Lock locomotive cab side doors and side windows from inside cab.
- Proceed into the engine room and lock the side door.
- Exit rear door and leave unlocked. Dismount locomotive through coach.
- Re-entry to locked locomotives must be done through the rear door of the locomotive.

Secure commuter locomotives not coupled to a coach as follows:

- Lock locomotive cab side doors and side windows from inside cab.
- Proceed into the engine room and lock the rear door.
- Exit engine room side door. Do not lock door.
- Re-entry to locked locomotives not coupled to a coach must be done through the engine room side door.

Employees must not attempt to lock/unlock locomotive side doors while standing on locomotive side ladders.

B. Attended Locomotives

Ensure cab doors are unlocked when locomotives are attended except when necessary to prevent unauthorized entry.

C. Cab Car Control Compartment Attended or Unattended

The control compartment doors on cab cars must be kept closed and locked at all times unless opened for immediate ingress/egress, maintenance or training purposes. Crews taking over equipment are responsible for ensuring that control compartment doors are closed and locked.

D. Keys

Locks on Commuter locomotives and coaches require a coach key. All crew members are required to have this key available while on duty. This key is available at Commuter Control.

71.2.2 Hearing Protection: Locomotives

Application:

Employees riding in the locomotive cab of F40PH engine must wear approved hearing protection whether the windows or doors are open or closed.

Employees riding in the controlling cab of a cab car must wear approved hearing protection when the windows are open.

71.5 Eye Protection

Application:

Train and engine employees must wear eye protection when in the controlling cab of a train or engine whether the windows or doors are open or closed.

71.6 Proper Attire

Application:

Trainmen in passenger train service must wear proper uniform.

71.6.1 Highly Visible Outerwear

Application:

ANSI Class II green/yellow outerwear is not required for engineer walking to or from their train on the platforms of the OTC.

Trainmen in uniform must wear supplied hats with high-visibility reflective stripes.

81.4.1 Standing Equipment

Application:

When exiting from a passenger car loading door on a station platform, employees may get off standing equipment while facing forward if it is safe to do so. Maintain a firm handhold until both feet are placed on the platform.

81.8.3 Impaired Clearances

Bridge Clearance:

Employees are prohibited from riding on the side of equipment when closely approaching or when on bridges in elevated track territory.

Item 13.8.2 Detector Failure - Action Table - Action No. 3

Application: A Chicago Commuter passenger train may proceed at normal speed making inspection of their train as time permits at station stops, and frequently inspecting their train while moving.

Rule Updated Date

May 2, 2016

[^Top](#)

Item 10-K: Main Track Switches

1. Before performing work that involves hand operating any main track switch, all crew members must complete a job briefing on work to be performed and switches to be operated. After work has been completed, the conductor and engineer must participate in a job briefing to ensure all main track switches operated have been restored to normal position before departing location.
2. In non signaled territory, except at locations where switches are operated with Radio Controlled Switches (RCS), conductors must record, as soon as practicable, the location and time each main track switch used is finally lined and locked to normal position. The conductor and engineer will initial each switch entry to acknowledge the completed job briefing concerning the switch being returned to normal position. If it is not practicable for an employee to personally initial the form due to logistics etc., an employee may make the appropriate entry for both crew members after the completed job briefing showing (e.g., "JM for MB").

a.

When a remote control operation is performing service in this territory, the entries will be made by the crew member handling the switch and initialed by the other crew member.

b. Entry is not required:

- Within Yard Limits or Restricted Limits.
- If the main track movement is made over the switch operated when departing location (e.g. following a head end setout or pickup).

Note: When a switch is operated by a crew member of another train or other employee after a train clears the main track (Rule 6.9 Meeting or Passing Precautions), entry must be made in both logs to acknowledge that the involved crews completed a job briefing and that main track switches operated have been restored to normal position and locked.

Example of Switch Documentation on "Conductor Report Form 20849."

Note: Example indicates Engineer as MB, Conductor JM and GF other employee.

EXAMPLES:

Location	Signal Name or TDD	Time	Comments & Other Delays
ESS Carlton		0835	Cleared MT ESS restored MB/JM
Carlton		0915	Met UP 4419 East
WSS Carlton		0950	Departed WSS restored MB/JM
ESS Gale		1245	Cleared MT ESS restored by GF. MB/JM for GF

3. Prior to release of track warrant authority or reporting clear of limits in non signaled territory, both the conductor and engineer must confirm, by job briefing, that all main track switches operated have been restored and locked in normal position, and that the conductor report form has all proper entries. The crew member communicating with the train dispatcher must report:

- All main track switches operated have been restored and locked in normal position.
- The crew has completed the job briefing.
- The conductor form is properly initialed.

When a hand operated switch is used to clear the main track, the train dispatcher must repeat the information and the employee must acknowledge.

4. When practical, a crew member will attempt to contact an approaching train to inform them that facing point hand operated switches are properly lined for their movement, and comply with the requirements of Rule 8.7.

5. Procedure PS

When instructed by the train dispatcher (either verbally or by track warrant) to comply with procedure PS at (location), approach switches prepared to stop and line switches to their normal position. Crew member or employee must advise the train dispatcher when it is known switches are lined in their normal position.

Rule Updated Date

May 2, 2016

[^Top](#)

Item 10-L: Additional Equipment Securement Requirements

A. Securement of Unattended Equipment

When securing a train or equipment:

- Perform a job briefing with all crew members on the securement procedure.
- UPRR crews must comply with UPRR ABTH securement requirements.
- Foreign line crews must comply with that railroad's securement requirements. When not practical to perform a release test to verify sufficient handbrakes have been applied, crew must use UPRR Securement Chart (included on next page) to determine the number of handbrakes necessary.
- Complete UPRR Train and Locomotive Securement Checklist and leave on the controlling locomotive if locomotives are attached.

B. Additional Key Train Securement Requirements

Key trains must not be left unattended on a main track or siding except when:

- Locomotive cab is properly secured or reverser is removed and secured. UPRR crews comply with ABTH Rule 32.2.1.1 (Securing Locomotive Cab Doors).

In addition, before a Key Train is left unattended on a main track or siding, the crew must provide securement information to the train dispatcher. Use the correct verbiage located in the UPRR Train and Locomotive Securement Checklist.

- Number of handbrakes applied.
- Tonnage and length.
- Type of equipment.
- Grade and curvature of track.
- Weather conditions.
- Type of securement procedure used (primary, secondary, or both).

All locomotive engineers must obtain a reverser at the on duty location if called to operate a Key Train.

C. Emergency Personnel

Promptly notify the train dispatcher when emergency personnel (firefighter, police, medic, etc.) are observed on, under, or between cars or locomotives that have been left unattended on main track or siding outside of a yard/terminal.

The train dispatcher will arrange for a qualified employee to attend the train or cars.

Following arrival of the qualified employee, the train or cars must not be left unattended until emergency personnel's duties no longer require them to be on, under, or between the equipment and a qualified employee inspects the train or cars for securement according to requirements and notifies the train dispatcher the inspection is complete.

D. Securement Chart

Securement Chart – When Not Practical to Verify Required Hand Brakes by Release of Air Brakes													
Number of Applied Hand Brakes Required													
Grade (%)													
Tons	<0.25	0.25-0.49	0.50-0.74	0.75-0.99	1.00-1.24	1.25-1.49	1.50-1.74	1.75-1.99	2.00-2.24	2.25-2.49	2.50-2.74	2.75-2.99	≥ 3.00
< 1,000	2	2	2	3	4	4	5	6	6	7	8	8	9
1,000-1,999	2	3	4	6	7	8	10	11	12	14	15	16	18
2,000-2,999	2	4	6	8	10	12	14	16	18	20	22	24	26
3,000-3,999	3	6	8	11	14	16	19	22	24	27	30	32	35
4,000-4,999	4	7	10	14	17	20	24	27	30	34	37	40	44
5,000-5,999	4	8	12	16	20	24	28	32	36	40	44	48	52
6,000-6,999	5	10	14	19	24	28	33	38	42	47	52	56	61
7,000-7,999	6	11	16	22	27	32	38	43	48	54	59	64	70
8,000-8,999	6	12	18	24	30	36	42	48	54	60	66	72	78
9,000-9,999	7	14	20	27	34	40	47	54	60	67	74	80	All
10,000-10,999	8	15	22	30	37	44	52	59	66	74	81	All	All
11,000-11,999	8	16	24	32	40	48	56	64	72	80	All	All	All
12,000-12,999	9	18	26	35	44	52	61	70	78	All	All	All	All
13,000-13,999	10	19	28	38	47	56	66	75	All	All	All	All	All
14,000-14,999	10	20	30	40	50	60	70	80	All	All	All	All	All
15,000-15,999	11	22	32	43	54	64	75	All	All	All	All	All	All
16,000-16,999	12	23	34	46	57	68	80	All	All	All	All	All	All
17,000-17,999	12	24	36	48	60	72	All	All	All	All	All	All	All
18,000-18,999	13	26	38	51	64	76	All	All	All	All	All	All	All
19,000-19,999	14	27	40	54	67	80	All	All	All	All	All	All	All
20,000-20,999	14	28	42	56	70	All	All	All	All	All	All	All	All
21,000-21,999	15	30	44	59	74	All	All	All	All	All	All	All	All
22,000-22,999	16	31	46	62	77	All	All	All	All	All	All	All	All
23,000-23,999	16	32	48	64	80	All	All	All	All	All	All	All	All
24,000-25,000	17	34	50	67	All	All	All	All	All	All	All	All	All

Rule Updated Date

May 2, 2016

[^Top](#)

Item 10-M: Mechanical Department (Maintenance Operations)

GCOR Chapters 1 - 17

The following instructions modify rules or clarify the application for the Mechanical Department.

5.3.6 Radio and Voice Communication

Employees may use radio and other means of voice communication to give information when using hand signals is not practical.

Employees must make sure crewmembers:

- Know which moves will be made by radio communication.
- Understand that while using the radio, the engineer will not accept any hand signals, unless they are Stop signals.

Mechanical Department Application

Locomotive Consists

Hand signals are to be used for all movements when handling locomotive consists or motive equipment without cars and when the operator is in clear view. Use the radio only when the operator is not in sight of the employee giving the signals or in case of emergency.

Car Movements

Car movements should be handled with hand signals unless the length of the cut, spotting procedures or other conditions require the use of radio.

All Movements

Employees must job brief before the movement and all employees involved in the movement must know which moves will be made by radio communication. While the radio is being used, the operator at the controls will not accept any hand signals, unless they are Stop signals.

5.13 Blue Signal Protection of Workmen

Section B How to Provide Protection /

Section C Blue Signal Readily Visible To Engineer.

Additional tasks in locomotive department requiring blue signal/flag protection include:

- Troubleshooting, obtaining downloads, load testing, power testing, wheel truing, drop pit units or the use of any test equipment directly attached to the locomotive.
- Inbounding and outbounding checks, testing and card tasks.
- Opening an electrical door or electrical panels and the vertical plane of the door or panel is broken with any part of the body.
- Inspecting trucks or other components under the main frame carbody and the vertical plane is broken with any part of the body.
- Fueling locomotives in mechanical department facilities.

Individual Tag

- Each locomotive department employee will affix a blue ID tag with their name and craft to the blue signals/flags. A separate red tag "working below" may be clipped to the blue ID tag to indicate who is working below.
- When work is completed, each employee will remove their blue tag(s) from the blue signal/flag. The last employee to remove their blue tag will check to be certain that no other employees are on, under, or between the equipment and then remove the blue signals/flags.
- Mechanical locomotive employees making repairs outside of a designated facility must apply a blue id tag to the isolation switch of the lead unit.
- When boarding equipment employees must visually check for a blue tag on the isolation switch of the controlling locomotive. If a blue tag is present, the controls (including the horn, bell, and electrical switches) must not be operated until the blue tag is removed or instructed to operate equipment by the person who placed the tag on the isolation switch.

Remote Control Locomotives (RCL)

Prior to placing blue signal/flag protection, ensure that the remote control function has been disabled.

- RCL (including RCL slug units) must have the remote control selector switch placed in the 'Manual Position'. When applicable, the remote control air brake isolation valve must be placed in "Manual Position".
- When outside of a designated facility all mechanical department employees making repairs to a remote control locomotive or rolling equipment attached to RCL and/or RCL slug units must apply a blue ID tag to the remote/manual selector switch.
- RCL may be placed in remote mode under blue flag protection to service equipment/functions only when all of the following requirements are met:
 1. Employee placing locomotive in remote mode has been trained to repair and operate RCL.
 2. Employees involved on the unit and/or track are job briefed and warned against possible inadvertent movement of locomotive.

Distributed Power Units On Other Than A Main Track

- When working on, under or between rolling equipment of a DPU train, the front and rear of the DPU train must be protected per Rule 5.13.
- When working on, under or between rolling equipment of a DPU train, a blue signal must be applied on the lead controlling locomotive.
- When working on, under or between rolling equipment of a DPU train, any controlling remote locomotive on the rear end of a train must have blue signal applied. If any controlling remote locomotive on the rear end of a train is not in the rear most position, the rear most locomotive must also have blue signal applied.
- When servicing or repairing locomotives in a DPU train, a blue signal with individual tag(s) must be applied on the lead controlling locomotive. Also, a blue signal must be applied to each controlling remote locomotive. If any controlling remote locomotive on the rear end of a train is not placed in the rear most position, the rear most locomotive must also have a blue signal applied.

Radio Linking

Blue signal protection is not required when radio linking unless required to work between the equipment.

Tasks Not Requiring Blue Signal Protection

The following list of tasks is all inclusive. If the task is not on this list then it requires blue signal protection:

- Supplying cabooses, engines, or passenger cars with items such as ice, drinking water, tools, sanitary supplies, stationery, or flagging equipment.
- Making visual observations while on or alongside a caboose, engine, or passenger car. Repositioning the activation switch or covering the photoelectric cell of the marker when the rear of the train is on the main track. The employee inspecting the marker must contact the employee controlling the engine to confirm that the train will remain secure against movement until the inspection is complete.
- Starting, shutting down and checking engine oil dipstick.
- If a blue signal is not available for employees performing emergency repairs on, under, or between an engine or rolling equipment coupled to an engine, the employee controlling the engine must be notified and appropriate measures taken to provide protection for the employees.

Blue Flag and Name Tag Placement

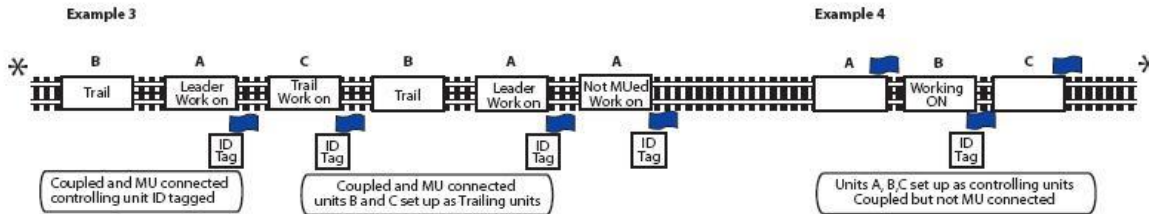
Minimum Blue Signal Requirements - System

READY TRACKS



* Entry to designated area flagged and switch locked (Mandatory)

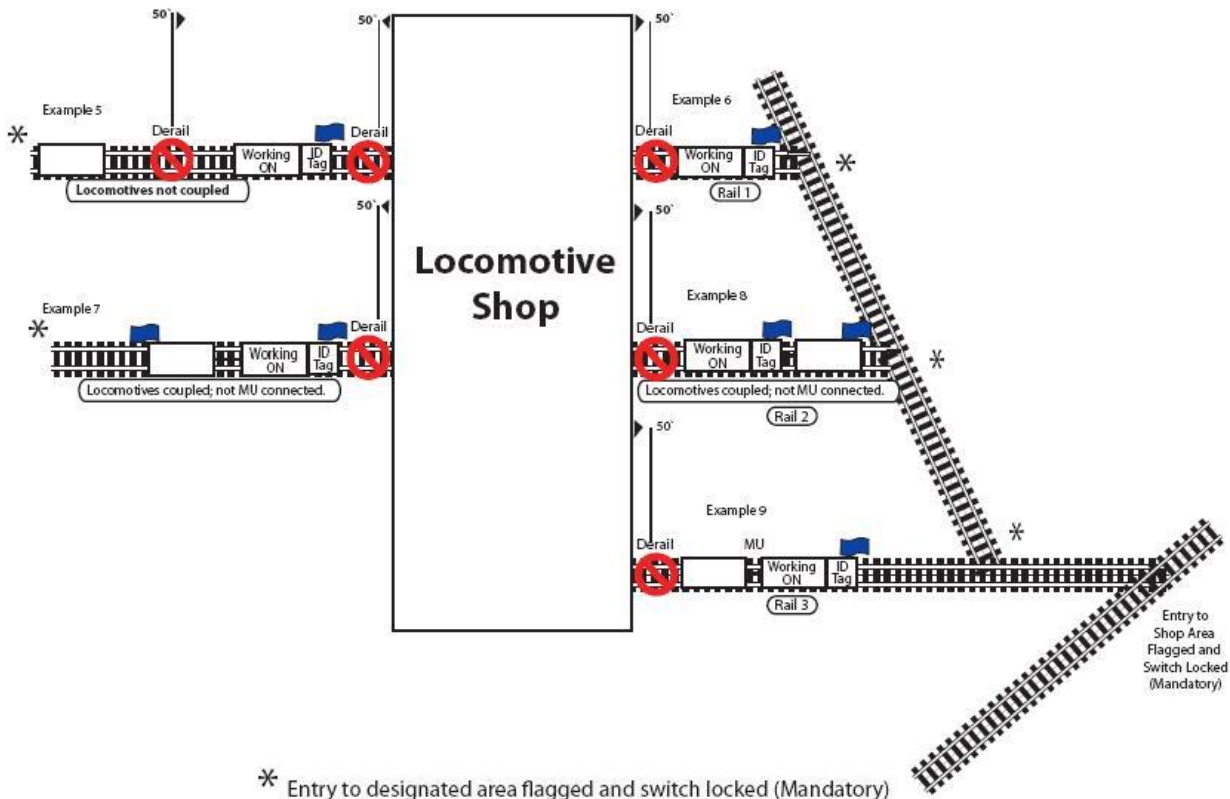
SERVICE TRACKS



Note 1-Each facility will designate the end (East, West, North and South) of track where name tag are placed.

* Entry to designated area flagged and switch locked (Mandatory)

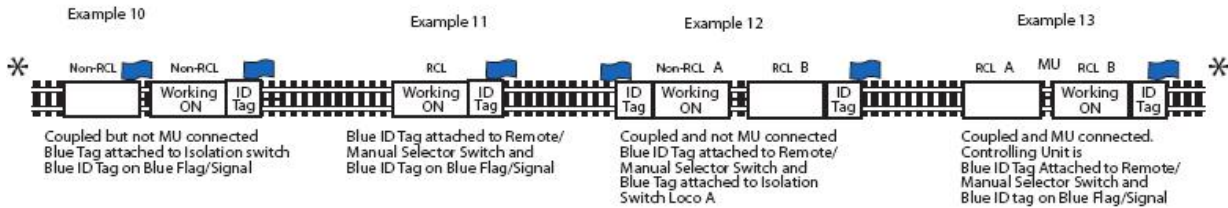
SHOP TRACKS



* Entry to designated area flagged and switch locked (Mandatory)

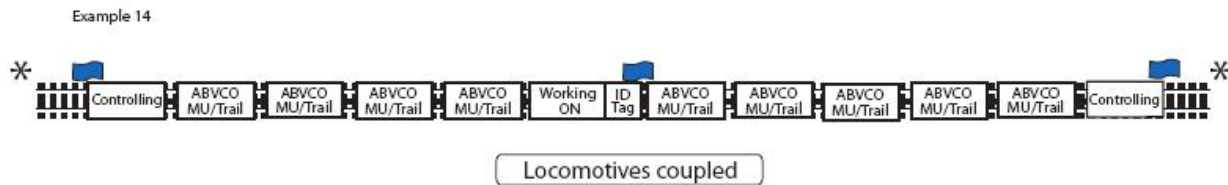
Minimum Blue Signal Requirements - System
Continued

OUTSIDE DESIGNATED MECHANICAL FACILITY



* Entry to designated area flagged and switch locked (Mandatory)

STORAGE TRACK



* Entry to designated area flagged and switch locked (Mandatory)

General Notes:

- 1- Must flag lead-controlling locomotive on MU connected and coupled consist.
- 2- ID tags can only be removed by individuals that placed them or their Supervisors. ID tags must be attached to blue flag or facility designated panel.
- 3- Remote Control Locomotives (RCL) must have the selector switches on the Receiver and Air Brake Panels placed in the "Manual Position".
- 4- RCL Slug units must be blue flagged with personal ID tags placed on the receiver panel and the blue flag
- 5- Shop access must be locked and lined away from shop if switches on shop tracks are not locked or equipped with derail.
- 6- All yard trucks will have a copy of Blue Flagging procedures for all associated yards in that shop's region.
- 7- Blue Signal Procedure for Outbound Consists on Ready Tracks.
 - a- All units in consist will be posted so that all involved know what units will be on what train.
 - b- All employees working consist will attached name tags to the blue flag on the outbound unit.
 - c- Starting in the lead unit cab and proceeding through all trailing units to setup air/electrical controls as trailing.
 - d- Starting at the rear of the consist make up all M.U. hose and electrical connections.
 - e- After consist is properly M.U'd the outbound work will proceed.
 - f- When work is completed each employee will remove their name tag. The last employee removing their tag will remove the blue flag and return to proper storage area.
- 8- If in doubt take the safe course and blue flag all locomotives coupled to the one that you will be working.

5.14 Signs Protecting Equipment

Application:

The loading and unloading of sand for sand towers, the unloading of fuel or other similar operations should be protected by a sign reading 'Stop, cars being loaded or unloaded'. This sign should be placed at the location providing positive protection for

the track(s) being used, either at each switch providing access to the track and the switch lined and locked to prevent movement to that track or, at each fixed derail locked in the derailing position, preventing movement into the cars being protected.

6.5: Shoving Movements

Equipment must not be shoved until the operator and the employee protecting the movement have completed a job briefing concerning how protection will be provided. Employee must be in position, provide visual protection of the equipment being shoved and participating crewmembers must not engage in unrelated tasks while making a shoving movement.

When making a shoving movement, the employee protecting the movement must:

- Position themselves ahead of the movement at a location where movement will stop. Face the equipment and bring movement towards them.
- or
- Ride the leading end of the equipment positioning themselves on the side of the operator.

When the radio is used during locomotive movement, distance and direction must be acknowledged when ANY distance is specified.

MOVEMENT MUST STOP WITHIN HALF THE DISTANCE SPECIFIED UNLESS ADDITIONAL INSTRUCTIONS ARE RECEIVED.

Equipment must not be shoved until it is visually determined that:

- Portion of track to be used is clear of equipment or conflicting movements.
- The track will remain clear to the location where movement will be stopped.
- Switches and derails are properly lined.

Shoving movements over road crossings must be made in accordance with Rule 6.32.1 (Providing Warning Over Road Crossings).

7.6 Securing Cars or Engines

Application:

The following applies:

- Before working on rolling equipment a handbrake or chock must be applied to the equipment and to adjacent rolling equipment on the same track.
- Before coupling into or cutting away from a single, coupled and/or consisted locomotive(s), a minimum of one hand brake and air brakes (if charged) must be applied.
- When left unattended on non-grade (no slope) track, a minimum of one handbrake will be applied to any uncoupled locomotive; any group of coupled locomotives and any locomotive consist.
- When rolling equipment is left unattended on grade (sloped) track, 100% of the handbrakes will be applied.
- When work requires the hand brake to be released, alternative means such as chocks or coupling to another locomotive, coupled and/or consisted locomotives with a hand brake set must be used to prevent movement.

- On units with under slung brake cylinders (attached to brake levers between the wheel versus mounted on the truck) insure the valve bleeds the air brakes off the truck when applying the hand brakes. If the brakes do not bleed off cut the truck out, apply the hand brake and cut the truck back in.

Switching or Spotting Operations in Car and Locomotive Shop Tracks

In addition to compliance to Rule 81.10; 81.5.4; and supplement Moving Equipment in Locomotive, Car or Maintenance of Way Repair Facilities, the following also applies:

- Any ground crew member intending to foul track or equipment must notify the operator before such action can take place. Operator must then apply the brakes and have reverser centered or car mover in neutral, and then confirm this action with the individual on the ground. e.g. 'UP Smith to car mover/loco unit #1234 going into the red zone to adjust the knuckle/drawbar -- over" to which the operator will respond "Car mover/loco unit #1234 to UP Smith. I understand. I am set and centered - out". If equipment is not equipped with a reverser, it must be placed in neutral or park with the brakes applied. Job briefing and/or agreed upon hand signals may be used to accomplish the above.
- Any ground crew member that intends to adjust knuckles/drawbars must ensure that the equipment to be coupled into is separated by no less than 50 feet. Also the person on the ground must ensure that the equipment will not move ensuring that sufficient hand brakes or wheel chocks are applied.
- After exiting the red zone, ground crew member should signal/notify the locomotive/car mover operator that they are clear of the red zone.

Working In Bowl and Yard Tracks or Main Tracks

Application:

- Contact train crew and yardmaster confirming intentions to make repairs to cars and/or locomotives.
- Apply blue signal protection including locking out the track.
- Ensure 2x2x2 requirements are met. Equipment is separated at least 2 car lengths (100 feet) and wait 2 minutes (to assure that all equipment is at rest) before stepping between the rails. Also apply 100% handbrakes on standing equipment opposite of equipment that requires repair.
- When possible, have a second person watch for unexpected movement while making repairs.
- Mechanical forces will apply the automatic brake with a 20-psi brake pipe reduction after completion of the air brake test.

Securing Rerailed Equipment at Derailments

Application:

- Comply with rules on properly securing cars and locomotives and the instructions in the first paragraph of this supplement.
- Be aware that all equipment may not have functional handbrakes and that necessary precautions must be taken to secure this equipment, i.e. coupling to another car or locomotive with a good handbrake applied and/or properly chocking the wheels.
- When rerailing operations are being performed on any grade (sloped) territory a derail will be applied to the low end of any track (including the mainline if applicable) on which rerailed cars are positioned. Portable derails are to be used if permanent derails are not available and placed as close to the equipment as feasible. Contractors are also required to comply with this rule.

8.20 Derail Location and Position

Application:

If a derail used for blue flag protection is found in the derailing position and is **not** being used in conjunction with Rule 5.13, employees are to:

- Warn oncoming rolling equipment to stop.
- Notify supervisor or manager by quickest available means.
- Place derail in non-derailing position as instructed.

Safety Rules Chapters 70 - 83

The following instructions modify rules or clarify the application for the Mechanical Department.

71.6.1 Highly Visible Outerwear

Application:

Clarification on vest color and designated areas for Mechanical Employees:

1. Locomotive mover teams (predominantly F&O's) are required to wear ANSI II High Visibility Orange outerwear when they are moving locomotives within the shop Blue Flag areas around servicing and repair facilities. In noise sensitive areas such as Chicago, locomotive mover teams at local management discretion may wear ANSI II High Visibility Yellow outerwear in lieu of Orange (to avoid the requirement for Engineers having to sound their horns).
2. All Mechanical Employees (except locomotive movers per paragraph 1 above) shall wear ANSI II High Visibility Yellow outerwear while working near track that is outside of their designated repair/servicing areas. Vests are not required when mechanical employees are working within designated repair/servicing areas.

72.6 Ignition Sources

Application:

1. Manager or foreman general will be notified that welding, heating or cutting must be used and the work cannot be moved to another location to perform the task.
2. The supervisor in charge of the area will see that all procedures and precautions are followed and a job briefing is developed and conducted.
3. The job briefing will include the following:
 - Only qualified employees will perform the welding, heating or cutting.
 - All personal protective equipment will be used.
 - The area must be cleaned with soap and flushed with water and no standing fuel or oil in the area. Also the area must be free of trash and debris.
 - All fueling operations within 50 feet of the operation must be stopped. This includes adjacent pits or fueling locations.
 - All individuals in the area must be notified that welding, heating or cutting will be taking place.
 - A fire watch must standby during the entire operation and be trained to operate and use the fire extinguishing equipment.
 - Potential hazards associated with the work are identified and discussed during the job briefing. This could include: securing the material being removed, equipment to handle the material or other special needs.

78.2 Lockout/Tagout

Application:

The tag out standard applies only to controlling energy whenever repairs are to be made to a locomotive or car.

This tag out procedure must be treated just like our blue flag and tag procedure.

When applying a tag out device, employee must also apply their Lockout/Tagout name tag to the device.

Mechanical Process:

- Job Briefing – Face to Face job briefing MUST take place with employees currently working on a locomotive/car before you start working on the same locomotive/car.
- Whenever 'Repairs' are to be made to a locomotive/car, you MUST identify and Tag out the Energy Source BEFORE making the repairs.
- The person applying the device MUST apply their lockout/tagout (LOTO) Tag.
- This does not apply to Load Testing or Servicing locomotives.
- Remove your LOTO name tag and tag out device when work is complete or leaving the locomotive/car/work area for an extended period of time.

Change of Shift or Personnel:

To insure the continuity of Tag Out protection during shift or personnel changes the Manager/Supervisor will ensure that:

- The transfer of Tag Out devices between the off-going and on-coming employees is coordinated to provide continuous protection.

Tag Out Device Removal:

Each Tag Out device shall be removed from each energy isolating device by the employee who applied the device. When the authorized employee who applied the Tag Out device is not available to remove it, that device may be removed as follows:

- After a reasonable search for the employee, only a Supervisor or Manager is authorized to remove a 'Tag Out Device' with no name tag.
- After a reasonable search for the employee, only a Manager is authorized to remove a 'Tag Out Device' with a name tag.
- The energy source has been verified that it is safe to re-energize.

Intentional removal of a tag or tag out device without communicating with the employee(s) that tagged out the locomotive is unacceptable at risk behavior.

Unintentionally leaving the tag out device and/or tag must be dealt with the same way we currently deal with blue flags and tags.

79.7 Torch Test

Application:

The proper sequence of closing the cylinder valves and torch valves after use will be explained. All oxygen and fuel gas torches will be tested per the following procedure:

A. Check oxygen hose from the cylinder/manifold to the torch.

1. Connect oxygen hose to the torch. Disconnect fuel gas hose at the torch.
2. Close all valves on torch.
3. Open oxygen supply valve on cylinder/manifold. Set regulator at 25 psi.
4. Close oxygen supply valve. Back out adjusting screw on regulator.
5. Observe high and/or low pressure gauge for one minute on the regulator for leakage. If leakage is observed, check connections, hose, and regulator nut. Repair. Start again at A. If no leakage is observed, proceed to B.

B. Check torch

1. Apply the test fixture to the torch tip.
2. Open all torch valves. Depress high pressure cutting lever. A small drop in pressure will occur. Pressure should stabilize.
3. Observe high and/or low pressure gauge for one minute on the regulator for leakage. If leakage is observed, check test fixture, connections, tip, tip nut, and lever valve. Make repair. Open the oxygen supply valve on the cylinder/manifold. Set regulator at 25 psi. Close oxygen valve, back out adjusting screw on regulator. Start again at B. If leak still present after second test, remove torch from service. If no leakage is observed, proceed to C.

C. Check fuel from the cylinder/manifold to the torch.

1. Close all valves on the torch. Remove test fixture. Connect fuel gas hose to the torch.
2. Open fuel supply valve on cylinder/manifold and set pressure to 10 psi.
3. Close fuel supply valve. Back out adjusting screw on regulator.
4. Observe high and/or low pressure gauge for one minute on the regulator for leakage. If leakage is observed, check connections, hose and regulator nut. Repair. Start again at C. If no leakage is observed, proceed to D.

D. Purge system of mixed gases.

1. Purge the system.
2. Open supply valves on cylinder/manifold for oxygen and fuel gas.
3. Set regulators to operating pressures.
4. Open oxygen valve on torch 1/8 turn. Ensure flow at tip. Purge 5 seconds / 25 feet of hose. Close oxygen valve on torch.
5. Open fuel gas valve on torch 1/8 turn. Ensure flow at tip. Purge 5 seconds / 25 feet of hose. Close fuel gas valve on torch, test complete.

After torch test is complete, a tag must be placed on the oxygen regulator to indicate test date and initials of individual performing the torch test.

When you have finished your cutting/welding operation ensure the following:

1. First, shut off the torch oxygen valve. Then, shut off the torch fuel valve.
2. Close both cylinder valves.
3. Open the torch handle oxygen valve. Let the oxygen in the system drain out. Close the torch oxygen valve.
4. Turn the adjusting screw on the oxygen regulator counterclockwise to release all spring pressure.
5. Open the torch handle fuel valve. Release the pressure in the system. Close the torch fuel valve.

6. Turn the adjusting screw on the fuel gas regulator counterclockwise to release all spring pressure.
7. Check the high pressure gauges after a few minutes to be sure the cylinder valves are turned off completely.
8. If the cylinders are mounted in a service truck the operator must insure that the above procedure is completed prior to the cabinet doors being closed.

80.14 Fall Protection

Instructions:

The use of fall protection is required anywhere a worker is subjected to a fall of four feet or greater (thirty inches or greater in California). A risk assessment for fall hazards should also be made for job sites where fall distances are less than those listed above. If the risk assessment warrants a personal fall protection system, it must be worn.

Work activity performed on the sides of a car or locomotive that meet the above height guidelines can be met with a work positioning harness and lanyards while tethered to a fixed ladder rung or handhold or while operating out of a boom type man lift with fall restraint / arrest systems (e.g. change out front or rear locomotive headlights). Work on top of cars or locomotives must either utilize an overhead fall protection system or the appropriate man lift with equipped fall restraint / arrest system. Work done while standing on a portable ladder (less than 20 feet in height) does not require fall protection.

Employees must be properly trained in the use of fall protection. If fall protection is not available and/or the employees are not trained, then the work cannot be done until these conditions are met.

Written Plan

Local fall protection minimum requirements in written plan will include:

- Identification of tasks with a fall hazard of four feet or more (30 inches in California).
- Annual employee fall protection awareness training (MECS04).
- Local rescue and retrieval procedure in the event of a fall.
- Pre use and annual inspection of fall protection equipment.
- Performance evaluations check and adjust training as required.

Each individual must observe for oily, icy or slippery conditions and review the safety aspects of the job task looking for any at risk conditions that might create loss of balance or use of force. The supervisor or manager and employee will review the risk assessment and correct any safety issues before work is authorized to begin.

81.2.2 Sufficient Distance

Application:

In Mechanical Department facilities equipment must be separated at least 50 feet instead of 100 feet before going between the equipment unless protected by Rule 5.13.

81.5.2 Stepping from One Car to Another

Application:

When stepping between the decks of one multilevel car to the deck of a connecting multilevel car, maintain three point contact (two feet and one hand or two hands and one foot) and keep hands free of objects. When the distance between the cars is too great to maintain a comfortable three point contact, do not step between cars.

81.7 Riding Equipment

Application:

Car and locomotive department employees are prohibited from riding any freight car, hood cart or other specifically made device used to transport parts or material by rail.

81.8.3 Impaired Clearances

Application:

Do not ride outside the cab of a locomotive, on the side of a moving car, or other equipment under impaired clearance conditions that will not allow safe passage, such as:

- Next to a structure (elevated ramps, sand towers, air emission towers, etc.).
- Through gates, doorways, into, out of or within buildings.

Before entering an impaired clearance area the:

- Movement must be stopped at least 20 feet from the impaired clearance area.
- Employee controlling the movement must get off the locomotive, or equipment, and precede it in the clear.
- Movement shall only be made upon signals from the controlling employee.

In addition, do not position yourself, or knowingly allow others to position themselves, between a structure and moving car(s), engine(s) or other equipment when clearance is impaired.

81.10 Moving Equipment in Locomotive, Car, or Maintenance of Way Repair Facilities

Addition:

These additions incorporate SOFA recommendations.

Locomotive Movers

Locomotive movers are required to wear ANSI approved orange reflective outerwear. Locomotive Movers will use a Company approved switching lantern at night or during foggy or other low visibility conditions.

Two or More Locomotive Mover Crews

When two or more locomotive mover crews are working in the same facility, extra precaution must be taken. Two or more crews are prohibited from switching in the same track or on adjacent track or tracks, at the same time, without establishing direct (face to face) communication with all other crew members involved. This communication must be in the form of a face-to-face job briefing.

Training

In order to move locomotives, an employee must be trained, certified, and be re-certified annually as a locomotive mover. The minimum qualifications are as follows:

Locomotive mover students must:

- Complete minimum classroom instruction of 3 days and pass a written exam with a score of 85% or better.
- Complete a minimum of 40 hours OJT (at least 16 hours must be during darkness).
- Successfully demonstrate and complete a final performance evaluation from a certified locomotive mover trainer.

81.15 Car Doors

Addition:

When opening or closing doors, keep fingers clear of the edge or door jamb, casting or rail on which the door travels. Keep your body clear of the door opening to avoid injury from falling freight.

Check box car doors for damage by thoroughly inspecting the top and bottom track and rollers. On plug doors examine the roller assembly, locking rods and all crank arms. Make sure the door is properly tracked before opening it. If the door is off track, take necessary precautions before opening it. If there is evidence of load shift, i.e. bulging door, take action to relieve the pressure on the car door before opening it. Guard against spinning or kicking of handles.

Do not move car, without door stops in place, unless the door has been secured by other means to prevent movement of the door.

Close and open doors with a mechanical device if normal force used by one person cannot accomplish the task. Use of excessive force is prohibited. Always position yourself in the clear, should the door fall, and be prepared for any sudden movement of the door. Use proper body positioning to prevent injury.

Paragraph 3

Paragraph 3 applies when mechanical assistance is required to slide a car door along its tracks. When checking door tracks for damage, also ensure that end stops are in place and in good condition.

When mechanical assistance is necessary, it could mean that the door assembly is unstable. Before any attempt is made to move the car door:

- All employees must be clear of the door, and out of the line of fire and the red zone.
- All door latching devices such as pins, wedges etc. must be suspended in a release position, by whatever means is available.

Rule Updated Date

May 2, 2016

[^Top](#)

[Union Pacific Rules](#)

[System Special Instructions](#)

ITEM 11: Moveable Point Frogs

- [Item 11: Moveable Point Frogs](#)

Item 11: Moveable Point Frogs

Location:

- Listed on subdivision pages by symbol (11-2) or (11-3). Switches equipped with 2 switch machines will be identified with the character (11-2), and switches equipped with 3 switch machines are identified with character (11-3).
- Identified by signs that are 24 inches wide by 18 inches high.

Signs:

- Approaching trains can view white signs with black borders and black lettering reading "Moveable Point Frog". These signs are placed directly across the track from each switch machine.
- Employees who are facing switch machines can view white signs with red borders and red and black lettering. These signs are placed directly across the track from each switch machine.
- In addition, decals are attached to each switch machine. These signs and decals read "IMPORTANT: This turnout is equipped with a moveable point frog."

Hand Operation #20 & #24 switches (11-2)

At #20 and #24 switches (11-2), there are two switch machines one of which is a moveable point frog machine.

After Receiving Permission:

At the switch point machine:

1. Inspect switch points (Ensure free of debris).(Do not remove debris until switch is placed in hand position.)
2. Unlock switch machine & place in hand position.
3. Operate the switch until switch point is seen to move. (This must be done even if the switch appears lined for intended route).
4. Line switch point for intended route & inspect.

At the frog point machine:

1. Inspect frog points (ensure free of debris). (Do not remove debris until switch is placed in hand position.)
2. Unlock frog machine & place in hand position.
3. Operate the frog until frog point is seen to move. (This must be done even if the frog appears lined for intended route).
4. Line frog point for intended route & inspect point.

Returning dual control switch machines to power:

After at least one unit or car has passed over the switch points, the employee must return the switch to power unless otherwise instructed by the control operator.

Hand Operation # 30 switches (11-3)

At # 30 switches (11-3) there are a total of three switch machines one of which is a moveable point frog machine.

After Receiving Permission:

Always operate the frog machine first.

1. Inspect frog points (Ensure free of debris). (Do not remove debris until switch is placed in hand position.)
2. Unlock frog machine & place in hand position.
3. Operate the frog until frog point is seen to move. (This must be done even if the frog appears lined for intended route).
4. Fully line frog point for intended route & inspect point.

At the first switch point machine:

5. Inspect switch points (Ensure free of debris). (Do not remove debris until switch is placed in hand position.)
6. Unlock switch machine & place in hand position.
7. Operate the switch until switch point is seen to move. (This must be done even if the switch appears lined for intended route).
8. Line switch half way, handle is in vertical position, and proceed to middle switch machine.

At the middle switch point machine:

9. Inspect switch points (Ensure free of debris). (Do not remove debris until switch is placed in hand position.)
10. Unlock middle switch machine & place in hand position.
11. Operate the switch until switch point rail is seen to move. (This must be done even if the switch appears lined for intended route).
12. Fully line switch for intended route & inspect point.

Return to first switch point machine:

13. Finish lining switch point for intended route. Inspect switch points.

Returning dual control switch machines to power:

14. After at least one unit or car has passed over the switch points, the employee must return the switch to power unless otherwise instructed by the control operator.

Job Briefing

A job briefing must be conducted with the control operator so everyone has a clear understanding on the control point, route to be taken, and which switches must be operated by hand. When making crossover movements and hand operation is required, both ends of the crossover must be hand operated. You must operate double the number of switch machines. Inspect all switch points and all frog points.

Rule Updated Date

May 2, 2016

[^Top](#)

[Union Pacific Rules](#)

[System Special Instructions](#)

ITEM 12: Track Breach Protection

- [Item 12: TRACK BREACH PROTECTION.](#)

Item 12: TRACK BREACH PROTECTION.

Track Breach Protection (TBP) is required on main track or controlled siding when occupying the area between:

- A main track and an adjacent track.
or
- A controlled siding and an adjacent track.

Exceptions

This process does not apply under the following conditions:

- Employee is crossing track(s) at a 90° angle.
- Employee's equipment occupies or prevents entry into the adjacent track.
- Employee's train has TWC authority in non-signaled territory on the adjacent track.
- Employee's train has authority to move in either direction on the adjacent track except in Yard Limits or Restricted Limits.
- When the train dispatcher informs the employee the adjacent track(s) is out of service.
or
- Employee occupying area adjacent to a foreign railroad's main track unless timetable instructions require protection.

Note: When employees are working on a track protected by Rule 5.13 (Blue Flag) or Roadway Worker Protection, TBP is not required on the adjacent track(s).

Track Breach Protection Process

For an employee to establish TBP the following applies:

Step 1 - Establishing

Main Track & Controlled Siding (outside Yard Limits/Restricted Limits):

Contact train dispatcher or EIC and provide the following information:

- Train/Job ID, including name of employee establishing TBP.
- Limits, which must be defined by control points or whole mileposts.
- Track(s) designation(s).

Train Dispatcher or EIC must repeat back the information and employee establishing TBP must confirm by stating "That is correct".

Within Yard Limits or Restricted Limits

Employee will establish Protection as designated in timetable.

Train Dispatcher or EIC Notification:

Contact train dispatcher or EIC and provide the following information:

- Train/Job ID, including name of employee establishing TBP.
- Limits which must be defined by Yard Limits/Restricted Limits and/or mileposts.
- Track(s) to be protected.

Employee Established Over the Radio

Announce over the designated radio channel Track Breach Protection has been established (specifying limits with necessary detail) using the following format:

"Train/Job ID, Employee Name____, I am establishing Track Breach Protection at Location____ - between MP ____ and MP ____ or - on Track____."

Step 2 - Recording

TBP will be recorded in the employee's Job Briefing Book or on the prescribed form to include the following information:

- Date and time.
- Limits, including track(s).
- Name of employee(s) working with the employee establishing TBP.
- When crews are working together within TBP limits, all employees working within the limits must be listed on the TBP log.
- Time released.

In Effect

Track Breach Protection Requirements:

- Before entering TBP limits or designated Yard Limits or Restricted Limits, movements must attempt to contact the employee that established the TBP for instructions. Trains must make 3 attempts (on the designated radio channel) to contact employee in the area. If response is not received, train may enter area looking out for employees working in the area. When cars are on the adjacent track, crew must continue to attempt to contact employee while passing through limits.
- TBP is not in effect until the designated supervisor has been notified or designated employee announces the establishment of TBP over the radio or the train dispatcher confirms information has been relayed to approaching train(s).
- Employee receiving confirmation from the train dispatcher must repeat back the information and the train dispatcher will state "That is correct".
- Before granting permission for a train to enter TBP limits, employee must first notify all employees listed on the TBP log of the approaching train. However, crews may work together when necessary to complete work such as exchanging power etc.
- TBP cannot be transferred from one employee to another employee.
- TBP may not be released until it is known that all employees listed on the TBP log are clear of the designated track(s).
- TBP remains in effect until released by the employee who established TBP, the employee is no longer on duty or employee's hours of service limit has expired.

Initiating Movement

Prior to initiating movement on main track or controlled siding, crew must attempt to ascertain whether track breach protection is in effect using the following methods:

- Crew must contact designated supervisor.
- Make 3 attempts (on the designated radio channel) to contact crew(s) working in the area to determine if TBP is in effect. If response is not received, train may initiate movement, looking out for employees working in the area.

Exceptions: If train is initiating movement on or to the main track or controlled siding at a controlled signal displaying a proceed indication or when crew has received information that TBP is not in effect from prior crew, it is not required to ascertain whether TBP is in effect.

Terms:

Adjacent Track

Parallel tracks that are not separated by a single lane roadway or similar distance are considered adjacent tracks.

Note: This definition only applies when determining if Track Breach Protection is required.

Breach

To enter area between two adjacent tracks.

Track Breach Protection (TBP)

Protection provided to prevent movements on adjacent track(s) while an employee is in the area between adjacent track(s). Rule 5.13 or 81.5.4 must be complied with when required.

Rule Updated Date

May 2, 2016

[^Top](#)

ITEM 13: Train Defect Detectors

- [Item 13: Train Defect Detectors](#)

Item 13: Train Defect Detectors

13.1 General Instructions For All Detectors

A. Required Action

To determine required action at a train defect detector, comply with these general instructions and instructions governing the specific type detector. Some locations have more than one type defect detector in service.

Stop Signal (Hold Signal)

When a Stop signal is used in connection with a detector, the signal will display Stop until the entire train passes the detector and it identifies no defect.

B. Use of Air Brakes and Train Speed

When operating conditions allow, avoid excessive braking, stopping, or reducing train speed below 15 MPH when approaching or passing detectors. Excessive braking may cause false indications on hot box detectors. Speeds below 15 MPH may cause 'Integrity Failure' or 'Slow Train' message. When a 'Slow Train' message is announced, refer to Item 13.8 Detector Failures for instructions.

C. Detector Failure

When a train defect detector fails for any reason, refer to Item 13.8 Detector Failures.

D. Axle Count

When a detector gives an axle count for a defect location, a crew member must:

- Physically count axles from the head end, including locomotive axles, to the indicated axle.
- Inspect indicated axle and all axles on both sides of that car/platform/unit/well. If no defect is found, inspect 20 axles ahead and 20 axles behind, on both sides of train, from the indicated car/platform/unit/well.

When a verbal defect detector transmits an axle count that disagrees with the train consist by a **variance of +/- 3 or more axles**, the train crew must:

- Immediately reduce speed to 30 mph and report the inaccuracy to the train dispatcher.
- After receiving corrective information, resume authorized speed.

Note: If previous detectors have transmitted correct axle counts and the train speed has not been below 15 MPH, the train may proceed at authorized speed. The inaccuracy must be reported to the train dispatcher.

E. Inspection

The inspection must ensure that:

- Retaining valve is in exhaust position.
- Hand brake is fully released.
- Brakes are not sticking.
- Truck bolster is not broken.
- Brake rigging is not down or dragging.
- Lading is not down or dragging between cars.
- Wheels are not broken.
- Lading has not dropped down through container floors or cross members of multi-unit/well cars.

When a defect is found that cannot be corrected, and car is safe to move, set the car out and notify the train dispatcher. Mechanical personnel may inspect and/or repair the car and approve it for movement.

F. Notification

Notify the train dispatcher any time a train defect detector requires the train to stop and inspect for defects. The train dispatcher may have additional information from a remote readout.

Detectors may be on different subdivisions, crew districts or train dispatching territories. Therefore, train dispatchers and conductors must communicate information relative to inoperative detector or defective car to one another.

G. No AC Power

When detector transmits "No AC Power" message, notify the dispatcher. This is not to be considered a detector failure.

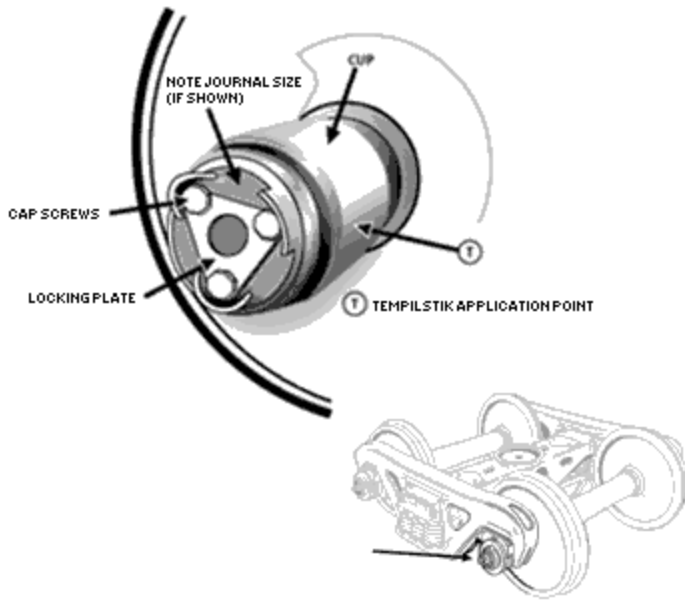
H. Unable to Complete Inspection

If a bridge or other physical characteristic prevents the required inspection, move the train not exceeding 5 MPH, no further than necessary to make the inspection. Observe movement, especially cars approaching a bridge structure. If any unusual condition is detected, stop movement at once.

I. Hot Box Detectors

Inspect a car for a hot journal identified by axle count as follows:

- Train may be moved ahead not exceeding 5 MPH to the location of the indicated defect under the following conditions:
 - Train is not a KEY train.
 - Train is not operating on rails with concrete ties.
 - Indicated axle will not pass over a switch.
 - It is not the second hot box detector activation on the same car.
 - A visual observation of the train indicates no smoke, flame or abnormal amount of dust.
 - The train does not require excessive power to continue movement.
- Inspect the journal identified by axle count using a 200 degree F temperature stick or temperature heat gun to determine if the journal is overheated. Set the car out if the overheated journal bearing melts the mark made with the temp stick or the temperature heat gun reading exceeds 200 degrees.



If there are no obvious signs of overheating:

- Cautiously place your bare hand on the truck side frame.
 - Move your hand toward the roller bearing cap, keeping in mind that any part of this equipment may be extremely hot.
- If you cannot hold your bare hand on the side frame or the roller bearing cap for a few seconds, set out the car.
 - If any journal is noticeable warmer than other journals on the car, set the car out.
 - Set out any car in a KEY train that experiences a hot box detector actuation that cannot be corrected, even if the overheated journal cannot be found on that car. However, do not set that car out if an overheated journal is found within 20 axles ahead of or behind that car/platform/unit/well. Mechanical personnel may inspect and/or repair the car and approve it for movement.
 - Set out any car that experiences two consecutive hot box detector actuations, even if the inspection reveals no hot journal. However, passenger equipment and business cars do not need to be set out if the inspection reveals no hot journal.
 - When a car is to be set out:
 - Move the car not exceeding 5 MPH to the nearest location where it can be set out, unless a different location or speed is specified by the train dispatcher.
 - Note the type of defect on proper tags and attach tags, one on each side of the car.
 - Notify the train dispatcher.

Exceptions:

- Passenger equipment, business cars, and roadway maintenance equipment do not need to be set out if the inspection reveals no hot journal.
- If a detector identifies hot journals on more than 2 cars/platforms/units/wells on a train, it is usually a malfunction of the detector. In such case, if no defect is identified during the inspection, cars do not need to be set out at that location. Comply with Action No. 3 contained in 13.8.2 (Detector Failure - Action Table).
- When an overheated journal is identified on a steam locomotive or tender, it is not necessary to stop and inspect. However, the assigned manager in charge may instruct otherwise.

J. Dragging Equipment Detectors

When a defect is detected, visually inspect the train for dragging equipment as required by existing instructions. When operating on rails with concrete ties, if no defect is found, perform an audible inspection, listening for indications of a broken wheel, as follows:

- If grade conditions permit, position yourself 10 cars/platforms/units/wells ahead of the indicated axle and roll the train by 20 cars/platforms/units/wells, listening for indications of a broken wheel. If no axle count is given by the detector, audibly inspect the entire train.
- If grade conditions do not permit, proceed not exceeding 20 MPH to the first location where grade conditions do permit making the audible inspection.
- If a sound is heard suggesting a broken wheel (thumping sound), set out the car having that wheel and report it to the train dispatcher.

K. Hot Wheel Detectors

When a hot wheel is identified by a train defect detector the following applies.

- Inspect the car/platform/unit/well identified by axle count. Train may be moved ahead not exceeding 5 MPH to the location of the indicated defect.
- Ensure that all hand brakes on car/platform/unit/well are released.
- Ensure that the retainer valve is in the exhaust position.
- Inspect for sticking air brakes. Cut out air brakes if necessary to release brakes (Refer to Rule 30.2.2). If there are no obvious signs of overheating, cautiously place your bare hand near the wheel tread. If no heat is detected, cautiously move your bare hand on the wheel closer to the wheel tread, keeping in mind that any part of this equipment may be extremely hot. Inspect all wheels on the identified car/platform/unit/well.
- During inspection check wheels for flat spots and tread build-up.
- If no defect is found, inspect the wheels and brakes on 20 axles ahead and behind the identified car/platform/unit/well on both sides of the train.

When obvious signs of overheating are identified and the cause cannot be corrected or car is not safe for movement, set the car out and notify the train dispatcher. When a car is set out due to a defect being identified, move the car if safe, not exceeding 5 MPH to the nearest location where it can be set out unless a different location is specified by the train dispatcher. Note the type of defect on proper tag and attach near defect

Releasing an applied handbrake or rectifying a stuck brake situation by cutting out the air or moving the retainer to the proper position will be considered a correction for a hot wheel defect. When the car/platform/unit/well will remain in the train, inspect it for a hot journal.

When a hot wheel is identified on a steam locomotive or tender, it is not necessary to stop and inspect. However, the assigned manager in charge may instruct otherwise.

L. Talk On Arrival and Defect Only Detector

When a detector Timetable Character is paired with the '+' character [#+, (#)+, (!)+, etc.], it indicates the detector is equipped with the Radio Transmitted Talk On Arrival and Defect Only feature. The '+' character does not change any instructions contained within Item 13 for the detector it is paired with.

Detectors equipped with the Talk on Arrival and Defect Only feature will normally not transmit a "No Defect" message. When detector does transmit this message, report the transmission to the train dispatcher; this is not considered a detector failure.

13.2 Hot Box or Hot Box/Hot Wheel and Dragging Equipment Detector with Radio Transmitted Defect Indicators

This applies to Timetable Characters "#" (Hot Box) and "(#)" Hot Box (Hot Wheel) and Dragging Equipment. The # detectors inspect for hot journals. The (#) detector inspects for hot journals and dragging equipment and may inspect for hot wheels.

The detector may announce to the crew that the system is operational when movement begins over the detector. The detector transmits a "No Defect" message if no defects are detected after the train passes the detector.

When a defect is detected:

- Hot Box:
 - Immediately begin to reduce speed using train handling techniques to minimize in-train forces. Stop the train once the train has cleared the detector.
- Dragging Equipment:
 - Stop the train immediately and inspect for dragging equipment.
- Inspect the train for the indicated defect(s) as required by Item 13.1.

13.2.1 Hot Box or Hot Box/Hot Wheel, High Wide Shifted Load and Dragging Equipment Detector with Radio Transmitted Defect Indicators

This applies to Timetable Character '(!)'. The (!) detector inspects for hot journals, dragging equipment, High Wide Shifted Loads and may inspect for hot wheels.

The detector may announce to the crew that the system is operational when movement begins over the detector. The detector transmits a 'No Defects' message if no defects are detected after the train passes the detector.

When a defect is detected:

- Hot Box:
 - Immediately begin to reduce speed using train handling techniques to minimize in-train forces. Stop the train once the train has cleared the detector.
- High Wide Shifted Load or Dragging Equipment:
 - Stop the train immediately and inspect the train for the indicated defect.
 - A crew that receives a high wide shifted load message must inspect the train for any load that has excessive width or height, or any load that has shifted.
Train may be moved not to exceed 5 MPH to assist making inspection. If necessary, set the car out. In addition, notify the train dispatcher, who will call the signal maintainer to reset the detector.
- Inspect the train for the indicated defect(s) as required by Item 13.1.

13.3 Hot Box or Hot Box/Hot Wheel) and Dragging Equipment Detector with Radio Transmitted Defect Indicators Talk On Defect Only

This applies to Timetable Characters "\$" (Hot Box) and "@" Hot Box (Hot Wheel) and Dragging Equipment. The \$ detectors inspect for hot journals. The @ detector inspects for hot journals and dragging equipment and may inspect for hot wheels.

The detector will normally not transmit a "No Defect" message. When detector does transmit this message, report the transmission to the train dispatcher so the Stop signal may be cleared. This is not considered a detector failure.

When a defect is detected:

- Hot Box:
 - Immediately begin to reduce speed using train handling techniques to minimize in-train forces. Stop the train once the train has cleared the detector.
- Dragging Equipment:
 - Stop the train immediately and inspect for dragging equipment.
- Inspect the train for the indicated defect(s) as required by Item 13.1.

13.4 High Wide Shifted Load Detector and Dragging Equipment Detector with Radio Transmitted Verbal Defect Indicators

This applies to Timetable Characters "&" and "(&)"

Some detectors announce to the crew that the system is operational when movement begins over the detector.

When a defect is detected:

- Stop the train immediately and inspect the train for the indicated defect.
- Follow instructions that apply in Item 13.1 (General Instructions for All Detectors).
- A crew that receives a high wide shifted load message must inspect the train for any load that has excessive width or height, or any load that has shifted. Train may be moved not to exceed 5 MPH to assist making inspection. If necessary, set the car out. In addition, notify the train dispatcher, who will call the signal maintainer to reset the detector.

Detectors identified by "(&)" only transmit a message, if a defect is found.

13.5 Dragging Equipment Detectors Equipped With Radio Transmitted Verbal Defect Indicators Talk On Defect Only

This applies to Timetable Character "%".

The detector announces only when it detects a defect.

If a defect is detected, an alarm tone or message transmitted, stop the train immediately and inspect for dragging equipment. If no axle count is given, and the train has cleared the detector, inspect the entire train.

If the train has not cleared the detector, inspect the portion of the train that has passed over the detector. If another defect is detected when departing, inspect the portion of the train not previously inspected.

13.6 Wheel Impact Detectors Equipped With Radio Transmitted Verbal Defect Indicators - Talk On Defect Only

This applies to Timetable Character "(@)".

The detector announces only when it detects a defect.

The detector announces defects approximately 30-45 seconds after the entire train has passed the detector.

The detector will transmit total high impact wheels detected for the entire train followed by each individual impact including the Level of each impact. Car initial and number (when available) along with total car count from head end of train including the locomotives will follow. For Level 2 impact defects, the specific wheel location on the indicated car may also be announced.

- For either Level 1 or Level 2 impacts, stop the train and inspect indicated car for damaged wheel. If safe to move, limit train speed to 30 MPH and set indicated car out at next available location, unless a different location is specified by the train dispatcher.

If transmission is not clearly understood, reduce train speed to 30 MPH and contact the train dispatcher for defective equipment identification.

13.7 Wheel Down Indicators

This applies to Timetable Character '(*)'

When a wheel down is detected by a trackside indicator, stop the train as soon as possible consistent with train handling techniques that will minimize in train forces.

13.8 Detector Failures

When a detector fails to operate properly, refer to Item 13.8.1 (Failed Detector Situation Table) to identify the specific detector failure situation and train type. Note the action number listed on the right side of the table for that type failure situation and train type directly under the type detector that has failed. Refer to the table in Item 13.8.2 (Detector Failure - Action Table) and comply with the instructions for that action number.

13.8.1 Failed Detector Situation Table

Failed Detector Situation	Type of Train	Type Detector				
		13.2 (#), # or (#)+ # +	13.2.1 (!) or (!)+	13.3 \$ or @	13.4 & or (&)	13.5 % 13.6 (@) 13.7 (*)
a. Track bulletin or verbal information from train dispatcher instructs crew that detector is out of service.	KEY Trains	3	3 & 4	3	4	NAR
	Other Than KEY Trains	5	4 & 5	5	4	NAR
b. Detector announces 'Dragging Detector Malfunction'	All Trains	7	1	7	1	7
c. Detector announces "Integrity Failure" or "Detector Malfunction" message – and NO defect message or tone received.	All Trains	2 & 3	Integrity Failure: 2 & 3 Detector Malfunction: 2 & 4	2 & 3	2 & 4	7

d. Detector announces 'Slow Train' and NO defect message or tone received.	KEY Trains	2 & 3	2, 3 & 4	2 & 3	2 & 4	NAR
	Other Than KEY Trains	5	5	5	NAR	NAR
e. Detector announces 'Integrity Failure' or 'Slow Train' message AND defect message or tone received.	All Trains	1 & 2	1, 2 & 4	1 & 2	2 & 4	1 & 2
f. Crew members receive NO arrival or exit message from the detector.	KEY Trains	1 & 2	1, 2 & 4	NAR	2 & 4	NAR
	Other Than KEY Trains	2 & 3	2, 3 & 4	NAR	2 & 4	NAR
g. Crew members do not understand arrival or exit message from detector and NO defect message or tone received.	KEY Trains	1 & 2	1, 2 & 4	NAR	2 & 4	NAR
	Other Than KEY Trains	2 & 3	2, 3 & 5	NAR	2 & 5	NAR
h. Crew members do not receive or understand arrival or exit message from detector AND defect message or tone received.	All Trains	1 & 2	1, 2 & 4	1 & 2	2 & 4	1 & 2
i. Detector announces 'High/Wide Detector Malfunction'.	All Trains	NAR	2 & 4	NAR	2 & 4	NAR

NOTE: "NAR" in the action number column means "No Action Required."

13.8.2 Detector Failure - Action Table

Action	Detector Failure - Action Required
1.	Stop the train at once and inspect train on both sides for defects. For Hot Box detectors (13.2) immediately reduce speed using train handling techniques to minimize in-train forces. Once the train clears the detector, the train must be stopped immediately, within 4 miles, consistent with good train handling.
2.	Immediately attempt to report condition to the train dispatcher.
3.	Proceed as follows: <ul style="list-style-type: none"> • Key trains not exceeding 30 MPH. • All other trains may proceed at maximum authorized speed.

	<p>Within 30 miles of the failed detector, one of the following conditions must be complied with:</p> <ul style="list-style-type: none"> a. Train passes other detector(s) that checks for all of the same defects. All of the same defects must be checked for within the 30 miles. b. Crew may establish rollby inspection of the train by qualified employees located on both sides of the train. Speed must not exceed 10 MPH during this inspection. c. Stop the train and make a rollby inspection of the train by crew members located on the ground. Speed must not exceed 10 MPH during this inspection. Roll-by inspection may be made on one side. A walking inspection or Rule 6.6 may be used to make inspection of the opposite side. d. The train dispatcher may choose to stop the train and have the crew make an inspection of the entire train. e. Stop and inspect the entire train when the next consecutive detector that checks for any of the same defects fails.
4.	Freight trains approaching the protected structure must stop and inspect entire train before reaching protected structure. Freight trains moving away from the protected structure must stop and inspect entire train unless instructed that the detector is out of service. When an inspection is required, train may be moved not to exceed 5 MPH to assist making inspection.
5.	Proceed at maximum authorized speed unless otherwise instructed by the train dispatcher. Stop and inspect the entire train when the next consecutive detector(s) that checks for any of the same defects fails.
6.	<p>Reduce train speed to 30 MPH and immediately contact the train dispatcher to determine if the train contains a defective car.</p> <ul style="list-style-type: none"> a. If train does not contain any defective car, train may proceed at maximum authorized speed. b. If train contains either a Level 1 or Level 2 impact defect, stop the train and inspect indicated car for damaged wheel. If safe to move, limit train speed to 30 MPH and set indicated car out at next available location, unless a different location is specified by the train dispatcher.
7.	<p>If a train receives this message on two consecutive detectors:</p> <ul style="list-style-type: none"> a. Immediately stop the train and contact the dispatcher. b. Inspect the entire train on one side looking for dragging equipment.

NOTE: If the train dispatcher has access to a remote readout, crew may be governed by train dispatcher's instructions. If remote readout shows there is no defect, the train dispatcher may authorize the train to continue at normal speed. If remote readout shows location of a defect, the train dispatcher may authorize the train crew to perform the required inspection using axle count for defect location.

Rule Updated Date

May 2, 2016

[^Top](#)

[Union Pacific Rules](#)

[System Special Instructions](#)

ITEM 14: Operating With Foreign Railroads

- [Item 14-A: UPRR Crews Operating Over Foreign Railroads](#)
- [Item 14-B: Foreign Railroads Operating on UPRR Tracks](#)

Item 14-A: UPRR Crews Operating Over Foreign Railroads

Unless otherwise specified, operation over foreign railroads will be governed by the following:

- Operating Rules of the foreign railroad. However, UPRR crews operating on a foreign railroad are required to properly complete a UPRR Conductors Report Form or a similar foreign railroad form as required by UPRR rules. UPRR crews will be governed by UPRR Rule 2.21.
- Timetable and Special Instructions of the Foreign Railroad
- UPRR Air Brake and Train Handling Rules
- UPRR Safety Rules
- UPRR Instructions For Handling Hazardous Materials (Form 8620)
- Respect all restrictions listed in UPRR System Special Instructions Item 2-A (Parts 1, 2 and 9 through 12), Item 2-B, Item 2-C and Item 14 unless foreign railroad's requirements are more restrictive.
- UPRR crews will be governed by UPRR Rule 2.21.

When operating on foreign railroads that have more restrictive speed restrictions for empty cars, consider any car as empty when the explanation in the Commodity column of the train consist shows NONREV or the car as a revenue empty (REVMTY or MTYTTX). This is true despite the entry in the Car Kind column.

Rule Updated Date

May 2, 2016

[^Top](#)

Item 14-B: Foreign Railroads Operating on UPRR Tracks

A. Train Make-up Requirements.

Foreign railroads operating on the UPRR are governed by that railroads train make-up requirements.

B. Track Stability

When track work has affected track stability, the train dispatcher may advise all affected trains that Air Brake Rule 34.2.13 applies on a track restriction using either of the following methods:

1. Issue a Form C track bulletin, using the words "Air Brake Rule 34.2.13 applies to Track Bulletin No. _"
or

2. Issue a Form A track bulletin, including in the TRACK(S) column the identification of the tracks affected, followed by "34.2.13"

When using this method, the following train handling instructions apply only to the limits identified on that line of the track bulletin.

When Level 1 or Level 2 heat restrictions are in effect, Rule 34.2.13 applies to the extent practicable.

The conductor must remind the engineer sufficiently in advance of any restriction or known conditions to allow the engineer to use train handling techniques that will minimize in-train forces.

When proceeding through the limits of the track bulletin, radio speed restriction, or wherever instructed to comply with Rule 34.2.13, the engineer must use the following train handling techniques to minimize in-train forces when possible:

- Use throttle modulation or low dynamic brake amperage.
- Avoid making slack adjustments.
- Avoid applying or releasing automatic brakes.
- Make power and brake adjustments before or after the restriction.

When operating with distributed power at the rear of the train:

- When in power, operate in synchronous mode or in independent mode with distributed power 1-3 throttle notches below the lead consist.
- When in dynamic brake, operate in synchronous mode or in independent mode with distributed power 1-3 throttle positions above the lead consist.

C. Conductor Awareness Forms.

Foreign railroad crews operating on the UPRR are governed by that railroad's rule concerning awareness forms.

Rule Updated Date

May 2, 2016

[^Top](#)

ITEM 15: Work Orders

- [Item 15: Work Orders](#)

Item 15: Work Orders

These instructions apply to conductors.

A. Work Order Document

For crews that move railroad cars between Circ-7's (stations), pickup and/or spot industries or pull and/or deliver interchanges, a computer-generated Work Order document prescribing the moves will be provided (may be generated by the conductor). This document will be furnished to the conductor at the beginning of or during their tour of duty. The conductor must record the following times on this document:

- Pull and/or Pickup times.
- Station/Yard Setout times.
- Industry Placement (spot) times.
- Interchange Delivery times.

When making Station/Yard Setouts the conductor must record the yard number and track number of the track into which each car was setout. Also record the direction and sequence of each setout car showing how each car lines up within the track.

When handling any car differently from the instructions that appear on the Work Order document, note the exception to the car detail line in the blank space appearing above it. Print the Setout Exception code in the "EX" column of the car detail line. For every line of scheduled work not done, the conductor must print the appropriate "Not Done Reason" code in the "EX" column. All car detail lines prescribing work within the limits of the crew assignment must be accounted for as either done or not done.

As each block of work is completed, record the movement data in a timely manner.

The conductor must sign and date the completed form.

B. Form 29363

When performing unscheduled or additional work (work not prescribed by the Work Order document), the conductor must record the moves on Form 29363.

C. Other Documents and Instructions

Treat the document used (such as a track list) as a work order at locations where the crew does not receive Work Order documents or where a job is designated to pickup or setout cars from an industry/interchange. Note on the document the work done as explained in section A.

1. Verbal Work Instructions

When the conductor receives verbal instructions, record the work done. When the customer requests intraplant switching

moves, record the name of the customer's employee requesting such moves in the RSN field of Form 29363. If form is not available, record the car movements on the reverse side of the Work Order document.

2. Customer Document

If the customer provides switch lists to the crew, the conductor has two alternatives:

a. If the conductor can retain the customer document:

- Note the date and time each block of work was completed.
- Note type of work the crew did, even if the customer previously noted the work on the document. Examples include pulls, placements, or switches to another spot.
- Note any exceptions (or work not done) to the documents under the appropriate equipment ID's.
- Date and sign the bottom of the list.

b. If the customer chooses to retain the document for its own records and will not release the list:

- Transfer all pertinent information from the document to Form 29363 (see section B) or a handwritten list if Form 29363 is not available.
- Date and sign the list.

D. WORK COMPLETED

Upon completing all work, the conductor must close out the Work Order document. On the "WORK COMPLETED BY" line the conductor records the Circ-7, date and time showing where and when the document is closed out and also affixes his or her signature. If forms are not available, mark and sign the track lists used in the manner prescribed above.

When assigned to a work train, conductors are required to complete their work orders and report the location of cars in the work train at the end of their tour of duty; including train symbol, Circ-7, and yard/track where train was left.

Completed work orders can be faxed or called into the Company Material desk in the NCSC at:

- Fax: 1-800-877-5108 or company line 8-106-2178
- Phone: 1-800-243-5417 option 3, or company line 8-106-7047 option 3

E. ATCS-GUI

Introduction to ATCS-GUI

The Advanced Train Control System - Graphical User Interface (ATCS-GUI) Work Order reporting applies to all through freights, local freights, industry jobs, and interchange transfers. The Service Unit continues to provide ATCS-GUI training on the desktop computers located in the crew rooms. All conductors must complete ATCS-GUI training.

Instructions for obtaining ATCS-GUI training are available through the TE&Y Portal on the OFF DUTY page under Job Aids.

Lack of training does not relieve an employee from reporting freight car movement activity by means of ATCS-GUI. Contact the ATCS-GUI help desk for assistance.

1. Work Order Reporting

Upon completing all documents prescribing car movement information (including the Work Order Issues) the conductor must furnish car movement data to MyUp. The preferred method is by means of the ATCS-GUI/Mobile Work Order reporting system.

The conductor is to report work by means of the available computer equipment found in Company facilities. The same desktop computers found in depots, yard offices, crew shanties, and crew lodging facilities have software for logging-on to MyUp and for reporting ATCS-GUI Work Order activity. Work may be reported at any time during the shift and whenever possible, conductors must arrange their work activities to allow enough time, at end of shift, to report Work Order activity before the expiration of their Hours-of-Service. Where this is not possible, be governed by the requirements of the Hours-of-Service Law.

2. ATCS-GUI Help Desk

Help with using the ATCS-GUI Work Order reporting system may be obtained by calling the ATCS-GUI help desk at Company telephone 8-544-5555 Option 7 then Option 2 or toll free long distance 1-800-621-8953 Option 7 then Option 2.

F. Automatic Equipment Identification (AEI)

As each assignment makes its way through a terminal, or across a territory, it may pass one or more AEI scanners. AEIs may report some pickups and/or setouts, industry placements, and interchange activity. Do not assume that an AEI is doing any or all of the Work Order reporting. Logon to ATCS-GUI at the final terminal and confirm that all scheduled and unscheduled work has been reported correctly.

G. Hours of Service Situations

1. Approaching 12 Hours on Duty

Whenever an assignment is approaching 12 hours on duty, the conductor will have the assignment's Work Order Issue document completed to that point. All car detail lines appearing on the Work Order Issue document covering work between the crew's initial station and the 12-hour duty limit point must be properly completed with all appropriated entries. This includes both scheduled work and unscheduled, or additional work recorded on customer supplied documents or Form 29363.

2. Failure to Complete Trip

If an assignment fails to reach its final terminal, the conductor will ascertain from the train dispatcher, appropriate yardmaster, carrier officer, or other proper authority as to whether he or she should either:

- Leave the Work Order documents with the train for a relieving conductor to report
or
- Take the Work Order documents into final terminal for handling per local instructions.

Whenever a conductor is called to perform relief service, the conductor must report all Work Order data that was left with the train being relieved. Upon reaching the final terminal report all work for the relieved train before performing additional Hours-of-Service relief moves or other work. This instruction applies both to a conductor specifically called for relief service and to a conductor temporarily diverted from their present assignment for the purpose of performing relief service.

H. Faxing to the National Customer Service Center (NCSC)

Sending a completed Work Order Issue document to the appropriate Work Order representative at the NCSC by means of facsimile (FAX) transmission may be done only under the following circumstances:

- No functioning desktop computer is available,
- The desktop computer is unable to establish a communication link with the ATCS-GUI server,
or
- Network is down.

Before faxing, call the ATCS-GUI Help Desk at Company telephone 8-544-5555 Option 7 then Option 2 or toll free long distance 1-800-621-8953 Option 7 then Option 2 to obtain a *Fax Authorization Number*. Record the Fax Authorization Number on the first page of the Work Order Issue document (or its equivalent) before faxing.

The NCSC cannot process any scheduled or unscheduled work without a Fax Authorization Number.

I. Mobile Work Order System

The Mobile Work Order System is designed to perform timely work order reporting using a Mobile Work Order Reporting device. The device can only be used to report work order activities and must not be modified to perform any other function. Be governed by GCOR Rule 2.21 Part B while using the device.

The assigned employee is responsible for the device and care must be taken to not damage the device.

The assigned employee must turn the device on and log into the system at the start of tour of duty. Device must remain on during tour of duty to allow customer communication of work to be performed.

The assigned employee is required to report the work performed on the device in a timely manner, and as real time as possible. This will prevent customer communication after the initial time of reporting at the customer location.

The device must be returned to the pool device location at the end of tour of duty unless the device is assigned to an employee or the employee is staying at the away from home terminal and a pool device location is not available.

Problems with the device must be reported to the employee's supervisor, and work order reporting completed via the Desk Top version of the Mobile Work Order Application.

Rule Updated Date

May 2, 2016

[^Top](#)

ITEM 16: Tornado Watch and Warning Instructions

- [Item 16: Tornado Watch and Warning Instructions](#)

Item 16: Tornado Watch and Warning Instructions

Background:

Tornadoes are the most violent of all storms. Paths of destruction range from a few hundred feet in width to more than a mile, and extend the length of a city block to three hundred miles. Rotating winds exceed 200 MPH. Forward travel varies from 5 to 70 MPH, with an average speed of 40 MPH. It is impossible to predict exactly where they will develop or touch ground. The greatest potential for such storms exists from April through September and ordinarily occurs between noon and midnight, with more than 50% striking between 1500-1900.

Standard Personnel Protection:

In a home or office go to the basement, away from windows, and seek protection under a workbench, heavy table, stairway, or in a closet. In a building lacking a basement, go to an inner hallway or room, including bathrooms or closets, on the lowest floor. Cover yourself with heavy blankets to protect from flying glass and debris. If unable to reach one of the above areas safely, the nose compartment of a diesel unit is a suitable shelter. Abandon mobile homes.

Tornado Warning Means:

A tornado has been sighted or verified by the National Weather Service or by persons associated with official weather spotters. The train dispatcher will keep trains informed of limits of Tornado Warnings. Train crews are to follow the instructions as outlined below:

- During a Tornado Warning, all train movements and yard activities must stop. Any train en route will stop and employees will seek appropriate shelter.
- Consistent with the safety of all involved, avoid stopping a train:
 - On high bridges,
 - Across railroad and highway crossings at grade, or
 - Anyplace where the presence of a train could be a hindrance.
- After a Tornado Warning has been cleared and such information has reached the train crews, if the path of the tornado crossed the tracks at their location or in the immediate vicinity, crew members must:
 - Inspect their train before moving to find out if any damage or derailment has occurred to the train, and
 - Inspect track structure for signs of damage from the tornado.
- After inspecting the train and track, the train may go. However, be prepared to stop when approaching bridges, culverts and other points likely to be affected within the limits of the tornado path. If unable to go safely, stop the movement and do not resume movement until safe to do so. Advise the train dispatcher of such conditions by the first available means of communication. In case of communication failure, strictly follow standard operating procedures.

County-Based Tornado Warning Means:

A tornado has been sighted or verified by the National Weather Service or by persons associated with official weather spotters somewhere within the county. Train crews notified of such warnings are to follow the instructions as outlined below:

- During a County-Based Tornado Warning continue all train movements and yard activities, keeping alert for any signs of weather change. The danger signs to look for are severe thunderstorms, hail, roaring noise, a funnel cloud or any combination of the above.
- In the event a crew spots a funnel cloud, immediately notify the train dispatcher consistent with the crew's safety, giving details as to the sighting.
- Any train or yard assignment having an occupied caboose, upon being notified of a County-Based Tornado Warning will stop and move the occupants from the caboose to the locomotive consist. If while moving to the head end, the County-Based Tornado Warning turns into a Tornado Warning or a funnel cloud is spotted, the exposed persons should seek shelter in a nearby ditch, ravine, culvert, under a bridge, or in a depression. If none of these are available, lay face down on the ground with the hands over head. Be far enough away so the caboose or any other car in the train cannot topple on you.

Rule Updated Date

May 2, 2016

[^Top](#)

[Union Pacific Rules](#)

System Special Instructions

ITEM 17: Accessing General Orders and Bulletins Electronically

- [Item 17: Accessing General Orders and Bulletins Electronically](#)

Item 17: Accessing General Orders and Bulletins Electronically

The timetables, subdivision general orders, and system general orders now may be accessed from the UPRR Employee website. Select **Departments**, then select **Operating**. Next select **Union Pacific Rules (including GCOR)**, then click on the desired link from the **Electronic Rules, Bulletins and Timetable (ERT)** page.

Rule Updated Date

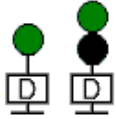
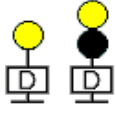
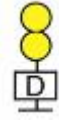
May 2, 2016

[^Top](#)

ITEM 18: Distant Signals

- [Item 18: Distant Signals](#)

Item 18: Distant Signals

RULE	NAME	ASPECT	INDICATION
9.1.1	Distant Signal Clear		Proceed. If delayed as per Rule 9.9 or Rule 9.9.1 between this signal and block or interlocking signal, proceed prepared to stop before any part of train or engine passes the next signal.
9.1.2	Distant Signal Approach		Proceed prepared to stop before any part of train or engine passes the next signal or switch point indicator. The maximum speed is 20 MPH+ within interlocking limits or within the limits of the control point for which Distant Signal Approach is displayed at the distant signal.
9.1.3	Distant Signal Approach Diverging		Proceed prepared to advance on diverging route at next signal at prescribed speed through turnout.

Rule Updated Date




May 2, 2016





[^Top](#)

ITEM 19: Block and Interlocking Signals

- [Item 19: Block and Interlocking Signals](#)

Item 19: Block and Interlocking Signals

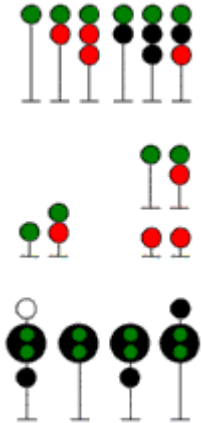

Explanation of symbols:  White light  Dark  Flashing color

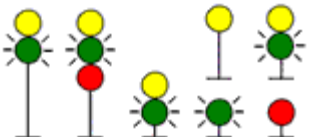
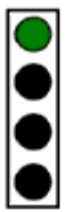
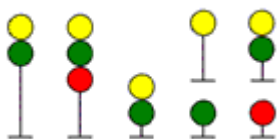
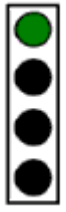
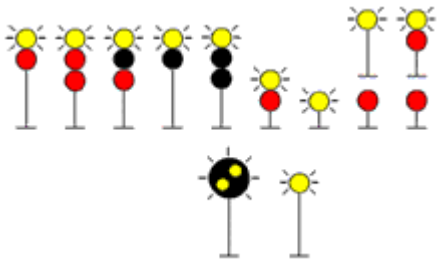
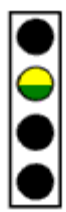
 "G" plate  Lunar light  Number plate  "C" plate

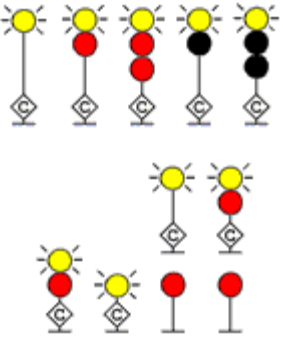
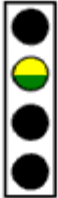
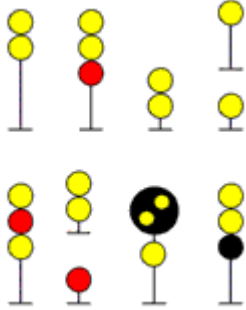
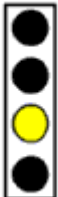
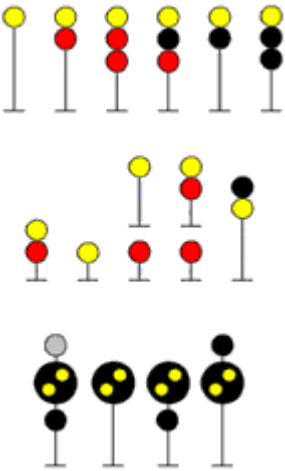
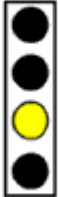


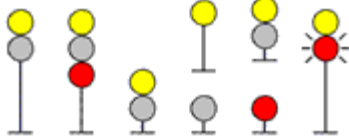

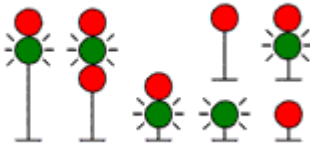

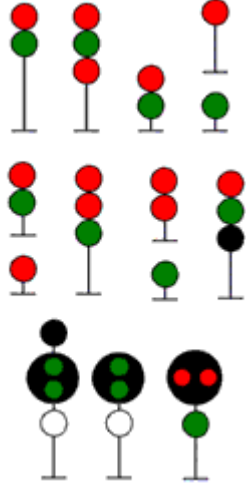

Color position signal head - When one color only is displayed in a color position signal head, it is to be considered the same as two lights.

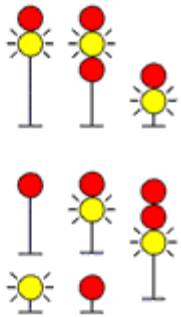

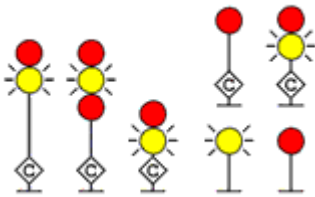

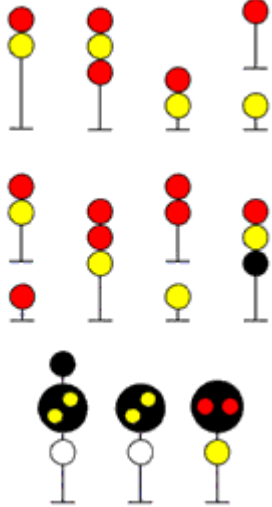

Unless otherwise specified or signal mast is shown with a number plate, signal aspects shown apply to signals with or without number plates.



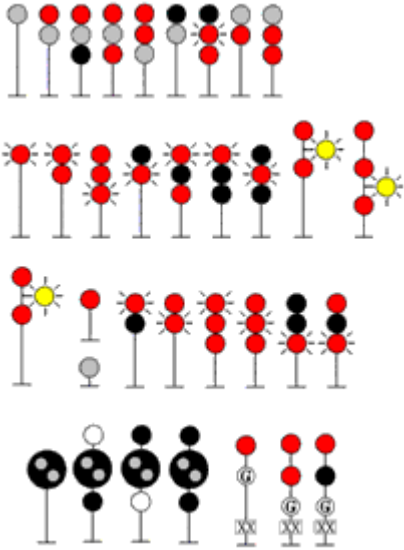

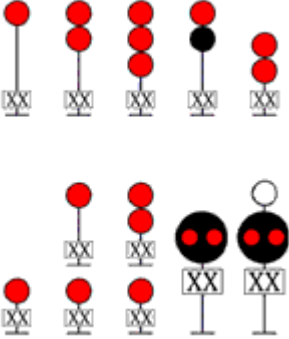

RULE	NAME	ASPECT	ACS	INDICATION
9.2.1	Clear			Proceed.
9.2.2	Approach Clear Sixty			Proceed. Freight trains exceeding 60 MPH must immediately reduce to 60 MPH. Passenger trains may proceed, but must be prepared to pass the next signal not exceeding 60 MPH. When signal governs the

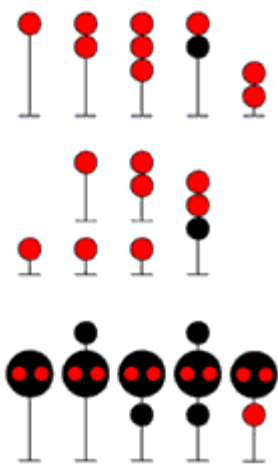
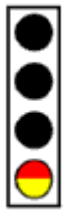

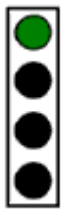

				<p>approach to a control point with a 60 MPH turnout speed be prepared to advance on diverging route.</p>
9.2.3	Approach Clear Fifty			<p>Proceed. Freight trains exceeding 50 MPH must immediately reduce to 50 MPH. Passenger trains may proceed, but must be prepared to pass the next signal not exceeding 50 MPH.</p> <p>When signal governs the approach to a control point with a 50 MPH turnout speed be prepared to advance on diverging route.</p>
9.2.4	Advance Approach			<p>Proceed prepared to stop at second signal. Freight trains exceeding 40 MPH must immediately reduce to 40 MPH. Passenger trains may proceed, but must be prepared to pass the next signal not exceeding 40 MPH.</p> <p>When signal governs the approach to a control point with a 40 MPH turnout speed be prepared to advance on normal or diverging route.</p> <p>When the next signal is seen to display an aspect more favorable than Diverging Approach or Approach, the requirement to proceed prepared to stop short of the second signal is no longer required.</p>
				<p>Proceed prepared to stop at second signal. Freight trains</p>



9.2.4P	Advance Approach Passenger	 <p>With diamond shaped "C" plate and with or without number plate</p>		<p>exceeding 40 MPH must immediately reduce to 40 MPH. Passenger trains may proceed, but must be prepared to pass the next signal not exceeding 60 MPH.</p> <p>When the next signal is seen to display an aspect more favorable than Diverging Approach or Approach, the requirement to proceed prepared to stop short of the second signal is no longer required.</p>
9.2.5	Approach Diverging			<p>Proceed prepared to advance on diverging route at next signal at prescribed speed through turnout.</p>
9.2.6	Approach			<p>Proceed prepared to stop before any part of train or engine passes the next signal. Freight trains exceeding 30 MPH must immediately reduce to 30 MPH. Passenger trains exceeding 40 MPH must immediately reduce to 40 MPH.</p> <p>When the next signal is seen to display a proceed indication, the requirement to proceed prepared to stop no longer applies. Speed may be resumed after leading wheels of train have passed signal.</p>
				<p>Proceed prepared to pass next signal at restricted speed, but not exceeding 15 MPH. When the next signal is seen to display a</p>

9.2.7	Approach Restricting			<p>proceed indication, the requirement to pass next signal at restricted speed no longer applies. Speed may be resumed after leading wheels of train have passed signal</p>
9.2.8	Diverging Clear Limited	 <p>Without number plate</p>		<p>Proceed on diverging route. Speed through turnout must not exceed 40 MPH</p>
9.2.9	Diverging Clear	 <p>Without number plate</p>		<p>Proceed on diverging route not exceeding prescribed speed through turnout.</p>
9.2.10	Diverging Advance Approach			<p>Proceed on diverging route not exceeding prescribed speed through turnout and be prepared to stop at second signal. Freight trains exceeding 40 MPH must immediately reduce to 40 MPH. Passenger trains may proceed, but must be prepared to pass the next signal not exceeding 40 MPH.</p> <p>When the next signal is seen to display an aspect more favorable than Diverging Approach or Approach, the requirement to proceed prepared to stop short of the second signal</p>

		 <p>Without number plate</p>		<p>is no longer required.</p> <p>When signal governs the approach to a control point with a 40 MPH turnout speed be prepared to advance on normal or diverging route.</p>
9.2.10P	<p>Diverging Advance Approach Passenger</p>	 <p>With diamond-shaped "C" plate and without number plate</p>		<p>Proceed on diverging route at prescribed speed through turnout prepared to stop at second signal. Freight trains exceeding 40 MPH must immediately reduce to 40 MPH. Passenger trains exceeding 60 MPH must immediately reduce to 60 MPH.</p> <p>When the next signal is seen to display an aspect more favorable than Diverging Approach or Approach, the requirement to proceed prepared to stop short of the second signal is no longer required.</p>
9.2.11	<p>Diverging Approach</p>			<p>Proceed on diverging route at prescribed speed through turnout prepared to stop before any part of train or engine passes the next signal. Freight trains exceeding 30 MPH must immediately reduce to 30 MPH. Passenger trains exceeding 40 MPH must immediately reduce to 40 MPH.</p> <p>When the next signal is seen to display a proceed indication, the requirement to proceed prepared to stop no longer applies. Speed</p>

		Without number plates		may be resumed after leading wheels of train have passed signal.
9.2.12	Diverging Approach Diverging	 <p>Without number plates</p>		Proceed on diverging route not exceeding prescribed speed through turnout prepared to advance on diverging route at the next signal at prescribed speed through turnout.
9.2.13	Restricting			Proceed at restricted speed, not exceeding prescribed speed through turnout when applicable.
9.2.14	Restricted Proceed			Proceed at restricted speed.

9.2.15	Stop	 <p>Without number plates</p>		<p>Stop before any part of train or engine passes the signal.</p>
9.2.16	Diverging Approach Clear Fifty	 <p>Without number plate</p>		<p>Proceed on diverging route at prescribed speed through turnout. Freight trains exceeding 50 MPH must immediately reduce to 50 MPH. Passenger trains may proceed, but must be prepared to pass the next signal not exceeding 50 MPH.</p> <p>When signal governs the approach to a control point with a 50 MPH turnout speed, be prepared to advance on diverging route.</p>
9.2.17	Clear Restricting	 <p>Lake St. Interlocking</p>		<p>Proceed at restricted speed, not exceeding 10 MPH.</p>

9.2.18	Approach Restricting	 Lake St. Interlocking		Proceed at restricted speed, prepared to stop.
9.2.19	Stop	 Lake St. Interlocking		Stop before any part of train or engine passes the signal.

Rule Updated Date

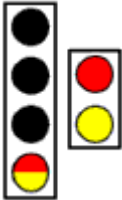


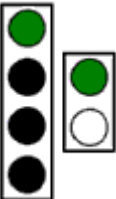
May 2, 2016

[^Top](#)

ITEM 20: Automatic Cab Signals

- [Item 20: Automatic Cab Signals](#)

Item 20: Automatic Cab Signals

RULE	NAME	ASPECT	INDICATIONS
9.3.1	Restricting		Proceed at restricted speed.
9.3.2	Approach		Proceed prepared to stop before any part of train or engine passes the next signal. Freight trains exceeding 30 MPH must immediately reduce to 30 MPH. Passenger trains exceeding 40 MPH must immediately reduce to 40 MPH.
9.3.3	Advance Approach		Proceed prepared to stop at second signal. Freight trains exceeding 40 MPH must immediately reduce to 40 MPH. Passenger trains may proceed, but must be prepared to pass the next signal not exceeding 40 MPH.
9.3.4	Clear		Proceed.

Rule Updated Date


May 2, 2016

[^Top](#)

ITEM 21: Slide Warning Indicator

- [Item 21: Slide Warning Indicator](#)

Item 21: Slide Warning Indicator

RULE	NAME	ASPECT	INDICATOR
9.4.1	Slide Warning	SLIDE WARNING INDICATOR (To apply to trains governed by fixed signal with which connected).  (Illuminated)	When signal requires movement at restricted speed to next signal. Keep close lookout for rocks or other obstructions, broken, bent and damaged rail.

Rule Updated Date







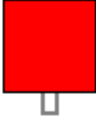
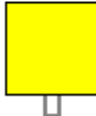




May 2, 2016

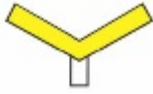
[^Top](#)

ITEM 22: Roadway Signs

- [Item 22: Roadway Signs](#)

Item 22: Roadway Signs

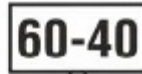
<div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p>FOR CROSSINGS* FOR TUNNELS, ETC.</p> <p>At locations where crossing signs are displayed, sound whistle as required by Rule 5.8.2 (7) regardless of the type of crossing train is approaching.</p> <p>* If a number sign is attached to the crossing sign, it shows the number of crossings for which the whistle signal is required.</p>	<div style="text-align: center;">  </div> <p>Crossings where quiet zones are in effect.</p> <p>If a number sign is attached to this crossing sign, it shows the number of successive crossings for which the sign applies.</p>	<div style="text-align: center;">  <p>DERAIL SIGN</p> </div> <hr/> <div style="text-align: center;">  <p>CROSSING WARNING DEVICE MALFUNCTION</p> <p>Stop at the sign. Rule 6.32.2 A - Procedure 1 applies at the crossing</p> </div>
<div style="display: grid; grid-template-columns: 1fr 1fr; gap: 20px;"> <div style="text-align: center;">  <p>YELLOW-RED FLAG PROTECTING MEN OR EQUIPMENT</p> </div> <div style="text-align: center;">  <p>RED FLAG</p> </div> <div style="text-align: center;">  <p>YELLOW FLAG</p> </div> <div style="text-align: center;">  <p>GREEN FLAG</p> </div> </div>		<div style="text-align: center;">    <p>STOP SIGNS</p> </div>



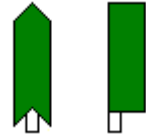
YARD LIMIT SIGN



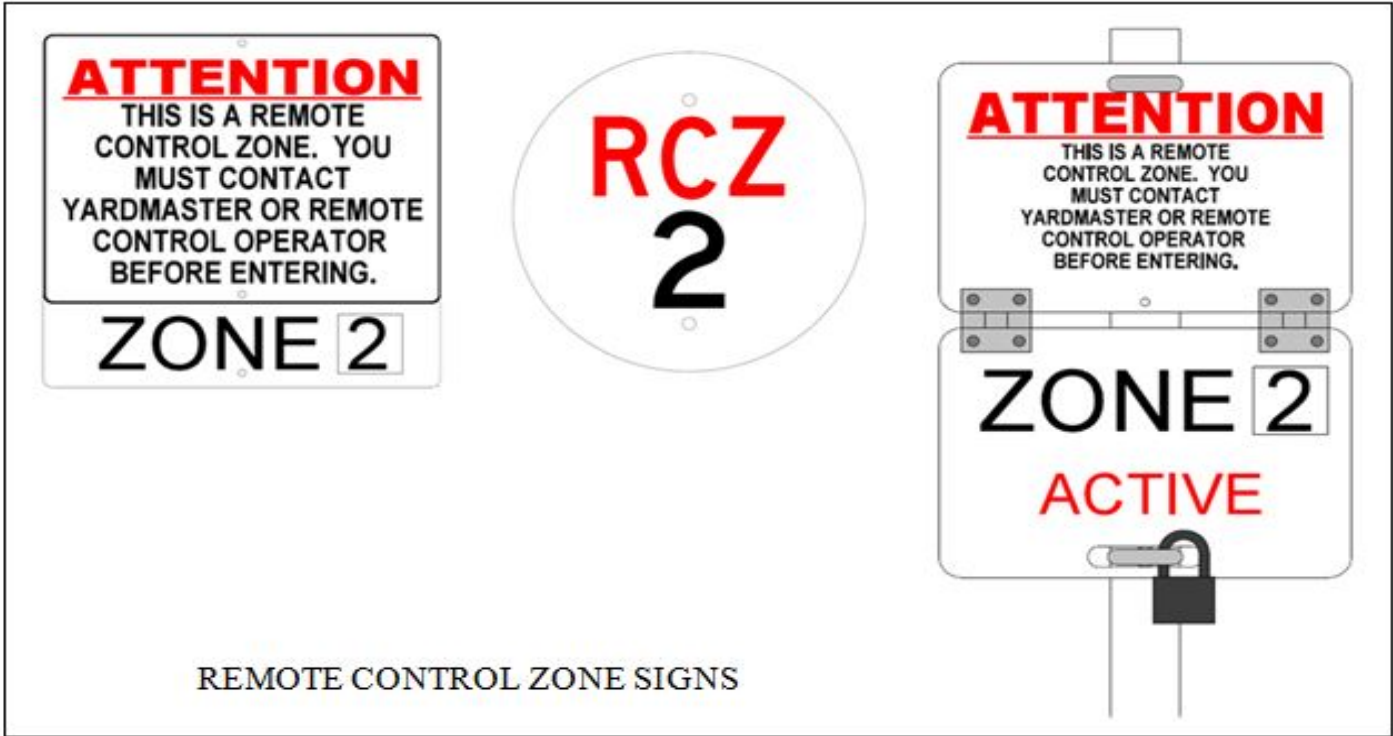
RESTRICTED LIMIT SIGNS



PERMANENT SPEED
RESTRICTION SIGN



PERMANENT RESUME
SPEED SIGN



HIGH THREAT URBAN AREA (HTUA) SIGNS	END OF TRACK SIGN	SWITCH FLAG
 <p>BEGIN HTUA</p>  <p>END HTUA</p>		 <p>Switch or Derail Lined Improperly</p>

Rule Updated Date

May 2, 2016

[^Top](#)

ITEM 23: Security Alert Instructions

- [Item 23: Security Alert Instructions](#)

Item 23: Security Alert Instructions

To protect our employees, the general public and our railroad from terrorist acts, Security Alert Levels 1 - 4 have been established. As the Alert Level increases, the actions to be taken by our crewmembers also increases. The actions required by crewmembers include all actions for the current level, as well as those for the lower Alert Levels. For example, if Alert Level 3 is in effect, actions required in Alert Levels 1, 2 and 3 are required.

Definitions:

Alert Train: Any train that is handling one or more hazardous materials in class 1.1, 1.2, 2.1, 2.3, anhydrous ammonia, any hazardous material shipment that requires the phrase "Poison or Toxic Inhalation Hazard" on the shipping paper, or otherwise identified. These shipments are identified on the train consist as "ALERT SHIPMENT" or "RSSM SHIPMENT".

Alert Level: The level of threat to security of rail operations.

Unusual Item: An attachment to railroad rolling stock that is not a part of the normal rail equipment, or a suspicious package or container located on or near railroad property.

Unusual Stops: As used in Level 3, examples of this include:

- Any radio transmission from an unknown person requesting the train to stop.
- Any unknown person attempting to stop the train by hand signals.
- A dark signal or signals that are improperly displayed.
- Stop or Stop and Proceed signals at other than meeting points.
- Unattended fusee.
- Detectors that are out of service without a track bulletin.
- Emergency vehicles fouling the track without prior notification from the dispatcher.

The following are the minimum requirements for train and engine crews, based on the various Alert Levels. Each level has additional requirements.

Alert Level 1 (The "new normal" day-to-day operations):

- Remain vigilant for suspicious activities, trespassers, or vehicles (abandoned or occupied) on or near railroad property. Report suspicious activities to the train dispatcher, or to RMCC (1-888-UPRR-COP / 1-888-877-7267).
- Keep required employee identification immediately available at all times.

Alert Level 2 (Heightened security awareness):

- When inspecting train, increase vigilance and scrutiny of railcars, looking for unusual items.

Alert Level 3 (A credible threat of attack on the U.S. or railroad industry):

- Train dispatcher will communicate with crews on Alert trains at least once every 60 minutes to determine location and status in areas where train tracking through the train dispatch system is not available, such as in TWC or Rule 9.14 territory.
- Immediately notify the train dispatcher of any unusual stops.

Alert Level 4 (A confirmed threat of attack against the U.S. railroad industry or actual attack in the U.S.):

- Crew members must identify themselves by employee identification badge when picking up outbound locomotives at service facilities.
- Meeting points with passenger trains will be established and communicated to crews by the train dispatcher.
- Train inspections from the ground may be eliminated on instruction of the train dispatcher.
- Do not leave unattended and unsecured locomotives on line without the authority of the train dispatcher.
- Alert trains will not be allowed to operate in a tunnel at the same time with a passenger train.

When Security Alert level is above Level 1, when crews complete switching operations at all plants and facilities equipped with gates, the gates must be immediately shut and locked to maintain security for those facilities. Local railroad instructions may provide relief for facilities not requiring that degree of security.

When Security Alert levels are above Level 2, crews must not provide any shipping information. Instruct customers to contact the NCSC for inquiries.

Other requirements may be imposed by local management or the train dispatcher, as necessary.

Rule Updated Date

May 2, 2016

[^Top](#)

[Union Pacific Rules](#)

[System Special Instructions](#)

ITEM 24: California Proposition 65 Warning

- [Item 24: California Proposition 65 Warning](#)

Item 24: California Proposition 65 Warning

Locomotives, diesel equipment, and work areas in the State of California contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

California Proposition 65 requires that companies warn employees of exposures to chemicals which are "known to the State of California" to cause cancer, birth defects, or other reproductive harm. Over 500 chemicals are included in California's list, including alcoholic beverages, aspirin, caffeic acid (contained in coffee), diesel engine exhaust, gasoline engine exhaust, lead, oral contraceptives, silica (sand), tobacco smoke, and unleaded gasoline (wholly vaporized).

Any questions about Proposition 65 may be addressed to the Union Pacific Values Line at 1-800-998-2000.

Rule Updated Date

May 2, 2016

[^Top](#)

EXPLAIN: Explanation of Characters

- [EXPLAIN: EXPLANATION OF CHARACTERS](#)

EXPLAIN: EXPLANATION OF CHARACTERS

SYMBOL REPRESENTS	
ABS	AUTOMATIC BLOCK SIGNAL
ACS	AUTOMATED CAB SIGNAL
ATC	AUTOMATIC TRAIN CONTROL
ATS	AUTOMATIC TRAIN STOP
CTC	CENTRALIZED TRAFFIC CONTROL
RL	RESTRICTED LIMITS
TWC	TRACK WARRANT CONTROL
DT	DOUBLE TRACK
#MT	MULTIPLE MAIN TRACK – # (number MT's)
!	SIDING WITH ENTERING SIGNAL ALLOWING ASPECT MORE FAVORABLE THAN LUNAR
(A)	AUTOMATIC INTERLOCKING
B	BASE RADIO STATION
D	DRAW BRIDGE
(G)	GATE-NORMAL POSITION AGAINST CONFLICTING ROUTE
G	GATE-NORMAL POSITION AGAINST THIS SUBDIVISION
(M)	MANUAL INTERLOCKING
(S)	STOP SIGN
T	TURNING FACILITY
(X)	RAILROAD CROSSING AT GRADE
X	CROSSOVER BETWEEN MAIN TRACKS – DUAL CONTROL SWITCHES
Y	YARD LIMITS
(Z)	MANUAL INTERLOCKING WITH RELEASE BOX AND A M/W KEY RELEASE IF EQUIPPED
(11-2)	SPECIAL INSTRUCTIONS APPLY ITEM 11 - 2 SWITCH MACHINES
(11-3)	SPECIAL INSTRUCTIONS APPLY ITEM 11 - 3 SWITCH MACHINES

N	NORTHWARD
S	SOUTHWARD
E	EASTWARD
W	WESTWARD
C	CENTER
+	HEAD – END RESTRICTION ONLY
(R)	REDUCE / RESUME SPEED SIGNS AT OTHER THAN PRESCRIBED LOCATION
(#)	HOT BOX AND DRAGGING EQUIPMENT DETECTOR STATION EQUIPPED WITH RADIO TRANSMITTED VERBAL INDICATOR
#	HOT BOX DETECTOR STATION EQUIPPED WITH RADIO TRANSMITTED VERBAL INDICATOR
@	HOT BOX AND DRAGGING EQUIPMENT DETECTOR STATION EQUIPPED WITH RADIO TRANSMITTED VERBAL INDICATOR – TALK ON DEFECT ONLY WITH HOLD OR STOP SIGNALS
\$	HOT BOX DETECTOR STATION EQUIPPED WITH RADIO TRANSMITTED VERBAL INDICATOR – TALK ON DEFECT ONLY
%	DRAGGING EQUIPMENT DETECTORS WITH RADIO TRANSMITTED VERBAL INDICATOR – TALK ON DEFECT ONLY
&	HIGH WIDE SHIFTED LOAD AND DRAGGING EQUIPMENT DETECTOR EQUIPPED WITH RADIO TRANSMITTED VERBAL INDICATOR
(@)	WHEEL IMPACT DETECTORS EQUIPPED WITH TRANSMITTED VERBAL DEFECT INDICATIONS - TALK ON DEFECT ONLY
(&)	HIGH WIDE SHIFTED LOAD AND DRAGGING EQUIPMENT DETECTOR EQUIPPED - TALK ON DEFECT ONLY
(*)	WHEEL DOWN INDICATOR - TALK ON DEFECT ONLY

Rule Updated Date

May 1, 2014

[^Top](#)

[Union Pacific Rules](#)
[System Special Instructions](#)

OTHERS: Other Available Reference Material

- [OTHERS: Other Available Reference Material](#)

OTHERS: Other Available Reference Material

OTHER AVAILABLE REFERENCE MATERIAL								
Area #	Area Name	Order #	Area #	Area Name	Order #	Area #	Area Name	Order #
1	Portland	PB-27020	9	Kansas City	PB-27028	17	Houston	PB-27036
2	Salt Lake City	PB-27021	10	Salina	PB-27029	18	San Antonio	PB-27037
3	Roseville	PB-27022	11	Iowa	PB-27030	19	Livonia	PB-27039
4	Los Angeles	PB-27023	12	Twin Cities	PB-27031	0	All Area 3 Hole Singles	PB-27038
5	Sunset	PB-27024	13	Chicago	PB-27032	0	3" Binder	PB-27019
6	Denver	PB-27025	14	St. Louis	PB-27033	0	Area Tabs (19 Each)	PB-27018
7	North Platte	PB-27026	15	North Little Rock	PB-27034	0	System Special Instructions	PB-27015
8	Council Bluffs	PB-27027	16	Dallas / Ft. Worth	PB-27035	99	UPRR TRAINING TT	PB-27099

Rule Updated Date

April 1, 2015

[^Top](#)