

#### Union Pacific Rules

# **System Special Instructions**

Effective April 1, 2020 Includes Updates as of October 5, 2020 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

For business purposes only. Unauthorized access, use, distribution, or modification of Union Pacific computer systems or their content is prohibited by law.

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** 



# UNION PACIFIC RAILROAD SYSTEM SPECIAL INSTRUCTIONS

Effective 0900 CDT Wednesday, April 01, 2020

V. J. Vena – Chief Operating Officer
T. A. Lischer, Executive Vice President – Operations
S. K. Keller, Senior Vice President – Northern Region
D. M. Giandinoto, Senior Vice President – Southern Region
H. Cary IV, Vice President – HDC & Network Operations
E. J. Gehringer, Vice President – Mechanical & Engineering
E. N. Batt, Assistant Vice President – Safety & Chief Safety Officer

#### This document supersedes:

Union Pacific Railroad System Special Instructions Effective May 10, 2019

# **SHL: Safety Hot Lines**

• SHL: Safety Hot Lines

# **SHL: Safety Hot Lines**

#### NORTHERN REGION

S. K. Keller, Senior Vice President – Northern Region
Russell Rohlfs, Assistant Vice President – Track Maintenance
Tara Hogan, General Superintendent – HDC
Brenten Starr, General Superintendent – HDC

Service Unit	Safety Hot Line	General Manager	Headquarters
Commuter Ops	See Local Instructions	Benita Gibson	Chicago, IL
Great Lakes	See Local Instructions	Ricky Wells	Council Bluffs, IA
Chicago Complex	See Local Instructions	Andrey Drozdov	Northlake, IL
Great Plains	See Local Instructions	Mike Santa Maria	North Platte, NE
Northern California	800-992-0945	Matthew Hall	Roseville, CA
Pacific Northwest	503-249-2539	Cliff Bowman	Portland, OR
Rocky Mountain	800-992-0945	Kurt Zalar	Salt Lake City, UT

#### **SOUTHERN REGION**

D. M. Giandinoto, Senior Vice President – Southern Region Mark Wheeland, Assistant Vice President – Track Maintenance Tami Johnsen, General Superintendent – HDC Jason Jones, General Superintendent – HDC

Service Unit	Safety Hot Line	General Manager	Headquarters
Gulf Coast	8-211-0891	Brian Gorton	Spring, TX
Houston Complex	8-211-0891	Brian McGavock	Houston, TX
Heartland	See Local Instructions	Jay Everett	Kansas City, MO
Mid - America	See Local Instructions	Steven Bybee	N. Little Rock, AR
South Texas	See Local Instructions	Robert Ellis Jr.	San Antonio, TX
Sunset	800-269-2060	Neil Scott	Tucson, AZ
Los Angeles Complex	800-269-2060	Carl Garrison	Bloomington, CA

Texoma	See Local Instructions	Daniel Torres	Ft. Worth, TX

#### **Operating Practices**

David O'Hara, Gen. Director – Operating Practices - Ph - 402-David Robbins, Gen. Director – Safety and Analysis - Ph - 402 Randy Eardensohn, Sr. Director – Safety & Operating Practices - Pl Kevin Andersen, Sr. Director – Safety Field Operations - Ph 402 Jason Taullie, Director – Operating Practices & Rules - Ph 402 Keith Jensen, Sr. Manager – Train Handling Improvement - Ph 8 Taylor Weisbeck, Director – Systems Quality Assurance Testing - P

Rules Manager	Phone Number	Timetable Area
Ricky Carver	402	Dallas / Ft. Worth; Houston; Livonia; North Little Rock; Salina; San
		Antonio.
Robbie Goldman	801	Chicago; Council Bluffs; Denver; Iowa; Kansas City;
		North Platte; St. Louis; Twin Cities.
Rob Hunter	909-	Los Angeles; Portland; Roseville; Sunset; Salt Lake City.

For emergencies call RMCC: 1-888 UPRR COP or 1-888-877-7267 Harriman or Spring Dispatching Centers: Safety Hot Line Numbers:

#### **Rule Updated Date**

April 1, 2020

**TOC:** Table of Contents

• TOCSSI: TABLE OF CONTENTS

# **TOCSSI: 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	18
8. Engine Handling ITW (In Track Welder)	18
9. Unmanned Geometry Measurement System (UGMS) UP 910701	18
Item 4 Locomotive Information	19
Item 5 Car Placement and Train Make-up Restrictions	22

Item 5-A Shipments of Excessive Height/Width and High Value	22
Item 5-B System Train Make-up Requirements	24
1. Responsibilities When Train Make-up Does Not Meet Requirements	25
2. Maximum Train Length Restrictions	25
3. Maximum EPA/EDBA	26
4. Car Placement Restrictions	27
5. Train Make-up Restrictions West of North Platte, Denver and El Paso	29
6. Train Make-up and Helper Requirements	30
Item 5-C Coupler Limits with Helper(s), Helper Placement, and Train Power Balance	32
Item 6 Maximum Gross Weight Limitations	36
Item 7 Employee Information	38
Item 7-A Reference Documents	38
Item 7-B Qualifications of Certified Employees	41
Item 8 Heavy and Mountain Grade Operations	45
Item 9 Use of Engine Horns - Quite Zone	49
Item 10 Rule Supplements & Amendments (Critical Rules)	50
Item 10-A General Code of Operating Rules, Chapters 1 to 19	54
Item 10-B Positive Train Control (PTC) Operations	89
Item 10-C Air Brake & Train Handling Rules, Chapters 30 to 39	93
Item 10-D Maintenance of Way Rules, Chapters 40 to 57	101
Item 10-E Safety Rules, Chapters 70 to 83	105
Item 10-F Instructions for Inspecting, Welding and Grinding of Rail and Track Components, Chapters 100 to 115	115
Item 10-G Chief Engineer Instruction Bulletins, Chapters 121 to 138	123
Item 10-H Hazardous Materials Instructions	127
Item 10-I Programs and Policies	128
Item 10-J Commuter Train Operations	129
I. Commuter Operations Documents & Requirements	129
II. Instructions Governing Movements Between the Ogilvie Transportation Center (OTC and Halsted and Erie	129

III. Additional Rules and Instructions	129
Item 10-K Main Track Switches	136
Item 10-L Additional Equipment Securement Requirements	137
Item 10-M Mechanical Department (Maintenance Operations)	139
Item 11 Moveable Point Frogs	151
Item 12 Track Breach Protection	153
Item 13 Train Defect Detectors	155
13.1 General Instructions For All Detectors	155
13.2 Hot Box or Hot Box/Hot Wheel and Dragging Equipment Detector with Radio Transmitted Defect Indicators	158
13.2.1 Hot Box or Hot Box/Hot Wheel, High Wide Shifted Load and Dragging Equipment Detector with Radio Transmitted Defect Indicators	158
13.3 Hot Box or Hot Box/Hot Wheel and Dragging Equipment Detector with Radio Transmitted Defect Indicators - Talk On Defect Only	158
13.4 High Wide Shifted Load Detector and Dragging Equipment Detector with Radio Transmitted Verbal Defect Indicators	159
13.5 Dragging Equipment Detector Equipped With Radio Transmitted Verbal Defect Indicators - Talk On Defect Only	159
13.6 Wheel Impact Detector Equipped With Radio Transmitted Verbal Defect Indicators - Talk On Defect Only	159
13.7 Wheel Down Indicators	159
13.8 Detector Failures	159
13.8.1 Failed Detector Situation Table	160
13.8.2 Detector Failure - Action Table	161
Item 14 Operating With Foreign Railroads	163
Item 14-A UPRR Crews Operating Over Foreign Railroads	163
Item 14-B Foreign Railroads Operating on UPRR Tracks	163
Item 15 Work Orders	163
Item 16 Tornado Watch and Warning Instructions	166
Item 17 Accessing General Orders and Bulletins Electronically	167
Item 18 Distant Signals	167
Item 19 Block and Interlocking Signals	168

Item 20 Automatic Cab Signals	175
Item 21 Slide Warning Indicator	175
Item 22 Roadway Signs	176
Item 23 Security Alert Instructions	178
Item 24 California Proposition 65 Warning	179

# **Rule Updated Date**

April 1, 2020

## **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, mandatory directives, train consist speed restrictions, tons per operative brake restrictions, locomotive maximum speed, etc.

When operating on any foreign railroad:

- Comply with all restrictions listed in UPRR System Special Instructions Item 14.
- Comply with the foreign railroad's requirements that are more restrictive.

#### Rule Updated Date

May 10, 2019

# **ITEM 1: Time Comparison**

• <u>Item 1: Time Comparison</u>

# **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

# **ITEM 2: Speed Restrictions**

- Item 2-A: Maximum Speeds: General
- <u>Item 2-B: Maximum Speeds: Cars</u>
- 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) Key Trains - Crude Oil / Key Trains - High Hazard Flammable Train (Operating within a High Threat Urban	50 40
	Area)	
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 permanent main track speed at that location	30
	Other sidings and connected turnouts: not to exceed permanent 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, 4014, 6936, 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

	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 %	25
13	Military trains:	
	• Loaded	50
	• Empty	60
	<b>Exception</b> : Military train that exceeds 60 cars (Does not Apply to military trains consisting entirely of intermodal equipment.)	45
14	Movements over piston type (Dowty) retarders	6

#### **Rule Updated Date**

April 1, 2020

#### ^Top

# Item 2-B: Maximum Speeds: Cars

**A.** Use the train consist 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.

- **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 in Item 2-B 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.
  - 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	5(
	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	4:
	16 to 24 axles:	
	• Loaded	2:
	• Empty	4:
	36 axles:	
	• Loaded	1:
	• Empty	2:
6	TOFC or COFC flat cars or other intermodal equipment:	
	• Loaded	70
	• Empty	60
	Exceptions:	
	(a) Loaded multi-platform/unit/well cars	7:
	(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 513153-515761, 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:	1
	• 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	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 TM cars	70

# **Rule Updated Date**

# ^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.

Part	Description	MPH
1	Continuous welded or jointed rail trains:	1
	• 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
	<b>Exception:</b> 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 their own power or TRT 909	30
8	Hy-rail equipped Holmes, Pettibone, and similar type cranes, and 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
	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	t.		
Assigned	Consist Contains Equipment:	MPH		
Location				
Ogden	UP 905275, 905280, 908455	50		
Green	UP 903047, 909317, 906209, 904206, 904703	60		
River	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	MP 15427, 3646, 15082, 517, 2909, 4324, MPX 251	60		
Little Rock	MP 2155, 3160, 15090	50		
Roseville	SPMW 7113, 7184, 7185, 7071, 7055	45		
	SPMW 7072, 7077, 7078	35		

#### **Rule Updated Date**

May 10, 2019

#### ^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.

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

When operating with an Energy Management System, allow the system to operate as designed. When operating with a single

distributed power consist, located 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. Comply with specific train handling procedures when 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.	No Additional Restrictions		
Freight trains averaging 90 tons or more per car/platform/unit/well in signaled territory.	50		

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

#### **Rule Updated Date**

August 26, 2020

#### **General Order**

Effective Date: August 26, 2020

^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 below.

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

When operating with an Energy Management System, allow the system to operate as designed.

Maximum Speeds: Cold Weather			
	Restriction MPH		
Cold Weather Restrictions	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	

#### **Rule Updated Date**

May 10, 2019

^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 single well and/or multi-platform/unit/well trains with less than 5 conventional cars (do not count single unit well cars as 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 –Single Well and/or Multi-Platform/Unit/Well Trains with Less Than 5 Other Conventional Cars **		
ТРОВ	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			

<sup>\*\*</sup> Does not apply to trains operating with engaged PTC system.

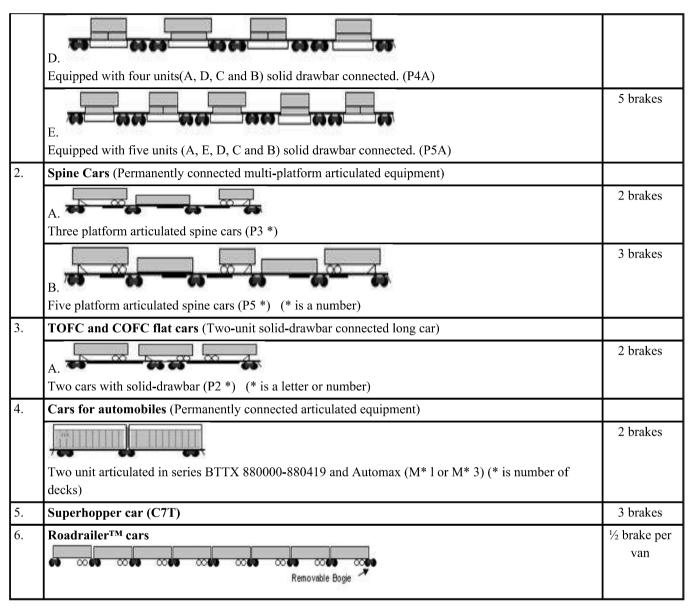
# Table B – All Other Freight Trains Including Single Well and/or Multi-Platform/Unit/Well Trains with 5 or More Other Conventional Cars

ТРОВ	Maximum Speed	ТРОВ	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 .

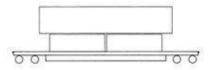
Type of Equipment (Car Code)		
Well cars (Permanently connected solid drawbar or articulated equipment)		
	3 brakes	
Equipped with five wells: (A, E, D, C and B) (Articulated Equipment) (P5A)		
B. A. C.	2 brakes	
Equipped with three wells (A, C and B) (3 Unit Articulated) (P3A)		
C	3 brakes	
Equipped with three units (A, C and B) solid drawbar connected (P3A)		
	4 brakes	



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:**

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



34 DTTX 54000 LP1A

TOFC NZ020

05-801-96 RAMP GLO2 IL UNION PAC

41-801-96 RAMP

70-MPH 80-TONS

70-FT 1-P

1.00-BRK 2273-ATONS 2283-AFT

SINGLE UNIT WELL CAR

1 DTTA 427102 LP1A

MOFU 55161 LK40

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

ICTF CA UNION PAC

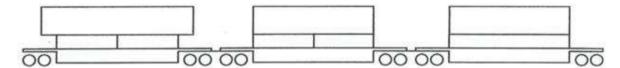
ICTF CA MITSUI OSK L

APHU 455705 LK50

MIXFRT NZ020

GLO2 IL APL LAN TRA

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



#### DTTX 427102 P3A SOLID DRAWBAR CONNECTED MULTI-WELL CAR

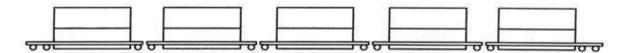
#### CONSISTS OF THE FOLLOWING 3 CARS

COFC JP017

MIXFRT JP017

	70-MPH 78-TONS	72-FT 1-P	3.00-BRK 78-ATON	S 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-ATO	NS 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-ATO	NS 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

# Intermodal Cars - Train Consist Articulated Multi-Well Car



#### DTTX 75292 LP5A ARTICULATED MULTI-WELL CAR

#### CONSISTS OF FOLLOWING 5 CARS

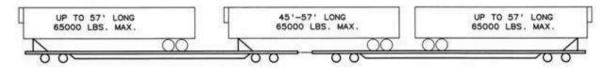
			or toler	o winte o er mes		
8	DTTA	75292 LP1A	COFC XG077	05-701-96 RAMP	MARION	AR UNION PAC
		75-MPH 61-TONS	62-FT 1-P	0.0-BRK 832-ATO	NS 1136-AF	Γ
		DO NOT HUMP				
	CSXU	683386 LK60	MIXFRT XG077		MARION	AR CSX INTERMOD
	EMHU	230112 LK70	MIXFRT XG077		MARION	AR LANDST LOGIS
9	DTTE	75292 LP1A	COFC XG077	05-701-96 RAMP	MARION	AR UNION PAC
		75-MPH 62-TONS	62-FT 1-P	0.0-BRK 894-ATO	NS 1198-AF	Γ
		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-ATO	NS 1260-AF	Γ
		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-ATC	NS 1322-AI	FT
		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-ATC	NS 1384-AI	FT
		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 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-ATON	IS 291-AFT	
		MULTI-PLATFORM SP	INE 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
	<b>SNLZ</b>	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

SNLZ441782 LV77MIXFRT RV185SPARKSNV SCHNEI NATIOSNLZ450448 LV77MIXFRT RV185SPARKSNV SCHNEI NATIOSNLZ508399 LV78AUTOPT RV185SPARKSNV SCHNEI NATIO

#### **Rule Updated Date**

October 23, 2019

#### ITEM 3: Trains Handling - Company Equipment

• Item 3: Trains Handling Company Equipment

#### Item 3: Trains Handling Company Equipment

#### 1. Rail Trains

#### A. Requirements for Movement of Rail Trains and Rail Train Equipment

Equipment for handling continuous-welded rail (CWR), or continuous lengths of bolted rail, consists of permanently-coupled flat cars. Cars are locked together with pins, and built with slack resistors and do not have any slack compared to a typical freight car. Good train handling techniques must be used to minimize in-train forces as Rail Train couplers are blocked against slack and are highly susceptible to damage from rough handling.

- 1. Rail Train and Rail Train Equipment **MUST NOT** be cut off in motion or struck by any car moving under its own momentum.
- 2. When combined with other M/W Equipment:
  - An empty rail train must be placed on the rear of a train.
  - A loaded rail train must be placed at the head end of the train.
- 3. Empty Rail Trains on Manifest Trains
  - Empty Rail Trains are to be placed on the rear of Manifest Trains.
  - When combining empty rail trains, no more than two (2) may be placed on the rear of a manifest train.
- 4. Loaded Rail Trains
  - Must be moved as a unit train and are not to be moved in manifest service.
  - No more than one (1) loaded rail train in consist.

#### Loaded Loram Rail Trains (LR1-50, LR2-50, LR3-50)

When operating either Loaded or Empty Loram Trains, do not handle on any territory with curvature exceeding 16 degrees.

#### B. Work Train Power Requirements for Unloading and Loading Rail Trains

- **1.** Must have two operative locomotives placed back to back regardless of subdivision or Tons Per Axle (TPA) requirements.
- **2.** TPA and fuel conservation requirements apply while en route.

#### **Exceptions:**

- When unloading and loading Rail Trains on subdivisions identified with territory code "L" or "H", the train must have three operative locomotives.
- During loading/unloading operations, additional locomotive(s) may be placed on line regardless of TPA requirements.

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

#### C.Buffer Cars

When rail train 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 M/W supervisor may authorize loaded equipment to be operated without a buffer to/from an unloading/loading site.

**Exceptions:** Contract Trains with bulkhead doors on each end to restrain rail do not require buffer cars, (LR1-50, LR2-50, LR3-50).

#### D. Bad-ordered and/or Separated Rail Train Equipment

If any rail train or support equipment is bad-ordered and/or separated from their mated car/s, the remainder of the rail train or support equipment MUST stay (as a unit) at that location until the repair is complete. Bad order rail train equipment must be reported to MWOC as soon as possible via email, MWOC-BO-RAIL@UP.com. Email notification should include car ID, station where car is located and contact information for responsible repair party.

#### E. Rail Train Equipment:

Rail Train	Trace Car
C-50	UP913718
D-50	UP913732
E-50	UP913491
F-50	MP6852
G-50	UP913672
H-40	SPMW9013
I-40	SPMW9052
J-40	SPMW9028
L-40	UP904534
M-54	UP904596
N-40	UP913523
P-40	UP904697
Q-40	RGAX4650
R-40	RGAX4688
S-40	SSW97003
T-40	SPMW5396
U-48	SPMW6678
W-50	UP904735

Rail Unloaders (2 cars per set)
UP913524 / UP913525
UP913526 / UP913527
UP913528 / UP913529
UP913530 / UP913531
MP6859 / MP6861
RGAX4691 / RGAX4693
SPMW6681 / SPMW6682
SPMW6683 / SPMW6684
SPMW6685 / SPMW6686
UP913532 / UP913533
UP913534 / UP913535
UP913536 / UP913537

Rail Pickup Units (6 cars per set)				
SPMW5401 / SPMW5397 / SPMW5403 / SPMW5398 / SPMW5399 / MP7510				

Rail Pickup Units (8 cars per set)			
MP6864 / MP6865 / MP6866 / MP6867 / MP6868 / MP7511 / MP7513 / UP904554			

#### 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.

#### 9. Unmanned Geometry Measurement System (UGMS) UP910701

- Do not kick or hump.
- Must be the head car in the train.

#### **Rule Updated Date**

April 1, 2020

#### **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.

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	10.1	7.9	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

<sup>\*</sup>May not be equipped with dynamic brakes.

#### Note: Traction motor cut out switches.

- DC locomotive traction motors must not be cut out to meet EPA or EDBA limitations. Traction motors may be cut out only when they are defective. Locomotives may be isolated/shut down to meet EPA or EDBA limitations.
- AC Locomotive traction motors 1, 2 & 3 may be cut out to meet EPA or EDBA 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	EDBA				
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; C44ACM; ES44AC** & ES44AH**	None	12.1	9.8				
When in a lead consist or in a remote							
consist operating in the Full Tractive							
Effort (FTE) mode	_						
When in a remote consist operating in		11.0*	9.8*				
the Controlled Tractive Effort (CTE)	1	11.0	8.0				

<sup>#</sup> May be equipped with standard range dynamic brakes.

<sup>\*\*</sup> UP 2100, 2156, 2157, 2159-2168, 2170-2214 have 6.0 EDBA.

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 ES44A	AH locomotives may not be CTE capable.		
AC L	ocomotives		
EMD Model	Truck	EPA	EDBA
	Cut Out		
SD70MAC	None	10.4	8.1
	#1	6.0	5.0
SD70ACe; SD70AH	None	12.0	10.5
*Operating in CTE mode.		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
	Total # of Traction Motor(s) Cut Out	EPA	EDBA
SD70AHT4	None	12.0	10.5
(UP 3000 - UP 3099)		11.0*	10.5*
	1	12.0	8.8
*Operating in CTE mode.	2	12.0	7.0
	3	9.0	5.2

#### 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**

June 1, 2018