



**UNION PACIFIC RAILROAD
2023 COMPLETE TE&Y Rules
Training Packet**

****** THIS WILL BE ALL YOU NEED TO PRINT ******

****** ALL DOCUMENTS REQUIRED FOR CLASS ARE IN THIS DOCUMENT ******

This document contains the following items and is required to answer the questions in the study guide:

- **2023 Training Paperwork**
 - **Track Bulletins**
 - **TWC Track Warrants**
 - **Subdivision General Orders**
- **2023 Training Timetable**
- **2023 Rules Training Study Guide**
- **2023 HazMat Study Guide**



UNION PACIFIC RAILROAD
2023 Training Paperwork

***** TO BE USED WITH 2023 STUDY GUIDE *****

This document contains the following items and is required to answer the questions in the study guide:

- **Track Bulletins**
- **Track Warrants**
- **Subdivision General Orders:**
 - o Orange Subdivision
 - o Rose Subdivision
 - o Sugar Subdivision
 - o Fiesta Subdivision
 - o Iowa Subdivision
- **Training Timetable**

TRACK CONDITION SUMMARY

NO: 6296

DATE: TODAY

FROM: SUNFLOWER

TO: LAWRENCE/CORVALLIS

TO: ALL TRAINS

ON: ORANGE (1975) FIESTA (1952) SUB.

04 TRACK BULLETINS IN EFFECT: 1836 3114 83 44629 8445

THIS TRACK CONDITION SUMMARY IS USED TO DELIVER TRACK BULLETINS ONLY
AND DOES NOT CONVEY AUTHORITY TO OCCUPY THE MAIN TRACK.

OK 0600 DISPATCHER RCB

PAGE 1 OF 3

NO: 6296 TO: ALL TRAINS

ORANGE (1975)
1836 3114 83

FORM C NO: 1836
COMPLY WITH PROCEDURE XH AT MP 237.81 ON ALL TRACKS

TODAY

FORM C NO: 3114 TODAY

EFFECTIVE 0000 HOURS (TODAY'S DATE) SIGNAL SYSTEM SUSPENDED ON THE ORANGE
SUBDIVISION BETWEEN CP W216 MP 216.0 AND CP W206 MP 205.6

TRAINS OPERATING PTC MUST STOP PRIOR TO PASSING FIRST SUSPENDED SIGNAL AND
PERFORM A SOFT CUT OUT BEFORE ENTERING THE SIGNAL SUSPENSION LIMITS.

FIRST SUSPENDED SIGNALS FOR MOVES ON TRACKS ARE AS FOLLOWS:

EASTWARD

MAIN TRACK CP W216 MP 216.0

WESTWARD

ALL TRACKS CP W206 MP 205.6

FIRST OPERATING SIGNALS FOR MOVES ON TRACKS ARE AS FOLLOWS:

EASTWARD

MAIN TRACK CP W206 MP 205.6

WESTWARD

ALL TRACKS CP W216 MP 216.0

WHEN LEAVING THE SIGNAL SUSPENSION LIMITS; BETWEEN THE LAST INOPERATIVE SIGNAL
AND PRIOR TO PASSING THE FIRST OPERATIVE SIGNAL, PTC EQUIPPED TRAINS MUST:

REDUCE TO 15 MPH OR LESS, CUT IN PTC, AND PERFORM A TRACK SELECTION. PTC WILL
TRANSITION TO ACTIVE STATE AFTER MOVING APPROXIMATELY 30 FEET AND IMMEDIATELY
ENFORCE RESTRICTED SPEED UNTIL TRAIN PASSES NEXT SIGNAL.

IF TRAIN CONSIST DISPLAYED BY THE PTC SYSTEM ON THE CONSIST PAGE IS INCORRECT,
ENGINEER MUST STOP IN ADVANCE OF THE FIRST OPERATIVE SIGNAL AND UPDATE TRAIN
CONSIST BEFORE CONTINUING.

BE GOVERNED BY GCOR RULES 9.23, 9.23.1, 18.1, 18.2, 18.4, 18.6, AND 18.7

MAXIMUM SPEED PER TIMETABLE AND GENERAL ORDER INSTRUCTIONS NOT TO EXCEED 59 MPH
FOR PASSENGER TRAINS AND 49 MPH ON ALL OTHER TRAINS.

ALL TRAINS MUST STOP BEFORE ENTERING THESE LIMITS UNLESS AUTHORIZED TO PROCEED
BY EMPLOYEE IN CHARGE. NO FOLLOWING MOVEMENT ON THE SAME TRACK WILL BE PERMITTED
TO ENTER THESE LIMITS UNTIL A PRECEDING MOVEMENT HAS CLEARED THE LIMITS OR
PASSED A FLAGMAN LOCATED AT THE NEXT INTERMEDIATE POINT. FLAG PROTECTION AGAINST
FOLLOWING TRAINS ON THE SAME TRACK IS NOT REQUIRED.

FLAGMAN SWITCH TENDER LOCATED AT CP W216 MP 216.0, CP W213 MP 213.2, AND CP
W206 MP 205.6 ON THE ORANGE SUBDIVISION.

ALL TRAINS MUST STOP SHORT OF FLAGMEN UNLESS AUTHORIZED TO PROCEED.

OK TIME: 00:00 P TODAY DISPATCHER: RCB

FORM C NO: 83
COMPLY WITH PROCEDURE XG AT MP 174.50 ON ALL TRACKS

TODAY

NO: 6296 TO: ALL TRAINS

FIESTA (1952)
44629 8445

LINE	LIMITS		FLAG	FOR
NO	FROM MP TO MP	TRACK	AT MP	DIR

***** FORM B NO: 44629 *****

ON TODAY BE GOVERNED BY RULE 15.2 WITHIN THE FOLLOWING LIMITS:

1. 384.00 382.00 ALL
FROM: 00:01 P TODAY UNTIL: 23:59 P TODAY
GANG NO: 8470 FOREMAN: SMITH

FORM C NO: 8445 TODAY
SIDING TRACK IS OUT OF SERVICE BETWEEN
CP M362 AND CP M360
BE GOVERNED BY GCOR RULE 15.4 USE ONLY AS AUTHORIZED BY MTM (909 235-5000)

PAGE 3 OF 3

SAFETY BULLETINS

RADIO SPEED RESTRICTIONS AND OTHER CONDITIONS DELIVERED ENROUTE

SUBDIVISION _____

FROM MP _____ TO MP _____ DO NOT EXCEED _____ MPH

(ON _____ TRK)

_____ NO FLAGS DISPLAYED
_____ FLAGS DISPLAYED AT MP _____ FOR _____ TRAINS

OK _____ DISPR _____

=====

SUBDIVISION _____

FROM MP _____ TO MP _____ DO NOT EXCEED _____ MPH

(ON _____ TRK)

_____ NO FLAGS DISPLAYED
_____ FLAGS DISPLAYED AT MP _____ FOR _____ TRAINS

OK _____ DISPR _____

=====

SUBDIVISION _____

FROM MP _____ TO MP _____ DO NOT EXCEED _____ MPH

(ON _____ TRK)

_____ NO FLAGS DISPLAYED
_____ FLAGS DISPLAYED AT MP _____ FOR _____ TRAINS

OK _____ DISPR _____

GRADE CROSSING PROTECTION _____ SUBDIVISION

COMPLY WITH PROCEDURE _____ AT MP _____

OK _____ DISPR _____

=====

GRADE CROSSING PROTECTION _____ SUBDIVISION

COMPLY WITH PROCEDURE _____ AT MP _____

OK _____ DISPR _____

RADIO SPEED RESTRICTIONS AND OTHER CONDITIONS DELIVERED ENROUTE

=====

FLASH FLOOD WARNING _____ SUBDIVISION _____

COMPLY WITH PROCEDURE FF BTWEEN MP _____ AND MP _____

OK _____ DISPR _____

=====

FLASH FLOOD WARNING _____ SUBDIVISION _____

COMPLY WITH PROCEDURE FF BTWEEN MP _____ AND MP _____

OK _____ DISPR _____

=====

ABSOLUTE BLOCK IS ESTABLISHED IN ADVANCE OF

(TRAIN ID) _____ (DIR) _____

YOUR TRAIN BETWEEN _____ AND _____ GCOR RULE 11.2 GOVERNS

TRACK BREACH PROTECTION ESTABLISHED FOR (ENG) _____

(EMPLOYEE) _____ BETWEEN _____ AND _____ ON

_____ TRACK AT (TIME) _____ DELETED AT _____

=====

WHEN AUTHORIZED TO PASS STOP INDICATION:

"AFTER STOPPING, _____ AT _____ HAS AUTHORITY TO PASS SIGNAL

(TRAIN ID) (LOCATION)

DISPLAYING STOP INDICATION (_____) ."

(ADD ROUTE & DIRECTION IF NECESSARY)

WHEN AUTHORIZED TO ENTER CTC:

" _____ AT _____ HAS AUTHORITY TO ENTER _____

(TRAIN ID) (LOCATION) (TRACK)

AND PROCEED _____ ."

(DIRECTION)

WHEN CLEARED TO ENTER FORM B LIMITS: FOREMAN _____

GANG _____ USING (1/2) FORM B TRK BULLETIN(S) ON _____ (DATE) .

TRK BULLETIN# _____ LINE#(S) _____ TRK#(S) _____ ON _____ SUB

TRK BULLETIN# _____ LINE#(S) _____ TRK#(S) _____ ON _____ SUB

BETWEEN MP _____ AND MP _____ . (TRAIN ID) MAY PASS RED FLAG AT

MP _____ WITHOUT STOPPING. (TRAIN ID) MAY PROCEED THROUGH THE LIMITS

AT _____ MPH (OR MAX AUTHORIZED SPEED), WITH THE FOLLOWING EXCEPTION:

BETWEEN MP _____ AND MP _____ DO NOT EXCEED _____ MPH, SOUNDING

WHISTLE AND BELL WHEN APPROACHING AND PASSING MEN OR EQUIPMENT.

.....UPRR TRAIN AND LOCOMOTIVE SECUREMENT CHECKLIST.....

USED IN COMPLIANCE W/ UPRR ABTH CH 32 & SSI ITEM 10-L TO AID CREW MEMBERS WHEN SECURING TRAINS W/ LOCOMOTIVE ATTACHED. UPON COMPLETION, BOTH CONDUCTOR & ENGINEER MUST SIGN CHECKLIST. UNLESS OTHERWISE INSTRUCTED, LEAVE THE COMPLETED FORM IN THE LOCOMOTIVE INSPECTION REPORT CARD HOLDER

SECUREMENT PROCEDURES (RULE 32.1.1)

- ☐ 1. PRIMARY PROCEDURE (APPLY HANDBRAKES AND RELEASE ALL AIR BRAKES)
 - ☐ 2. SECONDARY PROCEDURE (SECUREMENT CHART)
- LOCOMOTIVE SECUREMENT (RULE 32.2.1)
- ☐ 1. THROTTLE IS IN IDLE AND REVERSER REMOVED
 - ☐ 2. GENERATOR FIELD SWITCH OFF
 - ☐ 3. APPLY ALL HANDBRAKES ON LEAD CONSIST. RELEASE LOCOMOTIVE BRAKES TO DETERMINE HANDBRAKES PREVENT MOVEMENT. REAPPLY LOCOMOTIVE BRAKES
 - ☐ 4. INDEPENDENT BRAKE IS CUT IN AND FULLY APPLIED
 - ☐ 5. AUTOMATIC BRAKE IS CUT IN AND APPLIED WITH A 20 PSI BRAKE PIPE REDUCTION
 - ☐ 6. ENGINE CONTROL SWITCH IS IN THE ISOLATE POSITION ON ALL UNITS IN THE LEAD CONSIST
 - ☐ 7. TRAILING LOCOMOTIVES ARE SHUT DOWN IF REQUIRED AND DOORS AND WINDOWS ARE CLOSED
 - ☐ 8. DOORS AND WINDOWS LOCKED ON LEAD LOCOMOTIVE IF CAPABLE

OTHER INFORMATION:

- ☐ 1. HAND BRAKES ARE APPLIED ON _____ HEAD CARS AND/OR _____ REAR CARS
 - ☐ 2. TRAIN CUT FOR _____ HIGHWAY CROSSINGS
 - ☐ 3. TRAIN IS CLEAR OF CROSSINGS AS REQUIRED BY 6.32.4.
 - ☐ 4. DISPATCHER, YARDMASTER, OTHER AUTHORITY NOTIFIED TRAIN IS SECURE
- KEY TRAIN SECUREMENT ON A MAIN TRACK OR SIDING (SSI ITEM 10-L)
INFORM DISPATCHER THAT TRAIN IS SECURE IN FOLLOWING MANNER:

"TRAIN _____ (TRAIN ID) IS SECURED USING _____ (PRIMARY/SECONDARY/BOTH) SECUREMENT PROCEDURE(S) AT _____ (LOCATION) WITH _____ (#) HAND BRAKES APPLIED ON THE _____ (HEAD/REAR/BOTH) END(S). THE WEIGHT OF THE TRAIN IS _____ TONS AND IS _____ FEET LONG. THE TRAIN IS ON _____ % (LEVEL/ASCENDING/DESCENDING) GRADE AND IS _____ (CUT/IN ONE PIECE) ON _____ (STRAIGHT/CURVED) TRACK. THERE ARE _____ (#) CROSSINGS CUT. THE TRAIN IS _____ (INTERMODAL/MANIFEST/UNIT/LOCAL). THE CURRENT WEATHER IS _____ (CLEAR/CLOUDY/RAIN/FOG/SLEET/SNOW)." (IF UNABLE TO LOCK THE DOORS OF THE CONTROLLING LOCOMOTIVE, REMOVE THE REVERSER AND TAKE IT WITH YOU.)

(ENGINEER EID/INITIALS)

(CONDUCTOR EID/INITIALS)

TRAIN ID _____ DATE _____ TIME _____ LOCATION _____

TRACK AUTHORITY FORM – TE&Y

FORM 20705

(circle one)

Track Warrant

Track & Time

Track Permit

Number: **86-75**

Date: **TODAY'S DATE**

To: **LOCAL**

At: **IOWA**

1. ☐ Track warrant _____ is void
2. ☐ Not in effect until after the arrival of _____, _____, _____ at _____
3. ☒ Proceed from **CP W204** to **MP 180.5** on **MAIN** track **ORANGE** 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 **WACO** and **AMES**

(NOTE: Trains must move at restricted speed within joint authority limits)

10. ☒ Joint with **SMITH** between **WACO** and **AMES**
Joint with _____ between _____ and _____
Joint with _____ between _____ and _____

11. ☐

From	To	Speed	Track	Flags At

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

3 Box(es) marked: **3**, **9**, **10**, _____, _____, _____, _____, _____, _____

OK at **0900** Dispatcher **RCB** Relayed to _____ Copied by **CREW MEMBER**

Clear of _____ at _____ Disp _____ by _____
Clear of _____ at _____ Disp _____ by _____
Clear of _____ at _____ Disp _____ by _____

Limits reported clear at _____ by _____

TRACK AUTHORITY FORM – TE&Y

FORM 20705

(circle one)

Track Warrant

Track & Time

Track Permit

Number: **51-50**

Date: **TODAY'S DATE**

To: **LOCAL**

At: **BEDLAM**

1. ☒ Track warrant **86-75** is void
2. ☐ Not in effect until after the arrival of _____ at _____
3. ☒ Proceed from **MP 175.0** to **RED RIVER** on **MAIN** track **ORANGE** 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. ☐

From	To	Speed	Track	Flags At

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

3 Box(es) marked: **1**, **3**, **5**, _____, _____, _____, _____, _____

OK at **1000** Dispatcher **RCB** Relayed to _____ Copied by **CREW MEMBER**

Clear of _____ at _____ Disp _____ by _____
Clear of _____ at _____ Disp _____ by _____
Clear of _____ at _____ Disp _____ by _____

Limits reported clear at _____ by _____

TRACK AUTHORITY FORM – TE&Y

FORM 20705

(circle one)

Track Warrant

Track & Time

Track Permit

Number: **63-28**

Date: **TODAY'S DATE**

To: **LOCAL**

At: **RED RIVER**

1. ☒ Track warrant **51-50** is void
2. ☒ Not in effect until after the arrival of **UP 5309 WEST**, _____, _____ at **RED RIVER**
3. ☒ Proceed from **RED RIVER** to **MORGANTOWN** on **MAIN** track **ORANGE** 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. ☐

From	To	Speed	Track	Flags At

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

Cars secured on siding track at Morgantown

5 Box(es) marked: **1**, **2**, **3**, **5**, **12**, _____, _____, _____, _____

OK at **1100** Dispatcher **RCB** Relayed to _____ Copied by **CREW MEMBER**

Clear of _____ at _____ Disp _____ by _____
Clear of _____ at _____ Disp _____ by _____
Clear of _____ at _____ Disp _____ by _____

Limits reported clear at _____ by _____

TRACK AUTHORITY FORM – TE&Y

FORM 20705

(circle one)

Track Warrant

Track & Time

Track Permit

Number: **10-68**

Date: **TODAY'S DATE**

To: **LOCAL**

At: **MORGANTOWN**

1. ☒ Track warrant **63-28** is void
2. ☐ Not in effect until after the arrival of _____, _____, _____ at _____
3. ☒ Proceed from **MORGANTOWN** to **MP 175.0** on **MAIN** track **ORANGE** 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. ☐

From	To	Speed	Track	Flags At

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

2 Box(es) marked: **1**, **3**, _____, _____, _____, _____, _____, _____, _____

OK at **1300** Dispatcher **RCB** Relayed to _____ Copied by **CREW MEMBER**

Clear of _____ at _____ Disp _____ by _____
Clear of _____ at _____ Disp _____ by _____
Clear of _____ at _____ Disp _____ by _____

Limits reported clear at _____ by _____

UPRR TRAINING Area Timetable No. 7
Effective December 06, 2022
ORANGE Subdivision General Order No. 2

PURPOSE:

SI-00: Change Station page; CP W213 at MP 213.2 placed in service;
CP W215 at MP 214.8 removed from service; Change siding capacity at Texas
to read 14,500 feet.

SI-01: Add additional PTC Limits; Add Electronic Conveyance limits.

Recent Changes:

Training Area Timetable #7 in effect at 0900C on December 06, 2022.

Subdivision instructions not modified by this General Order remain in effect.

EFFECTIVE: 0900C, December 26, 2022

CANCELLATIONS:

This order cancels all previous orders for the ORANGE Subdivision.

SI-00 STATION MILES

Effective 1100C on December 27, 2022:

Change Station page at Texas to read:

213.2	CTC	W213	TEXAS	! RR215	14500
216.0		W216	(10.8)		

SI-01 MAIN TRACK AUTHORITY

Effective 1100C on December 27, 2022:

Change part to read:

PTC between:

CP W053 and CP W143;

CP W204 and CP W238.

Add:

EC between:

CP W143 and CP W204.

SIGNATURE: J. DOE

SIGNATURE TITLE: GENERAL MANAGER

UPRR TRAINING Area Timetable No. 7
Effective December 06, 2022
ROSE Subdivision General Order No. 1

PURPOSE:

Training Area Timetable #7 in effect at 0900C on December 06, 2022.
Subdivision instructions not modified by this General Order remain in effect.

EFFECTIVE: 0900C, December 06, 2022

CANCELLATIONS:

This order cancels all previous orders for the ROSE Subdivision.

SIGNATURE: J. DOE

SIGNATURE TITLE: GENERAL MANAGER

UPRR TRAINING Area Timetable No. 7
Effective December 06, 2022
SUGAR Subdivision General Order No. 1

PURPOSE:

Training Area Timetable #7 in effect at 0900C on December 06, 2022.
Subdivision instructions not modified by this General Order remain in effect.
EFFECTIVE: 0900C, December 06, 2022

CANCELLATIONS:

This order cancels all previous orders for the SUGAR Subdivision.

SIGNATURE: J. DOE

SIGNATURE TITLE: GENERAL MANAGER

UPRR TRAINING Area Timetable No. 7
Effective December 06, 2022
FIESTA Subdivision General Order No. 2

PURPOSE:

SI-01: Add PTC Limits.

SI-07: Change Detector Table; % detector at MP 377.8 placed in service.

Recent Changes:

Training Area Timetable #7 in effect at 0900C on December 06, 2022.

Subdivision instructions not modified by this General Order remain in effect.

EFFECTIVE: 0900C, December 26, 2022

CANCELLATIONS:

This order cancels all previous orders for the FIESTA Subdivision.

SI-01 MAIN TRACK AUTHORITY

Effective 1100C on December 27, 2022:

Add:

PTC between:

CP W142 and CP M321.

SI-07 ITEM 13 TRAIN DEFECT DETECTORS:

Add:

% 377.8

SIGNATURE: J. DOE

SIGNATURE TITLE: GENERAL MANAGER

UPRR TRAINING Area Timetable No. 7
Effective December 06, 2022
IOWA Subdivision General Order No. 1

PURPOSE:

Training Area Timetable #7 in effect at 0900C on December 06, 2022.

Subdivision instructions not modified by this General Order remain in effect.

EFFECTIVE: 0900C, December 06, 2022

CANCELLATIONS:

This order cancels all previous orders for the IOWA Subdivision.

SIGNATURE: J. DOE

SIGNATURE TITLE: GENERAL MANAGER



UPRR TRAINING AREA TIMETABLE #7









Effective 0900C Tuesday, December 06, 2022

E. J. Gehringer, Executive Vice President - Operations
D. Torres, Senior Vice President - Northern Region
D. M. Giandinoto, Senior Vice President - Southern Region
J. W. Turner, Senior Vice President - HDC & Network Planning
S. K. Keller, Senior Vice President - Mechanical & Engineering
C. S. Roseberry, Assistant Vice President - Chief Safety Officer

This document supersedes:

Union Pacific Railroad Training Timetable 6 effective Dec 01, 2020

EXPLANATION OF CHARACTERS

Symbol Represents:		Symbol Represents:	
123.4	MILE POST FOR SUB LIMITS ARE IN BOLD AND ITALICIZED	(R)	REDUCE / RESUME SPEED SIGNS AT OTHER THAN PRESCRIBED LOCATION
ABS	AUTOMATIC BLOCK SIGNAL	(#)	HOT BOX AND DRAGGING EQUIPMENT DETECTOR WITH RADIO TRANSMITTED VERBAL INDICATOR
ACS	AUTOMATIC CAB SIGNAL	#	HOT BOX DETECTOR WITH RADIO TRANSMITTED VERBAL INDICATOR
ATC	AUTOMATIC TRAIN CONTROL	(!)	HOT BOX, HIGH WIDE SHIFTED LOAD AND DRAGGING EQUIPMENT DETECTOR WITH RADIO TRANSMITTED DEFECT INDICATOR
CTC	CENTRALIZED TRAFFIC CONTROL	@	HOT BOX AND DRAGGING EQUIPMENT DETECTOR WITH RADIO TRANSMITTED VERBAL INDICATOR - TALK ON DEFECT ONLY WITH HOLD OR STOP SIGNALS
EC	ELECTRONIC CONVEYANCE	\$	HOT BOX DETECTOR WITH RADIO TRANSMITTED VERBAL INDICATOR - TALK ON DEFECT ONLY
PTC	POSITIVE TRAIN CONTROL	&	HIGH WIDE SHIFTED LOAD AND DRAGGING EQUIPMENT DETECTOR WITH RADIO TRANSMITTED VERBAL INDICATOR
RL	RESTRICTED LIMITS	(&)	HIGH WIDE SHIFTED LOAD AND DRAGGING EQUIPMENT DETECTOR WITH RADIO TRANSMITTED VERBAL INDICATOR - TALK ON DEFECT ONLY
TWC	TRACK WARRANT CONTROL	%	DRAGGING EQUIPMENT DETECTOR WITH RADIO TRANSMITTED VERBAL INDICATOR - TALK ON DEFECT ONLY
DT	DOUBLE TRACK	(@)	WHEEL IMPACT DETECTOR WITH RADIO TRANSMITTED VERBAL DEFECT INDICATOR - TALK ON DEFECT ONLY
#MT	MULTIPLE MAIN TRACK - #(number MT's)	(*)	WHEEL DOWN INDICATOR EQUIPPED WITH RADIO TRANSMITTED VERBAL INDICATOR - TALK ON DEFECT ONLY
!	SIDING WITH ENTERING SIGNAL ALLOWING ASPECT MORE FAVORABLE THAN LUNAR	H	DETECTORS EQUIPPED WITH HOT WHEEL DETECTOR - REMOTE READOUT ON DEFECT ONLY
(A)	AUTOMATIC INTERLOCKING	+	DETECTORS EQUIPPED WITH RADIO TRANSMITTED TALK ON ARRIVAL AND DEFECT ONLY FEATURE
B	BASE RADIO STATION	TRACK DIAGRAM COLOR CODES	
D	DRAW BRIDGE	 CTC	 ABS
(G)	GATE-NORMAL POSITION AGAINST CONFLICTING ROUTE	 TWC	
G	GATE-NORMAL POSITION AGAINST THIS SUBDIVISION	 ATC	 ACS
(M)	MANUAL INTERLOCKING	 9.14 / 9.15	 9.14.2
(S)	STOP SIGN	 YL / RL / NON-SIGNALLED	
T	TURNING FACILITY		
(X)	RAILROAD CROSSING AT GRADE		
X	CROSSOVER BETWEEN MAIN TRACKS WITH DUAL CONTROL SWITCHES		
Y	YARD LIMITS		
(Z)	MANUAL INTERLOCKING WITH A RELEASE BOX AND A M/W KEY RELEASE, IF EQUIPPED		
(11-2)	SPECIAL INSTRUCTIONS ITEM 11 - 2 SWITCH MACHINES		
(11-3)	SPECIAL INSTRUCTIONS ITEM 11 - 3 SWITCH MACHINES		
C	CENTER		
+	HEAD - END RESTRICTION ONLY		
TRACK DIRECTION CODES			
N	NORTHWARD		
S	SOUTHWARD		
E	EASTWARD		
W	WESTWARD		

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

Operating Practices

David P. O'Hara, General Director - Operating Practices - Ph - 402-544-1844
Kevin D. Andersen, Sr. Director - Safety Field Operations (COMMIT) - Ph - 402-544-6043
Jason C. Taullie, Director - Operating Practices & Rules - Ph - 402-544-4931
Taylor J. Weisbeck, Sr. Director - Operating Practices & System Compliance - Ph - 402-544-4620
Operating Practices Command Center (OPCC) - Ph - 402-544-6722
(To contact OPCC via radio, dial code 984) (Contact OPCC via email: opcc@up.com)

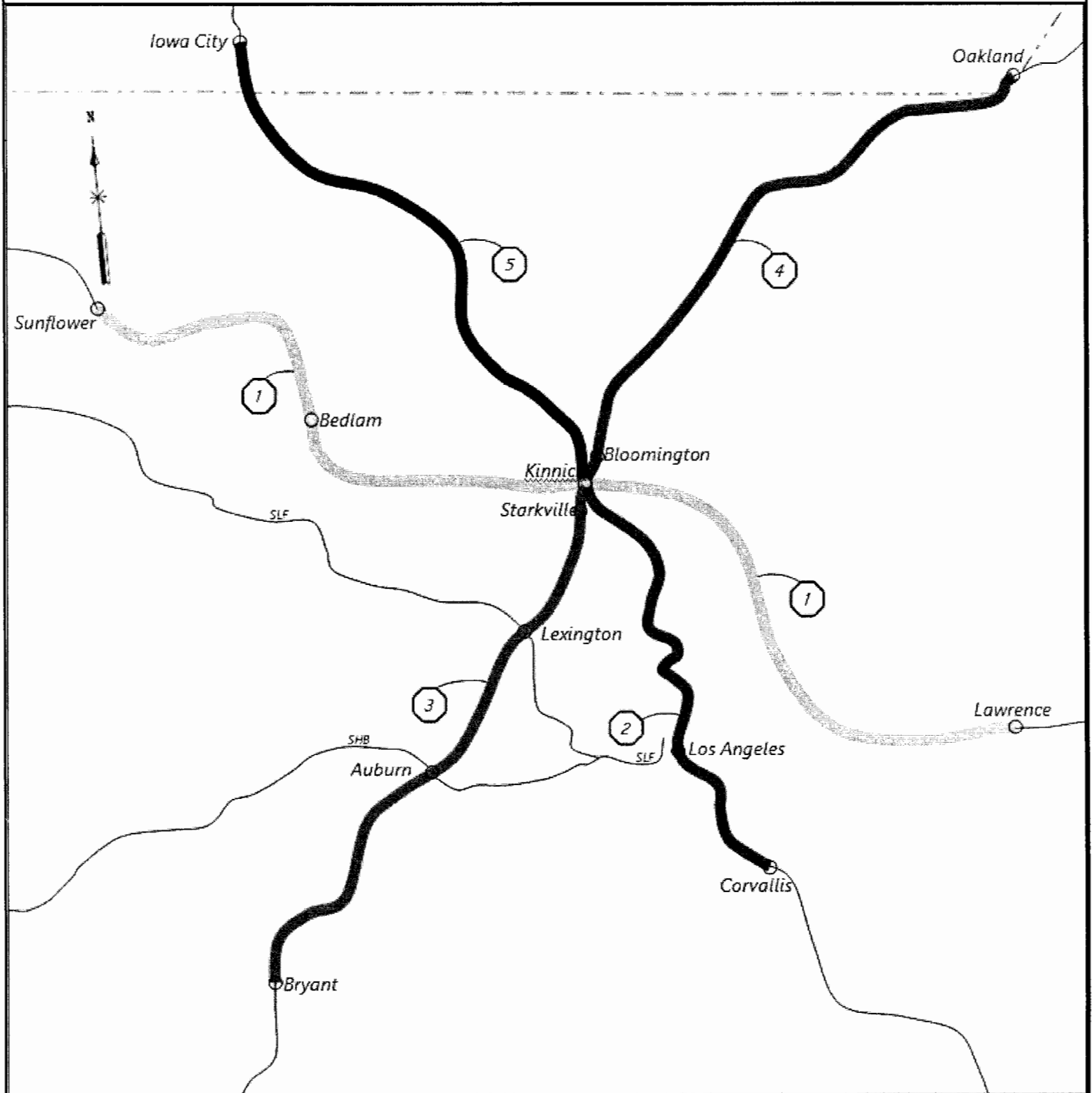
Rules Manager	Phone Number	Timetable Area
Robbie Goldman	801-212-3815	Chicago - Council Bluffs - Denver - Iowa - Kansas City - North Platte - Portland - Salt Lake City - St. Louis - Twin Cities
Rob Hunter	909-685-2826	Dallas/Ft. Worth - Houston - Livonia - Los Angeles - North Little Rock - Roseville - Salina - San Antonio - Sunset

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



Building America
UPRR TRAINING AREA
TIMETABLE #7

Effective 0900C Tuesday, December 6th, 2022



- 1. ORANGE.....(1975)
- 2. FIESTA.....(1952)
- 3. SUGAR..... (1954)
- 4. IOWA..... (2022)
- 5. ROSE..... (1976)

TRAINING AREA

SUBDIVISION / Industrial Lead / Maps:	PAGE
FIESTA (1952).....	9
Gainesville Industrial Lead (0801).....	5
Hunter Industrial Lead (1961).....	9
IOWA (2022).....	11
ORANGE (1975).....	2
ROSE (1976).....	7
Sessums Industrial Lead (1710).....	3
SUGAR (1954).....	5

TRAINING AREA

Station Name	Circ7 #	Subdivision	Page #	Station Name	Circ7 #	Subdivision	Page #
ADAIR		IOWA	10	PANORA		IOWA	8
AMES	RR185	ORANGE	2	PULLMAN	CT337	FIESTA	8
ANN ARBOR		ROSE	6	RED RIVER	RR161	ORANGE	2
ATHENS	SG328	SUGAR	4	SALT LAKE CITY	CT339	FIESTA	8
AUBURN		SUGAR	4	SEATTLE	CT369	FIESTA	8
AUSTIN	RR126	ORANGE	2	SOUTH LOS ANGELES		FIESTA	8
BATON ROUGE	SG250	SUGAR	4	STANFORD (HOLD)		FIESTA	8
BEDLAM	RR178	ORANGE	2	STARKVILLE	SG344	SUGAR	4
BERKELEY		FIESTA	8	STILLWATER	RR115	ORANGE	2
BLOOMINGTON	IA353	ROSE	6	STUART	AF403	IOWA	10
BOULDER		FIESTA	8	SUNFLOWER	RR235	ORANGE	2
BRYANT	SG244	SUGAR	4	TEMPE	CT352	FIESTA	8
CASEY	AF416	IOWA	10	TEXAS	RR215	ORANGE	2
CHAMPAIGN	IA374	ROSE	6	TUCSON	CT386	FIESTA	8
COLLEGE STATION	RR254	SUGAR	4	TUSCALOOSA	SG290	SUGAR	4
COLUMBIA	SG311	SUGAR	4	URBANDALE	AF359	IOWA	10
COLUMBUS	IA416	ROSE	6	WACO	RR193	ORANGE	2
CORVALLIS	CT321	FIESTA	8	WEST LAFAYETTE	IA359	ROSE	6
DALLAS CENTER	AF374	IOWA	10	WEST SUNFLOWER HOLD	RR238	ORANGE	2
EAST LANSING		ROSE	6	WESTWOOD	CT361	FIESTA	8
EUGENE	CT377	FIESTA	8				
EVANSTON	IA384	ROSE	6				
FARMAGEDDON		ORANGE	2				
FAYETTEVILLE	SG270	SUGAR	4				
FORT WORTH	RR171	ORANGE	2				
GAINESVILLE	SG341	SUGAR	4				
GRIMES	AF367	IOWA	10				
IOWA	RR205	ORANGE	2				
IOWA CITY	IA431	ROSE	6				
IRVING	RR225	ORANGE	2				
KANSAS	RR096	ORANGE	2				
KINNICK	RR143	FIESTA	8				
KINNICK	RR143	IOWA	10				
KINNICK	RR143	ORANGE	2				
KINNICK	RR143	ROSE	6				
KINNICK	RR143	SUGAR	4				
KNOXVILLE	SG297	SUGAR	4				
LAWRENCE		ORANGE	2				
LE CLAIRE	AF353	IOWA	10				
LEXINGTON		SUGAR	4				
LINCOLN	IA367	ROSE	6				
LINDEN	AF384	IOWA	10				
LOS ANGELES		FIESTA	8				
LUBBOCK	RR081	ORANGE	2				
MADISON (Trk. 1)	IA403	ROSE	6				
MANHATTAN	RR137	ORANGE	2				
MENLO		IOWA	10				
MINNEAPOLIS		ROSE	6				
MORGANTOWN	RR148	ORANGE	2				
NASHVILLE	SG346	SUGAR	4				
NORMAN	RR061	ORANGE	2				
NORTH CORVALLIS		FIESTA	8				
NORTH LOS ANGELES	CT345	FIESTA	8				
OAKLAND	AF431	IOWA	10				
OKLAHOMA	RR108	ORANGE	2				
OXFORD	SG262	SUGAR	4				

ORANGE SUBDIVISION (1975)

		Radio Display:					
		Lawrence and West Sunflower: 027-027- *11					
Mile Post	Track Layout	Rule 6.3	CP #’s	WEST Stations/Control Points	EAST X(11-2)	Sta. #’s	Siding Feet
52.8		CTC 2MT	W053	LAWRENCE (7.3)	X(11-2)		
60.1			W060	NORMAN (14.7)	!	RR061	N11240
62.3			W062				S11235
74.8		CTC	W075	FARMAGEDDON (6.1)	(11-3)		
80.9			W081	LUBBOCK (14.4)		RR081	5230
82.1			W082				
95.3			W095	KANSAS (11.7)	!	RR096	8028
97.0			W097				
107.0			W107	OKLAHOMA (7.1)	!	RR108	8020
108.3			W108				
114.1			W114	STILLWATER (11.7)	!	RR115	8820
115.9			W116				
125.8			W126	AUSTIN (10.2)	!	RR126	8027
127.1		W127					
136.0	W136	MANHATTAN (6.6)	!	RR137	10410		
138.1	W138						
142.6	W142	KINNICK (X)UPRR(M)T		RR143			
143.0	W143	(4.4)					
147.7		TWC ABS	W148	MORGANTOWN (12.6)	(M)!	RR148	9715
149.6			W150				
159.8		TWC		RED RIVER (9.9)		RR161	8345
161.4							
170.4				FORT WORTH (7.4)		RR171	5994
171.6							
177.1		YL ABS		BEDLAM (7.1)	B	RR178	YARD
179.4							
184.2		TWC		AMES (8.4)		RR185	9580
186.1							
192.6	ABS			WACO (11.7)		RR193	9630
194.5							
204.3	CTC	W204	IOWA (10.5)		RR205	5965	
205.6		W206					
214.8		W215	TEXAS (9.2)		RR215	6114	
216.0		W216					
224.0		W224	IRVING (10.2)	!	RR225	9037	
225.9	W226						
234.2		W234	SUNFLOWER (3.6)	T	RR235	YARD	
236.0		W236					
237.8		W238	WEST SUNFLOWER (HOLD)		RR238		
(185.0)							
SI-01 MAIN TRACK AUTHORITY							
CTC between:							
CP W053 and CP W143;							
CP W204 and CP W238.							
TWC between:							
CP W143 and MP 175.0;							
MP 180.5 and CP W204.							
ABS between:							
CP W148 and CP W150;							
MP 175.0 and CP W204.							
YL between:							
MP 175.0 and MP 180.5.							
PTC between:							
CP W204 and CP W238.							

SI-02 MAXIMUM SPEED TABLE		
Maximum Speed		MPH
Between Mileposts		FRT
52.8 and 237.8		
(Except as Below)		70
142.6 and 143.0		40
143.0 and 176.0		49
176.0 and 180.5		40
180.5 and 204.3		60
234.2 and 236.0		40

SI-03 OTHER SPEED RESTRICTIONS		MPH
1. Thru Sidings & Turnouts.		
Lubbock		15
Oklahoma, Austin,		
Ames, Waco		20
2. Dual Control Switch Turnouts.		
CP W053, W075		40
3. Misc. Speed Restrictions.		
Kinnick - All Turnouts and		
Wye Tracks		20
4. Key Trains: Crude Oil/High Hazard Flammable		
Between Mileposts		
MP 212.2 and MP 237.8		40

SI-04 MAIN TRACK DESIGNATIONS
2MT between: CP W053 and CP W075.

SI-05 MILEPOST EQUATIONS - None.

SI-06 RCL OPERATIONS		
RCL Area: Bedlam Yard		
Zone Status: Trains entering the Bedlam yard must contact the yardmaster for zone status before entering.		
Zone W: RCL Zone on the west end of the South Bedlam Yard begins at the clearance point of the west end of track #5, and extends west on the west switching lead to the end of the West Drill track.		
Zone E: RCL Zone on the east end of the South Bedlam Yard begins at the clearance point of the east end of track #5, and extends east on the east switching lead to the end of the East Drill track.		

SI-07 ITEM 13 TRAIN DEFECT DETECTORS		
(#)H+ 65.4	% 155.0	(#)H+ 198.0
% 77.1	(#) 158.1	% 209.6
(#)H+ 90.3	(#) 167.7	(#)H+ 220.2
(#)H+ 117.8	(#)H+ 171.7	(#)H+ 230.4
(#) + 131.7	(#)H 175.9	
(#)H+ 145.0	(#)H 182.2	

ORANGE SUBDIVISION (1975)

3

SI-08 RULES ITEMS

Rule 8.19.1: Radio controlled switch and derail installed on each end of Red River Siding, MP 159.8 and MP 161.4. Normal position will be for main to main movement. Reverse position will be for entering/departing siding. Switch control signs are located 11,000 feet from "Begin OS" signs on main track for eastward movements and 11,800 feet for westward movements. Switch control signs are located 6,600 from "Begin OS" sign on siding for eastward movements and 5,000 feet for westward movements.

Location	Normal	Reverse	Radio
MP 159.8	1327666	1327677	027-027
MP 161.4	1307466	1307477	027-027

Rule 9.15: In effect on siding Morgantown. MofW On-Track equipment must obtain a track permit to occupy this siding. A track permit will be issued to a train only when operating conditions require siding to be jointly occupied by a train and men or equipment

13.1.4 ACS Test Loops: Sunflower Yard: Located on Main Track westward MP 233.8 to MP 234.6.

Rule 32.1: Sunflower Yard Receiving Tracks:

Four handbrakes required on east end of all receiving yard tracks.

Bedlam Yard Departure Tracks: Three handbrakes minimum required on east end of all departure yard tracks.

SI-09 FRA EXCEPTED TRACKS

Bedlam: All North Yard tracks.

SI-10 BUSINESS TRACKS

Track Name	MP	Sta.#'s
Riskus	175.1	SR017

SI-11 INDUSTRIAL LEADS

Sessums Industrial Lead: (1710) Off of main track at MP 221.3; extends for 24.0 miles to end of track.

Maximum Gross Weight Restrictions:

134 Tons, Restrictions A and S.

Radio Channel: 071-071

Business Tracks	MP	Sta.#'s
Orange	2.0	HG002
Wheat	4.0	HG004
Hangar	24.0	HG024

SI-12 TONNAGE RESTRICTIONS/TPOB Maximum

Gross Weight Restrictions:

158 Tons, Restrictions A and N.

SI-13 TRAIN MAKE-UP RESTRICTIONS

No additional restrictions to system requirements.

SI-14 MISC. INSTRUCTIONS

Track Breach Protection: Employee announced Track Breach Protection may be in effect:

Bedlam Yard:

MP 175.0 and MP 180.5

Radio Display 027-027

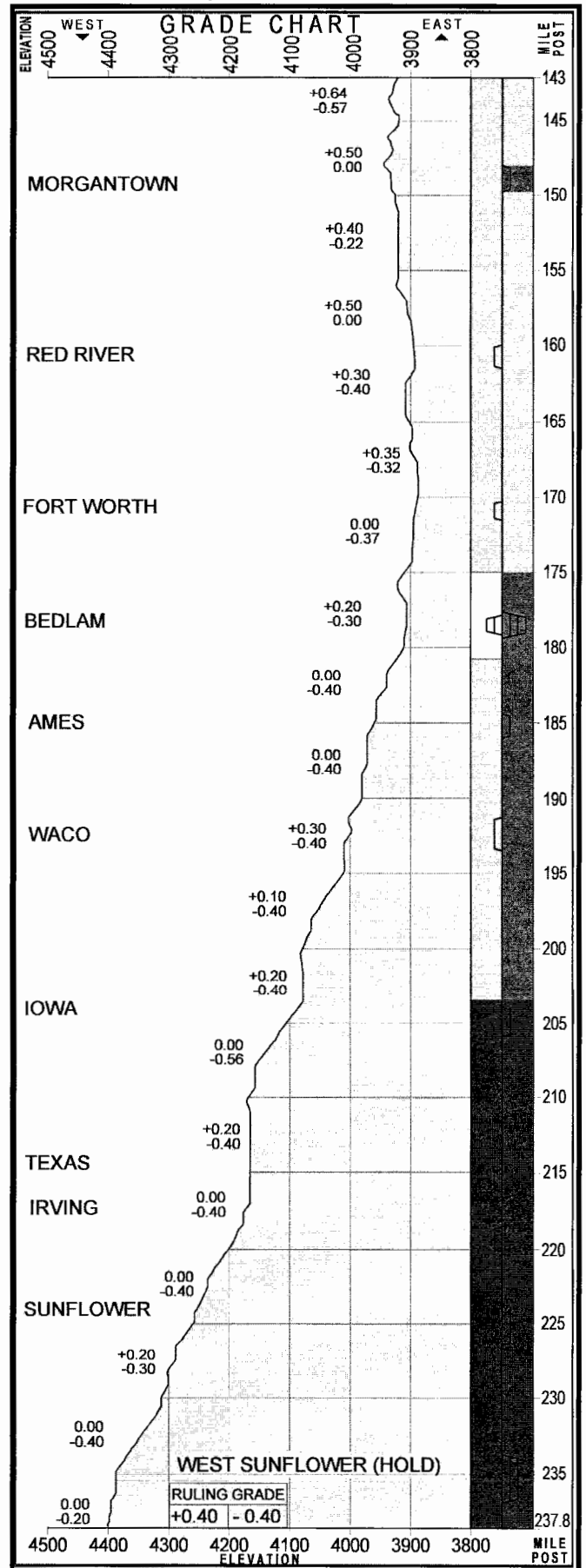
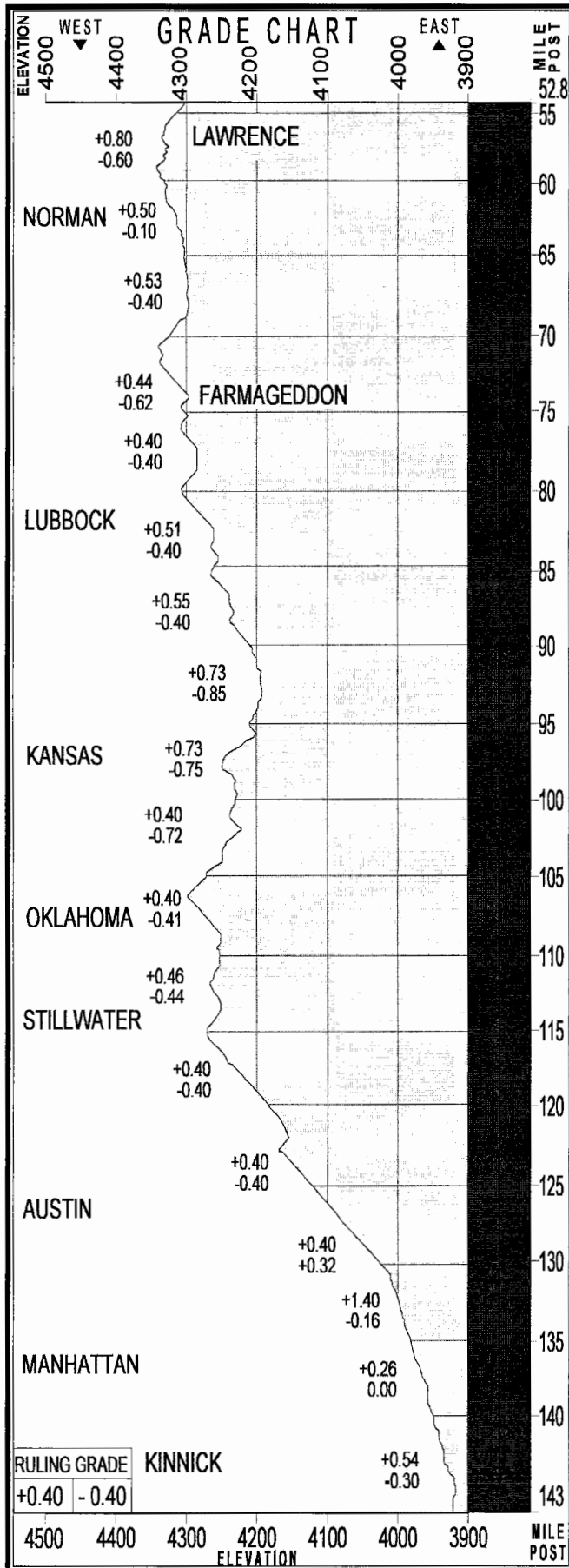
Hot Wheel Detectors:

As referenced in SSI Item 13.1, bridge with a through truss structure located at the following location:

MP 164.2

Set Out Tracks				
MP	Name	Track	Access Direction	Length
81.3	Lubbock	Siding	West	300
113.8	Stillwater	Main	East	600
137.8	Manhattan	Siding	West	380
204.5	Iowa	Siding	East	300

ORANGE SUBDIVISION (1975)



SUGAR SUBDIVISION (1954)

5

Radio Display:						
Between Kinnick and Bryant: 096-096 - *54						
Mile Post	Track Layout	Rule 6.3	CP #s	▼ SOUTH Stations/Control Points	▲ NORTH Stations/Control Points	Sta. #s Siding Feet
348.2		CTC	W143	KINNICK (2.4)	(X)UPRR(M)T	RR143
345.8		YL		NASHVILLE (0.9)		SG346
344.9		ABS		STARKVILLE (2.9)	BT	SG344 YARD
342.0				GAINESVILLE (13.2)		SG341
340.2		TWC				
328.8		ABS	W329	ATHENS (7.4)	(M)!	SG328 11950
326.7			W327	LEXINGTON (10.1)	(X)SLF(Z)	
321.4				COLUMBIA (14.2)		SG311 7936
311.3				KNOXVILLE (7.5)		SG297 7941
310.1				TUSCALOOSA (7.4)		SG290
297.1				AUBURN (11.2)	(X)SHB(M)	
295.9				FAYETTEVILLE (8.6)		SG270 6800
289.6				OXFORD (8.5)		SG262 8615
282.2			W801	COLLEGE STATION (3.6)		RR254
271.0		TWC		BATON ROUGE (5.8)		SG250 7270
269.7				BRYANT (5.0)	B	SG244 YARD
262.4						
260.8						
253.9						
250.3						
248.9						
244.5		YL				
242.7						
(103.7)						
SI-01 MAIN TRACK AUTHORITY						
CTC at:						
CP W143 Kinnick						
TWC Between:						
MP 340.2 and MP 246.1						
Yard Limits Between:						
MP 348.2 and 340.2;						
MP 246.1 and 242.7						
ABS Between:						
MP 348.2 and 282.2						
SI-02 MAXIMUM SPEED TABLE						
Maximum Speed			MPH			
Between Mileposts			FRT			
348.2 and 242.7			60			
(Except as Below)						
344.2 and 340.2			40			
321.4 (X)			25			
301.4 and 300.1			50			
282.2 and 246.1			49			
246.1 and 242.7			20			

SI-03 OTHER SPEED RESTRICTIONS

Maximum Speed MPH

1. Thru Sidings & Turnouts.
Fayetteville 20
Athens 25
2. Dual Control Switch Turnouts (No Exceptions).
3. Misc. Speed Restrictions.
Kinnick - All Turnouts and
Wye Tracks 20
4. Key Trains: Crude Oil/High Hazard Flammable
Between Mileposts
MP 310.1 and MP 274.6 40

SI-04 MAIN TRACK DESIGNATIONS - None.

SI-05 MILEPOST EQUATIONS

MP 242.72 = MP 156.02 El Dorado Subdivision

SI-06 RCL OPERATIONS - None.

SI-07 ITEM 13 TRAIN DEFECT DETECTORS

(#) 346.0	(#) 306.9	(#) 279.7
% 338.5	% 299.7	% 265.5
(#) 323.2	% 292.6	(#) 254.1
% 315.8	% 284.3	(#) 246.2

SI-08 RULES ITEMS

Rule 9.9.1: (Z) Interlocking Locations:

Lexington MP 321.4 (X)SLF(Z)CP W321 Rule 9.9.1 (Passing Approach to Automatic Interlocking) applies.

At a signal displaying a Stop indication: Train movements will be governed as follows:

1. A crew member must contact the train dispatcher and obtain permission:

To operate the time release box.
and

To pass the Stop indication (train may not proceed until complying with instructions in release box).

2. The crew will then be governed by the instructions in the release box.

3. After complying with instructions in the release box that allow the train to proceed, if signal continues to display a Stop indication, the train must move at restricted speed.

Maintenance of Way will be governed as follows:

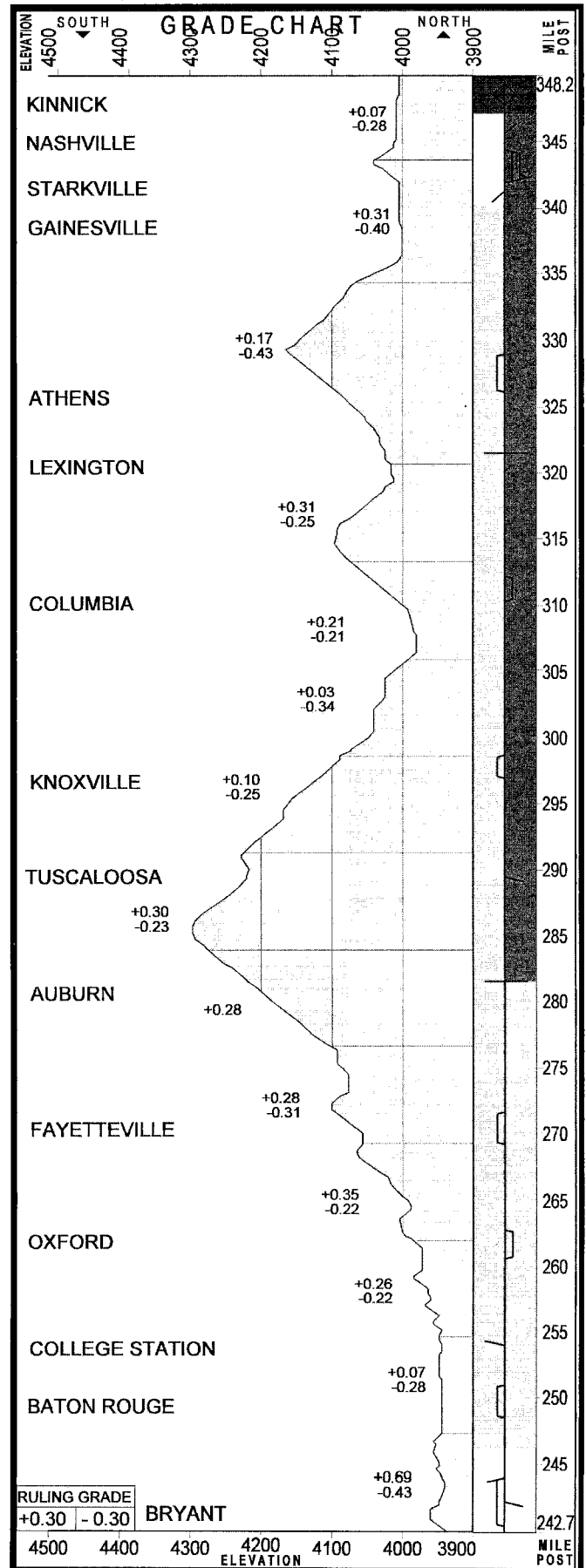
When moving through limits comply with Rule 42.7.2. When working within limits comply with Chief Engineer Instruction Bulletin 136.4.8.

Rule 9.15 applies: Siding at Athens. MofW On-Track equipment must obtain a track permit to occupy this siding. A track permit will be issued to a trainly when operating conditions require siding to be jointly occupied by a train and men or equipment.

Rule 32.1: Starkville Yard: Three handbrakes are required on south end of all yard tracks.

SUGAR SUBDIVISION (1954)

SI-09 FRA EXCEPTED TRACKS College Station																																																	
SI-10 BUSINESS TRACKS - None.																																																	
SI-11 INDUSTRIAL LEADS Gainesville Industrial Lead: (801) Off main track at MP 342.0; extends 7.9 miles to end of track. Maximum Gross Weight Restrictions: 134 Tons, Restrictions A and S. Radio Channel: 027-027																																																	
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Business Tracks</td> <td style="width: 20%; text-align: right;">MP</td> <td style="width: 20%; text-align: right;">Sta.#S</td> <td style="width: 20%;"></td> </tr> <tr> <td>Conway</td> <td style="text-align: right;">2.1</td> <td style="text-align: right;">GV002</td> <td></td> </tr> <tr> <td>Chanticleer.</td> <td style="text-align: right;">6.8</td> <td style="text-align: right;">GV007</td> <td></td> </tr> </table>					Business Tracks	MP	Sta.#S		Conway	2.1	GV002		Chanticleer.	6.8	GV007																																		
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SI-12 TONNAGE RESTRICTIONS/TPOB Maximum Gross Weight Restrictions: 158 Tons, Restrictions A and N.																																																	
SI-13 TRAIN MAKE-UP RESTRICTIONS No additional restrictions to system requirements.																																																	
SI-14 MISC. INSTRUCTIONS Track Breach Protection: Employee established Track Breach Protection may be in effect: Starkville Yard: MP 344.9 and MP 343.2 Radio Display 096-096 Bryant Yard: MP 244.5 and MP 242.7 Radio Display 096-096																																																	
<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <th colspan="5">Set Out Tracks</th></tr> <tr> <th>MP</th><th>Name</th><th>Track</th><th>Access Direction</th><th>Length</th></tr> <tr> <td>328.1</td><td>Athens</td><td>Siding</td><td>Both</td><td>800</td></tr> <tr> <td>309.6</td><td>Columbia</td><td>Main</td><td>North</td><td>300</td></tr> <tr> <td>296.7</td><td>Knoxville</td><td>Siding</td><td>Both</td><td>600</td></tr> <tr> <td>283.1</td><td>Auburn</td><td>Main</td><td>South</td><td>450</td></tr> <tr> <td>281.1</td><td>Auburn</td><td>Main</td><td>North</td><td>500</td></tr> <tr> <td>261.5</td><td>Oxford</td><td>Siding</td><td>Both</td><td>680</td></tr> <tr> <td>248.3</td><td>Baton Rouge</td><td>Main</td><td>North</td><td>600</td></tr> </table>					Set Out Tracks					MP	Name	Track	Access Direction	Length	328.1	Athens	Siding	Both	800	309.6	Columbia	Main	North	300	296.7	Knoxville	Siding	Both	600	283.1	Auburn	Main	South	450	281.1	Auburn	Main	North	500	261.5	Oxford	Siding	Both	680	248.3	Baton Rouge	Main	North	600
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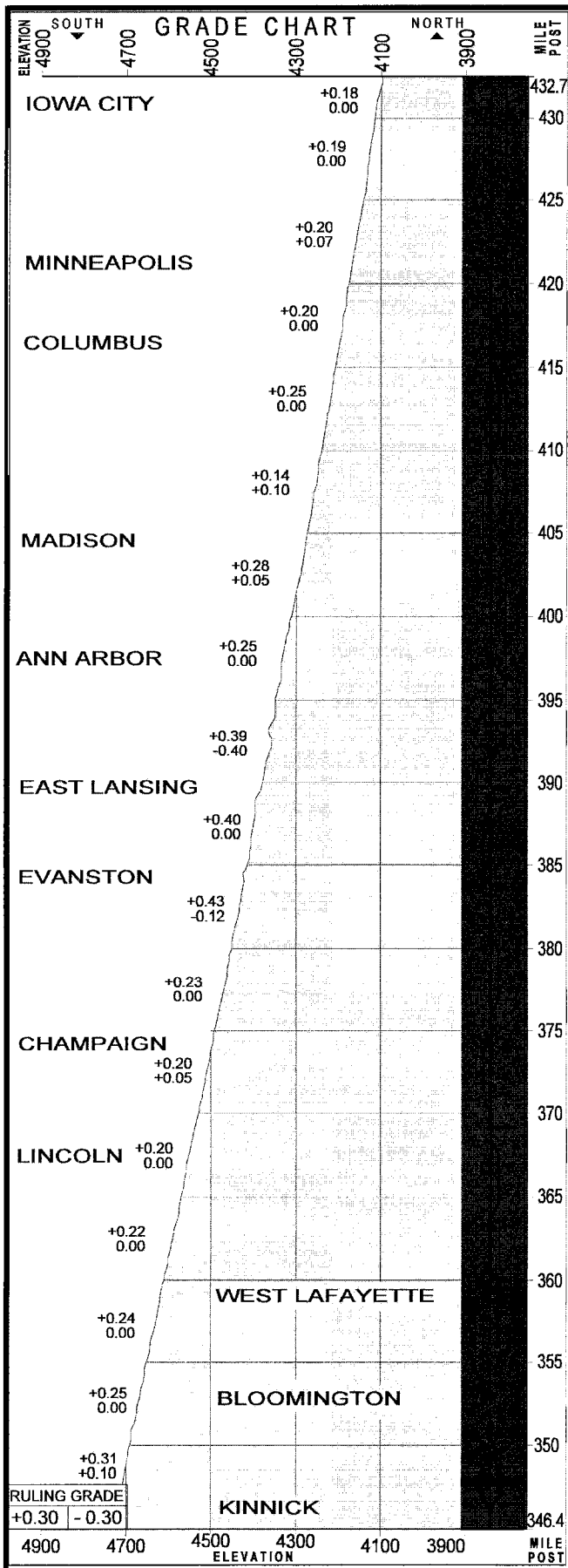
ROSE SUBDIVISION (1976)

7

		Radio Display:					
		Between Iowa City and Kinnick: 020-020- *07					
Mile Post	Track Layout	Rule 6.3	CP #s	▼ SOUTH Stations/Control Points	▲ NORTH	Sta. #s	Siding Feet
432.7		CTC 2MT	G433	IOWA CITY	!	IA431	E12700
430.2			G430	(9.9)			W12695
422.8			G423	MINNEAPOLIS	X(11-2)		
				(5.8)			
417.0			G417	COLUMBUS	!	IA416	C9916
415.0			G415	(10.8)			
406.2			G406	MADISON (Trk. 1)		IA403	8763
404.4			G404	(9.3)			
396.9			G397	ANN ARBOR	X(11-2)		
				(7.3)			
389.6			G390	EAST LANSING	(11-3)		
				(4.5)			
385.3		CTC	G385	EVANSTON	!	IA384	14784
382.3			G382	(10.0)			
375.1			G375	CHAMPAIGN	!	IA374	8596
373.3			G373	(7.8)			
367.3			G367	LINCOLN		IA367	5056
366.2			G366	(7.4)			
359.9			G360	WEST LAFAYETTE	!	IA359	7316
358.4			G358	(5.5)			
354.4		CTC	G354	BLOOMINGTON	BT	IA353	Yard
352.2			G352	(8.0)			
346.4			W143	KINNICK	(X)UPRR(M)T	RR143	
			(0.0)				
(86.3)							
SI-01 MAIN TRACK AUTHORITY							
CTC between: CP G433 and CP W143							
PTC between: CP G433 and CP W143							
SI-02 MAXIMUM SPEED TABLE							
Maximum Speed						MPH	
Between Mileposts						FRT	
432.7 and 346.4							
(Except as Below)						70	
420.7 and 418.6						55	
380.9 and 380.4						40	
370.1 and 369.7						50	
368.4 and 368.0						60	
354.4 and 352.2						30	
SI-03 OTHER SPEED RESTRICTIONS							
Maximum Speed						MPH	
1. Thru Sidings & Turnouts.							
West and East sidings Iowa City,							
Columbus, Evanston, Champaign . . .						40	
West Lafayette						20	
2. Dual Control Switch Turnouts.							
CP G423, G397						50	
CP G390						60	
3. Misc. Speed Restrictions.							
Kinnick - All Turnouts and							
Wye Tracks						20	
4. Key Trains: Crude Oil/High Hazard Flammable							
Between Mileposts							
MP 432.7 and MP 410.7						40	

SI-04 MAIN TRACK DESIGNATIONS 2MT between CP G433 and CP G390																																																														
SI-05 MILEPOST EQUATIONS - None.																																																														
SI-06 RCL OPERATIONS - None.																																																														
SI-07 ITEM 13 TRAIN DEFECT DETECTORS <table><tr><td>(#) + 428.2</td><td>% 387.0</td><td>(#) + 356.4</td></tr><tr><td>(#) + 419.8</td><td>(#) + 379.3</td><td>(#) + 350.1</td></tr><tr><td>% 412.5</td><td>% 370.6</td><td></td></tr><tr><td>(#) + 401.6</td><td>% 362.9</td><td></td></tr></table>			(#) + 428.2	% 387.0	(#) + 356.4	(#) + 419.8	(#) + 379.3	(#) + 350.1	% 412.5	% 370.6		(#) + 401.6	% 362.9																																																	
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SI-08 RULES ITEMS																																																														
SI-09 FRA EXCEPTED TRACKS - None.																																																														
SI-10 BUSINESS TRACKS - None.																																																														
SI-11 INDUSTRIAL LEADS - None.																																																														
SI-12 TONNAGE RESTRICTIONS/TPOB Maximum Gross Weight Restrictions: 158 Tons, Restrictions A and N.																																																														
SI-13 TRAIN MAKE-UP RESTRICTIONS No additional restrictions to system requirements.																																																														
SI-14 MISC. INSTRUCTIONS <table><tr><th colspan="5">Set Out Tracks</th></tr><tr><th>MP</th><th>Name</th><th>Track</th><th>Access Direction</th><th>Length</th></tr><tr><td>431.2</td><td>Iowa City</td><td>E. Siding</td><td>Both</td><td>1000</td></tr><tr><td>431.5</td><td>Iowa City</td><td>W. Siding</td><td>Both</td><td>850</td></tr><tr><td>421.6</td><td>Minneapolis</td><td>Trk. 1</td><td>South</td><td>900</td></tr><tr><td>421.4</td><td>Minneapolis</td><td>Trk. 2</td><td>North</td><td>1000</td></tr><tr><td>398.8</td><td>Ann Arbor</td><td>Trk. 1</td><td>South</td><td>800</td></tr><tr><td>398.6</td><td>Ann Arbor</td><td>Trk. 2</td><td>North</td><td>900</td></tr><tr><td>384.3</td><td>Evanston</td><td>Siding</td><td>Both</td><td>1200</td></tr><tr><td>374.1</td><td>Champaign</td><td>Main</td><td>Both</td><td>400</td></tr><tr><td>359.0</td><td>West Lafayette</td><td>Siding</td><td>Both</td><td>800</td></tr><tr><td>354.1</td><td>Bloomington</td><td>Main</td><td>North</td><td>1000</td></tr></table>			Set Out Tracks					MP	Name	Track	Access Direction	Length	431.2	Iowa City	E. Siding	Both	1000	431.5	Iowa City	W. Siding	Both	850	421.6	Minneapolis	Trk. 1	South	900	421.4	Minneapolis	Trk. 2	North	1000	398.8	Ann Arbor	Trk. 1	South	800	398.6	Ann Arbor	Trk. 2	North	900	384.3	Evanston	Siding	Both	1200	374.1	Champaign	Main	Both	400	359.0	West Lafayette	Siding	Both	800	354.1	Bloomington	Main	North	1000
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359.0	West Lafayette	Siding	Both	800																																																										
354.1	Bloomington	Main	North	1000																																																										

ROSE SUBDIVISION (1976)



FIESTA SUBDIVISION (1952)

9

Radio Display:							
Between Kinnick and Corvallis: 096-096- *35							
Mile Post	Track Layout	Rule 6.3	CP #’s	▼ SOUTH Stations/Control Points	▲ NORTH Stations/Control Points	Sta. #’s Siding Feet	
393.7		CTC	W142	KINNICK (6.5)	(X)UPRR(M)T	RR143	
387.2			M387	TUCSON	!	CT386	8343
385.5			M386	(9.7)			
377.5			M378	EUGENE	!	CT377	5169
376.4			M376	(8.0)			
369.5			M369	SEATTLE	!	CT369	5675
368.3			M368	(7.8)			
361.7			M362	WESTWOOD	!	CT361	8342
360.0			M360	(8.8)			
352.9			M353	TEMPE	!	CT352	5065
351.8			M352	(6.5)			
346.4			M346	NORTH LOS ANGELES (1.2)	!		5400
345.2			M345	LOS ANGELES (1.6)	T		
343.6			M344	SOUTH LOS ANGELES (3.4)	!		6350
340.2		M340	SALT LAKE CITY	!	CT339	8670	
338.5		M338	(2.6)				
337.6		M337	PULLMAN		CT337	5092	
336.6		M336	(4.0)				
333.6		CTC 2MT	M334	BERKELEY (2.6)			
331.0			M331	BOULDER (4.6)			
326.5		CTC	M327	STANFORD (HOLD) (3.9)			
322.9	M323		NORTH CORVALLIS (1.2)				
321.4	M321		CORVALLIS	!	CT321	8501	
(72.3)							
SI-01 MAIN TRACK AUTHORITY							
CTC between: Entire Subdivision							
SI-02 MAXIMUM SPEED TABLE							
Maximum Speed					MPH		
Between Mileposts					FRT		
393.7 and 321.4							
(Except as Below)					60		
390.1 and 388.5					55		
388.5 and 387.9					50		
387.9 and 379.1					40		
373.8 and 363.7					40		
363.7 and 355.5					35		
355.5 and 347.4					30		
347.4 and 346.0					35		
346.0 and 337.9					40		
337.9 and 333.5					35		
333.5 and 321.4					30		

SI-03 OTHER SPEED RESTRICTIONS

Maximum Speed **MPH**

- Thru Sidings & Turnouts.**
Sidings Tucson, Eugene, Seattle, Los Angeles (north siding) 25
Siding Salt Lake City 20
Sidings Westwood, Tempe, Los Angeles (south siding), Pullman 10
- Dual Control Switch Turnouts.**
MP 345.2 Crossover 10
Corvallis Crossover 10
- Misc. Speed Restrictions.**
Kinnick - All Turnouts and Wye Tracks 20
- Key Trains: Crude Oil/High Hazard Flammable**
Between Mileposts
MP 358.1 and MP 332.8 40

SI-04 MAIN TRACK DESIGNATIONS

Two main tracks between:
MP 333.6 and MP 331.0

SI-05 MILEPOST EQUATIONS - None.

SI-06 RCL OPERATIONS - None.

SI-07 ITEM 13 TRAIN DEFECT DETECTORS

(#) 390.9	(#) 357.5	& 327.3 *
% 384.0	% 347.8	% 326.5
% 379.0	(#) 342.4	% 324.2
% 374.9	% 335.0	& 323.2 *
(#) 372.9	(#) 330.0	
% 365.0	% 329.0	

* Protects Red River Bridge MP 325.0

SI-08 RULES ITEMS

Rule 32.1: Do not tie-up and leave a train unattended between Berkeley CP M334 and Corvallis CP M321 unless track has derail protection.

SSI Item 8: 1% Applicability Code applies between Kinnick and Berkeley; 2% Applicability Code applies between Berkeley and Corvallis. Cresting Grade "CG" locations for Southward trains at MP 367.7 (Seattle) and at MP 332.5 (Berkeley).

SI-09 FRA EXCEPTED TRACKS

Tempe Set Out Track.

SI-10 BUSINESS TRACKS - None.

SI-11 INDUSTRIAL LEADS

Hunter Industrial Lead: (1961) Located at MP 346.0 off the North Los Angeles siding. Extends 4.1 miles to end of track.

Maximum Gross Weight Restrictions:
143 Tons, Restrictions A and Q.

Radio Channel: 036-036

Business Tracks	MP Sta.#'S
Reagan	2.0 CT345
Roseberry	3.7 CT343

FIESTA SUBDIVISION (1952)

SI-12 TONNAGE RESTRICTIONS/TPOB

Maximum Gross Weight Restrictions:

158 Tons, Restrictions A and N.

Descending Grade Between Berkeley and Corvallis:

The following table must be used to determine maximum speed:

Tons Per Operative Brake:	Tons Per Dynamic Brake Axle:	Maximum Speed
80 or less	300 or less	30 MPH
	300+ to 425	25 MPH
	425+ to 500	20 MPH
80+ to 100	300 or less	25 MPH
	300+ to 500	20 MPH
100+ to 130	250 or less	25 MPH
	250+ to 500	20 MPH
130+	500 or less	20 MPH

Between MP 332.6 and MP 322.6: A train that exceeds 500 tons per dynamic brake axle, experiences dynamic brake failure, or the use of full dynamic brake and an 18-lb brake pipe reduction will not control the train at the allowable speed, train must be STOPPED and sufficient hand brakes set to prevent movement. The train must not proceed until additional dynamic braking is obtained, tonnage is reduced or retainers on all cars are placed in operative position. When it is necessary to use retainers, the train must not proceed except as instructed by the district Manager of Operating Practices.

SI-13 TRAIN MAKE-UP RESTRICTIONS

The following table applies when operating between Eugene and Corvallis:

LEAD CONSIST EPA/EDBA TABLE

Train Type	Max EPA	Max EDBA
Loaded Bulk-Commodity Unit Train	36	31
Intermodal	44	27
All Other Trains	36	27

No additional restrictions to system requirements.

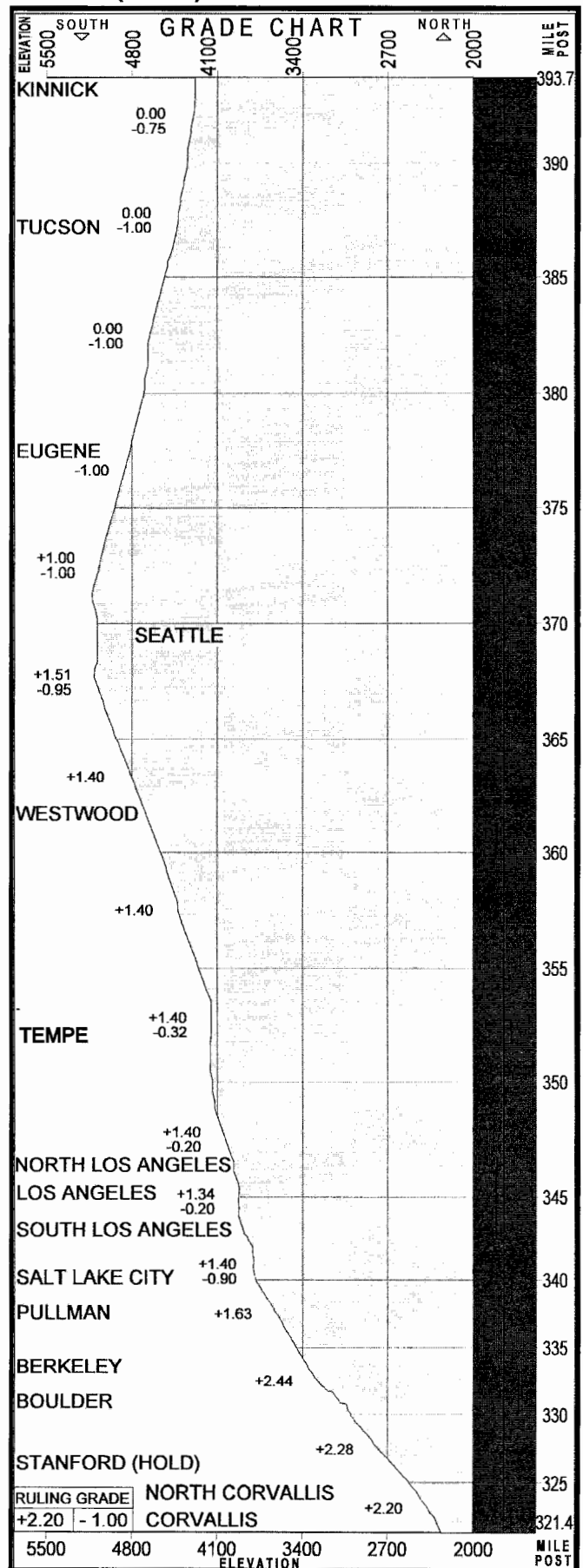
SI-14 MISC. INSTRUCTIONS

Special Walkways Special walkways located between MP 325.0 and MP 327.4 to allow trainmen to make an inspection of both sides of train when required. When train inspection is required but walking conditions do not allow both sides of the train to be safely inspected, the following procedures must be followed:

1. Determine safest side of train to perform the inspection.
2. If at any point during the inspection it is determined that the opposite side would be the safest route, employee may crossover and continue the inspection.
3. If employee determines that a walking inspection of the train may not be performed or completed safely, contact the dispatcher for further instructions.

Set Out Tracks

MP	Name	Track	Access Direction	Length
386.0	Tucson	Siding	South	300
353.1	Tempe	Main	North	500
344.7	Los Angeles		South	500



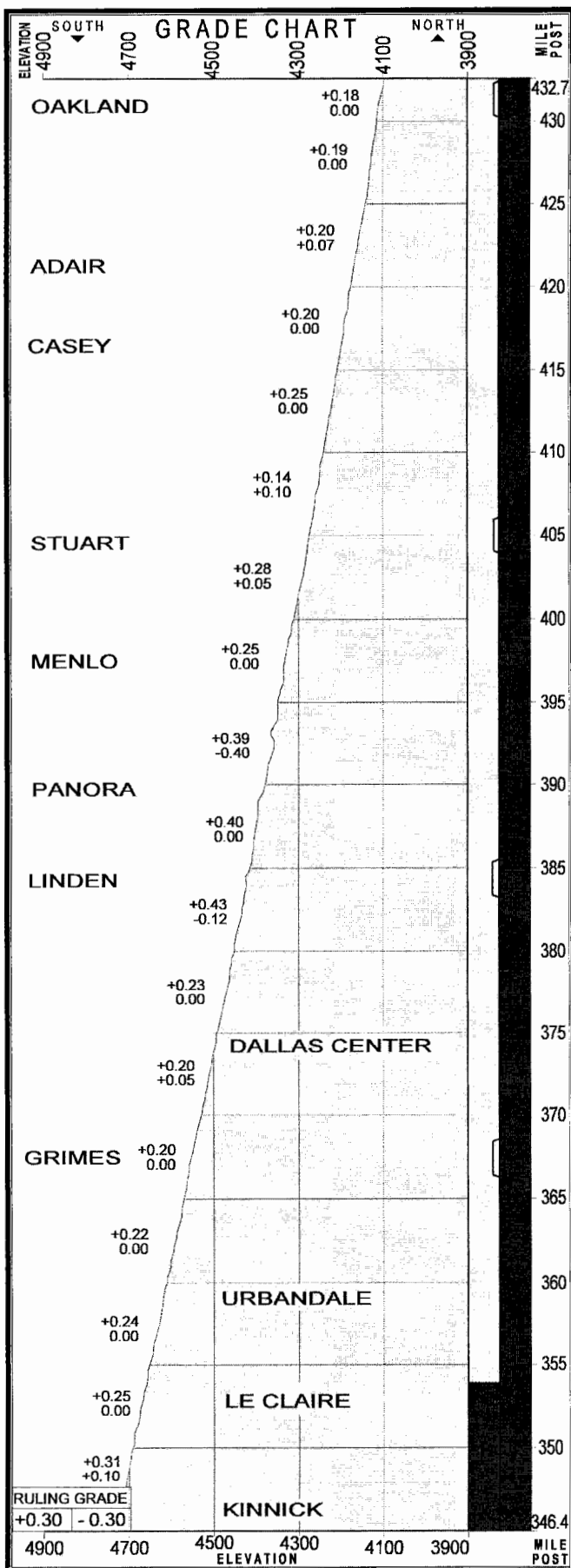
IOWA SUBDIVISION (2022)

11

Radio Display: Kinnick and Oakland 095-095 - (*93)									
Mile Post	Track Layout	Rule 6.3	CP # ^s	SOUTH NORTH Stations/Control Points		Sta. # ^s	Siding Length		
432.7		CTC2MT ATC	H433	OAKLAND	!	AF431	E12700		
430.2			H430	(9.9)				W12695	
422.8			H423	ADAIR (5.8)	X(11-2)				
417.0			H417	CASEY	!	AF416		C9916	
415.0			H415	(10.8)					
406.2			H406	STUART (MT1)		AF403		8763	
404.4			H404	(9.3)					
396.9			H397	MENLO (7.3)	X(11-2)				
389.6				CTC ATC	H390	PANORA (4.5)	(11-3)		
385.1					H385	LINDEN	!	AF384	13671
382.3	H382	(10.0)							
375.1	H375	DALLAS CENTER			!	AF374	8596		
373.3	H373	(7.8)							
367.3	H367	GRIMES				AF367	5056		
366.2	H366	(7.4)							
359.9	H360	URBANDALE			!	AF359	7316		
358.4	H358	(5.5)							
354.4		CTC	H354	LE CLAIRE	BT	AF353	YARD		
352.2			H352	(8.0)					
346.4			W142	KINNICK (0.0)	(X)UPRR(M)T	RR143			
(86.3)									
SI-01 MAIN TRACK AUTHORITY									
CTC between: CP H433 and CP W142									
ATC between: CP H433 and CP H354									
SI-02 MAXIMUM SPEED TABLE									
Maximum Speed						MPH			
Between Mileposts						FRT			
432.7 and 346.4									
(Except as Below)						70			
420.7 and 418.6						55			
380.9 and 380.4						40			
370.1 and 369.7						50			
368.4 and 368.0						60			
354.4 and 352.2						30			
SI-03 OTHER SPEED RESTRICTIONS									
Maximum Speed						MPH			
1. Thru Sidings & Turnouts.									
West and East sidings Oakland, Casey,									
Linden, Dallas Center						40			
Urbandale						20			
2. Dual Control Switch Turnouts.									
CP H423, H397						50			
CP H390						60			
3. Misc. Speed Restrictions.									
Kinnick - All Turnouts and									
Wye Tracks						20			
4. Key Trains: Crude Oil/High Hazard Flammable									
Between Mileposts									
MP 432.7 and MP 410.7						40			

SI-04 MAIN TRACK DESIGNATIONS 2MT between CP H433 and CP H390				
SI-05 MILEPOST EQUATIONS - None.				
SI-06 RCL OPERATIONS - None.				
SI-07 ITEM 13 TRAIN DEFECT DETECTORS				
(#) 428.2	% 387.0	(#) 356.4		
(#) 419.8	(#) 379.3	(#) 350.1		
% 412.5	% 370.6			
(#) 401.6	% 362.9			
SI-08 RULES ITEMS Rule 17.4 ATC Test Loops Le Claire: Main Track Northward between MP 354.1 to MP 354.7 Le Claire Yard: North switching lead to CP H354				
SI-09 FRA EXCEPTED TRACKS - None.				
SI-10 BUSINESS TRACKS - None.				
SI-11 INDUSTRIAL LEADS - None.				
SI-12 TONNAGE RESTRICTIONS/TPOB Maximum Gross Weight Restrictions: 158 Tons, Restrictions A and N.				
SI-13 TRAIN MAKE-UP RESTRICTIONS No additional restrictions to system requirements.				
SI-14 MISC. INSTRUCTIONS				
Set Out Tracks				
MP	Name	Track	Access Direction	Length
431.2	Oakland	E. Siding	Both	1000
431.5	Oakland	W. Siding	Both	850
421.6	Adair	Trk. 1	South	900
421.4	Adair	Trk. 2	North	1000
398.8	Menlo	Trk. 1	South	800
398.6	Menlo	Trk. 2	North	900
384.3	Linden	Siding	Both	1200
374.1	Dallas Center	Main	Both	400
359.0	Urbandale	Siding	Both	800

IOWA SUBDIVISION (2022)



NOTES:

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NOTES:

LEGEND

- 1. PORTLAND
- 2. SALT LAKE
- 3. ROSEVILLE
- 4. LOS ANGELES
- 5. SUNSET
- 6. DENVER
- 7. NORTH PLATTE
- 8. COUNCIL BLUFFS
- 9. KANSAS CITY
- 10. SALINA
- 11. IOWA
- 12. TWIN CITIES
- 13. CHICAGO
- 14. ST. LOUIS
- 15. NORTH LITTLE ROCK
- 16. DALLAS/FT. WORTH
- 17. HOUSTON
- 18. SAN ANTONIO

TRACKAGE RIGHTS

- 1. PORTLAND
- 2. SALT LAKE
- 3. ROSEVILLE
- 4. LOS ANGELES
- 5. SUNSET
- 6. DENVER
- 7. NORTH PLATTE
- 8. COUNCIL BLUFFS
- 9. KANSAS CITY
- 10. SALINA
- 11. IOWA
- 12. TWIN CITIES
- 13. CHICAGO
- 14. ST. LOUIS
- 15. NORTH LITTLE ROCK
- 16. DALLAS/FT. WORTH
- 17. HOUSTON
- 18. SAN ANTONIO
- 19. TRACKAGE RIGHTS



TIMETABLE AREAS

FILE T:\AREAS99\TT_MAPS\SYSTEM\2011\TT_SYSTEM_MAP_2011.DGN
PEN TABLE: T:\AREAS99\TT_MAPS\TT_SYS_MAP.PEN

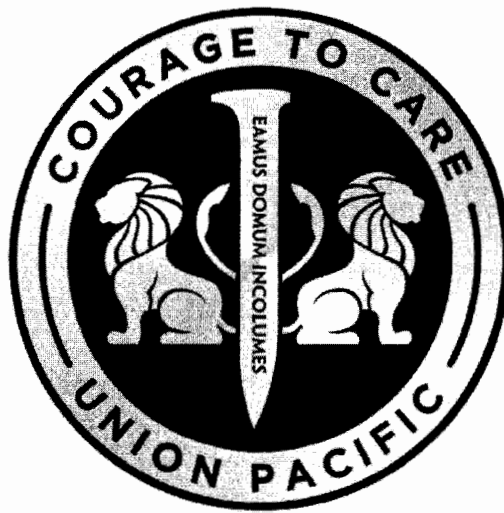
REVISÉ: NOVEMBER 15, 2011

Continental Time Conversion Chart

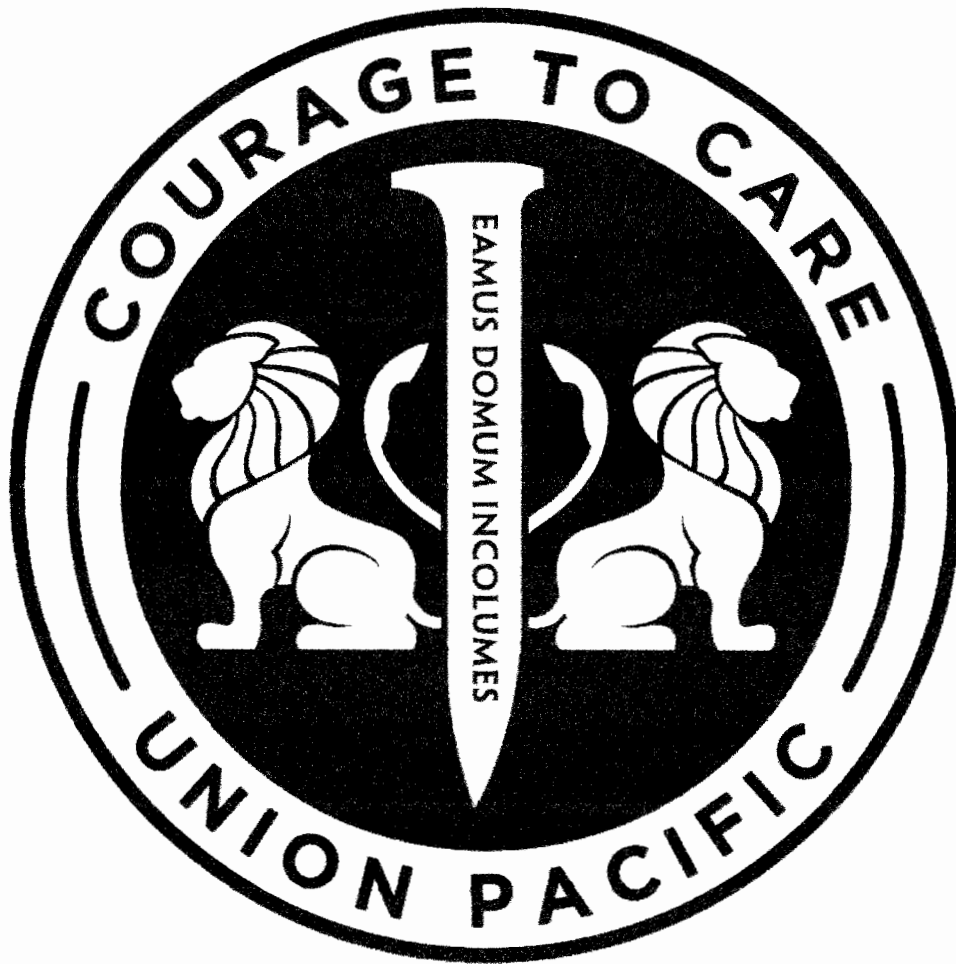
1:00 AM	0100	1:00 PM	1300
1:30 AM	0130	1:30 PM	1330
2:00 AM	0200	2:00 PM	1400
3:00 AM	0300	3:00 PM	1500
4:00 AM	0400	4:00 PM	1600
5:00 AM	0500	5:00 PM	1700
6:00 AM	0600	6:00 PM	1800
7:00 AM	0700	7:00 PM	1900
8:00 AM	0800	8:00 PM	2000
9:00 AM	0900	9:00 PM	2100
10:00 AM	1000	10:00 PM	2200
11:00 AM	1100	11:00 PM	2300
11:59 AM	1159	11:59 PM	2359
Noon	1200	Midnight	0000 (new date)
12:01 PM	1201	12:01 AM	0001

TABLE OF TRAIN SPEEDS

Min Per Mi.	Sec. Per Mi.	Miles Per Hour	Min. Per Mi.	Sec Per Mi.	Miles Per Hour	Min Per Mi.	Sec. Per Mi.	Miles Per Hour	Min. Per Mi.	Sec Per Mi.	Miles Per Hour
			1	6	54.5	1	21	44.4	1	35	37.9
0	45	80.0	1	7	53.7	1	22	43.9	1	40	36.0
0	48	75.0	1	8	52.9	1	23	43.4	1	45	34.3
0	50	72.0	1	10	51.4	1	24	42.9	1	50	32.7
0	52	69.2	1	11	50.7	1	25	42.4	1	55	31.3
0	54	66.6	1	12	50.0	1	26	41.9	2	0	30.0
0	56	64.2	1	13	49.3	1	27	41.4	2	5	28.8
0	58	62.0	1	14	48.6	1	28	40.9	2	10	27.7
1	0	60.0	1	15	48.0	1	29	40.4	2	15	26.7
1	1	59.0	1	16	47.4	1	30	40.0	2	20	25.7
1	2	58.0	1	17	46.7	1	31	39.6	2	25	24.8
1	3	57.1	1	18	46.1	1	32	39.1	3	0	20.0
1	4	56.2	1	19	45.6	1	33	38.7	4	0	15.0
1	5	55.3	1	20	45.0	1	34	38.2	6	0	10.0



I have the courage to care. Worn with a lion's pride, it means those I work with will have my back, and I will have theirs. I pledge to shield myself and my team from harm. I will take action to keep them safe, by fixing an unsafe situation, addressing an unsafe behavior or stopping the line. In turn, I will have the courage to accept the same actions from my coworkers, who care enough to correct my path. We wear this badge out of respect for each other and those who have gone before us. On my watch, we will all go home safe to our families every day.



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01/10/23

HAZARDOUS MATERIALS

1. Who is required to have either a printed or UPRR electronic version of the Form 8620?

ALL TRK EMPLOYEES

2. What is the most current version of the Emergency Response Guidebook?

2020 ERG

3. During train operations, who is required to carry the most current Emergency Response Guidebook (ERG)?

CONDUCTORS

4. A loaded tank car containing a material poisonous/toxic by inhalation, including anhydrous ammonia, is a Rail Security-Sensitive material (RSSM)?

YES

5. When is a Positive Hand-Off required?

Receiving an RSSM from shipper at any location
Receiving / Delivering
Delivering RSSM in high threat urban area HTUA

6. When a Positive Hand-Off of a RSSM shipment is required, what is necessary for the shipment to be considered attended?

Employee or Rep of the RR & Employee OR
Rep of the shipper / Receiver or Interchange RR
Physically Attended.

7. What items must be documented during a Positive Hand-Off?

Car Initial, First & Last Name of individual who
attended transfer, Location, Date & Time.

HAZARDOUS MATERIALS

8. What documents are required when accepting or transporting a hazardous material shipment?

Acceptable Shipping Documents / Papers
Emergency Response Info.
Position in Train Documentation.

9. List the documents that would be considered acceptable shipping papers:

Train List, Railroad Produced Documents,
Connecting Carrier Documents, hand printed
Documents, NOT CURTAIN.

10. A crew has a work order to pull 10 cars of TIH/PIH hazardous material from Bridgman Chemicals. The 4th car in the track is not listed on the work order. What is required?

Only pull first 3 cars.

11. Before proceeding, what must be done with all copies of Position-in-Train documents after pickups or setouts have been made?

Documentation must be made, paper copy
of Position in Train Documents, update both
the Conductor & Engineer Train Lists.

12. A crew will be picking up 10 cars listed as TIH/PIH that are a solid block. What inspections are required?

NONE
Solid Block

13. Your crew will be picking up a loaded TIH/PIH tank car at a customer's facility on an Industrial lead. What action is required if the car is missing a placard?

DONOT ACCEPT until correction is made to
replace placard.

14. What is the maximum coupling speed when a loaded placarded car is cut off in motion?

Not to exceed 4 MPH.

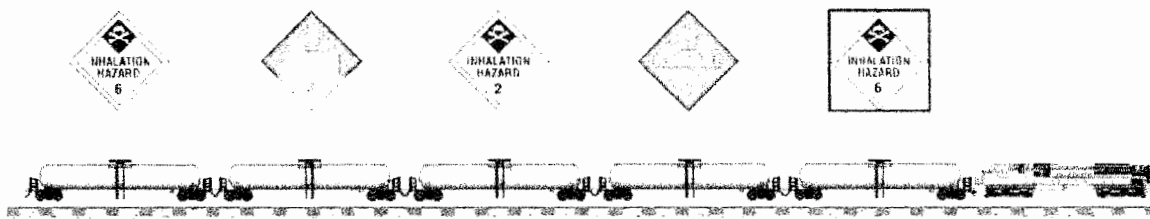
HAZARDOUS MATERIALS

15. The following cars are being switched in a hump yard. Are there any restrictions to switching these cars in a hump yard?

029 PSPX022152 LT22 129 LIVO NKPN APOISN TB028	MFWLI 25 LIVO
** DANGEROUS **	
030 PSPX022109 LT22 129 LIVO NKPN APOISN TB028	MFWLI 25 LIVO
** DANGEROUS **	
031 CPCX105054 LT22 131 LIVO NKPN APOISN TB028	MFWLI 25 LIVO
** DANGEROUS **	

CUTS in 2 OR LESS

16. What precautions must be taken when flat switching the loaded tank cars shown below?



3 INHALATION CARS SHOVE TO REST

1-3-5 TH PIH CARS SHOVE TO REST

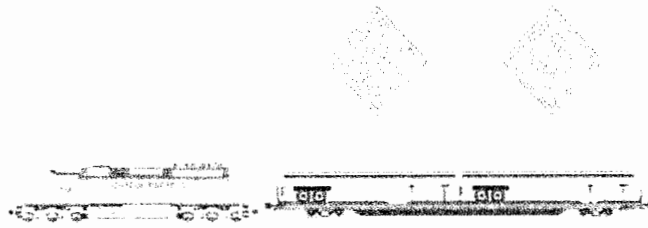
17. During humping operations, which cars must be shoved to rest?



1 2 6

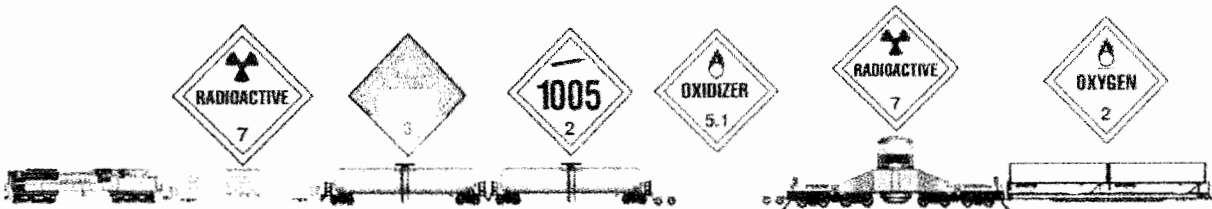
HAZARDOUS MATERIALS

18. In a switching operation, can the car below be kicked or humped? Please explain your answer.



NO - GHOVE TO REST

19. Which car(s) may be cut-off in motion while flat switching?



1 2 4

20. Could you couple the engine to the cut of cars shown below while switching?



NO NEED A BUFFER CAR

HAZARDOUS MATERIALS

21. While switching at an Industry, could a Local crew couple directly into the cars shown below at either end of the cut?

YES BECAUSE YOU'RE IN AN INDUSTRY LEAD

```

882 INIT NAME 1 AND WGT YBLK SPED CMCTY *NEXT*SVB*DES* DEMO-TRAIN TELK
001 TELK601148 1 TLE 187 INDS NAMS APOISN JR001 1075416 LOP58 01 INDU
      **DANGEROUS **
      FLAT YARD - DO NOT KICK

002 GONK033587 1 GSC 188 INDS HLEN PIPE JR001 1075000 LOP58 01 INDU

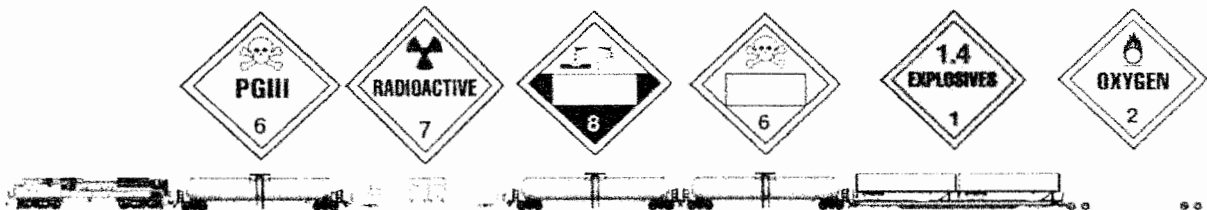
003 GAKX076676 1 TLE 188 INDS WCHL JR001 1075000 LOP58 01 INDU
      ** **

004 GEMX011129 1 CBL 029 INDS H2 JR001 1075506 LOP58 01 INDU

005 HAKX019081 1 TLE 188 INDS DEEM JR001 1075416 LOP58 01 INDU
      **DANGEROUS **

006 SHFX040075 1 TLE 181 INDS NCH2 APOISN JR001 1075318 LOP58 01 INDU
      **POISON GAS ZONE A **
      FLAT YARD - DO NOT KICK
  
```

22. Will the car placement shown below meet Placement in Train requirements? Explain why or why not.



NO - NEEDS 5 BUFFER CARS
CAR 4 NEEDS TO BE ON THE REAR

HAZARDOUS MATERIALS

23. Will the car placement shown below meet Placement in Train requirements? Explain why or why not.



YES - HAS 5 BUFFER CARS

24. Using the Placard Endorsement Conversion Chart and the Placement in Train Chart, are the following placements correct?

42 CALX 6014 ET02 EV378 0101 TOLEMAS CA SUNPOL RES
74 FROM HEAD 60-MPH 66-TONS 66-FT 1-P 1.00-BRK 0100-ATONS 0204-AFT
1 TK
RESIDUE: LAST CONTAINED
KAL998
COMBUSTIBLE LIQUID, N.O.S.
(CONTAINS MINERAL
SPIRITS)
COMBUSTIBLE LIQUID
SHIPPER CONTACT
SUNPOL RESINS AND POLYMER
HAZMAT STCC = 4916889

43 ARMX 06016 LB07 MEATS EX980 0401 OAKLAND CA PACIFI TRA
73 FROM HEAD 60-MPH 66-TONS 66-FT 1-P 1.00-BRK 0100-ATONS 0204-AFT
66 6008 MAINTAIN 1 DEGREE
PROTECTIVE SERVICE
MAINTAIN -10 DEG

44 FROM 15445 LTLD CORVE RV188 01-000-66 VISTA NV SIERRA CHE
72 FROM HEAD 60-MPH 128-TONS 40-FT 1-P 1.00-BRK 0100-ATONS 0204-AFT
00 CAR IS LESS THAN 48 FT
1 IC, 0100-03
EN180
SULPHURIC ACID
6
62 II
62 (SULFURIC ACID)
EPA 1-0084
0518644214
TECH METALS LTD
15 ALDRIDGE AVE
TRAIL NV 89441
SHIPPER CONTACT
CHEMTREC 0011488
HAZMAT STCC = 4916889

* DANGEROUS *

EMERGENCY CONTACT:
800-424-9300

NO - LINE 43 IS PROTECTED SERVICE -
COMBUSTIBLE ENGINE

HAZARDOUS MATERIALS

25. Can the cars shown below be placed next to each other in a train?



NO - SHIFTABLE LOAD
TH CANNOT BE NEXT TO GONDOLA

26. Will the car placement shown below meet Placement in Train requirements? Explain why or why not.



YES - ALL AVAILABLE BUFFER CARS USED.

HAZARDOUS MATERIALS

27. Using the Placard Endorsement Conversion Chart and the Placement in Train Chart, are the following placements correct?

<p>86 UTLX 48690 R60 SPEED RESTRICTED CAR</p> <p>***** * *****</p> <p>EMERGENCY CONTACT: 800-424-9300</p>	<p>LT19 1/TC, 142115/LB ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (DIMETHYL PHTHALATE) 9 UN3082 PG III RQ (DIMETHYL PHTHALATE) HAZMAT STCC = 4962114</p>
<p>87 GATX 78040 R60 SPEED RESTRICTED CAR</p> <p>***** * DANGEROUS * *****</p> <p>EMERGENCY CONTACT: 800-424-9300</p>	<p>LT32 1/TC LIQUEFIED PETROLEUM GAS 2.1 UN1075 (PROPANE) HAZMAT STCC = 4905752</p>
<p>88 GATX 78086 R50 SPEED RESTRICTED CAR</p> <p>***** * POISON GAS ZONE A * *****</p> <p>EMERGENCY CONTACT: 800-424-9300</p>	<p>LT32 1/TC PHOSGENE 2.3 UN1076 RQ (PHOSGENE) POISON-INHALATION HAZARD</p>

NO - BLUE CANNOT GO NEXT TO PURPLE

28. After switching cars at an Industry, could a Local crew place the cars (as shown below) on the head end of their train and proceed to their next customer located 6 miles away on the Industrial Lead?

```

SEQ INIT NUMB L RND WGT YBLK SPCD CMTY *NEXT*SYS*DES* SEND-TRAIN TELK
001 TILX601149 L T12 137 INDS WGH3 APOISN CR001 1078416 LOP88 01 INDU
    **DANGEROUS **
    FLAT YARD - DO NOT MIX

002 GONX080687 L 380 133 INDS HLEN PIPE CR001 1078200 LOP88 01 INDU
003 GATX000673 E T12 039 INDS WGH2 CR001 1078209 LOP88 01 INDU
    ** **

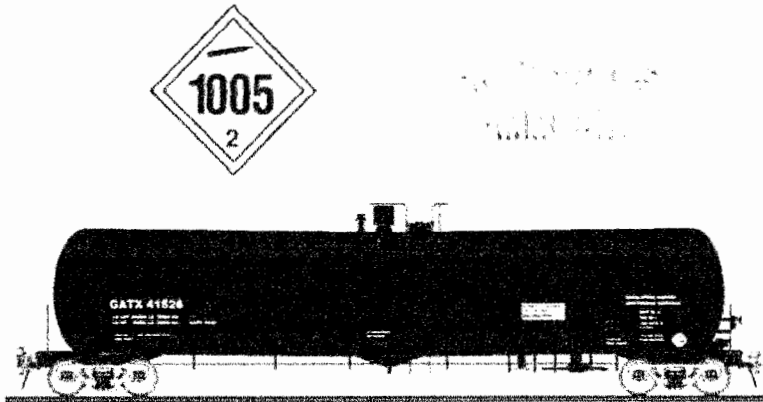
004 BEXX000128 E 031 038 INDS RD CR001 1078816 LOP88 01 INDU
005 BAXX019181 E T19 038 INDS DEEM CR001 1078408 LOP88 01 INDU
    **DANGEROUS **

006 SHFX240205 L T12 131 INDS WGH2 APOISN CR001 1078318 LOP88 01 INDU
    **POISON GAS ZONE A **
    FLAT YARD - DO NOT MIX
  
```

NO - LOADED DANGEROUS NEXT TO
LOADED GONDOLA WITH PIPE

HAZARDOUS MATERIALS

29. If the car below was added to a train with no hazardous materials, would its Key Train status change?



YES - PCNM SHIPMENT TIH - PIH MAKES IT A KEY TRAIN

30. Does the rear helper shown below comply with the Placement in Train requirements?



YES - ONLY RESTRICTION 1 APPLIES

HAZMAT - TRAIN PLACEMENT AID

[illegible][illegible][illegible][illegible]



UNION PACIFIC RAILROAD

Rules Training Study Guide

2023

This study guide will help you prepare for your daily duties and the 2023 exam. When you come to your rules class, bring the reference documents listed below, completed study guide, and supporting documents.

The simulated events occur on the Orange and Fiesta Subdivisions.

Scenario One: You will follow along with a through freight crew beginning their trip at Tucson on the Fiesta subdivision. The crew will complete a work event at Los Angeles and operate the train on grade territory until completing trip at Corvallis.

Scenario Two: You will follow along with a Local crew originating at Sunflower Yard on the Orange subdivision. The Local crew will spot customers on an industrial lead and then operate to Morgantown where they will pick up cars for Bedlam Yard.

As developments occur, you will be asked questions about how situations should be handled, including train movement, tonnage requirements, helper requirements and rule requirements.

As you work through the study guide, keep in mind the situation the crew is in and what is required to respond correctly to the situation.

REFERENCES YOU WILL NEED:

- Union Pacific System Special Instructions
- Union Pacific System General Orders
- Form 8620 Instructions for Handling Hazardous Materials
- Calculator

2023 Rules Training Study Guide

A crew is called on duty at Sunflower Yard (Orange subdivision) at 0600 hours for Pool Freight HOS relief. A contract vehicle will transport the crew to Tucson siding (Fiesta subdivision) where they will add a locomotive to the lead consist of a distributed power train that was previously secured on the siding track and then operate the train southward to Corvallis, stopping at Los Angeles for an enroute work event.

1. On the engineer's previous start, the total trip time was 11 hours and 15 minutes. How much rest was required prior to this start? **1.17**

10 HOURS

2. Is the crew required to contact the train dispatcher to determine if any track warrants, track bulletins or other instructions must be obtained before leaving Sunflower Yard? **15.12**

YES

3. Once the crew receives their paperwork, in addition to reviewing train paperwork, what other items must be reviewed as part of the initial job briefing? **70.3, SSI Item 7-A**

UPRR SYSTEM SPECIAL INSTRUCTIONS DOCUMENT
TIMETABLE FOR TERRITORIES OPERATING ON
SUBDIVISION GENERAL ORDERS - CURRENT SYSTEM G.O.

4. While deadheading out to the train in the contract vehicle, the engineer would like to take a nap while lying down on the rear seat of the van. Is this permissible? **74.5**

NO - ALL OCCUPANTS SEATED WITH SEATBELT ON

Arriving at the train, the crew discovers the train has been separated for the road crossing at Tucson and the locomotive that will be added to the train is secured in the spur track at the south end of the siding track. The crew boards the lead locomotive and reviews the securement checklist left by the previous crew.

5. The checklist indicates the train was secured two days ago. Secondary Procedure was utilized when securing the rear portion (3,200 tons) and Primary Procedure was utilized when securing the head portion. How many hand brakes were required when securing the rear portion of the train? (1% grade at Tucson) **32.1.1**

14 - HANDBRAKES REQUIRED.

2023 Rules Training Study Guide

6. The crew job briefs and decides to add the locomotive to the rear of the lead consist before recoupling the train at the crossing. Is the crew required to contact the train dispatcher prior to initiating movement on the siding track? **15.12**

YES - CONTACT DISPATCHER FOR JOB BRIEFING

7. The locomotive daily inspection card on the lead locomotive indicates the last inspection occurred two days ago. Will the engineer be required to perform the locomotive daily inspections on the lead consist and the rear DP remote? **31.2.1**

YES - MUST BE INSPECTED

8. Will the engineer be required to log into the PTC system before detaching the lead consist and picking up the locomotive from the spur track or can the engineer wait and log into the PTC system once the work event is completed? **18.2**

YES - PTC ON LEAD MUST BE INITIALIZED
UNLESS IN OPERATIVE

9. What items must be reviewed and corrected if needed, during initialization of the PTC system? **18.2, 18.6**

PTC ON CONTROLLING LOCO IS INITIALIZED
ENGINEER REVIEW CONSIST DATA
DEPARTURE TEST

10. Is the crew required to perform a release test before detaching the lead consist from the head portion of the train? **32.1.1, 32.1.3**

YES - VERIFY SUFFICIENT HAND BRAKES ARE
APPLIED

11. At what speed must the crew operate while picking up the locomotive from the spur track and returning to the train? **9.10, 6.27**

RESTRICTED SPEED, LEADING WHEELS

2023 Rules Training Study Guide

12. What PTC action is required, if any, by the engineer before detaching the lead consist from the train and completing the work event? **18.9**

MUST ENABLE RESTRICTED MODE.

After complying with any required actions, the crew detaches the lead consist from the head portion and proceeds to the spur track. After clearing the spur track switch and stopping the movement, the conductor detrains, unlocks the switch, and lines it for movement to the spur track.

13. Is the conductor required to place the lock in the hasp of the switch after lining it for the intended route? **8.8**

YES

14. Is the conductor required to lock the switch before initiating movement into the spur track? **8.8**

NO, MOVEMENT INTO SPUR KANTZING MOVE

15. After placing the derail on the spur track in the non-derailing position, the conductor job briefs with the engineer concerning how protection will be provided to control the shoving movement to a coupling. What items must be included in the radio job briefing prior to initiating the shoving movement? **6.5**

WHO WILL PROTECT SHOVE
HOW SHOVE IS PROTECTED

DISTANCE & DIRECTION TO BE SHOVED

16. After making the coupling and stretching the joint, the engineer exits the lead locomotive to set up the additional locomotive as a trailing unit. Is the engineer required to announce "Red Zone" before fouling the equipment? **81.5.4**

NO - VERIFY SET & CENTERED

2023 Rules Training Study Guide

17. The locomotive daily inspection card indicates the locomotive was inspected on the previous day. Will the engineer be required to perform a daily inspection on the additional locomotive? **31.2.1**

YES - 24 HOURS
MUST NOT BE OLDER THAN LEAD

18. Will a locomotive air brake test be required after adding the locomotive to the consist? **31.3.1**

YES, STANDING AIR BRAKE TEST

19. After setting up the trailing locomotive and performing any required locomotive air brake tests, the engineer releases the hand brake on the locomotive. Is it permissible for the engineer to place both hands on the brake wheel while operating the hand brake? **81.11**

YES, BOTH HANDS MAY BE PLACED ON WHEEL

The crew operates southward off the spur track with the locomotives. After clearing the spur track, the conductor lines the spur track switch for movement on the siding track and secures the switch.

20. Will the conductor be required to place the derail on the spur track in the derailing position and secure it if the spur track is clear of equipment? **8.20**

YES, DERAIL MUST BE LINED & LOADED

After completing any required actions regarding the derail, the conductor boards the rear of the locomotive consist to be in position to protect the shoving movement back to a coupling on the train.

21. The conductor will be using hand signals to control the shoving movement. Is a radio job briefing required before initiating the movement? **6.5**

NO - HAND SIGNALS

After making and stretching the coupling, the conductor requests "Red Zone Protection" through an agreed upon hand signal in order to cut-in air to the head portion of the train and release hand brakes.

2023 Rules Training Study Guide

22. What action is required by the engineer before the conductor fouls the equipment? **81.5.4**

ENGINEER MUST APPLY ~~WHEEL~~ BRAKES
CENTER THE REVERSER

23. The securement form left by the previous crew indicates there are 8 applied hand brakes on the head portion of the train. How many hand brakes must the conductor check beyond the last hand brake that is released? **32.1.6**

CONDUCTOR CHECK 3 BRAKES AFTER

24. Will the conductor be required to establish Track Breach Protection if work is performed between the siding and the main track? **SSI Item 12**

YES - TRACK BREACH PROTECTION
SECOND EMPLOYEE

25. The conductor proceeds to the road crossing to couple the train together. The road crossing at Tucson is not equipped with automatic warning devices. What action is required, if any, by the conductor when shoving across the crossing and coupling the train? **6.32.1**

CONDUCTOR NEEDS TO BE ON GROUND
UNTIL OCCUPIED

After making and stretching the coupling, the conductor informs the engineer that the angle cock on the rear portion is closed. The engineer reviews the DP secondary screen and observes 70 psi on the brake pipe gauge of the rear DP remote and a numeric value flow reading while in "Set Out" mode.

26. When is it permissible to close the angle cock on the portion of the train to be left standing when securing a train and detaching locomotives or locomotives and cars? **32.1.3, 33.8.3**

BOTH B & C 20 PSI

27. The conductor requests "Red Zone Protection" using the radio in order to cut-in air to the rear portion and release hand brakes. After confirming "Red Zone Protection", what action is required by the engineer before the conductor can cut-in the air to the rear portion? **33.8.3**

NORMALIZE & EXECUTE
20# REDUCTION, PRESS REMOTE SFT KEY, VERIFY
SET OUT

2023 Rules Training Study Guide

28. What air brake tests and inspections, if any, will be required before the train departs Tucson?
30.6.1, 33.8.4, 34.4

CLASS 3 AIR BRAKE TEST IF OFF AIR
FOR 24 HOURS OR MORE & CLASS 1

After performing any required air brake tests and inspections, the crew notifies the dispatcher that they are ready to proceed southward. The leaving signal at the south end of Tucson siding displays a green aspect.

29. At what speed must the train operate to the signal? **9.10, 6.27**

RESTRICTED SPEED UNTIL LEADING WHEELS
PASS SIGNAL

30. As the head end of the train passes the clear signal, the engineer observes a red hash box overlay and a red track line between MP 384.0 and MP 382.0 on the PTC display. Why? **15.2, Paperwork**

FORM B - TALK TO EMPLOYEE IN CHARGE

31. What type of environment must be created in the locomotive control compartment as the train approaches MP 384.0? **1.47.1**

CAB RED ZONE

ALL THX
ABOUT

The conductor calls for the EIC of the Form B. The EIC answers and issues the following instructions:
"Foreman Smith to the UP 7430 using Track Bulletin 44629, line 1, UP 7430 has permission to pass the red flag at MP 384.0 and proceed on the main track between MP 384.0 and MP 382.0, without stopping, sounding bell and whistle when approaching and passing men and equipment, over."

32. How should the conductor respond to the instructions from the EIC? **15.2**

INFORM EIC A SPEED IS NEEDED

Operating southward, the crew observes an approach indication at CP M378. As the head end of the train passes CP M378, the crew hears the dragging equipment detector at MP 377.8 announce a defect tone followed by a defect message.

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33. When should the engineer stop the train? SSI Item 13

ON CONCRETE TIES PERFORM AUDIBLE INSPECTION
PLACE YOURSELF 10 CARS AHEAD & ROLL BY 20 CARS
LISTENING FOR DEFECTS - STOP TRAIN

34. The signal at the south end of Eugene siding, CP M376 is displaying a red aspect. In addition to stopping, what other immediate action is required by the crew regarding the dragging equipment detector defect message? 6.23

EMERGENCY, EMERGENCY, EMERGENCY
IMMEDIATELY TRANSMIT EMERGENCY
911 TO DISPATCHER

After stopping, the conductor establishes Red Zone Protection and inspects the indicated axle location for the defect announced by the detector. The conductor observes the trainline connection between two cars hanging down below the top of the rail.

35. What is the required distance above the top of the rail for the glad hand connections? 32.3.2

AT LEAST 5 INCHES

A northward train is approaching Eugene and will operate on the siding track. The dispatcher calls the northward train and notifies the crew that the southward train at Eugene is inspecting for dragging equipment.

36. How must the northward train operate while on the siding track at Eugene? 6.23

NOT TO EXCEED RESTRICTED SPEED

37. The crew on the southward train notifies the dispatcher of the inspection results and departs. As the train is approaching Seattle, the engineer observes a "Comm Loss" on the DP consist at the rear of the train. What action is required? 32.9.6, SSI Item 8

REDUCE TO 30 MPH & NOTIFY DISPATCHER

38. During the "Comm Loss", if the engineer needed to idle the remote consist, what procedure is required? 33.1.3

FULL SERVICE APPLICATION

2023 Rules Training Study Guide

39. Communication with the rear DP consist is restored as the train crests the grade at Seattle. Operating around a curve on clear signals, the crew observes a vehicle in the right-of-way that appears to be fouling the main track. What action is required? **34.2.10**

MAXIMUM BRAKING EFFORT
E BRAKE IF NECESSARY

40. The vehicle was not fouling the track and was not struck. After stopping, is the crew required to notify the dispatcher of the event? **34.2.10**

YES

41. The crew discusses whether an inspection of the train will be required before departing. The train is not a Key Train, weight is 9500 tons, and speed at the time of the event was 25 MPH. Will an inspection be required if there was no severe slack action while stopping and brake pipe pressure is immediately restored to the rear when recovering the air? **6.23**

NO SPEED WAS ABOVE 20MPH.

42. Is the engineer permitted to apply power to hold the train stationary on the descending grade to reduce the total number of hand brakes required while recharging the train line? **34.3.2**

YES PROVIDED ENGINEER ISOLATES
ANY DC LOCOMOTIVES PRIOR

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43. Based on the chart and locomotive information shown, how many tons can the engineer hold on a 1.4% grade if applying power in throttle position 3? **34.3.2**

	Tons Held on Listed Maximum % Grade									
	<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	2.25-2.5
Tons Held Using Ind. Brake *	52-1	47-1	43-0	39-9	37-1	34-3	31-4	28-5	25-6	22-7
Tons Held in Throttle Position 3 **	11027	7557	56-0	2835	2109	1725	1451	12-5	1095	957
Tons Held in Throttle Position 4 **	15058	72-0	44-0	34-0	29-1	25-0	21-6	17-1	14-0	10-0
Tons Held in Throttle Position 5 **	19045	9825	62-0	44-0	34-0	30-0	26-0	22-0	18-0	14-0

```

LOCOMOTIVE  BT      SO      AO
INIT  NUMB  DIRCT  DIRCT  D  DO  MODEL-#  DP
UP      7481  CB789          F  AO  C46ACOTE  HO
UP      6942  CB789          F  DO  SD70M    H
UP      6064  DT386          F  AO  C44ACOTE  H
UP      6914  CB789          B  AO  C44ADOCOR  RO
    
```

6403 TONS (1228 TONS HELD BY DC LOCO)
1725 TONS HELD BY AC LOCO

44. While applying power to hold a train when recharging on a grade, what is the correct position for the brake handles? **34.3.2**

INDEPENDENT SET & APPLIED
AUTO RELEASED

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45. Using the securement chart, a train weight of 9500 tons, and the amount of tonnage held while in throttle position 3 on a 1.4% grade (calculated in the previous question), will any hand brakes be required before the engineer applies power to hold the train? **34.3.2, 32.1.1**

Securement Chart – When Not Practical to Verify Required Hand Brakes by Release of Air Brakes													
Tons	Number of Applied Hand Brakes Required												
	Grade (%)												
	<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	1	1	1	1	1	1	1	1	1	1	1	1	1
1,000-1,999	2	2	2	2	2	2	2	2	2	2	2	2	2
2,000-2,999	2	2	2	2	2	2	2	2	2	2	2	2	2
3,000-3,999	2	2	2	2	2	2	2	2	2	2	2	2	2
4,000-4,999	2	2	2	2	2	2	2	2	2	2	2	2	2
5,000-5,999	2	2	2	2	2	2	2	2	2	2	2	2	2
6,000-6,999	2	2	2	2	2	2	2	2	2	2	2	2	2
7,000-7,999	2	2	2	2	2	2	2	2	2	2	2	2	2
8,000-8,999	2	2	2	2	2	2	2	2	2	2	2	2	2
9,000-9,999	2	2	2	2	2	2	2	2	2	2	2	2	2

APPLY 16 HAND BRAKES

46. After completing any required inspections, recharging the train, and making a sufficient brake pipe reduction to hold the train while releasing the hand brakes, the crew notifies the dispatcher they are ready to depart. How must the train proceed? (The previous signal was Clear) **9.9**

RESTRICTED SPEED UNTIL THE NEXT SIGNAL IS VISIBLE - PTC INDICATES NEXT GOVERNING SIGNAL

Arriving at Los Angeles, the train stops at CP M345. The dispatcher notifies the crew they will complete the work event through the crossovers and that the MYO at Los Angeles will job brief with the crew at the wye track.

47. What securement procedure is required before detaching the lead consist for the work event? **32.1.1, 32.1.3**

PRIMARY SECUREMENT

After detaching the lead consist and clearing the control point, the dispatcher calls on the radio and advises the crew that both switches of the crossover at CP M345 do not show lined and locked for movement to the siding track and that they will need to hand operate both dual control switches at the crossover for their movement.

2023 Rules Training Study Guide

48. What must be included in the job briefing before the dispatcher can authorize the movement and give the crew permission to place the dual control switches in hand operation? **9.13, 9.13.2**

CLEAR UNDERSTANDING OF SWITCHES
CONTROL POINT - ROUTE - SWITCH (S) THAT MUST BE
OPERATED BY HAND

49. After receiving authority into the control point and permission to operate the dual control crossover switches by hand, the conductor proceeds to the first switch. What action is required after placing the switch in hand operation if it is already lined for the intended route? **9.13.1**

OPERATE HAND THROW LEVER & SWITCH POINTS ARE
SEEN TO MOVE. LINE SWITCH & RETURN TO POWER.

50. After complying with any required action at the first crossover switch, will the conductor be required to place the second crossover switch in hand operation and line it for crossover movement before initiating movement through the crossover? **8.12**

YES - MAKE SURE SWITCH IS LINED FOR YOUR
ROUTE BEFORE INITIATING MOVEMENT

After complying with any required actions, the crew operates northward on the siding track and stops at the hand operated switch for the south leg of the wye. The MYO at Los Angeles job briefs with the crew and tells them their pick-up consists of two blocks of cars. The block of 10 cars on the south wye track is from the local job and is not pre-tested, and the second block of 15 cars on the north end of the siding track was set out from a previous train 8 hours ago.

The crew job briefs regarding the work event. The block of 10 box cars from the Local contains cars that weigh less than 45 tons, and the total weight is 500 tons. The block of 15 hopper cars from the previous train are all loads weighing more than 100 tons and the total weight is 2100 tons. None of the cars contain hazardous materials.

51. Will the crew be required to perform an Initial Terminal Air Brake Test on the entire train if both blocks of cars are added to the train? **30.3.1**

NO - TRAIN WILL NOT REQUIRE A CLASS IF
CARS ARE ADDED AS SOLID BLOCK

52. How must the two blocks of cars be assembled for the pick-up to comply with train make-up requirements? (The train is operating on L territory and trailing tonnage will be 12,100 tons after the work event) **SSI Item 5**

HOPPER CARS FIRST
IS LOADS ON HEAD END

2023 Rules Training Study Guide

53. What air brake tests and inspections, if any, will be required for the block of cars on the wye?
30.3.1, 1.33

INITIAL TERMINAL
CLACKS 1

54. What air brake tests and inspections, if any, will be required for the block of cars set out by the previous train? **30.3.1, 1.33**

HOPPERS WERE GOOD - 8 HOURS
CLACKS 1

55. Will the crew be required to assemble the two blocks of cars into one block before performing any required air brake tests and inspections? **30.3.1, 30.7.1, 1.33**

NO

56. What are the piston travel requirements on a body mounted car brake during an Initial Terminal Air Brake Test, and if the car's brakes release prior to the signal being given to release the brakes, can the car be retested? **30.11.1**

10-9 INCHES
RETEST ONLY & REMAIN APPLIED FOR 3 MINUTES

57. After completing any required air tests and inspections on the pick-up, the crew proceeds southward to CP M345. The conductor detrains at the control point. After clearing the crossovers, the conductor lines the crossover switches for straight movement. Is any additional authority needed before shoving northward back to the train? **9.13.1, 9.13.2**

NO

58. When can the power be restored to the dual control crossover switches, and is the crew required to notify the dispatcher once power has been restored? **9.13, 9.13.1**

AT LEAST ONE CAR PASSES OVER SWITCH
NOTIFY DISPATCHER

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59. Once the train is back together, what air brake tests and inspections, if any, will be required by the crew before departing Los Angeles? **30.7.1, 33.1.2**

CLASS B - GET & RELEASE

60. Will the engineer be required to update the PTC train consist data before departing? **18.6**

YES

61. After completing any required air brake tests and inspections, the crew notifies the dispatcher they are ready to proceed. The head end of the train is between CP M345 and CP M344. How must the train proceed? **9.10**

UNTIL LEADING WHEELS PASS SIGNAL
RUNNING AT RESTRICTED SPEED CP M344

62. Based on the locomotive information and a train weight of 12,100 tons, what is the TPDBA (Tons Per Equivalent Dynamic Brake Axle) for the train if the dynamic brakes are cut-out on the SD70M locomotive? **ABTH Glossary**

LOCOMOTIVE	FV	SC	AC	EA	EA	AC	FVCAHEDDABD	LEN	WGT				
INIT	NUMB	CIRCT	CIRCT	D	DC	WHEEL-#	FW	IB	AX	DCACOMSPRTTB	DE	FT	IN
UP	7430	08789		F	AC	046AC0TE	12.1	9.8	6	0YVYVFBIG4A	HO	74	210
UP	8942	08789		F	DC	SD70M	10.4	8.6	6	0YVYV.B.33E	H	73	199
UP	8064	08789		F	AC	046AC0TE	12.1	9.8	6	0YVYVFBIG3A	H	74	208
UP	6914	08789		S	AC	046AC0CA	12.1	9.8	6	0YVYVFBIG3A	RO	76	210

$12299 \div 29.4 = 418.3$
ROUND UP TO 419

63. What is the maximum speed of the train on the descending grade between Berkeley and Corvallis? (The Tons Per Operative Brake (TPOB) of the train is 105.) **Timetable, 6.31**

20 MPH

64. What is the maximum speed of the train as the head end of the train passes MP 332.5? **SSI Item 8, Timetable**

15 MPH CRESTING THE GRADE

2023 Rules Training Study Guide

65. If the dynamic brakes failed on the lead unit, could the train continue to operate on the descending grade? **31.5.1**

YES - ABILITY TO CONTROL DYNAMICS &
A WORKING ACCELEROMETER

66. If the dynamic brakes failed on the lead unit, is the crew required to recalculate the TPDBA (Tons Per Equivalent Dynamic Brake Axle) for the train and maximum descending grade speed?
ABTH Glossary

YES

67. Approaching Stanford, the engineer notices the flow is increasing on the AFM indicator and the accelerometer indicates the speed is increasing. The speed increases and is approaching 5 MPH over their maximum speed. What action is required? **SSI Item 8**

EMERGENCY APPLICATION - STOP MOVEMENT USING
EMERGENCY BRAKE APP.

68. The engineer immediately stops the train. What action is now required? **SSI Item 8**

1. FULLY APPLY INDEPENDENT. 2. DO NOT MOVE TRAIN UNTIL
NOTIFY DISPATCH - APPLY HANDBRAKES TO PREVENT
MOVEMENT C. AUTHORIZED.

69. If an emergency application is initiated by a crew member, due to speed approaching or reaching 5 MPH above maximum authorized speed while operating on Heavy or Mountain Grade territory, is the engineer permitted to apply power to hold the train stationary on the descending grade to reduce the total number of hand brakes required while recharging the train line? **SSI Item 8**

NO

After complying with any required action(s), the train is ready to depart. A DSLE (Designated Supervisor of Locomotive Engineers) has debriefed the crew regarding the emergency application of the train air brakes.

2023 Rules Training Study Guide

70. Before departing, the DSLE discusses the use of retainers with the crew. What are the requirements regarding use of retainers? **34.5.5**

RETAINING VALVE SET IN HP ON ENTIRE TRAIN
DO NOT EXCEED 15 MPH. FREIGHT CAR BRAKE CYLINDER
NOT RETAINED UNTIL BRAKE PIPE REDUCTION OFFICIARY
IS MADE & RELEASED.

BOTH ANSWERS

71. The train passes an Approach indication at CP M323 and the crew observes a Stop indication at CP M321, Corvallis. A member of the outbound crew calls the train and inquires how the supplies are in the cab. How should the crew on the train respond? **1.47.1**

OUT OF TERRITORY, LIMITED RADIO COMMUNICATION

A Local crew is called on duty at Sunflower Yard on the Orange Subdivision. After building their train at Sunflower, the crew will spot Orange and Wheat industries on the Sessums Industrial Lead. The crew will then operate light power eastward to the siding track at Morgantown, where they will pick up cars set out by a previous train and take those cars to Bedlam where they will tie up for the day.

The Local crew is performing a job briefing when the Yard Controller calls on the crew room phone and advises the crew that their power is in the engine spur, the rear portion of their train is in departure track 4, and the head portion will need to be switched out of Bowl track 6.

72. The engineer on the Local notices that the brakeperson is wearing an electronic device (Apple Watch Type device). Can the brakeperson wear this device while on duty? **2.21**

NO

73. The Local crew rides in the Yard van out to the engine spur. The speed limit in the yard is 5 MPH. Are all occupants required to wear seatbelts? **74.5**

YES - ALL OCCUPANTS

74. The two locomotives in the engine spur are MU'd, shut down and blue flagged. Can the engineer start the locomotives while they are blue flagged? **5.13**

NO - UNLESS INSTRUCTED BY PERSON IN CHARGE

2023 Rules Training Study Guide

75. The mechanical employee completes the daily inspection and removes the blue flags from the locomotives and the track. When can the engineer release the hand brakes on the locomotives? **31.1**

YES - ENSURE IT IS CHARTED.
WHEN ENGINEER TAKES CONTROL OF LOCOMOTIVE &
EVERYONE IS CLEAR.

76. The engineer changes operating ends and sets up the east locomotive as the controlling unit. Will the engineer be required to perform an Electronic Alertness Control Device Test (Alertness Test) before departing Sunflower Yard? **31.8.4.3**

YES

77. How does the engineer verify that the locomotive brakes are operative? **31.8.4, 31.8.4.1**

STAND TEST, RUN TEST
BRAKES APPLY & RELEASE

78. The crew stops on the Bowl lead at the switch for Bowl track 6. Is any protection required before lining the switch to Bowl track 6 and entering the track during humping operations? **7.13**

JOB BRIEF WITH REMOTE CREW OR YARD MASTER
MAKE SURE TO ASK EMPLOYEE IN CHARGE TO LOCK OUT
SWITCH WHERE THEY WILL BE WORKING

79. After receiving any required protection, what actions, if any, are required before operating the switch? **8.2, 82.3**

LINED FOR INTENDED ROUTE, POINT TEST, LOCK &
SECURE THE SWITCH ALL ABOUT

80. While coupling bowl track 6, the conductor discovers a misaligned drawbar. Will the conductor need to establish "Red Zone Protection" to adjust the drawbar? **81.5.4**

YES - BETWEEN EQUIPMENT RED ZONE

81. What other requirements, if any, need to be met before making the coupler adjustment to the car while in Bowl track 6? **81.2.1, 81.13.1**

100 FOOT SEPARATION - LOOK BOTH WAYS, WATCH FOOTING
WALK STRAIGHT ACROSS TRACKS, STEP OVER RAILS,
PRODS, SWITCHES

2023 Rules Training Study Guide

82. After coupling the track, the crew pulls the track and will set the rear 6 cars to the lead. The conductor is riding the trailing end of the rear car which is a tank car equipped with one vertical hand hold. Can the conductor get on or off the car while it is moving? **81.4.2, 81.7**

NO
AS WEATHER PERMITS, NO FASTER THAN 4 MPH

83. After setting the rear 6 cars to the lead, the crew will immediately shove the remainder of the cars back into track 6. Will point protection be required when shoving track 6? **6.5**

NO AS LONG AS TRACK COMPLETELY EMPTY

84. The crew pulls down to the departure yard with the head portion. The brakeperson will drop off to be in position to line the switch for track 4 once the movement clears the switch. What precautions are required when getting off the moving equipment? **81.4.2**

MUST NOT EXCEED WALKING SPEED, NO MORE THAN 4 MPH.

85. The brakeperson will be riding the point of the movement while protecting the shoving movement. Can the brakeperson ride the car to a coupling? **81.13**

NO

86. A Utility employee contacts the crew and tells them that track 4 was worked earlier and that all air hoses are coupled. Was any protection required while the Utility employee coupled air hoses on track 4? **5.13.1**

YES - BLUE FLAG PROTECTION

A, B, C
ALL
DEPARTING
OR SITUATION

87. What air brake tests and inspections, if any, will be required before the Local departs Sunflower Yard and proceeds to the Sessums Industrial Lead? (Less than 20 miles to the customer tracks.) **1.33, 30.5.1**

TRANSFER TEST
TRANSFER LESS THAN 20 MILES
SAFETY INSPECTION

2023 Rules Training Study Guide

88. The conductor will use a handheld gauge to complete any required air brake tests. Does the accuracy of the gauge need to be verified, and if so, how is this accomplished? **30.2.6.1**

CHANGE TO 90 PSI, CHECK GAUGE ON LOCOMOTIVE
COMPARE WITH ENGINE BRAKE THE GAUGE
3 PSI DIFFERENCE MUST BE CALIBRATED

After completing any required air brake tests and inspections, the crew contacts the Yard Controller and receives permission to depart on the east departure lead to the signal at CP W234. The Yard Controller instructs the crew to leave the derail on the east end of the lead in the non-derailing position when departing, as there will be an inbound movement later in the day.

89. How should the crew respond to the instructions from the Yard Controller regarding the derail? **1.4.1**

GOOD FAITH CHALLENGE

90. What rules are covered by "Good Faith Challenge"? **1.4.1**

MOVING MOVEMENTS
LEAVING EQUIPMENT IN FOUL OF ADJACENT TRACK
HANDLING OF HAND OPERATED SWITCHES OR FIXED DERAILS

91. The Local arrives at the main track switch for the Sessums Industrial Lead. After lining the switch for movement to the lead, and placing the derail in the non-derailing position, can the crew leave the main track switch open to maintain their authority while spotting customers on the industrial lead? **8.3**

NO TRACK & TIME OR ATTENDED BY CREW MEMBER

92. After arriving at Orange Industries, the engineer stops the movement and the conductor and brakeperson detrain. What precautions must be observed when getting off the standing equipment? **81.4.1**

ONLY WHEN IT CAN BE DONE IN A SAFE MANNER
TALE EQUIPMENT, 4 POINT CONTACT

93. Orange Industries is protected by a gate. What is required before operating through the gate opening? **7.10**

STOP MOVEMENT
MAKE SURE GATES ARE COMPLETELY OPEN & SECURE
DO NOT RIDE ON SIDE OF CAR

2023 Rules Training Study Guide

94. After securing the rear portion, the conductor cuts away with the head 5 cars. Orange Industries is a spur track. What are the requirements when shoving into Orange Industries? 7.12

STOP 150 FEET FROM END OF TRACK. APPLY HANDBRAKES,
TO CONTROL GLACK. STOP SHOWN AT BOUNDARY

95. After returning with the power to the cars on the lead, what air brake tests, if any, will be required before departing Orange Industry and proceeding to Wheat industry? 30.6.1, 30.10.1

RESTORE BRAKE PIPE PRESSURE
BRAKES ON REAR CAR APPLY & RELEASE FROM A
20 PSI BRAKE PIPE REDUCTION

96. Approaching Wheat Industry, the Local is approaching a road crossing at grade equipped with automatic warning devices. What action(s) are required before fouling the crossing? 6.32.2

PREPARED TO STOP
ENSURE THEY ARE WORKING
MAKE SURE GATES ARE LOWERED

97. Arriving at Wheat Industry, the crew pulls through the runaround and secures the remaining cars. The customer has requested they leave one of the cars at the spot mark for unloading. What securement procedure should the crew use when leaving the single car at the spot mark in the runaround track? (Derail protected) 32.1.4, 32.1.1

SINGLE CAR SECURED

98. After securing the cars at Wheat Industry, the Local will operate light power back to the main track switch. Will the engineer be required to change operating ends before proceeding to the main track switch? 31.6.1

YES EXCEEDS 2 MILES

99. What authority is needed to occupy the main track off the Sessums Industrial Lead at MP 221.3 and proceed eastward? 6.3, 10.1

GET DISPATCHER FOR AUTHORITY

CTC

After receiving the proper authority to enter the main track and operating the switch, the signal governing movement to the main track continues to display a stop indication. After the required 10 minute wait, the local enters the main track and restores the main track switch. The engineer changes operating ends and the crew proceeds eastward.

2023 Rules Training Study Guide

100. Operating eastward on the main track, how must the Local approach all road crossings at grade equipped with automatic warning devices? (Crew is operating light power with two 6 axle locomotives.) **6.32.2**

PREPARED TO STOP
MAKE SURE GATES ARE DOWN
LIGHT POWER

101. Approaching the west end of Texas siding, CP W216, the crew has initiated a "Cab Red Zone" and is preparing to stop. Why? **1.47.1, 9.23.1**

FORM C #3114 SIGNAL SUSPENSION

102. What actions, if any, are required by the crew before passing CP W216? **SSI Item 10-B, 9.23.1**

ALL TRAINS MUST STOP - AUTHORITY FROM EIC
SOFT CUT OUT

103. What is the maximum speed of the Local (light power) while operating within the signal suspension limits? **6.31, 9.23.1, 18.12**

~~MAINTAIN CAB RED ZONE - BE PREPARED TO STOP~~
40 MPH WITHIN PTC REQUIREMENTS

104. Operating eastward, how should the crew approach the signal at CP W206? **9.23.1**

MAINTAIN CAB RED ZONE - BE PREPARED TO STOP
AFFECTED TRACKS, LOCATION OF FLAGMEN POSITION OF
DUAL CONTROL SWITCHES, TRACK WARRANTS TO AUTHORIZE
MOVEMENT
CRZ

105. The signal at CP W206 is displaying an Approach indication. What action is required by the engineer on the Local before passing the signal at CP W206? **SSI Item 10-B, 18.7**

15 MPH TO CUT IN PTC

106. The next signal at CP W204 is displaying a Stop indication. The Local stops at the signal and calls the dispatcher for TWC authority between CP W204 and MP 180.5. Using Track Warrant #86-75, how far may the Local proceed? **14.2, 14.3**

FIRST NAMED POINT - LAST NAMED POINT
DON'T FOUL SWITCH

CP W204
MP 180.5

2023 Rules Training Study Guide

107. After verifying the authority number, designated limits, and any conditions of authority with the train dispatcher, the signal at CP W204 changes to Clear and the Local departs eastward. What action, if any, is required by the crew before passing the east switch of Waco? **6.3, 14.2**

JOINT

Box 10

108. At what speed must the Local operate between the east switch of Waco and the west switch of Ames? **6.3, 6.31, 14.2**

JOINT LIMITS

RESTRICTED SPEED BETWEEN 180-204

109. Operating eastward, the crew observes an Approach indication at the signal at MP 180.5. What action(s), if any, are required by the crew before passing MP 180.5? **6.13, SSI Item 12, Timetable**

MAKE 3 ATTEMPTS FOR ANYONE WITH TBP
TALK TO FOREMAN

110. While operating on Clear signals within Yard Limits, the dispatcher calls the crew and communicates that a Track Warrant has been delivered to the onboard system. What actions are required by the crew, if any, before acting on the transmitted authority? **SSI Item 10B, 18.11**

COPY MANDATORY DIRECTIVE ON PTC SCREEN
VERIFY DESIGNATED LIMITS, ETC.

ALL ABOVE

111. Using track warrant 51-50, how far may the Local proceed? **14.2**

CLEAR MAIN 400 FEET FROM FOULING POINT

112. Approaching Red River, what action is required after the Local passes the "Switch Control" sign in advance of the west end of Red River siding? **8.19.1**

RADIO CONTROLLED SWITCH

BOTH ANSWER

113. After complying with any required action, the crew does not receive radio confirmation of proper switch alignment. What action, if any, is required? **8.19.1, 9.13.1**

PREPARED TO STOP - NOTIFY DISPATCH

2023 Rules Training Study Guide

114. The crew observes the switch for the siding track, and it appears to be lined for movement to the siding, however, the switch point indicator for the siding switch is dark. What action is required? **8.19.1, 9.13.1**

NOTIFY DISPATCHER
ALL OF THE ABOVE

115. After stopping in the siding track, the crew job briefs and releases Track Warrant 51-50. The dispatcher then issues Track Warrant 63-28. How must the crew determine that the UP 5309 has passed their location? **6.2.1**

DIRECT COMMUNICATION OR DISPATCH INFO

116. The crew observes a westward train approaching Red River. Which side of the train must the crew member who will perform the roll by inspection detrain, and from which side of the train must the inspection be made? **6.29.1**

FIELD SIDE - SIDE AWAY FROM THE ADJACENT MAIN TRACK

After the UP 5309 west passes Red River, the crew departs eastward. The signal at the west end of Morgantown siding is displaying a Restricting indication and the crew enters the siding track and couples to the cars previously secured on siding track. There are 10 loaded covered hopper cars on the west end coupled to 40 loaded ethanol cars (Class 3 Flammable Liquid tank cars). The work order indicates the crew will need to pick-up all the covered hoppers and 10 of the ethanol tank cars and take the cars to Bedlam. The cars were previously secured on the siding track 3 days ago.

117. What information was the previous crew required to provide to the dispatcher when securing the loaded ethanol tank cars on the siding track at Morgantown? **SSI Item 10L**

NUMBER OF BRAKES APPLIED, TONNAGE, LENGTH, TYPE OF EQUIPMENT, GRADE & CURVATURE OF TRACK, WEATHER CONDITIONS, PRIMARY OR SECONDARY TYPE OF SECUREMENTS

118. Will the crew be required to perform a securement test on the remaining cars at Morgantown before departing with the west 20 cars, and if so, will they be required to provide the dispatcher with the securement information? **32.1.1, SSI Item 10L**

YES KEY TRAIN SECUREMENTS
ALL ETHANOL CARS

2023 Rules Training Study Guide

119. What air brake test(s) and inspections are required, if any, before departing Morgantown and taking the cars to Bedlam Yard? **30.3.1, 30.10.1, 1.33, 8620 III**

CLASS 1, SAFETY TEST

120. After separating the west 20 cars from the remaining cars on the siding track at least 100 feet and establishing "Red Zone Protection", the conductor installs the EOT device. After arming the device, what is required to test the EOT device? **32.9.2, 32.9.3, 32.9.4**

~~LAST CAR AT THE END OF THE SIDING~~
CLOSE ANGLE COCK AHEAD OF REAR CAR
ENGINEER INITIATES EOT EMERGENCY

121. After receiving any needed main track authority, the leaving signal at the west end of Morgantown siding does not clear and continues to display a Stop indication. What action, if any, is required before the Local can pass this signal? **9.12.2**

AUTHORITY FROM CONTROL OPERATOR
TRAIN MUST MOVE AT RESTRICTED SPEED

122. The Local crew properly complies with the Stop indication at West Morgantown and is now proceeding westward at Restricted Speed. When can they resume maximum authorized speed?

9.11

LEADING WHEELS PASS CTR 150

123. As the Local passes over the (#) detector at MP 158.1, it announces a defect tone and message for a Hot Box on axle 88 from head of train. What action(s), if any, are required by the crew? **SSI Item 13, 13.2**

REDUCE SPEED, STOP TRAIN AFTER CLEAR
GET ENTIRE TRAIN THROUGH.

124. After stopping, can the train be moved to assist with the inspection if the train is operating on rail with concrete ties? **SSI Item 13, 13.2**

NO - CONCRETE TIES NO GO

2023 Rules Training Study Guide

125. The conductor inspects the car for a Hot Journal but does not find anything wrong with the car. The conductor wants to shove the train back instead of walking back to the head end. Is this move permissible, and if so, how could it be performed? **6.6**

YES - TALK TO DISPATCHER

PERMISSION FOR REVERSE MOVE

MUST NOT EXCEED LIMIT OF TRAINS AUTHORITY, EXCEED THE TRAINS LENGTH, NOT ENTER A PUBLIC CROSSING.

126. Once the conductor is back on the head end, the Local departs westward. How should the crew proceed? **Timetable**

MAX SPEED (AUTHORIZED)

127. While operating at 40 MPH, the engineer on the Local notices the HEU displays a "FR NOCOM" message. What action is required? **32.9.6**

NO ACTION REQUIRED

128. As the Local passes over the (#)H+ detector at MP 171.7, it announces a defect tone and message for a Hot Box on the same axle identified by the previous Hot Box detector. What action(s), if any, are required by the crew? **SSI Item 13, 13.1, 13.2**

STOP TRAIN IMMEDIATELY TO INSPECT & GET OUT

129. After stopping, the conductor inspects the car a second time for a Hot Journal but does not find anything wrong with the car. What action(s), if any, are required by the crew? **SSI Item 13, 13.1**

GET OUT CAR IF SAFE TO MOVE

130. Before proceeding, the crew contacts the dispatcher regarding the Hot Box detector defect inspection results and the dispatcher instructs the crew to set the car out at Bedlam Yard. At what speed must the crew operate to the location where the car will be set out? **SSI Item 13, 13.1**

10 MPH OR DISPATCHER WILL INSTRUCT SPEED

2023 Rules Training Study Guide

131. The Local crew is approaching the crossing at MP 174.5 and the crew observes the automatic warning devices at the crossing working properly. What action(s), if any, are required by the crew? **6.32.2**

TRAIN MUST STOP BEFORE FOULING
CREWMEMBER MUST BE ON GROUND
XCF CROSSING GUARD

132. Approaching Bedlam Yard, the Yard Controller contacts the crew and instructs them to secure their train in track 3 in the North Bedlam Yard. How should the crew respond to these instructions? **6.12, Timetable**

TRAINS ENTERING BEDLAM YARD MUST CONTACT YARDMASTER
FOR ZONE STATUS BEFORE ENTERING. FRA TRACK & YOU
HAVE PLACARDED CARS. NO MORE THAN 5 CARS.

133. The Yard Controller notifies the crew to secure their train in receiving track 2 in South Bedlam Yard and that YS22R has RCL Zone W activated. What action(s), if any, are required by the crew on the Local before the train can enter South Bedlam yard and operate on the west switching lead into receiving track 2? **6.7, Timetable**

CONTACT REMOTE OPERATOR FOR PERMISSION
TALK TO FOREMAN IN CHARGE TO GET DIRECTIONS.

134. While the Local crew shoves into receiving track 2, the YS22R crew is waiting in the clear in track 4. After the Local crew clears in track 2, what is required before the YS22R crew can go back to work in their RCL Zone? **6.7**

TALK TO YARDMASTER & JOB BRIEF WITH LOCAL CREW

135. After shoving in the clear in track 2, the Local crew secures the train. What securement procedure should the crew use in the receiving yard at Bedlam. **32.1.1**

PRIMARY SECUREMENT PROCEDURE

136. The sun was setting as the Local arrived at Bedlam. Will the brakeperson be required to carry a light while securing the train if the receiving yard is equipped with operative overhead lighting?

80.6

YES

2023 Rules Training Study Guide

137. What precautions should the brakeperson observe if using a brake stick to secure the hand brakes on the cars? **81.11.3**

CAR MUST BE STOPPED
WORK FROM FIELD SIDE
PROPER FOOTING - KEEP HANDLE CLEAR OF ADJACENT TRACK

138. After securing the cars, the brakeperson releases "Red Zone Protection" and walks around the end of the train out to the south road. What is the minimum separation needed between the rear car of the train and the brakeperson? **81.2.2**

20 FEET

139. What precautions must the brakeperson observe before fouling, walking near, or crossing tracks when walking out to the south road? **81.2.1**

LOOK IN BOTH DIRECTIONS
GOOD FOOTING
WALK STRAIGHT ACROSS, STEP OVER RAIL, FROGS, SWITCHES

140. After arriving at the yard office, is it permissible for the engineer to tie-up the brakeperson using the brakeperson's User ID and password if the brakeperson has a function to attend and is running late? **1.27**

NO

