



Western Region

Illinois Division

Effective Sunday, June 13, 1993

12:01 A.M. Central Standard Time

Timetable Number

2

For The Government of Employees Only

EXPLANATION OF TRACK DIAGRAMS:

50 ft. cars.

† †	Automatic Block Signal Territory - Single Track
†† ††	Automatic Block Signal Territory - Double Track
<u> </u>	Traffic Control & Remote Control Territory - Single Track
 	Traffic Control & Remote Control Territory - Double Track
 	Traffic Control & Remote Control Territory - Triple Track
§ §	Non-Signaled Territory - Single Track
§§ §§	Non-Signaled Territory - Double Track
	Column designating other tracks in cars is based on

Lafayette District — WESTWARD

		yette	DISTRICT — MES	<i>-</i> • •	•	1110	
	scity of acks Sidings In Feet	M-LE PONT	STATIONS	SEE PAGE 1	- NT ERLOCK - NGS	SEE SPEC - NST.	M-LES FROM
Yard Yard	12800	D202.5 D204.5 D213.0 D218.5	Peru	††	 C	· · · · · · · · · · · · · · · · · · ·	202.5 204.5 213.0 218.5
10 	12400 8375 12700	D224.3 D232.1 D238.6 D243.8	Colburn		C :C :		224.3 232.1 238.6 243.8
		D247.4 D253.1 D255.4 D257.2 D257.7	Buck Creek East Yard Lafayette Lafayette Jct West Demun	†† 	С	\langle	247.4 253.1 255.4 257.2 257.7
5	12575 8725	D265.3 D276.8 D280.5 D284.9	West Point Attica Williamsport West Lebanon				265.3 276.8 280.5 284.9
84 10		D288.7 D294.2 D296.2 D300.4 D300.8	Marshfield	†† 	 C	·····	288.7 294.2 296.2 300.4 300.8
Yard 10	7020	D301.6 D303.8 D306.7 D313.3	Danville	†† †† ††			301.6 303.8 306.7 313.3
50	6375 16100	D321.5 D327.6 D332.2 D338.0 D342.5	Homer		 C		321.5 327.6 332.2 338.0 342.5
	7860	D345.6 D348.6 D353.3 D355.4 D357.5	Sloan				345.6 348.6 353.3 355.4 357.5
25 Yard		D359.4 D363.7 D372.9 D375.6	Milmine Cerro Gordo Brush Decatur (Wabic)	†† ††	 C	· · · · · · · · · · · · · · · · · · ·	359.4 363.7 372.9 375.6

Frankfort Branch — WESTWARD

	city of acks Sidings In Feet	M-LE POST	STATIONS	SEE PAGE 1	-ZHERLOCK-ZGS	### ORO## - ZG#	MILES FROM	FRANKFORT
Yard 44 Yard	7862	SP234.8 SP235.5 SP243.6 SP250.9 SP253.1	CR/CSXT Crossing Frankfort Yard Mulberry	\$ 69 G	A	\$	1	0.0 8.1 5.4 7.6
50		SP254.8 SP257.2 SP257.7	Altamont East Demun West Demun				2	9.3 1.7 2.2
Yard		SP257.2 SP257.7 SP258.0 SP259.1	East Demun Lafayette Jct CSXT Crossing Wabash River Br	§	C C	\$	2 2	1.7 2.2 2.5 3.6

Bloomington District — SOUTHWARD

	city of	M I L E		SEE PAGE	-NTERLOCK-ZGS	SECT-OX	M-LES FR
Other Tracks In Cars	Sidings In Feet	P O S T	STATIONS	9Ш 1	X-200	N I 3 G N 3 S S T.	M A
Yard		SP415.3 SP412.9 SP411.8 SP411.3	Peoria	യ യ യ യ			0.0 2.4 3.5 4.0
30	3882	SP410.6 SP403.3 SP397.1	Farmdale Crandali Deer Creek	9 69 69	A	· · · · · ·	5.5 12.0 18.2
10 50 Yard	3385	SP379.0 SP375.6 SP375.0 SP372.8	Yuton			\	21.1 25.4 29.9 35.0 35.3 39.7 40.6 42.0 46.4
5	3217	SP348.7	Ellsworth	99999	C		51.3 56.1 60.5 66.6 75.9
10	8353	C120.2 C125.1 C131.2	Osman] !	C	.	84.0 88.9 95.0
15 25	8836	C136.1 C140.0 C145.0 C153.0	Lodge	1		1	108.8

Brooklyn District - SOUTHWARD

	city of acks Sidings In Feet	M - LE POST	STATIONS	SEE PAGE 1	-NFERLOCK-ZG0	RR CROSS-NGS	MILES FROM
Yard		D375.6 D376.6 D379.2 D381.0	Decatur (Wabic) Mosser Knights B D Jct	=== + +	C 	♦	375.6 376.5 379.2 381.0
25	16690 14450	D395.3 D401.6 D412.4 D416.2 D422.2 D423.6	Stonington Taylorville Palmer Morrisonville Harvel Midway	† † † † †			395.3 401.6 412.4 416.2 422.2 423.6
15 25 8	12380	D425.5 D436.5 D437.8 D444.6 D447.1	Raymond	† † † † † †	A	\langle	425.5 436.5 437.8 444.6 447.1
20		D449.2 D452.1 D456.2 D460.5 D467.1	Staunton Decamp Worden Carpenter Edwardsville	† † † † †	A	\Q	449.2 452.1 456.2 460.5 467.1
30 50		D474.7 D478.5 D480.2 D480.4 VIA	Poag Jct. Mitchell 25th St. Granite City WR Tower SH Interlock	†† †† †† ††	C C	♦♦	469.1 474.7 478.5 480.2 480.4 482.2
Yard .		TRRA SL5.1	May Street	 §§ §§	• •	· · · · · ·	484.1 485.2

Madison Branch — EASTWARD

Other	city of acks	MILLE POST	STATIONS	SEE PAGE	-NHERLOCK-	RR CROSS-	MILES FROM	
Tracks In Cars	Sidings In Feet	*		1	NGS	-N S T.	M	
120		TS447.0	CNW Madison Yard	§	-		0.0	
		TS445.7 TS445.0	A&S	ş	A	♦	1.3 2.0	
	6645	TS441.3 TS436.6	Stallings	9			5.7	
45	- · · · · · ·	TS433.7	Leclaire	§			10.4	
· · .	5869	TS431.0	Edwardsville	8			16.0	
	6934	TS412.6	White	§			17.2 34.4	
<u></u> .	3510	TS406.8	Sorento	§ §	Ā	\ \display \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	40.2	
53 82	· · · · · ·	TS400.7 TS396.0	Donnellson	9	٠.		46.3	
		13,790.0	Concent	8	· ·		55.0	

Springfield/Hannibal District — WESTWARD

~p.,	9	о/пан	ilbai District —				
	city of acks	M L E P O S	STATIONS	SHE PAGE 1	一対丁田年上のひ又一方頃の	SECTOSS SEE SPECTOS S	MILES FROM
Tracks In Cars	Sidings In Feet	Ť			ZGS	G S S T.	,
Yard 10	8720	D375.0 D375.6 DH376.5 DH382.8 DH387.2	Decatur	_ =	 C	\langle	0.0 0.6 1.5 7.8 12.2
110 20		DH391.1 DH396.8	Illiopolis Lanesville	İ	 		16.1 21.8
2 110 20 Yard		DH402.9 DH411.2 DH412.9 DH414.0 DH414.7	Dawson		 C C	*	27.9 36.2 37.9 39.0 39.7
2 6 30 4	12222	DH416.2 DH430.6 DH423.5 DH437.4	Iles		C 	♦	41.2 55.6 48.5 62.4
60 Yard 55		DH443.0 DH447.9 DH457.9 DH465.4 DH469.5	Arnold		 	♦	68.0 72.9 82.9 90.4 94.5
20 25 2	12663	DH473.8 DH478.7 DH491.2 DH502.9	Valley City] []] [98.8 103.7 116.2 127.9
Yard	12720	DH515.0 H2.1 H4.2 H15.2 H22.3	East Hannibal Bridge Hannibal Outer Depot Oakwood Huntington Monroe City Clapper		c	\	139.1 139.4 140.0 142.1 144.2 155.2 162.3 170.6
20 30 15 3 5 Yard	12720	H39.5 H43.9 H51.7	Goss				179.5 183.9 191.7 197.7 203.1 208.5 209.7

Meredosia Branch — NORTHWARD

	city of acks	2- mr-≤	CTATIONS	SHE PAGE	-NHELIOCK	SEE SPEC	MILES FROM	日上リドドの
Other Tracks In Cars	Sidings In Feet	O S T	STATIONS	1	Ž- NGS	N N 3 G S S T.	OM	
Yard Yard		M467.0 M470.8	Bluffs	§ §			0. 3.	

St. Louis District — WESTWARD

Other Tracks In Care	scity of acks Sidings In Feet	MILE POST	STATIONS	SEE PAGE 1	-NTERLOCK-ZGS	SEE SPEC - NST.	MILES FROM
Yard 29 		SL5.1 SL7.9 SL8.3	Luther Jennings McLaran		 		0.0 2.8 3.2
Yard Yard 83 15 10	7200	\$12.1 \$14.5 \$16.9 \$23.0 \$32.3 \$36.4	Ferguson				5.6 8.0 10.4 16.5 25.8 29.9
25 102	14885	\$44.0 \$46.7 \$53.9 \$59.2	Wentzville Siding . Wentzville Wright City Truesdale	† †	: :		37.5 40.2 46.4 51.7
10 20 12 25	8976	\$65.7 \$70.2 \$75.3 \$78.8	Pendleton Jonesburg High Hill New Florence	† † †			58.2 62.7 67.8 71.3
Yard 10 Yard	6470 8690	\$84.2 \$92.8 \$96.6 \$104.0 \$110.2	Montgomery Wellsville Siding Martinsburg Benton City Mexico	† † † †	 A	· · · · · · · · · · · · · · · · · · ·	76.7 85.3 89.1 96.4 102.6
	4720 10470	\$116.0 \$124.0 \$132.0	Thompson Siding . Centralia Sturgeon	† † † †	· -		108.4 116.4 124.4
20 35 Yard		\$136.8 \$142.3 \$146.4 \$148.1	Clark	† † † †	A	\Q	129.2 134.7 138.8 140.5

Alton District — SOUTHWARD (T&E Line)

	icity of acks	M-LE A		SEE PA	-ZTERLOCK	SEE CTION	MILESF
Other Tracks In Cars	Sidings In Feet	O S T	STATIONS	G E 1)K-2G0	S - 3 N S T	F N R O M
Yard		A0.0	Alton	§			0.0
Yard		A1.7	Federal	S			1.7
85	[A4.3	Reuters	§			4.3
<u> </u>		A4.4	IT Jct	ş			4.4
Yard		A5.0	Wood River	Š	C		5.0
Yard	<i></i> .	A8.0	Roxana	§			8.0

Alton District — SOUTHWARD (A&E Line)

						,
	AE21.8	IT Jct	8	I		4.4
175	AE19.5	Hartford	٦			6.7
	AE17.0	Chemetco	å۱			9.2
Yard	AE11.4	A.O. Smith Yd	8			14.8
	AE9.6	Hartford	Ş.	C	\Diamond	16.6
	AE9.3	Hoyt Jct	§	Γ.		_
	AE7.3	CNW Jct	§	١		18.9
Yard	AE6.6	CNW Madison Yard	§			19.6
	AE5.4	CP Jct	§		\Diamond	20.8
	AE4.9	Brooklyn	§		Ó	21.3
· · · · · · · · · ·	AE3.9	Bridge Jct	§	١, .		22.3

Kansas City District — WESTWARD

	Maiis	15 City	District 112				$\overline{}$
	city of acks Sidings In Feet	MILE POST	STATIONS	SEE PAGE 1	-NTERLOCK-ZGS	SEECTION 3 SEE SPECINST	M MOBERLY
Yard 10 55		\$148.1 \$148.5 \$154.9 \$161.3	Moberly Stamper Huntsville Clifton	† †† †† -			0.0 0.4 6.8 13.5
Yard 10 23 Yard	8320 8320 8220	\$169.1 \$176.1 \$178.0 \$180.0 \$187.1	Salisbury Keytesville Sido Dalton Brunswick				21.0 28.0 29.9 31.9 39.0
15 12	6306 7720 6920		Kelly				40.5 45.8 55.7 62.7
VIA ATSF		\$212.8 \$220.8 \$229.4 \$235.5 \$242.4	W.B. Jct				64.7 72.7 81.3 87.4 94.3
8 18 20	5034 6642 6530	\$250.6 \$253.6 \$256.6	Orrick				98.6 102.5 105.5 108.5 114.0
44 Yard		\$264.7 \$266.6 \$269.2 \$271.9 \$273.3	Randolph	- ====	0		116.5 118.5 121.1 124.4 125.2
VIA KCT		\$274.5 \$275.0 \$276.4 \$279.1	Ustick Tower Fifth Street			:	126.4 126.9 128.3 131.0

C.A. Jct. and A.Y. Tower via ATSF & KCT — WESTWARD

			WEGIWAND				
	sclty of acks Sidings in Feet	MILE POST	STATIONS	SEE PAGE 1	-ZHERLOCK-ZGG	SECTION 3	M MOBERLY
VIA	1470	418.2 421.7 426.7 434.0 436.5		======		*	94.3 97.8 102.8 110.0 112.6
ATSF - VIA		439.4 442.6 444.2 445.9 446.4	Courtney	=====	: :000	\$\$\$\$	115.4 118.6 120.3 122.0 122.4
KCT		446.4 1.3 3.9	KC Union Sta Santa Fe Jct A. Y. Tower (Argentine Yd.)		Ċ	\Q	127.2 128.6 130.8

Note: This page is provided as information only. Employees operating over this trackage must afford themselves a copy of the applicable timetable.

Moulton and Des Moines District — NORTHWARD

	city of acks	M L E			-N-MELOCK	SECT-OSS-	M M OBERLY
Other Tracks In Cars	Sidings In Feet	P O S T	STATIONS	GE 1	ンエーヹヷゆ	SI3 NST.	FEOM
Yard 23 40 20		SD150.5 SD154.7 SD164.2 SD170.7	Moberiy	. con con con con	: : : :		0.0 9.0 18.5 25.0
15 10 Yard 10		SD182.5 SD191.2 SD205.0 SD216.0	Atlanta	0000000			36.8 45.5 59.3 70.3
10 10 8 100		SD220.3 SD229.3 SD235.6 SD243.4	Queen City Glenwood Coatesville Moulton	9 9 9			74.6 83.6 89.9 97.7
10	4120	SD260.6 SD272.4 * 3.4 * 9.1 SD284.3	Moravia	an an an an an	A C 	\$	114.9 126.7 130.6 136.3 138.8
10 25		SD286.9 SD292.2 *23.1	Bussey	999999	 		141.4 146.7 149.8
15 60	4305 4305	*32.8 *42.9 SD320.0 SD324.3	Knoxville	n on on on on			159.8 170.2 175.9 180.2
57 Yard 20		SD335.2 SD335.3 SD337.3 DU338.4 DU340.2 DU354.7	McCoy		 C	8	190.4 190.5 194.2 195.3 196.1 210.6

Note: * Designates BN Mile Post on Joint Trackage between Albia and NW Jct. Joint Trackage under control of BN Dispatcher.

^{*} Single track extends across Missouri River Bridge.

Illinois Central-Chicago District — SOUTHWARD

Other Tracks	city of acks	M-LE POST	STATIONS	SEE PAGE 1	-Z-MR-JOCK-ZGW	## C#O##-Z##	M-LES FROM
In Cars	In Feet	0.0 2.2 8.1	Union Station South Wye Sw 67th Street				129.2 125.6 119.7
Yard		14.5 20.0 23.5 31.6	Kensington	====			113.3 107.8 104.3 96.2
	10519	34.2 40.5 46.7	Monee Peotone Manteno				93.6 87.3 81.1
Yard		49.4 55.3 55.9 60.3	Indian Oaks Jct Kankakee Jct Kankakee Otto	<u> </u>	С 	*	78.4 72.5 71.9 67.5
	11025	64.3 73.1 77.4 81.1	Chebanse Ashkum Danforth Gilman		 c		63.5 54.7 50.4 46.7

Illinois Central-Gilman District — SOUTHWARD

city of acks Sidings In Feet	HOOD MITE	STATIONS	SEE PAGE 1	一宮上田田二〇〇K一宮頃の	900T-07 9 900 9000-295 90 0099-299	MILES FROM
 10336	81.1 86.4 90.1 95.6 100.2	Thawville Roberts	† † † † †	C	\Q	67.4 62.1 58.4 52.9 48.3
 	106.0 110.0	Guthrie Gibson City	†		\Q	42.5 38.5

Note: This page provided as information only. Employees operating over trackage owned by the Illinois Central must afford themselves a copy of applicable timetable.

SPECIAL INSTRUCTIONS

1. STANDARD CLOCKS; BULLETIN BOOKS; TRAIN REGISTERS.

Location	Office	Stan- dard Clock	Bulle- tin Book	Train Reg- ister
Peru	Crew Room	X	X	1
Frankfort	Crew Rep. Room	\mathbf{X}	X	
Lafayette	East Yard	\mathbf{X}	X	
Lafayette	South Yard	\mathbf{X}	X	
Tilton	Yard Office	X	X	ļ.
Chicago	Calumet Yard Office	X	X	
Chicago	Dormitory Reg. Room	X	X	
Chicago	Eng. House Reg. Room	X	X	
Brush	Crew Report Room	X	X	
E. Decatur	Crew Report Room	X	X	ļ
Decatur	Engineer's Rep. Room	X	X	1
Taylorville	Crew Report Room	X	X	
Springfield	Yard Office	X	X	
Outer Depot	Yard Office	X	X	
Bloomington	Yard Office	X	X	1
E. Peoria	P&PU Yard Office		X	
E. Peoria	P&PU Dispatchers	X		
E. Peoria	Engineer's Rep. Room		X	
Federal	Yard Office	X	X	
Roxana	Yard Office	X	X	Ì
AO Smith Yd	Yard Office	X	X	
Wentzville Yd	Yard Office	X	X	
Berkeley	Yard Office	X	X	
Luther	Operators Office	X	X	
Luther	Humbolt Tower	. X	X)
Luther	Carrie Avenue	X	x	
Mexico	Yard Office	X	X	
Moberly	Yard Office	X	X	
Moberly	Dormitory	1	X	
N. Kansas City	Yard Office		X	1
N. Kansas City	Round House	. x	X	
Claycomo	Yard Office	1	x	
Des Moines	Yard Office	1	X	

2. CLEARANCE CARDS/DISPATCHER'S BULLETINS

- A. Clearance Cards
- **Not Applicable**

B. Dispatcher's Bulletins

Engineers and Conductors must receive a current Dispatcher's Bulletin addressed to their train before leaving their initial station. Engineers and Conductors must show Dispatcher's Bulletin to other members of their crew. All crew members must read and be familiar with the contents. Each crew member is jointly responsible in complying with the requirements contained therein.

When Dispatcher's Bulletins are received, all crew members, when reading bulletins, must be certain that the total number of items and messages indicated above the Dispatcher's initials corresponds with actual number of items and messages listed in the Bulletins. If any discrepancy is noted, the Dispatcher must immediately be contacted for further instructions.

Instructions contained in Dispatcher's Bulletins must be complied with on all trips during the tour of duty on which the Bulletins are received. When Engineer and/or Conductor are relieved before the completion of a trip, Dispatcher's Bulletins held must be delivered to the relieving Engineer and/or Conductor. Such bulletins must be compared by Engineer and Conductor before proceeding. When tying up on line, Dispatcher's Bulletins must be retained and inspected on next tour of duty. When this is done, Engineer or Conductor must contact Dispatcher prior to commencing next tour for further instructions, if any.

Each Dispatcher is responsible for the correctness of the contents of the Dispatcher's Bulletins issued on the territory. Each Dispatcher is responsible for seeing that Engineer and Conductor of originating train receives a copy at designated location. Additions to and deletions of items in Dispatcher's Bulletins must be made without delay and such changes must be promptly provided to concerned trains while enroute.

When Dispatcher is relieved, the Dispatcher must see that the relieving Dispatcher has a clear understanding of changes needed for updating of Dispatcher's Bulletins. Any additions or deletions that have not been provided to trains enroute must be clearly conveyed. This information must also be included in Dispatcher's written transfer, as provided in the Operating Rules.

Dispatcher's Bulletins will be issued at Peru, Lafayette, Frankfort, Tilton, Decatur, Calumet, Landers, Taylorville, A. O. Smith Yard, Luther, Berkeley, Wentzville, Springfield, Bridge, Outer Depot, Peoria, Moberly, Bloomington, Mexico, Des Moines, Claycomo and North Kansas City.

Originating trains operating over the Illinois Division must not depart any of the above locations until both the Engineer and Conductor have received a current Dispatcher's Bulletin that is addressed to their train.

3. RAILROAD CROSSING AT GRADE a. Interlocked

LOCATION		LINE/RR					
Lafayette Dist	rict						
Logansport	M.P. D218.5	CR	(Note 1)				
Clymers	M.P. D224.3	CR	(Note 1)				
Delphi	M.P. D238.6	CSXT	(Note 2)				
Lafayette Jct.	M.P. D257.2	NS Frankford Branch	(Note 3)				
Danville Jct.	M.P. D300.4	CSXT	(Note 4)				
CR Crossing	M.P. D300.8	CR	(Note 4)				
Tolono	M.P. D338.0	IC	(Note 5)				
Wabic	M.P. D375.6	IC					
Bloomington	District						
Crandall	M.P. SP402.8	TPW	(Note 6)				
Gibson City	M.P. SP339.4	IC					
Mansfield	M.P. C131.2	CR	(Note 1)				
Brooklyn Dist	rict						
Wabic	M.P. D375.6	IC					
Winston	M.P. D437.8	BN	(Note 7)				
DeCamp	M.P. D452.1	CNW	(Note 8)				
Mitchell	M.P. D474.7	UP					
WR Tower	M.P. D480.4	TRRA					
Madison Bran	Madison Branch						
A&S	M.P. TS445.7	A&S	(Note 9)				
Sorento	M.P. TS406.8	BN	(Note 10)				

3. RAILROAD CROSSING AT GRADE (Cont'd)

a. Interlocked (Cont'd)

LOCATION		LINE/RR	
Springfield Dis	strict		•
Wabic	M.P. D375.6	IC	
Starne	M.P. DH411.2	IC	
C&IM Crossing	M.P. DH412.9	C&IM	(Note 11)
Iles	M.P. DH416.2		
Jacksonville	M.P. DH447.4	BN	
Bridge	M.P. DH514.4	BN	
St. Louis Dist	rict		
May Street	M.P. SL3.0	TRRA	
Mexico	M.P. \$110.1	GWWR	(Note 12)
Clark	M.P. \$136.8	GWWR	(Note 13)
Alton District			
Wood River	M.P. AE5.0	SPCSL/CR	
St. Louis Terr	ninal Routes		
Willows	M.P. 2.8VC	CR/CSXT	
Coapman Yd.	M.P. 4.5W	(Southern Interlocking)	TRRA
Coapman Yd.	M.P. 6.3W	A&S	(Note 14)
Kansas City D	District		
Birmingham	M.P. S266.6	SOOL	
Ustick Tower	M.P. S275.4	BN	
Moulton and	Des Moines Dist	rict	
Moravia	M.P. SD260.0	SOOL	(Note 15)
Albia	M.P. SD272.4	BN	(Note 16)
Wabash Jct.	M.P. SD337.3	CNW	

Note 1. When home signal indicates Stop, in addition to receiving permission from the Control Station to proceed, train or engine will pass Home Signal but stop before fouling conflicting route and wait five (5) minutes before proceeding.

Note 2. The controlled interlocking located at Delphi, Indiana, M.P. D238.6, is controlled by NS Dispatcher located Decatur, Illinois. NS and CSXT trains encountering a Stop signal at this interlocking must immediately contact NS Dispatcher in Decatur and secure permission from NS Dispatcher to pass Stop signal and proceed through interlocking in accordance with Operating Rule 461.

Note 3. When Home Signal for Frankfort Branch (Former Peoria District) movements indicates Stop, in additon to securing permission from the Control Station, crew members must contact the dispatcher and secure permission to operate the "Trap" Button and the "Push" Button located in the box. Once permission is received, crew members must determine that no trains or engines are on or closely approaching the crossing from all other directions. Seeing no conflicting movement and "CSXT Sigs Red" light illuminated, depress NS "Trap" Button (for 2 seconds). If Home Signal displays proceed aspect, proceed by signal indication.

If Home Signal does not display proceed, depress NS "Push" button (for 2 seconds), then if Home Signal displays Proceed aspect, proceed by signal indication. If Home Signal does not display proceed signal indication and "NS Push Button" light along with "CSXT Sigs Red" light are illuminated, proceed at restricted speed. If "NS Push Button" light is dark or "CSXT Sigs Red" light is dark, pass Home Signal but stop before fouling CSXT Route. Wait 6 minutes and then proceed at restricted speed.

After obtaining permission to operate "Trap" Button and "Push" Button and "CSXT Sigs Red" light is dark, depress "Push" Button (for 2 seconds) and wait 6 minutes. If Home Signal displays Proceed aspect, proceed by signal indication.

If Home Signal does not display Proceed signal indication and "NS Push Button" and "CSXT Sigs Red" light are illuminated, proceed at Restricted Speed. If "NS Push Button" light or "CSXT Sigs Red" light are dark, pass Home Signal but stop before fouling CSXT Route. Wait 6 minutes and then proceed at Restricted Speed.

Crew members must close and lock box prior to departure.

Note 4. The CSXT Interlocking at Danville, Illinois, M.P. D300.4, and the Conrail Crossing at M.P. D300.8 is controlled by the CSXT Dispatcher in Jacksonville, Florida. The CSXT Dispatcher may be contacted by use of either the Motorola Spectra Clean Cab Radio or the Motorola MCX100 engine radio. Access the CSXT Dispatcher by the DTMF Code "4." Receive and transmit on channel "94."

If neither of these radios are available, contact either the Tilton Yard Office or the NS Lafayette District Dispatcher in Decatur, who will in turn contact the CSXT Dispatcher.

Note 5. The control interlocking located at Tolono, Illinois, M.P. D338.0, is controlled by IC Dispatcher, located Chicago, Illinois.

NS Trains encountering a Stop Signal at this interlocking must immediately contact NS Dispatcher in Decatur, Illinois. NS Dispatcher will secure permission from IC Dispatcher for NS Train to pass Stop Signal and proceed through interlocking in accordance with Rule 461.

Note 6. Movement must occupy track circuit within 90 feet of Home Signal.

Observe TPW Home Signals. If either is displaying a Proceed indication, no action should be taken until TPW movement has been completed or has stopped clear of crossing or until it is evident there is no TPW movement approaching.

If TPW Home Signals are at Stop, operate emergency switch to OFF position, pass Home Signal, but Stop before fouling TPW track. Return emergency switch to ON position and wait five (5) minutes clear of the crossing. If no conflicting movement is evident, proceed through interlocking limits at Restricted Speed.

If necessary to operate emergency release, notify Dispatcher as soon as possible.

Note 7. Ascertain that there is no conflicting movement.

Operate time release by pressing button in NS labeled box. Button must remain depressed for a minimum of 1 second.

In the event Home Signal does not display a Proceed indication after activating time release, wait 11 minutes and 30 seconds and then be governed by the following instructions:

- (a) If red indicator lamp lights which indicates signals on conflicting route are in stop position and no conflicting movement is in sight, movement may be made at Restricted Speed.
- (b) If red indicator lamp does not light, and no conflicting movement is in sight, train or engine will pass Home Signal and stop short of conflicting route, then wait 5 minutes and proceed at Restricted Speed.

When time release is activated, Train Dispatcher must be notified whether or not amber lamp lights.

When a train has passed the approach signal to the "BN" Interlocking at Winston, Illinois, M.P. D437.8, and is traveling at a speed which is less than 30 mph, the train must approach the Home Signal prepared to STOP.

This restriction applies to both northbound and southbound trains approaching the interlocking.

Note 8. Southbound main line moves will activate the approach circuit to the Decamp Interlocker when the movement passes M.P. D447.0. All southward trains should not pass M.P. D447.0 when meeting northbound train until southward leaving signal at south end of Karnes is set to stop. If leaving signal at south end of Karnes is at stop (red), southward movements may proceed to the leaving signal. Southbound moves on passing siding will activate the approach circuit to Decamp Interlocker when movement passes a point (yellow marker on ground) 500 feet north of leaving signal at south end of Karnes. All southward trains should not pass this point when meeting northward movement at Karnes, unless southward leaving signal is set to stop. After northward train has passed south end of Karnes, southward movement, if track warrant or Dispatcher Bulletin so indicates, may proceed southward; however, if southward movement is delayed or stopped before trains get within 100 feet (yellow marker on ground) of leaving signal, there is a time out section. A positive restart section will be activated when the movement is within 100 feet (yellow marker on ground) of leaving signal. If movement is not delayed or stopped during this 500 foot move, signal will not time out.

Be sure no other trains are on or approaching the crossing from other direction.

Operate manual emergency release. Push button in. Hold depressed for two (2) seconds before releasing. Then after three (3) minute interval, the signal required should display Proceed indication.

If the signal does not display Proceed indication after operating release and expiration of time interval:

- (a) If indicator lamp is lighted, trainman may give a hand signal to proceed if no other trains are on or closely approaching the crossing from other directions.
- (b) If indicator lamp is not lighted, trainman must place lighted fusees on Chicago & Northwestern track 100 feet in each direction, after which train will occupy track between home signal and crossing, but stop in clear of Chicago & Northwestern crossing. After standing three (3) minutes, if no other trains are on or closely approaching the crossing from other direction, train may proceed.

If it has been necessary to use the release or hand signals, trainman will notify dispatcher at first open office.

Be sure to lock the box when leaving.

Note 9. If signal displays Stop, crew member will depress "Push" Button mounted on mast of governing Home Signal and signal may clear.

If signal does not change its indication after expiration of 5 minutes and no conflicting movement is evident, train or engine will pass Home Signal, but must stop before fouling conflicting route, waiting 5 minutes before proceeding at Restricted Speed.

- Note 10. When Home Signal is indicating Stop, after Key Controller at Home Signal has been operated, and if no BN movements are on or seem to be approaching the crossing, trainmen will be governed by the following:
 - (a) Observe light type indicator; when lighted, BN home signals are indicating Stop. When not lighted, BN home signals may be displaying an indication to proceed and no action should be taken until all BN movement has been completed or it is known that BN movement has stopped or that no BN movement is approaching.
 - (b) Operate push button by depressing, hold for one (1) second, and then release. If indicator is lighted at the time the push button is operated, NS Home Signal should display an indication to proceed immediately. If the indicator is not lighted at the time the push button is operated, NS Home Signal should

- display an indication to proceed within four and one-half (4-1/2) minutes. In the event that home signal still fails to display an indication to proceed, trainmen must comply with Article (C).
- (c) If indicator flashes after push button has been operated, trainmen must place a lighted ten (10) minute red fusee on each side of the crossing along BN track and, if the indicator continues to flash, train or engine may proceed at Restricted Speed. When indicator fails to flash, trainmen must comply with Article (D).
- (d) If Home Signal fails to display an indication to proceed, or if indicator fails to flash after push button has been operated, trainmen must place a lighted ten (10) minute red fusee in center of crossing and immediately have movement occupy track section between Home Signal and BN crossing without fouling the BN track. Just before the fusee placed in center of crossing is consumed, trainmen must then place a lighted ten (10) minute red fusee on each side of crossing along BN track, and when it is ascertained that no BN movements are on or closely approaching the crossing, train or engine may proceed at Restricted Speed.

Note 11. Between the hours of 11PM and 7AM when the home signal indicates stop and you are unable to contact the C&IM dispatcher, you must contact NS dispatcher Decatur and comply with his instructions.

Note 12. Be sure no other trains are on or closely approaching the crossing.

Check position of switches. If switches are lined for GWWR route, operate emergency pushbutton. Hold depressed for two (2) seconds before releasing. Then after two (2) minutes, switches should be unlocked and can be lined for NS route. The required signal should display Proceed indication.

If switches are lined for NS route, if no conflicting movement is evident, train will pass Home Signal but stop before fouling conflicting route and wait two (2) minutes before proceeding at Restricted Speed. Notify dispatcher.

Be sure and lock box when leaving.

Note 13. Be sure no other trains are on or approaching the crossing from other direction. Operate manual emergency release. Turn knob to zero(0). Release knob, allowing points on dial to return to normal position. The signal required should display a Proceed indication.

In case proceed signal is not displayed, after operating release, if indicator lamp is lighted, trainman may give a hand signal to proceed if no other trains are on or closely approaching the crossing from other directions.

If indicator lamp is not lighted, train will occupy track between Home Signal and GWWR crossing but stop in clear of GWWR crossing. After standing five minutes, if no other trains are on or closely approaching the crossing, the train may proceed at Restricted Speed.

If it has been necessary to use the release or hand signals, trainman will notify the train dispatcher Decatur.

Lock the box when leaving.

Note 14. Instructions governing operation of release for signals 5 - 7 or 6 - 8:

If indicator is illuminated, operate push button labeled for signal to be used and hold 5 seconds before releasing.

If indicator light is not illuminated, wait 2 minutes and if no conflicting movement is evident, then operate push button and hold 5 seconds before releasing.

Note 15. Be certain no other trains are on or approaching the crossing from another direction.

Operate manual emergency release: Turn knob to zero, release knob, allowing point on dial to return to normal position, the signal required should display a proceed indication. If a Proceed signal is not displayed after operating the manual emergency release, and no conflicting movement is in sight, train or engine may pass Home Signal, stopping before fouling conflicting route. Then wait five (5) minutes and proceed at Restricted Speed.

If it has been necessary to use the release or hand signals, trainman will notify the Train Dispatcher Decatur.

Lock the box when leaving.

Note 16. Controlled by BN Dispatcher.

b. Not Interlocked

LOCATION		LINE/RR	
Frankfort Brai	nch		
Frankfort	M.P. SP234.8	CR	(Note 1)
Frankfort	M.P. SP234.8	CSXT	(Note 1)
Bloomington	District		
SPCSL Jct.	M.P. SP375.6	SPCSL	
Alton District			
CP Jct.	M.P. AE5.4	TRRA	(Note 2)
Brooklyn	M.P. AE4.9	NS (V&C Belt)	
St. Louis Ter	minal Routes		
Brooklyn (VC	Belt) M.P. 4.8VC	TRRA & NS	
	,	(A&E Line)	

Moulton/Des Moines District

Des Moines M.P. DU338.4 CNW Des Moines M.P. DU338.4 IAIS

Note 1. Aluminum boxes are installed at CR and CSXT crossings. At the CR crossing, the push buttons are labeled NS (Frankfort District), and Conrail. At the CSXT crossing, the push buttons are labeled NS and CSXT.

The push buttons are only to be used if signals indicate stop when signals at CR and CSXT crossings indicate proceed. And if the way is seen to be clear, movement may proceed over such crossings without stopping at a speed not exceeding 15 MPH. In addition, at CR crossing, crew is responsible for the position of the hand-throw switch where CERA and NS Frankfort District junction. Proceed indication at CR crossing does not indicate position of hand-throw switch. Proceed indication at CSXT crossing is for either NS or CERA using NS tracks.

When signals at CR and CSXT crossings indicate stop, movement must stop. Crew member will determine if conflicting route is clear, and if clear will operate push button. After an elapsed time of 45 seconds, signal should indicate proceed and movement may proceed only after determining that no conflicting movement is approaching. If a stop signal is still displayed, NS Operating Rule 462 will apply.

To prevent NS through trains from having to make two stops, push buttons labeled "NS" at either crossing will cause NS "proceed" indications at both crossings. NS crews must make sure both crossings are clear before operating either NS push button.

CERA will have to operate both push buttons entering and leaving Frankfort Yard: NS button on CR crossing and NS button on CSXT crossing.

Note 2. Signals for all movements through CP Jct. will display red STOP and movements are made under the jurisdiction of the TRRA Control Operator. The crossing is equipped with a gate, the normal position for which is against NS movement. Trains and engines stopped will contact TRRA Control Operator for further instructions and will not line gate for NS movement until authorized by TRRA Control Operator.

4. JUNCTIONS

a. Interlocked

LOCATION		LINE/RR			
Lafayette District					
CSXT Crossing	M.P. SP258.0	CSXT/CR			
West Demun	M.P. D257.7	NS (Frankfort Branch)			
Bement	M.P. D355.4	NS (Bloomington District)			
Brush	M.P. D372.5	NS (North Yard Lead)			
Bloomington Dist	trict				
Gibson City	M.P. C113.4	IC (Gilman District)			
Brooklyn District					
Mosser Mitchell	M.P. D376.5	NS (Springfield District)			
Mitchell	M.P. D474.6	A&S			
Springfield Hanni	ibal District				
Mosser	M.P. DH376.5	NS (Brooklyn District)			
Hannibal Jct.	M.P. H69.7	NS (St. Louis District)			
St. Louis District	!				
Mexico	M.P. S110.5	GWWR			
Kansas City Dist	rict				
Hannibal Jct.	M.P. S148.1	NS (Hannibal District)			
Kelly	M.P. S188.9	WGR			
Kelly WB Jct.	M.P. S212.8	ATSF			
CA Jct.	M.P. S242.4	ATSF			
Maxwell	M.P. S250.6	BN			
Birmingham	M.P. S266.6	BN			
Des Moines District					
CNW	M.P. DU338.4	CNW			

b. Not Interlocked

LOCATION		LINE/RR			
Frankfort Branch					
CR/CSXT Crossing	M.P. SP234.8	CR/CERA			
Wabash River Br.	M.P. SP259.1	KBSR			
Bloomington Dist	rict				
Dean	M.P. SP373.4	CR			
A&E Line					
IT JCT.	M.P. AE21.8	NS (T&E Line)			
Hoyt Jct.	M.P. AE9.3	TRRA			
CNW Jct.	M.P. AE7.3	CNW			
CNW Madison Yd.	M.P. AE6.6	TRRA, CNW, NS			
		(Madison Branch)			
Bridge Jct.	M.P. AE3.9	SPCSL			
T&E					
IT Jct.	M.P. A4.4	NS (A&E Line)			
St. Louis Terminal Routes					
A&S Jct.	M.P. M6.4W	A&S			

5. DRAWBRIDGES

a. Interlocked

RIVER

LOCATION

Springfield/Hannibal District

Valley City M.P. DH473.8 Illinois River Bridge (Hannibal) M.P. DH514.4 Mississippi River

b. Not Interlocked

(None)

6. METHOD OF OPERATION

			_	AUTHORITY
		+	*	FOR
BETWEEN	AND		SIGNALS	MOVEMENTS #
West Peru	East Yard	Single	ABS	TC (Note 1)
1,,,,,,,		•		(Note 2)
East Yard	Lafavette Jct.	Double	ABS	YL 251(Note 4)
Lafayette Jct.	Eldan	Single	ABS	TC (Note 1)
Eldan	NT Jct.	Double	ABS	YL 251(Note 4)
22.5-2-	•			(Note 2)
NT Jct.,	E. Bement	Single	ABS	TC (Note 1)
	Tropole	Double	ABS	TC (Note 2)
E. Bement	Veech	Double Double	ABS	251
Veech	Brush		ABS	TC
Brush	Wabic	Single	ABS	TC I
Wabic	Mosser	Double	ABS	TC (Note 1)
Gibson City	Bement	Single	NS NS	TWC (NOTE 1)
Farmdale	Gibson City	Single	NS NS	Twc
Frankfort	E. End S. Yd.	Single	ABS	TC (Note 1)
E. End S. Yard	West Demun		ABS	TC (Note 1)
Mosser	BD Jct.	Double		TWC2
BD Jct.	Poag Jct.	Single	ABS	YL 251(Note 8)
Poag Jct.	WR Tower	Double	ABS	YL (Note 8)
WR Tower	Brooklyn	Single	NS	IL (Note 8)
Brooklyn	Coapman	١., ,	370	Nato (Nato O)
	VC Belt	Single	NS NS	YL (Note 8)
Alton	Roxana	Single	NS	YL (Note 8)
		l		(Note 2)
IT Jct.	WR Tower	Single	NS	YL (Note 8) (Note 11)
WR Tower	Bridge Jct.	1		(2,000 11)
W. Z.	(A&E Line)	Single	NS	YL (Note 8)
Madison	Coffeen	Single	NS	TWC
Mosser	E. Hannibal	Single	ABS	TC (Note 1)
Mosser	2		1	(Note 2)
E. Hannibal	Oakwood	Single	ABS	RC (Note 7)
Oakwood	Hannibal Ict.	Single	ABS	TC (Note 1)
Oak Wood				(Note 10)
		1		(Note 2)
Bluffs	Meredosia	Single	NS	TWC `
Luther	Wentzville	Single	ABS	RC (Note 1)
Lucion	***************************************	1		(Note 2)
		1	1	(Note 9)
Wentzville	Urbandale	Single	ABS	TWC `
Urbandale	Hannibal Jct	Single	ABS	YL
Hannibal Jct.	Stamper	Single	NS	YL (Note 5)
Stamper	Huntsville	Double	ABS	YL 251(Note 5)
Huntsville	WB Jct.	Single	ABS	TC (Note 1)
WB Jct.	CA Jct.	Multiple	1	TC (Note 3)
CA Jet.	Birmingham]		· '
C21 JCL.	Ict.	Single	ABS	TC (Note 1)
Moberly	Albia-BN	Single	NS	TWC
Birmingham Jet		Double	ABS	RC (Note 12)
Birmingham	Block 224	Double	ABS	RC (Note 13)
	or operation th			

2 - Authority for operation through Poag Jct. is TC

†- TWO OR MORE TRACKS EXTEND BETWEEN THE FOLLOWING POINTS AND ARE IDENTIFIED AS FOLLOWS:

Between East Yard, M.P. D253.1 and Lafayette Jct., M.P. D257.2

#1 Track: Located on left hand side when headed toward Lafayette Jct.

	Located on right hand side when headed toward Lafayette Jct.	1
Between Eld	dan, M.P. D296.2 and NT Jct., M.P. D306.7	
#1 Track:	Located on left hand side when headed toward NT Jct.	1
#2 Track:	Located on right hand side when headed toward NT Jct.	
Between E.	Bement, M.P. D353.3 and Veech, M.P. D357.5	
#1 Track:	Located on left hand side when headed toward Veech	
#2 Track:	Located on right hand side when headed toward Veech	
Between Vee	ech, M.P. D357.5 and Brush, M.P. D372.9]
#1 Track:	Located on left hand side when headed toward Brush	
#2 Track:	Located on right hand side when headed toward Brush]
Between Wal	bic, M.P. D375.6 and Mosser, M.P. D376.6	
#1 Track:	Located on left hand side when headed toward Mosser	
#2 Track:	Located on right hand side when headed toward Mosser	
Between Mos	sser, M.P. D376.6 and BD Jct., M.P. D381.0	
#1 Track:	Located on left hand side when headed toward BD Jct.	,
#2 Track:	Located on right hand side when headed toward BD Jct.	
Between Poar	g Jct., M.P. D469.1 and WR Tower, M.P. D480.4	
#1 Track:	Located on left hand side when headed toward WR Tower]
#2 Track:	Located on right hand side when headed toward WR Tower	
Between Starr	nper, M.P. S148.5 and Huntsville, M.P. S154.9	
#1 Track:	Located on left hand side when headed toward Huntsville	
#2 Track:	Located on right hand side when headed toward Huntsville	
*NS - Nor		
#TO = Train	n-Signaled; ABS = Automatic Block System. in Order; TC = Traffic Control; RC = Remote Control;	
251 = Rule	251; 261 = Rule 261; MBS = Manual Block System;	
YL = Rule	93; TWC = Track Warrant Control.	
Note 1. THE	FOLLOWING SIDINGS IN TO OR RC TERRITORY SIGNALED SIDINGS:	
Between West	t Peru and East Yard	
Danes	M.P. D212.5 M.P. D215.1	
Logansport		
Clymers	M.P. D222.0 M.P. D224.4	
Rockfield	M.P. D232.2 M.P. D233.9	
Colburn	M.P. D241.4 M.P. D244.0	
Between Lafay	yette Jct. and Eldan	
West Point	M.T. D200.5	
Attica	M.P. D275.2 M.P. D277.0	
Between NT J	Jct. and E. Bement	
Tolono We	M.I. DJJJ.	
Sloan	M.P. D345.0 M.P. D346.6	
	kfort and West Demun	
South Yard	Siding M.P. SP250.9 M.P. SP252.9	

- au au	1.0	
Between Gibson City an		16 B - G10 (/
Osman Lodge	M.P. C124.9 M.P. C140.1	M.P. C126.6 M.P. C141.8
Lodge Between Mosser and Ha		M.I. CX41.0
Harristown	M.P. DH381.0	M.P. DH382.9
Dawson	M.P. DH402.6	M.P. DH404.8
New Berlin	M.P. DH428.3	M.P. DH430.9
Arnold	M.P. DH441.4	M.P. DH443.5
Chapin	M,P. DH458.2	M.P. DH460.4
Griggsville	M.P. DH479.0	M.P. DH480.6
Hadley	M.P. DH491.2	M.P. DH493.8
E. Hannibal	M.P. DH511.8	M.P. DH514.3
Between Luther and W	entzville	
Ferguson	M.P. S12.5	M.P. \$14.2
Wentzville Siding	M.P. S41.0	M.P. S44.0
Between Huntsville and	WB Jct.	
Salisbury	M.P. S169.4	M.P. S171.2
Sido	M.P. S177.1	M.P. \$178.8
Brunswick	M.P. S185.6	M.P. \$187.3
Dewitt	M.P. S192.3	M.P. \$193.6
Wakenda	M.P. S203.9	M.P. \$205.7
Carrolton	M.P. S211.3	M.P. \$212.7
** The following sidin (RULE 105)	gs in TC Territory	are controlled sidings
Between NT Jct. and E	Bement	
Ryan	M.P. D311.8	M.P. D313.3
Homer	M.P. D319.7	M.P. D321.1
Tolono E. Pass	M.P. D336.4	M.P. D338.0
Between Mosser and H	annibal Jct.	
Huntington	M.P. H12.5	M.P. H15.1
Clapper	M.P. H29.2	м.р. нзо.7
Holliday	M.P. H51.0	M.P. H53.6
Between CA Jct. and B	irmingham Jct.	
Orrick	M.P. S245.9	M.P. \$246.9
Excelsior Springs	M.P. S253.4	M.P. S254.7
South Liberty	M.P. S261.2	M.P. S262.5
MAIN TRACK SWITCHE	S NOT EQUIPPED \	WITH ELECTRIC LOCKS:
Between West Peru and	d East Yard	
Logansport - Wilson	n Food Track, M.F sport Refrigeration	
	quipment, M.P. Da	
Between Lafayette Jct.		
-		M.B. D262.9
West Point - Sohigr		
State Line - Elevat		394.1
Between NT Jct. and V	eech eech	
Catlin - House	Track, M.P. D307	7.6
	Lay Tracks, M.P. I Fertilizer Track, M	D324.9 and M.P. 325.2 M.P. D326.9
	Elevator Track, M	
		y Track, M.P. D338.5
	ack, M.P. D355.8	

Between Mosser and Hannibal Jct.

- Dunn Coal, M.P. DH376.7 Mosser - Oaks Spur, M.P. DH393.8 Illiopolis Springfield - Journal Register, M.P. DH414.4 - Sid and Son, M.P. DH414.4 - Engine Lead, M.P. DH414.8

- Novemco Track, M.P. DH420.1 Sanger New Berlin - S. Elevator Track, M.P. DH431.1 Island Grove - Elevator Track, M.P. DH433.5 Alexander - Fertilizer Track, M.P. DH436.9 Jacksonville - Mobil Chemical Track, M.P. DH445.7

- Meyers Track, M.P. DH450.2

- W. R. Grace Track, M.P. DH453.3 Markham Valley City - Station Track, M.P. DH474.6 - Stub Track, M.P. DH480.8 Baylis Barry - Stub Track, M.P. DH499.1 - Storage Track, M.P. DH500.4 Magner

All tracks between M.P. H4.2 and Hannibal Jct., except sidings at Huntington, Clapper and Holliday.

Between Luther and Wentzville

Robertson - McDonnell Douglas Corp., M.P. \$16.2 St. Peters - Hill Behan Lumber Track, M.P. S31.1 - East Switch Storage Track, M.P. S31.6 - West Switch Storage Track, M.P. S31.9 - Linclay Corp., M.P. \$34,1

Wentzville

Siding - Clay Track, M.P. \$42.1 Wentzville - Exxon Corp., M.P. S44.2 - Team Track, M.P. S44.8 - Metalife Co., M.P. \$45.0

- MFA Fertilizer, M.P. S45.3 Missouri Concrete Products M.P. S46.4

Between Huntsville and WB Jct.

- Spur Track, M.P. S162.5 Clifton

- Naylor Spur Track, M.P. \$168.7 Salisbury

Dewitt - Brunswick River Term. Spur, M.P. S191.9

Between WB Jct. and CA Jct. (South Track)

-East End Old Siding, M.P. S220.6 Norborne

-West End Old Siding, M.P. S221.2

Henrietta -Elevator M.P. S235.5

No trains or engines shall clear the main track at any of the above switches.

While movement is using such tracks, an engine or car must continuously occupy the main track or main track switch must be kept continually set for movement into such track. Other main track switches in TC territory not equipped with electric locks are located between Brush, M.P. D372.9 and Wabic, M.P. D375.6. All trains and engines must not exceed 20 MPH between these two points.

INSTRUCTIONS GOVERNING THE ISSUING OF JOINT TRACK TIME FORM 23-A

The issuing Operator/Dispatcher, hereafter referred to as issuing party, will contact the other Operator/Dispatcher involved hereafter referred to as the other party, and inform him that he wishes to authorize someone to do work on a specified track, and will be issuing a Track Time Form 23-A to cover the movement. The issuing party will supply the other party with the number he intends to use on his 23-A. The other party will then supply the issuing party with his number. Then, both parties will block out the control points involved, after which the issuing party will issue the movement a 23-A using both numbers. When the 23-A is given up by the movement, the issuing party will contact the other party and release the joint 23-A with him.

JOINT TRACK TIME FORM 23-A IS REQUIRED AT THE FOLLOWING LOCATIONS:

Springfield District

(1) Between Oakwood, M.P. H4.2 and the West Switch Hadley, M.P. DH493.65.

Kansas City District

(1) Between Birmingham Jct., M.P. \$264.7 and the Power Crossover Switch, Birmingham, M.P. \$266.6

Lafayette District

(1) Entering or leaving the Illinois Division at West Peru, M.P. 204.4 (Eastbound or Westbound Tracks)

Note 2. POWER OPERATED SWITCHES ARE CONTROLLED AS FOLLOWS:

	LOCATION	MP	BY OPERATOR
1.	Delphi (Power Crossover)	D238.6	NS Dispatcher Decatur
	Danville Jct. (Power	D300.4	CSXT Dispatcher
	Crossover N. Yard)		Jacksonville
3.	Tolono (Power Crossover)	D338.0	NS Dispatcher Decatur
4.	Valley City Bridge	DH473.8	Bridge Tender
	,		Valley City Bridge
5.	EE East Hannibal	DH511.8	Opr. Hannibal Bridge
6.	WE East Hannibal	DH514.3	Opr. Hannibal Bridge
7.	Wood River I/L	A5.0	Operator Luther Yard
8.	Luther (IB/OB Switch)	SL6.3	Operator Berkeley
9.	Ferguson	\$12.5	Operator Berkeley
10.	Berkeley (Power Crossover)	S14.2	Operator Berkeley
11.	Berkeley (Power Crossover)) S14.3	Operator Berkeley
12.	Robertson, Missouri	\$ 16.9	Operator Berkeley
13.	Wentzville Siding (EE)	S41.0	Operator Berkeley
14.	Middle Yd. Lead (Off Pass)	\$43.0	Operator Berkeley
15.	Wentzville Siding (WE)	S44.0	Operator Berkeley
16.	Birmingham	S266.6	"KN" Opr Kansas City
17.	Block 222	S271.9	"KN" Opr Kansas City
			-

Note 3. Train movements between WB Jct. and CA Jct. are governed by ATSF Rules, Timetables and Special Instructions.

Note 4. The following instructions will govern train operations and movement of on-track equipment between East Yard and Lafayette Junction and between Eldan and NT Junction.

Within yard limits, between East Yard, M.P. D253.1, and Lafayette Junction, M.P. D257.2, and between Eldan, M.P. D296.2, and NT Junction, M.P. D306.7, all movements are under the jurisdiction of the Dispatcher at Decatur.

Movements against the current of traffic within these limits must not be made without permission of the Dispatcher at Decatur, who must arrange for protection of such movements.

No train or engine will enter the main track, or cross over from one main track to another, through hand operated switches, without permission of the Decatur Dispatcher. Except, between Eldan, M.P. D296.2, and NT Junction, M.P. D306.7, this permission will be secured through the Yardmaster at Tilton. Yardmaster at Tilton is on duty all shifts Monday, and first shift (7:00 AM - 3:00 PM) and third shift (10:00 PM - 6:00 AM) Tuesday through Sunday.

All movements against the current of traffic within these limits must be made at yard speed, not exceeding 20 MPH.

All trains and engines must secure permission from the Dispatcher at Decatur to depart East Yard, Lafayette and Tilton. Permission to leave Tilton will be secured from the Yardmaster, when on duty. It will be the responsibility of the Conductor or Engineer to secure this permission.

Operation of on-track equipment will be handled under the provisions of Operating Rule 819.

Note 5. The following instructions will govern train operation, movement of on-track equipment, and employees performing maintenance on main tracks within yard limits Moberly between Huntsville, M.P. S155.0; Urbandale, M.P. S146.4; East Moberly, M.P. H68.5; and Moulton District, M.P. SD150.5.

Movements against current of traffic between Huntsville, M.P. S155.0, and Stamper, M.P. S148.5, must not be made without permission of the St. Louis/Kansas City District Dispatcher in Decatur, who must arrange for protection of such movements.

No train or engine will enter main track, or cross over from one main track to another, through hand operated switches, without permission of the Decatur Dispatcher.

All movements against current of traffic will be governed by Rule 93 and made at yard speed, not exceeding 20 MPH.

All trains and engines must secure permission from the Dispatcher at Decatur prior to departing Moberly. It will be the responsibility of the Conductor or Engineer to secure this permission.

Operation of on-track equipment will be handled under the provisions of Operating Rule 819.

Note 6. Controlled by Decatur Dispatcher and provisions of Rule 93 apply.

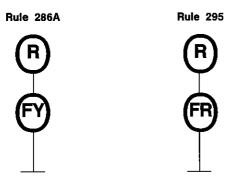
Note 7. Train and engine movements between E. Hannibal, M.P. DH511.7 and Oakwood, M.P. H4.2 are governed by the Operator at Bridge.

Note 8. All train and engine movements and movement of on-track equipment are governed by instructions from Luther Operator.

Note 9. Controlled by Operator, Berkeley, Missouri.

Note 10. Additional rules applicable to Traffic Control between Outer Depot and Moberly.

1. The following additional signal aspects are authorized:



Name-Block Approach

Indication-Proceed on main track preparing to stop at next signal at end of siding. Name—Take Siding Signal

Indication-Movement by the signal will proceed into siding at Restricted Speed when the switch is properly lined.

R—Red FY—Flashing Yellow FR—Flashing Red Note 11. An absolute block is established between Shaffer Road, M.P. AE13.4 and IT Jct., M.P. AE21.8. The limits of this block are marked with signs reading "End Yard Limits Begin Absolute Block" and "End Absolute Block Begin Yard Limits".

Maximum authorized speed within the limits of this block is 25 MPH, except where further restricted. Trains, engines and on-track equipment entering this block at either end or through any switch located within the limits of the block will do so only on permission of operator at Luther, who will control access and use of this block, and will maintain an Absolute Block for all trains, engines and on-track equipment entering, using and leaving this block. All trains, engines and on-track equipment must report clear of this block promptly.

Except in an emergency, only one movement will be permitted within the limits of the block at a time. A second movement must not be authorized until prior movement is reported clear.

Should an emergency condition arise which would require occupancy by more than one piece of equipment within the limits of the Absolute Block, additional equipment must not be allowed to enter the block until all other equipment in the block has been notified and the employee in charge of each piece of equipment fully understands the situation. Whenever it is necessary for more than one piece of equipment to be in the block, all equipment in the block must proceed at Yard Speed. Only under emergency conditions will more than one train or engine be permitted in the Absolute Block.

After a train or on-track equipment clears the Absolute Block, including clearing in auxiliary tracks, the Conductor or Engineer, or the Operator or employee in direct charge of on-track equipment, will promptly report "Clear" to the Operator. When clearing a block at a point where switch must be returned to normal position, "Clear" must not be given until switch has been secured in normal position.

Train operating without a caboose must not be reported clear of the Absolute Block except under the following conditions.

It has been visually confirmed that the rear-end marker has cleared the limits; or

Engine has passed *2 miles beyond the limits and end-of-train device indicates proper brake pipe pressure on rear.

* - If the controlling locomotive is equipped with a distance counter, and end-of-train device motion detector indicates that rear car is moving, train may be reported clear after the engine has moved a distance equal to the train's length beyond the limits.

Trains or on-track equipment must not re-enter a block after reporting "Clear", except by again securing authority to occupy the block.

Maintenance forces may be authorized to jointly occupy with trains the Absolute Block (Between M.P. AE13.4 and M.P. AE21.8) on the A&E Line, but only after the following conditions have been met:

- (a) Foreman in charge of maintenance must secure authority for joint occupancy of the Absolute Block from the operator at Luther.
- (b) Authority for joint occupancy of the Absolute Block must not be granted by the operator at Luther until he has ascertained that all trains have passed the point where maintenance will be performed and has instructed the Conductor and Engineer of trains involved not to make a reverse movement account main track occupied by maintenance forces.
- (c) Maintenance work must be protected by live flag in both directions. Flagman must walk to the point where protection will be provided unless it can be ascertained positively that there are no trains in the segment of track between the flag and the point of restriction.

Note 12. KN operator controls under jurisdiction of Decatur Dispatcher.

Note 13. All movements between Birmingham and Block 224 are controlled by KN operator and are governed by BN Rules, Timetable and Special Instructions.

7. OTHER TRAIN MOVEMENTS/INSTRUCTIONS a. SYSTEM WIDE

- 1. Rail Security Service When cars are moving on Government bills of lading annotated "Rail Security Service Required" or "RSS Required" are set off between terminals other than at final destination, seals protecting must be inspected and seal numbers recorded on the waybill. Also, the Chief Dispatcher must be notified by the quickest available means of communication, furnishing car number, location set off, and seal numbers. Any exceptions such as broken or missing seals must be reported in the same manner. Chief Dispatcher must immediately notify NS Police Department officer for further handling.
- 2. Cabooses will be handled on rear of trains unless otherwise authorized by the General Manager.
- 3. When a near miss is encountered, train or engine crew should contact Dispatcher with relevant information on the Near Miss Incident. The Dispatcher in turn will notify Police Department. Crew must fill out Near Miss card at first opportunity and give to supervisor. Prompt handling with Dispatcher will enable Police Department to expeditiously handle with involved party.
- 4. Reverse movements with Triple Crown Service trailer, when in a yard or on line of road, may be made only when absolutely necessary and then only under the following conditions:
 - (a) Reverse movement may be for a short distance only and at a speed not exceeding 5 MPH.
 - (b) All locomotives except the controlling locomotive must be isolated.
 - (c) Caution must be used in handling locomotive brake, or dynamic brake; with amperage being limited to a safe level.
- 5. (a) Loaded and empty Triple Crown units When both air bags are deflated and cannot be inflated and unit is resting on bumper pin, the unit will be handled at 30 MPH to the first convenient set off point where a highway power unit can be attached to the unit for movement to final destination. This applies to loaded and empty units, and only applies to the rear car of train.
- (b) Engineers operating Triple Crown trains must not leave a terminal with less than 110 PSI rail supply line pressure.

When operating on line of road, rail supply line pressure must be periodically monitored for pressure reduction. When pressure falls below 110 PSI due to horn blowing or air bag adjustments on heavy curvature and engine is not in a high throttle position, the generator field switch may be opened and engine advanced to No. 8 throttle until rail supply line is restroed to 110 PSI.

6. When Rail Gangs, Timbering and Surfacing Gangs, or Surfacing Gangs are to work on a main track in multiple track territory, the foreman or supervisor must contact the Chief Dispatcher at least 12 hours in advance, advising (1) track to be used by MW&S forces, (2) date and time work is to be performed, and (3) work limits, (must begin and end at specified mile posts.)

If authorized speed on track(s) immediately adjacent to MW&S forces is greater than 25 MPH, the Chief Dispatcher will arrange for issuance of 25 MPH slow order, to be in effect only when passing work limits during specified time period. Restriction will have been complied with when leading end of train or engine reaches end of work limits, or when notified by MW&S foreman or supervisor that leading end has passed entire work gang. Engine whistle and bell must be sounded frequently when approaching and passing work limits.

- 7. Locomotives at outlying points or at remote points within yard or terminal limits are to be locked when not in use. The chief Dispatcher, Yardmaster or other designated employee must be notified if this equipment cannot be locked.
- 8. Instructions concerning the use of toilet facilities on locomotives and cabooses:
 - (a) Prior to departure, ensure the presence on lead locomotive and caboose of waste receptacle with lid, secure toilet frame, and functional urinal. Report any defects to immediate supervisor, and obtain necessary supplies from servicing personnel.
 - (b) To use, insert bag in facility and drape over seat portion of frame.
 - (c) After using, remove the bag and securely apply a bag tie, deposit the bag in waste receptacle, and replace receptacle cover. THE BAG, AFTER USE, IS NOT TO BE DISPOSED OF IN ANY OTHER MANNER.
 - (d) Misuse of the system or theft of bags, bag ties, or waste receptacle is prohibited.
- 9. Freight trains, except radio train, coal trains and empty hopper trains must not exceed 150 cars, unless authorized by Chief Dispatcher.
- 10. Except at crew change points, while stopped, the following procedures for insuring continuous train line pressure must be observed when using end-of-train device (EOT).
 - (a) Make full service application and determine that train line pressure is being reduced as indicated on the head-of-train (HOT) receiver on the locomotive.
 - (b) When train is ready to proceed, release brakes and determine that brake pipe pressure is increasing by indication on the HOT receiver.
 - (c) If brake pipe pressure does not decrease or increase on the HOT receiver as required above, it must be determined there is continuous train line pressure through the rear car and EOT is in place before proceeding.
 - (d) If immediately after starting, EOT signal is lost or pressure indication on HOT receiver is reduced five pounds or more, it must be determined that train consist is complete and there is continuous train line pressure through train and EOT is in place before proceeding.

Any malfunction regarding end-of-train device must be promptly reported to the Chief Dispatcher.

- 11. All radio transmitted train orders must be copied on Form 19R in multiple.
- 12. All train and engine employees, yardmaster and clerical employees are required to wear approved safety glasses with side shields while on duty and/or on Company property except when in enclosed offices or highway vehicles.

Safety glasses will be furnished to you by supervisory personnel. Several approved styles are available for your selection. The Company will purchase approved prescription safety glasses, through its supplier, for those employees having to wear glasses. Employees requiring safety glasses must furnish the supervisor with prescription for special handling

Train and engine employees, yardmasters and clerical employees who wear prescription eye glasses will satisfy these requirements with the addition of side shields to their regular eye glasses. Side shields will be furnished by supervisory personnel.

Eye protection is not required between employees' vehicles and their on or off-duty locations, or their offices.

- 13. Each Operations Division employee who engages in any activity specified below is required to obtain and have accessible at all times when on duty or on Company property an approved hearing protection device. Each Operations Division employee must use an approved hearing protection device whenever he or she is:
 - (a) On an operating locomotive;
 - (b) In an open area within 100 feet of working retarders;
 - (c) In a work area identified by sign or instructions as requiring hearing protection at any Mechanical, Maintenance of Way, or other facility;
 - (d) Using tools or equipment or performing duties identified by sign or instructions as requiring hearing protection; or
 - (e) At any location at which he or she is subject to exposure to loud noise ('loud noise'' is any noise that would require a person to speak above a normal level in order to be heard at arm's length).

Those employees who have not been instructed by the Medical Department as to the specific type of protection device to use must obtain from their supervisors one of the devices which have been available for use on a voluntary basis. Once an employee has been tested, the Medical Department will notify him or her of the specific type of protection device to use.

If you feel that the hearing protection device ordered for your use interferes with the safe performance of your duties by making it difficult for you to hear and understand speech, radio communications or other warning devices, you should report this to your supervisor at once for further instructions.

You are allowed and encouraged to use the hearing protection device in any area to the extent needed for personal comfort. You are also encouraged to use the hearing protection device whenever you are exposed to loud noises at home or elsewhere.

- 14. The following procedure must be observed when using drawbar alignment strap.
 - (a) ATTACH Move equipment within three feet of drawbar to be aligned. Stop movement. For protection, establish clear understanding with all concerned, advising that strap is to be applied. Attach strap to both knuckles.
 - (b) ALIGN Employee(s) stand clear of strap while movement is made. Engineer, when directed, pull ahead slowly until strap slack is eliminated and drawbar is centered.
 - (c) REMOVE Operate cut lever to allow strap to slide free from knuckle. (If strap fails to slide free, stop movement, get slack, and remove by hand.) Separate equipment one-half car length and remove strap from remaining knuckle. Repackage and/or properly store strap for future use.

Drawbar alignment strap may be used only at locations authorized and only by employees that have been qualified on its use by a division or terminal officer.

15. Enginemen and trainmen will report changes in highway traffic on specific crossings.

Grade crossings should be reported where highway traffic has changed, such as increased heavy truck movements, new or more school buses, trucks hauling a dangerous commodity, or anything that may jeopardize safe train movements.

Each report should contain the name of the District, Mile Post and crossing, if possible, and should be forwarded to the Chief Dispatcher's Office.

16. When locomotive consist of a train stops on a bridge, the engineer will inform all other crew members of that fact, advising them to take caution when dismounting.

17. Conductor of train moving FRA defective cars will be notified in writing outlining defects, position in train, restrictions, or any other information concerning subject car. The conductor must inform all other crew members of the presence of the defective car, its location, maximum speed, and other restrictions.

Foreign cars with FRA defects moving home for repairs must be accompanied by a non-revenue waybill. Such waybill must bear the notation "FRA DEFECTIVE CAR MOVING FOR REPAIR - PART 215.9". The maximum speed and other restrictions for safely conducting movement of the defective car must be shown on the waybill. If no speed restriction is required for safe movement of the car, the words "normal freight train speed" must be shown on the defect card and the waybill.

- 18. When handling bad order cars as rear car in train, air must be cut in to such cars if possible. If this cannot be done, cars must be chained/cabled to caboose or rear car, kept under observation, and restricted to 15 MPH. When observation is not possible, bad order car must not be handled in train.
- 19. Gates across tracks must be equipped with proper fasteners (hooks, latches, chains). Gates that cannot be properly secured in the open position must be reported immediately, and cars or engines will not enter until repairs are made.
- 20. At any time a train separates twice between the same two cars, both cars are to be set out. This will be handled per instructions of Chief Dispatcher. The only exception to these instructions is that when a representative of the Mechanical Department is on the scene and advises the cars are okay to move.
- 21. Due to locomotive design differences, employees crossing from one locomotive to another must be alert to the possibility of a height differential between adjoining M/U walkway platforms. Caution must be exercised to avoid tripping or stumbling when this condition is encountered.
- 22. FRA has established minimum qualifications for locomotive engineers. The rule requires railroads to have a formal process for evaluating prospective operators of locomotives to determine that they are competent before permitting them to operate a locomotive or train. The procedures require that railroads (1) make a series of four determinations about a person's competency which are: A. Eligibility, B. Vision and hearing acuity, C. Demonstration of knowledge, and D. Demonstration of performance skills. (2) Devise and adhere to an FRA-approved training program for locomotive engineers; and (3) employee standard methods for identifying qualified locomotive engineers and monitoring their performance.

Each locomotive engineer, including student engineers and locomotive servicing engineers, shall have his or her current locomotive engineer certificate in his or her possession upon reporting to work and while on duty. The federal rules require that the certificate be displayed upon request to:

- (a) A representative of the Federal Railroad Administration,
- (b) An officer of Norfolk Southern, or
- (c) An officer of another railroad when operating a locomotive or a train in joint operations territory over that railroad.

Each locomotive engineer, including student and locomotive servicing engineers, must promptly report the loss, damage or destruction of his certificate to the proper company authority.

A copy of federal regulations 49 CFR, Part 240, will be available at division headquarters.

23. Before a rail train unloads rail within the limits of a railroad crossing at grade or interlocked junction, protection as prescribed below must be established and maintained to insure that a crossline or conflicting movement will not enter the limits until the rail is clear of affected routes:

At a controlled interlocking or a junction equipped wih poweroperated switch, time and working limits (Form 23A) must be obtained. At locations where the home signal for crossline or conflicting route is controlled by a foreign line railroad, communication must be established with foreign line dispatcher or control operator and it must be ascertained that positive protection has been established and will be maintained against foreign line movements until affected track section is reported clear by employee who requested protection.

At an automatic interlocking or non-interlocked railroad crossing, flag protection must be provided.

24. In order to assist in avoiding muscle strain, all train and engine service employees are required to perform five minutes of stretching exercises from the warm-up exercise examples depicted in the Safety Rule Book at the beginning of each tour of duty. The conductor, or in the absence of the conductor, the engineer, is responsible for ensuring that all crew members, including himself, perform the stretching exercises. Stretching exercise is a safety preparation to be used in advance of performing your work that presents potential strenuous activity.

Take care of yourself by doing the stretching preparation in a reasonable and moderate manner within your physical ability.

- 25. When a train, engine, on-track equipment, or men performing maintenance are reported clear of the limits authorized by a track warrant or Form 23-A, the following must be stated to insure against misunderstanding:
 - (a) Number of track warrant or Form 23-A being cleared; and
 - (b) Limits being cleared; and
 - (c) Designation of track being cleared when operating in multiple track territory

If the employee reporting clear fails to give this information, the dispatcher or control station must ask for and obtain it before the limits are considered to be clear.

7b. DIVISION WIDE

1. When operating train or engines on tracks on the Illinois Division protected by derail, the employee handling the derail must be positive the derail is off and that the switch(es) is lined for their movement. In addition, employee handling the derail must communicate to the engineer that "switch(es) is lined and derail(s) is off." The engineer is to repeat this information to sending employee before movement begins.

Additionally when shoving movements will pass block signals (see definition), employee controlling movement will communicate (to the engineer) by name the indication of each signal affecting movement as soon as the signal is clearly visible. The engineer must acknowledge information concerning signal indication and obtain information regarding signal indication prior to beginning shove movement if employee controlling movement fails to provide same.

Each signal must be called as soon as it is clearly visible and again if other than stop signal, just before signal is passed.

Requirements of Rules 34, 103, 507, and 508 remain in effect.

2. Employees are prohibited from riding the leading end of a car when it PLACES THE EMPLOYEE BETWEEN THE GAUGE OF THE

TRACK, except when it is necessary to operate the hand brake on a moving car. This does not prohibit an employee from riding under the slope sheets of a hopper, covered hopper, or on the end platform of a tank car outside the gauge of the track.

In addition, employees must not cross over on end of moving cars or between moving coupled cars.

- 3. Use of a drawbar alignment strap has been approved at Decatur, Illinois; St. Louis Terminal; Kansas City, Missouri, and Claycomo, Missouri.
- 4. Crews relieved on line of road must leave waybills in possession of relief crew or on the lead locomotive or caboose, advising the Chief Dispatcher where waybills are left. Chief Dispatcher will advise where to leave the waybill(s) for car(s) set out on line of road account tonnage reduction or bad order. It is the conductor's responsibility to assure that waybills accompany cars picked up on the line of road. Cars should not be carried into final terminal without waybills.
- 5. Auxiliary tracks, sidings, and industrial tracks are subject to drifting snow, accumulations of ice and snow, and build up of mud on track structures in and around road crossings, buildings, ramps, and other structures and shelters. Extreme care must be taken when entering, passing through, or leaving such tracks to prevent derailment due to these conditions. Whenever necessary, a crew member must be sent ahead of movement to walk track and make a thorough inspection of track and structure before movement is made, and must remain in position to keep close watch while movement is being made, in the event it becomes necessary to stop the movement to avoid derailment.
- 6. Engineers must work a minimum of 1 trip every 6 months to remain qualified on a particular district or terminal. Engineers whose seniority allows them to work on multiple districts and/or divisions must make a qualifying trip prior to accepting assignment on a district or terminal over which they have not operated in over 6 months. It is the responsibility of each Engineer to contact the Division Road Foreman of Engines or District Road Foreman of Engines to make arrangements for qualifying trip prior to taking assignment on district or terminal for 6-month qualification.
- 7. Conductors will ride on the controlling, lead unit, of moving freight trains, unless instructed otherwise by Division Officer; Conductor may then ride other than controlling unit.
- 8. A crew member on the controlling locomotive will communicate by radio the name and location of each signal affecting his movement as soon as the signal becomes clearly visible.

If there are crew members on trailing units, they will acknowledge transmissions, repeating the information to crew member(s) on the controlling locomotive.

9. Before a rail train unloads rail within the limits of a railroad crossing at grade or interlocked junction, protection as prescribed below must be established and maintained to ensure that a crossline or conflicting movement will not enter the limits until the rail is clear of affected routes.

At a controlled interlocking or a junction equipped with poweroperated switch, time and working limits (Form 23A) must be obtained. At locations where the home signal for crossline or conflicting route is controlled by a foreign line railroad, communication must be established with foreign line dispatcher or control operator and it must be ascertained that positive protection has been established and will be maintained against foreign line movements until affected track section is reported clear by employee who requested protection.

At an automatic interlocking or non-interlocked railroad crossing, flag protection must be provided.

10. Hopper cars must not be pulled with hopper doors open.

11. All trains and engines operating within the State of Missouri are to be governed by the following:

Cars left standing must be at least 250 feet from edge of road crossing, except as provided below:

- (a) Physical conditions requiring temporary use of track.
- (b) Physical conditions are such that the 250 feet minimum distance cannot be obtained, and then only as to cars awaiting loading or unloading (or pickup thereafter), or to bad order cars set out from trains.

These minimums will not apply to cars placed on yard tracks.

12. Trains entering sidings through hand throw switches (spring switches) must not line the siding switch back to normal position until the rear of the movement has passed the leaving signal.

7c. BY LOCATION

Lafayette District and Frankfort Branch

1. Within the STATE OF INDIANA, the following laws are in effect:

Engine whistle to be sounded four times beginning not less than 80 rods, (1,320) feet, from he approach to any public highway, street, or turnpike. The sounding shall be prolonged and repeated until the crossing is reached. Also the engine bell shall be rung continuously from the time of the sounding of the whistle until the engine has fully passed the crossing.

When such a whistle and bell are not in good working order, the engine must be stopped before each such crossing and proceed only after manual protection is known to be provided.

It is unlawful for a train, railroad car or engine to obstruct public travel at a public crossing at grade for a period in excess of ten minutes, except where such train, railroad car or engine cannot be moved by reason of circumstances over which the railroad has no control.

It is unlawful to permit successive train movement to obstruct vehicular traffic at a public crossing at grade until all vehicular traffic previously delayed by such train movements has been cleared, or a period of five minutes has elapsed between train movements.

Personal liability is imposed by the State of Indiana upon any engineer or any other person who fails to comply with these laws.

A city or incorporated town must receive the permission of the Public Service Commission of Indiana before making any regulation as to the sounding of whistles or ringing of bells. Otherwise, the above requirements must be met.

2. State of Indiana whistle regulations are modified to the following extent within the city limits of Lafayette:

The whistle will not be sounded except as a danger signal in extreme emergency;

The engine bell must be run constantly while the locomotive is in motion within the corporate limits of the city.

3. Within the City of Frankfort:

Except in emergency to prevent an accident, and also except as noted, ordinance prohibits the sounding of whistle or other engine signals for any street or alley. (NOTE; Whistle WILL BE SOUNDED for Rossville Ave. and O'Neil St. crossings in accordance with Rule 14(1), Book of rules.)

4. Within the city of Lafayette:

Underwood St. M.P. D254.1 can be blocked in excess of 10 minutes.

- 5. A permanent derail has been installed on the Frankfort Branch, west of Smith Street, at M.P. SP258.5. This derail is installed to protect cars being delivered by the KBSR in interchange at Lafayette, Indiana.
 - 6. Frankfort Yard:

Road engines will receive instructions from South or East Yard Clerk, Lafayette, designating tracks to be used to yard train.

To avoid unnecessary blocking of crossings within the City, both public and railroad, Frankfort and CERA movements will be governed as follows:

- (a) Eastward movements will not depart until authorized by Lake Division Dispatcher.
- (b) CERA westward movements must contact Illinois Division Dispatcher by radio or by telephone located at M.P. SP204.29.

A crew member of westbound trains will promptly notify the Decatur Dispatcher when train is ready to depart.

7. Within yard limits between Junction and West Peru all movements are under the jurisdiction of the dispatcher at Fort Wayne.

Movements against the current of traffic within these limits must not be made without permission of the dispatcher at Fort Wayne, who must arrange for protection of such movements.

No train or engine will enter the main track or cross over from one main track to the other through hand-operated switches without his permission (Rule 404 applies).

All movements against the current of traffic within these limits must be made at a speed that will permit stopping within one-half the range of vision, but not exceeding 20 miles per hour.

The dispatcher at Decatur will not display a proceed signal for an eastward movement at West Peru without the permission of the Fort Wayne dispatcher.

All trains or engines must secure permission from the dispatcher at Fort Wayne to depart Peru. It will be the responsibility of the conductor and/or engineer to secure this permission.

Operation of on-track equipment will be under the provisions of Operating Rule 809.

- 8. All movements over the WSRY from Logansport to Clymers will be authorized by the CERA Dispatcher at Kokomo. CERA's dispatcher monitors AAR radio channel 23 (160.455 MHZ) or can be reached at 317-459-3196 Monday through Friday between the hours of 7:00 AM and 11:00 PM. All movements on the WSRY will be made at yard speed, Rule 93 will govern.
- 9. When trains meet at Attica, if eastbound train exceeds 8400 feet in length, the eastbound train should avoid blocking Perry Street until the opposing train is near.
- 10. NS trains will operate on the IC, Champaign District, from Tolono, Illinois, M.P. IC137.1, to Champaign, Illinois, M.P. 127.8. Engineer or Conductor on NS crews will contact the IC Dispatcher in Chicago, Illinois, at 821-7743 microwave or 1-800-338-0790, to receive General Orders and permission from IC Dispatcher to enter the IC Railroad at Tolono, Illinois. Conductor will also report to IC Dispatcher in Chicago when clearing the IC Railroad at Champaign and Tolono, Illinois.

NS employees operating on the IC will comply in all respects with IC Operating Rules and Regulations, and the movement of NS trains and equipment will at all times when operating on the IC be subject to the instructions and rules of the IC Railroad.

IC Bulletin Orders are located at Crew Report Room at Tilton for government of NS employees operating over the IC Railroad between Tolono, Illinois, and Champaign, Illinois.

At Champaign, before proceeding to Solo Cup, permission must be secured from the ConRail North Route Dispatcher located at Indianapolis, Ind. who will then issue a ConRail Form D order. This permission must be secured before opening switch and/or fouling ConRail main track. A telephone is located at Randolph St. for the ConRail North Dispatcher. The Dispatch number is 1-317-267-4261 or 1-317-267-4850.

11. Cars left on Tracks 1 and 2 and 3 at Quaker Oats, M.P. D299.0, Danville, Illinois, will be secured with 100% hand brakes.

Bloomington District

- 1. No restricted car that exceeds 10'8" in width or 15'6" in height, or is in excess of plate "B" as designated in the equipment register, will be allowed to depart Peoria in any "NS" train without proper waybill 694 attached to car and clearance message.
 - 2. P&PU JUNCTION
 - (2) All trains run via P&PU RR between P&PU Jct. and East Peoria, and P&PU Operating Rules and Special Instructions, revised November 1, 1991, govern movements in this territory.
- (b) All trains, engines, and track equipment must receive permission from the Train Dispatcher before fouling main track for movement in either direction between P&PU Jct. and Wesley Jct.
- (c) A remote control switch located at West Washington Street crossing, East Peoria, is controlled by P&PU's dispatcher. Trains, engines, and track equipment will operate over territory on signal indication.
- 3. Between Farmdale, M.P. SP410.6 and P&PU Jct.:

Operating Rule 93 is in effect, and all movements are under direction of the TPW Dispatcher.

Permission must be received from the TPW Train Dispatcher before any movement enters this track section. Train and engines must not enter this track section through a hand-operated switch without permission from TPW Dispatcher, and movements clearing this track section through a hand-operated switch must be reported clear to him.

4. Good Yard:

At SPCSL interlocking, flasher light highway warning signals at Washington Street do not protect movement on SPCSL interlocking connecting track. Movements over this crossing on that track must be protected by a crew member on the ground.

Normal position for CR connecting track switch at Dean (M.P. SP373.56) will be lined and locked for NS main track. Connecting track is equipped with hand-operated derail.

5. Central Soya Track, located at M.P. SP340.1 on the Bloomington District, Gibson City, Illinois, has two elevator tracks, No. 10 and No. 11, with a car capacity of approximately 10 covered hoppers each. Do not operate engine south of Central Soya's loading facility.

When crews set off equipment for loading, do not block the truck drive, located on the lead just south of the NS main line switch.

Employees must not ride side of equipment south of the No. 10 and No. 11 switch account close clearance at the rail unloading shed. Close clearance signs are posted at three locations on the north side of the rail loading shed.

Decatur Terminal

 $1.\,$ Operation on Main Track between Brush Interlocking and Wabic Interlocking.

No train or engine will enter the main track through a hand-operated switch within these limits without permission from the dispatcher. Permission must be secured before switch is opened.

Trains or engines clearing the main track through any of these switches must be reported clear to the dispatcher.

- 2. There are two IC/NS Railroad Crossings at Grade located at:
- (a) IC/NS crossing is located just west of Brush College Road on old Illinois Terminal main track.
- (b) IC/NS crossing is located north of North Yard Office, approximately 8 car lengths north of yard office, or approximately 15 car lengths south of Woodford Street.

These crossings are non-interlocked and protected by swinging gates which are to be left in the position last used. Trains and engines finding gate across NS track must stop and, after determining that

no IC movement is closely approaching the crossing, position gate across IC track, securing same. After gate is positioned and secured across IC track, NS movement may be made.

NS movements approaching either crossing are not required to stop if gate is seen positively to be positioned across IC track and protecting NS movement.

St. Louis Terminal

1. All operations between St. Louis and the locations shown below will be under the supervision of the Superintendent of Terminals, St. Louis.

M.P. S46.7 (St. Louis Dist.) M.P. D469.1 (Brooklyn Dist.) Entire Madison Branch Entire Alton Dist. M.P. 8.3W (Coapman Yard)

- 2. Trains and engines will be governed by Terminal Railroad Association of St. Louis operating rules and special instructions between WR Tower and May St. Interlocking (when operating by the Merchants Bridge route), between Coapman and SH Interlocking (when operating by Illinois Transfer Dist.) and at all other times when operating on their tracks.
- 3. The following train handling procedure must be used by enginemen on the curve descending Merchants Bridge between West Approach and May Street on the TRRA.

No more than 12 powered axles (except high adhesion units, 10 powered axles) may be on line and when necessary trailing units will be isolated to comply with this requirement. When approaching and negotiating curve, throttle must not be in a position higher than Notch 2. When speed cannot be controlled by this method, brake application may be made and released as necessary to control train speed. This procedure is in effect until the rear of train has cleared the curve at Grand Avenue, M.P. Sl.3.0. On train consist of 2750 feet or less, the dynamic brake may be used not to exceed 400 amps until the rear of train has cleared the curve at Grand Avenue, M.P. Sl.3.0.

Eastward trains that enter into the 8° curve just west of Merchants Bridge must not make a shoving movement until brakes have had sufficient time to fully release, and then only with no more than 12 powered axles (except high adhesion units, 10 powered axles) and throttle at the lowest possible position.

Crew members assigned yard transfer or shifters work will be responsible to ensure that large blocks of empty automobile rack cars or empty 85' or longer flat cars must be handled on rear of trains when moving over Merchants Bridge.

NOTE: This instruction applies to all thru freight trains as well as all yard transfer jobs and yard cuts. This instruction does not apply to Triple Crown RoadRailer trains.

- 4. St. Louis District
- (a) Except in case of emergency, the use of engine whistle within the city limits of St. Louis is prohibited. These limits extend from M.P. SL1.6 (St. Louis Avenue Yard) to M.P. SL7.2 (200 feet west of Goodfellow Blvd.).
- (b) Crossing protection at Missouri Bottom Road on the Brown Campus Lead (M.P. \$17.4) and at Earth City Expressway on the Earth City Lead (M.P. \$21.2) is not equipped for track circuit operation. Prior to any movement entering these crossings, an employee must unlock push button located approximately fifty feet from each edge of crossing, depress start button and allow crossing protection to operate a minimum of twenty seconds before any part of the movement enters the crossing.

Crossing protection must remain in operation until the entire movement has cleared the crossing. After movement has cleared, the stop button must be depressed and both boxes will be left locked.

5. Luther Yard

- (a) Dwarf signals are in service on both east and west ends of tracks 11 through 27, inclusive, for the purpose of indicating blue signal protection. When a blue light is displayed it indicates that workmen are on or about railroad rolling equipment and Operating Rule 26 applies. A yellow light displayed indicates that use of track is permitted. Absence of a light will have the same meaning as if a blue light were displayed.
- (b) Trains moving east out of Luther Yard must not foul turnout, M.P. SL3.1, located just west of East Grand Ave., until permissive signal indication is displayed on Home Signal to May St. interlocking.
- (c) Account short track circuits, all eastward trains, engines, and non-insulated on-track equipment must wait a sufficient length of time after having occupied the track circuit for Carrie Avenue crossing, M.P. SL4.3, for crossing protection to engage to ensure that the crossing gates are in the full down position prior to entering the crossing.
- (d) While equipment is moving through No. 1 Pocket at the east end of Luther Yard, personnel shall not attempt to line adjacent switches account close clearance.
- (e) When equipment of excessive dimensional width is operated on either the River track or Broadway track between Carrie Avenue, Luther Yard, and Grand Avenue, located immediately west of Merchant's Bridge, the adjacent track must be clear, unless arrangements have been made to observe and protect excessive width equipment.
- (f) Due to problems with locomotive fumes being pulled into the Beck Flavor Co. central air conditioning system, crews of eastward trains from Luther Yard will stop their trains short of Prarie Ave. (M.P. SL3.3) or pull them down to the clearance point at the end of the double track at Grand Ave. (M.P. SL3.1) when instructed to pull down for an air test or when waiting for a signal from the TRRA at May St.

6. A&E Line

- (a) The track section between M.P. AE13.4 (south end absolute block) and M.P. AE9.8 (WR Tower) is designated the A. O. Smith Thoroughfare and is not considered a main track, Operating Rule 105 governs. All switches on the A. O. Smith Thoroughfare may be left lined and locked as last used. Authority to occupy the A. O. Smith Thoroughfare must be granted by the A. O. Smith Trainmaster or by the Luther operator when the Trainmaster has so designated.
- (b) The track section between Hoyt Jct., M.P. AE9.3 and Bridge Jct, M.P. AE3.9 in under the control of the Luther Operator. Operation of trains, engines and on track equipment must be authorized by the Luther Operator who will enter all information pertinent to each movement on the prescribed form. When movement is complete and clear of this track section, crew member or employee in charge of on track equipment will report clear to Luther Operator.
- (c) A "Time Out" feature has been installed on the warning lights on old Route 3 in Granite city, Illinois, on the A O Smith old yard lead. Trains stopping, no closer than one car length from the crossing, after lights have been activated, will cause warning lights to time out after approximately 16 seconds.

- After warning lights have timed out, movement must use extreme caution when approaching crossing, making sure warning device has been activated a sufficient amount of time to warn motorists.
- (d) Southward trains and engines approaching 22nd Street crossing, Granite City, Illinois, from Yard Tracks No. 11 thru No. 16, proceeding onto Yard Track No. 10, will not exceed a speed of 5 MPH from start of crossing signal circuit until leading end of movement occupies the crossing. Crews yarding trains at the south end of A.O. Smith New Yard must not leave cars fouling the crossing protection circuits at 22nd St. Crossing rails on both sides of 22nd St. are painted yellow on tracks 8, 9 and 10 approximately 100 feet from the crossing to mark the limits of the circuits.

7. T&E Line

The track section between M.P. A0.3 (ADM stop sign) and M.P. A5.0 (Woodriver interlocking) is designated the Federal Thoroughfare and the track section between M.P. A5.0 (Woodriver interlocking) and M.P. A9.2 (south of Roxana Yard) is designated the Roxana Thoroughfare. These thoroughfares are not considered main track and Operating Rule 105 governs. All switches on the T&E Line may be left lined and locked as last used. Trains, engines and on track equipment will use the Federal Thoroughfare and the Roxana Thoroughfare on verbal authority of the Luther operator. When movement is complete and clear of these throughfares, crew member or employee in charge of on track equipment will report clear to Luther operator.

8. Brooklyn District

- (a) Movements against the current of traffic between WR Tower and Poag Jct. may be made on authority of the operator at Luther, who must not grant such authorization until protection against opposing movements has been provided. Trains or engines must not enter the main track or cross over from one main track to the other through hand-operated switches within these limits without permission of the operator at Luther.
- (b) Following instructions shall govern crews operating in and out of Mitchell Yard on the Alton and Southern Railroad:
 - Absolute Block is in effect between Mitchell Yard, M.P. 20.9 (Absolute Signal to Lennox Interlocking) and M.P. 16.4.
 - (2) Trains or engines must not enter this block without authority of A&S Crest Yardmaster.
 - (3) Crews must report promptly to Crest Yardmaster when entire train has cleared absolute block and switches have been restored to normal position.
- (c) Upon arrival Mitchell, M.P. D474.6, if A&S crew is waiting for train, NS crew will secure permission to use crossover, line switches for movement to the A&S, wait prescribed time, then cross over to the A&S, stopping at the dwarf signal governing movement to the A&S Railroad. NS crews will turn train over to the the A&S crew at that point. NS crew will remain over the crossover until the rear of train has cleared onto the A&S Railroad and will restore all switches to normal position. If NS crew arrives and A&S crew is not there or permission to cross over will not be granted for an extended period of time, NS crew will deliver train on the southbound main as in the past.
- (d) The Brooklyn Main between WR Tower Interlocking, M.P. D480.63, and VC Belt switch at the north end of Brooklyn Yard, M.P. D483.55, is within yard limits and all train and engine movements must be made at a speed that will permit stopping within one-half the range of vision but not exceeding 10 MPH. Operation of trains, engines and on-track equipment between WR Tower Interlocking, M.P. D480.63, and the VC Belt switch at the north end of Brooklyn Yard, M.P. D483.55,

must be authorized by and made under the direction of the Luther operator. The operator at Luther will enter all information pertinent to each movement on the prescribed form. When movement is complete and clear of this track section, crew member or employee in charge of on track equipment will report clear to Luther Operator.

9. V&C Belt

The VC Belt between the north end of Brooklyn Yard, M.P. D483.55 and the W-Line Y Switch Coapman Yard, M.P. 4.3W, is within yard limits and all train and engine movements must be made at a speed that will permit stopping within one-half the range of vision but not exceeding 10 MPH. Operation of trains, engines, and on-track equipment between the north end of Brooklyn Yard, M.P. D483.55 and the W-Line Y Switch Coapman Yard, M.P. 4.3W must be authorized by and made under the direction of the Luther operator. The operator at Luther will enter all information pertinent to each movement on the prescribed form. When movement is complete and clear of this track section, crew member or employee in charge of on track equipment will report clear of Luther Operator.

- 10. Coapman
- (a) All train and engine movements and all movements of on-track equipment between Yard Limit sign, M.P. 8.3W and Coapman Wye, M.P. 4.3W, must be authorized by the operator at Luther.
- (b) Westward trains arriving Coapman Yard must not pass the Yard limit sign at M.P. 8.3W without first securing permission and yarding instructions from the operator at Luther. Kentucky Division trains will not have timetable schedule authority within Coapman yard limits.
- (c) Within Yard Limits between M.P. 8.3W and A&S Crossing all trains and engines operating on the main track must move prepared to stop within one-half the range of vision but not exceeding 20 MPH unless moving on a Clear signal. Movements on tracks other than main track will be governed by Operating Rule 105.
 - The operator at Luther will enter all information pertinent to each movement on the prescribed form.
- (d) Eastward Kentucky Division trains arriving on main track adjacent east end of Coapman siding, M.P. 8.2W, and awaiting Amtrak No. 59, will activate signal request button located on signal bungalow in vicinity of spring switch to clear signal for No. 59. Signal request has a time release limit of ten (10) minutes. If signal does not clear at end of ten (10) minute wait period, thence crew will notify No. 59 upon arrival that time limit has expired. It will not be necessary for No. 59 to wait an additional ten (10) minutes, nor line spring switch for No. 59's movement. Train No. 59 only has to comply with Rule 402 and other applicable rules.

When signal fails to clear for train leaving east end of Coapman siding, M.P. 8.2W, thence signal request button must be activated and, if signal fails to clear after ten (10) minutes, train will proceed in accordance with Rule 402 and other applicable rules. It will not be necessary to line spring switch and/or wait an additional ten (10) minutes.

Any signal failure must be reported to the Kentucky Division chief dispatcher.

(e) In an effort to minimize blocking of the A&S interlocking at the east end of Coapman Yard, eastward/southward trains making pickups at Coapman will precharge and pretest the pickup in accordance with Form NS-1., Rule A-15, prior to doubling the pickup to the body of their train. Tail air gauges to be used in pretesting the pickups will be available from railroad police officers working in the Coapman Yard area. Prior to their train arriving Coapman Yard, conductors will contact the police officer by radio to determine the officer's location and make arrangements to obtain the tail gauge from the officer at that location, as the officer may be engaged in equipment surveillance. Upon completion of the prestest of the pickup, the conductor will arrange to return the gauge to the officer or leave it at a secure, agreed-to location (such as phone box, bill box, etc.) for the officer to retrieve at a later time. In the event that a railroad police officer is not present at Coapman Yard at the time a pickup is to be made, it will be made in accordance with Form NS-1., Rule A-14. However, all effort to minimize the blocking of the A&S crossing during operations at Coapman Yard are requied.

All northward/westward trains working at Coapman Yard must clear the A&S interlocking while making setoffs.

- (f) When picking up interchange cars at Coapman Yard, East St. Louis, Illinois, crew members must inspect cars to determine if any cars are high and wide loads, including double stack containers. If any of these type cars are found in pickup, then conductor must contact chief dispatcher at Somerset, Kentucky, for movement authority.
 - These instructions are in addition to all other instructions and rules regarding handling interchange cars.
- (g) Locomotives, cabooses, EOT devices and other "high risk" equipment must not be left at Coapman without permission from proper authority.
- (h) The normal position of the switch connecting the Outbound Track and the A&S Connection Track east of A&S crossing is lined and locked for movement from the Outbound Track to the A&S Connection Track.
- (i) The normal position of the switch connecting the Outbound Track and the A&S Connection Track west of A&S crossing is lined and locked for straight movement on the Outbound Track.
- (j) The normal position for switches at Coapman Yard between A&S crossing and TRRA Connection Track (M.P. 4.8W) will be lined and locked for movement on main track. Main line switch governing movement to TRRA Connection Track (M.P. 4.8W) may be left lined as last used.
- (k) When deliveries are made to A&S Railway at Coapman Yard, it will be the responsibility of the conductor to report time of delivery to the operator at Luther.
- 11. Madison Branch
- (a) Westbound trains must not proceed beyond A&S without instructions from the operator at Luther.
- (b) Before entering Eastern connection, trains and engines and on-track equipment must secure permission from TRRA.
- (c) Two derails are installed at Leclaire, Illinois, on the Madison Branch main track. The west derail is located at M.P. TS433.4 and the east derail is located at M.P. TS432.3. Derail signs are located adjacent to each derail. These derails must be locked in the non-derailing position unless the track between them is occupied by unattended cars or equipment. All trains and on-track equipment movements must approach these derails prepared to stop, expecting to find them in the derailing position.
- (d) CNW trains must have permission from NS Dispatcher at Decatur prior to entering NS Madison District Main Track at LeClaire. After permission has been received, CNW crews may use east crossover, M.P. TS432.3, and west crossover, M.P. TS433.4, to yard train on main track between crossovers.

Brooklyn District

1. When switching the following locations, use flag protection account rusty rails not activating automatic crossing protection at all times:

> Palmer Morrisonville

Elevator Track

Elevator Track and Old Northward Track

Harvel

Elevator Track and Siding

Raymond

Litchfield

Elevator Track - Protect Main Street and Springfield Road.

Old Northward Track - Protect

Ferdon Street.

2. Any trains being delayed at Karnes for meets more than ten (10) minutes must cut road crossing. Contact dispatcher to see how long your train will be there on arrival.

Springfield/Hannibal District

- 1. Gravel unloading pit at Henry Nelch & Son, Springfield, Illinois. has weight restriction that prohibits locomotives on it. Cars for unloading at this industry are to be set to the Gravel Track just to clear the Engine Lead. The cars will then be pulled to spot by Nelch personnel and pulled back for NS when empty.
- 2. Account steep grade on the Mobil Lead, M.P. 446.8, Jacksonville, Illinois, the minimum number of hand brakes on six (6) or more cars is four (4) hand brakes.

Additional hand brakes must be applied where four (4) is not a sufficient number of hand brakes to properly secure equipment left standing.

3. Naples Terminal Facility, M.P. DH470.6

Equipment must not be handled within 100 feet of building on tracks 2 or 3 until a clear understanding has been reached with the Loading Foreman as to the moves to be made.

Account close clearance, employees must not ride side of equipment while in building.

Normal position for both switches of the crossover at the east end of this facility will be for straight track movement and must be left in this position after use.

4. Hannibal - Outer Depot

Trains and engines must not enter the main track through a handoperated switch, and on-track equipment must not occupy the main track, between Bridge and Oakwood, M.P. H4.4, without first securing permission from the Operator at Bridge.

Before granting such authority, the Operator at Bridge must secure permission from the Train Dispatcher and, in addition, must know that the track section to be entered is clear of approaching movements.

- 5. Sidings at Huntington, Clapper and Holliday will be used for the meeting or passing of trains.
- 6. Eastward Hannibal District trains will not depart from Moberly Yard unless a clear indication is displayed by signal at Coates Street, and permission is secured from the Dispatcher.
 - 7. Operation between Hannibal and Qunicy.

Trains will operate between Hannibal and Quincy via Burlington Northern, Galesburg Division, 8th Subdivision (West side of river), and will be governed by their rules and timetable.

Trains originating at Hannibal for operation over BN Trackage to Qunicy willl receive BN Track Warrant and Track Bulletin at Bridge.

Trains from BN at Hannibal may proceed to Outer Depot on signal indication.

Kansas City Terminal

1. Movement of trains and engines between Birmingham and 5th St. will be under jurisdiction of BN Dispatcher and governed by BN Rules, BN signal aspects are displayed between Birmingham Jct. and 5th St., exception eastward signals at Birmingham Jct. display NS aspect.

- 2. Between Birmingham Jct. and 5th St. there are two (2) main tracks. North track is track No. 1 and South track is track No. 2. TC in effect Birmingham to Block 224; Interlocking in effect between Block 224 and Fifth Street.
- 3. In case of train accident or personal injury occurring between Birmingham and Fifth Street conductors will promptly notify the Superintendents of the BN and NS.
- 4. Train or enginemen observing that highway crossing signals or gates are not operating properly should report this fact promptly to the Superintendents and Chief Dispatcher BN and NS.
- 5. TC is in effect between Birmingham and Claycomo Spur track
- 6. Train and engine movements on Claycomo Spur between Claycomo Yard and TC signal Kearney Branch must proceed prepared to stop within one-half the range of vision, but not exceeding 15 MPH.
- 7. Trains and engine movements will be governed by NS Rules and the Greater Kansas City Area Operating and Special Instructions while on K.C.T. Trackage.
 - 8. North Kansas City Yard
 - (a) Normal position for switches at east end of Roundhouse departure track: and at east end of Tracks 54 and 55, will be lined for movement on the lead. They must be left in this position after use.
- (b) When necessary to make switching arrangements (lining of power switches, signals, etc.) with the operator at KN, North Kansas City, such arrangements must be made direct with him when communication is available.
- 9. All trains and engines must have permission from the trainmaster on duty at Claycomo prior to entering the Claycomo Spur from Birmingham. If no Trainmaster is on duty permission must be secured from N. Kansas City Trainmaster.
- 10. At south end of Claycomo Yard, trains doubling cuts of 25 or more cars must have air cut in and know that brakes apply and release on rear car of the first cut.

Trains and engines switching at south end of yard, when handling 25 or more cars, must have brakes cut in on 5 cars next to engine and know that brakes apply and release on all 5 cars.

11. Armourdale Terminal (SP Yard)

Due to roll outs in the Fruit Yard, a minimum of four (4) hand brakes must be set on the east end of these tracks (401 thru 404) when leaving a cut of cars or a made up train in these tracks.

All locomotives destined to the roundhouse facility at Armourdale will be required to enter this facility via the east end. All inbound engineers will be required to contact the roundhouse foreman prior to entering this facility to ascertain where the roundhouse foreman wants the units located.

All outbound locomotive consist will be made up to depart the roundhouse facility from the west end.

Moulton/Des Moines District

- 1. Home signals governing movement through interlocking at Albia-BN display Burlington Northern aspects.
- 2. Maintenance of Way forces must notify BN Train Dispatcher at Galesburg, IL, of slow orders or requirements restricting any train movements between Albia and Des Moines.
- 3. In case of accident, personal injury, or any emergency between Albia and Des Moines, both BN and NS Chief Dispatchers must be notified.
- 4. Northward trains approaching the BN Railroad at Albia must not pass M.P. SD270.5 before securing permission from the BN Train Dispatcher to pass through the interlocking at Albia. Southward trains

approaching the BN Railroad Crossing at Albia must not pass BN M.P. 0.5 before permission is secured from the BN Train Dispatcher to pass through the interlocking at Albia. In the event of radio communication failure, wayside telephones have been installed at M.P. SD270.5 and BN M.P. 0.5. The BN Train Dispatcher can be contacted through the wayside phone at these locations.

St. Louis and Kansas City Districts

- 1. Westbound trains picking up cars off CMLA Track, Mexico, Missouri are to cut and leave train south of JJ Street Crossing unless train length is 5300 feet or less.
- 2. Union Pacific track warrant and associated track bulletins will be issued to Norfolk Southern trains at Moberly, and yard engines at North Kansas City, if necessary. NS crews operating on UP trackage must have UP warrant, bulletins and UP Timetable in their possession. If unable to secure the UP track warrant and dispatcher bulletin, contact the train dispatcher at Decatur prior to leaving Moberly.
- 3. All trains and engines using siding at Centralia, Missouri, must protect the crossing and not enter the crossing until the warning device is known to be operating at the following locations:

Howard Berton Drive at M.P. \$123.7 Jefferson Street at M.P. \$123.9 Allen Street at M.P. \$124.3

- 4. Effective immediately, use of Emerson Street Crossover, M.P. S149.2, is restricted as follows:
 - (a) Trains or engines pulling out of the west end of Tracks 2 and 3 or doubling cars into west end of Tracks 2 and 3, must utilize the Tail Track.
 - (b) Trains and engines doubling to and from any tracks other than Tracks 2 and 3 at the west end, must use Tail Track when possible.

7d. YARD LIMITS

All trains and engines, including First Class Trains, must move at yard speed (Rule 93) with Yard Limits as follows:

(Note: All mainline movements on Illinois Division are governed by TC, RC, 251 and TWC Rules. Rules governing First Class Trains are not applicable.)

STATION NAME	YARD LIMITS	EXIST		
Lafayette District				
Реги	M.P. D204.5	(West)		
East Yd./Lafayette Jct.	M.P. D253.1		to	M.P. D257.2
Eldan/NT Jct.	M.P. D296.2		to	M.P. D306.7
Decatur	M.P. D370.5	(East)		
Frankfort Branch				
Frankfort	M.P. SP237.0	(West)		
Brooklyn District				
Poag Jct.				
(St. Louis Term)	M.P. D469.1	(North)		
Madison Branch				
CNW Madison Yard	M.P. TS445.0	(East)		
Leclaire/Edwardsville	M.P. TS433.7	,	to	M.P. TS431.0
Coffeen	M.P. TS396.0	(West)		
Springfield/Hannibal	District			
Moberly	M.P. H68.5	(East)		
Meredosia Branch				
Bluffs	M.P. M467.0	(North)		
Meredosia	M.P. M470.8	(South)		
St. Louis District				
Urbandale	M.P. \$146.4	(East)		

7d. YARD LIMITS (Cont'd)

STATION NAME YARD LIMITS EXIST

Kansas City District

Huntsville M.P. S155.0 (West)

Moulton Des Moines District

Moberly M.P. SD150.4 (North)

Albia M.P. SD272.4 to M.P. BN0.8

Des Moines M.P. SD334.1 (South)

7e. JOINT TRACKAGE

Trains and engines of the Illinois Division will use tracks of other Divisions and foreign lines in accordance with their timetables, rules and regulations, as shown below:

- Lake Division between West Peru (M.P. D204.5) and Junction (M.P. D200.2)
- Winnamac Southern (WSRY) between Logansport (M.P. WSRY 73.0) and Clymers (M.P. WSRY66.0)
- Illinois Central (Champaign Dist.) between Tolono, Il. (M.P. IC137.1) and Champaign, Il. (M.P. IC127.8)
- Conrail (Pekin Secondary Track) between Rising (M.P. CR40.0 and Urbana (M.P. CR29.0)
- Illinois Central Railroad (Gilman District) between Gibson City (M.P. IC110.0) and Gilman (M.P. IC81.1)
- Illinois Central Railroad (Chicago District) between Gilman (M.P. IC81.1) and 95th Street (M.P. IC12.4)
- TRRA between WR Tower (M.P. D480.4) and May Street Interlock (M.P. SL3.1)
- TRRA between SH Interlock and Coapman Yd. (M.P. 4.8W)
- TRRA between SH Interlock and CNW Madison Yd. (M.P. TS447.0)
- TRRA between West Approach and North Market.
- BN Railroad between Hannibal (M.P. DH515.0) and Quincy (M.P. BN515.2)
- ATSF Railroad between WB Jct. (M.P. S212.8) and CA Jct. (M.P. S242.4)
- ATSF and KCT Railroad between CA Jct. (M.P. S242.4) and KCT Railroad between CA Jct. (M.P. S242.4) and Argentine Yard (M.P. ATSF3.9)
- BN Railroad between Birmingham (M.P. S266.6) and 5th St. (M.P. S276.4)
- KCT Railroad between 5th St. (M.P. S276.4) and Kansas City (M.P. S279.1)
- BN Railroad between Albia (M.P. SD272.4) and Des Moines (M.P. DU340.2)
 - Trains and engine of other Divisions and foreign lines will use Illinois Division tracks in accordance with NS timetables, rules, and special instructions as shown below:
- Conrail between Wabash River Bridge (M.P. SP259.1) and Altamont (M.P. SP254.8)
- CR Railroad between Dean (M.P. SP373.3) and Farmdale (M.P. SP410.8)
- TP&W Railroad between Crandall (M.P. SP402.5) and Farmdale (M.P. SP410.8)
- IC Railroad at Gibson City between (M.P. SP340.1) and M.P. (SP342.0)
- BLOL Railroad at Gibson City between (M.P. SP340.2 and M.P. SP342.0)
- Kentucky Division between Coapman Yard and A.O. Smith Yard via V&C Belt and Brooklyn District
- GWWR between Bridge Jct. (M.P. AE3.9) and CNW Madison Yd (M.P. AE6.6)
- CNW between Stock Yd. Crossover (M.P. AE4.6) and A O Smith Yd. (M.P. AE11.4)

7e. JOINT TRACKAGE (Cont'd)

- CNW at LeClaire between (M.P. TS432.3) and (M.P. TS433.4)
- SPCSL at Alton, Illinois between (M.P. A0.0) and (M.P. A1.0)
- TRRA between A.O. Smith Yard (M.P. AE11.4) and Edwardsville Road (M.P. AE8.0)
- TRRA between May Street (M.P. SL3.1) and Luther Yard (M.P. SL5.1)
- IC Railroad between Wood River (M.P. A5.0) and Federal (M.P. A1.7)
- WGR Railroad between Kelly (M.P. S188.6) and Brunswick (M.P. S185.6)

7f. FLAGGING DISTANCES

The following will be observed by Engineering Department employees when providing flag protection:

Maximum	Minimum		
Authorized Speed	Flagging Distance		
0 - 10 MPH	1/4 Mile		
11 - 20 MPH	1/2 Mile		
21 - 30 MPH	3/4 Mile		
31 - 40 MPH	1 Mile		
41 - 50 MPH	1 1/4 Miles		
51 - 60 MPH	1 1/2 Miles		
61 - 70 MPH	1 3/4 Miles		
71 - 80 MPH	2 Miles		

Torpedoes will be placed the same distance in advance of the flagman, but not exceeding one (1) mile.

7g. LOCATIONS WHERE RUNNING SWITCHES ARE AUTHORIZED

Running switches in accordance with Rule 103(c) are permitted at: **Brooklyn District**

A5.5 Wilds 1 and 2

A6.3 Hartford 1 and 2

Staunton	M.P.	D445.4	Livingston Pipe
Taylorville	M.P.	D402.8	GP Lead
•	M.P.	D402.5	New Yard Lead

Edwardsville M.P. TS431.7 Richards Brick

M.P.

St. Louis Terminal

Roxana

Wood River M.P.

Robertson	M.P.	\$20.4	Westlake Spur
Earth City	M.P.	S21.2	Earth City Lead
St. Peters	M.P.	S33.0	Arrowhead Industrial Park
O'Fallon	M.P.	S36.4	O'Fallon Lumber & Supply Co.
Wentzville	M.P.	S45.0	Metalife Company
	M.P.	S45.3	MFA Fertilizer
-	M.P.	S46.4	Missouri Concrete Products
t. Louis Distr	ict		

Mexico M.P. S108.0 CMLA

M.P.	\$108.8	TK Lead	
M.P.	\$110.0	North Storage	Crossover

Moulton/Des Moines District

Des Moines	M.P. SD335.2	West End McCoy Siding
	M.P. SD337.0	Armstrong
	M.P. DU338.3	West Leg Wye
	M.P. DU340.2	Wye (South Side)

Bioomington District

Bloomington M.P. SP379.0 Good Yard

Lafayette District

Logansport	M.P.	D220.6	Wilson Foods
Logansport	M.P.	D220.9	Logan Refrigeration

Frankfort Branch

Lafayette S. Yd. M.P. SP253.2 East End A Yard

8. SPRING SWITCHES

Spring switches are located as follows:		
TaylorvilleBoth ends	siding	
Midway Both ends	siding	
Karnes Both ends	siding	
Huntington Both ends	s siding (Note 1))
Clapper Both ends	s siding (Note 1))
Holliday	s siding (Note 1))
Benton CityBoth ends	s siding	
High HillBoth ends	s siding	
Coapman (M.P. 8.3W) East End Outbound	1 Track	

While a train or engine is operating under signal indication, indicating proceed at restricted speed at a facing point spring switch, the following instructions are in effect:

- (a) A crew member must be on the ground at the switch ahead of the movement and examine the facing spring switch point to determine that it is properly fitting up and remain there until the leading wheel occupies the point.
- (b) Exception: This procedure is not required when spring switch is equipped with a spring switch light displaying the color green.

NOTE 1 - If leaving signal from siding continues to display stop, Rule 423 will apply. If authorized to proceed, crew member must line switch to reverse position and observe that points are properly positioned, then line switch back to normal position. If signal does not then indicate proceed, proceed at restricted speed.

9-a. SPEED RESTRICTIONS
General Speed Restrictions

General Speed Restrictions	MAXIMUM Miles Per Hour
CONDITIONS	All Trains and Engines
CARS	
Trains handling more than 40 empty multi-	•
levels unless handled as solid block on the	
rear of train (up to 70 empty multi-levels)	
or in solid train (up to 150 empty multi-	
levels)	25
Trains handling more than 40 OTTX flat cars	
either loaded or empty	30
PRR (or PC or CR) short gons in series	
13000-15999 and 500000-502920,	
loaded	30
empty	35
Short ore hopper cars:	(0
DM&IR, loaded	40
empty	45
Other, loaded	30
empty	35
Trains handling empty bulkhead flat cars and/or	/
empty woodrack cars, foreign or system	45
EXCEPTION: Restriction does not apply to	
center beam flat cars.	1
Southern log cars series 118000 - 118039 when	/ <u>-</u>
empty	45
Trains handling flat cars loaded with creosoted	1
poles	45

9-a. SPEED RESTRICTIONS (Cont'd)
General Speed Restrictions

General Speed Restrictions	
CONDITIONS	MAXIMUM Miles Per Hour All Trains and Engines
LOCOMOTIVES	
Controlling locomotive not equipped	
with speed indicator	20
Single light locomotive	30
All steam locomotives	40
All other light locomotive consists of 2 or	
more units	50
TRAINS	
Key Trains (See Sect. 17)	50
Loaded Welded Rail Trains	50
All other trains	50
Trains consisting entirely of Triple Crown,	
TOFC/COFC, Multi-level, or Stack equipment	
will be governed by passenger train	
speed on curves and turnouts not to exceed.	60
When Triple Crown or freight trains handling	
one or more loaded cars is operated on	
jointed rail, the engineer will avoid prolonged	
operation in speed range of 16 to 21 MPH.	
If speed cannot be maintained above 21 MPH,	
it must be reduced to 15 MPH.	
Passenger Trains	65
OTHER	
Snow plow NW 590000, when plowing	25
Shoving movements with NS31	
on leading end	25
Single unit of self-propelled work equipment	
that is designed to shunt track circuits (i.e.	
FRA T-10, Sperry Rail Test cars, Loram	
railgrinder and ballast cleaner),	30
Lucky Loader, NW 14317 loaded on gon	
NW 59802	35
	

9-b. SPEED RESTRICTIONS BY DISTRICT

A train entering or leaving a siding or moving through a crossover or turnout must not exceed 15 MPH unless otherwise provided.

Except when authorized by Timetable, or Special Instructions, speed on siding must not exceed 10 MPH.

Maximum speeds through turnouts listed below govern all trains. When moving in accordance with Rule 283 (Diverging Clear), a train must approach these turnouts not exceeding the speed authorized for that turnout.

LOCATIONS AND CONDITIONS	Miles Per Hour All Trains and Engines
(1) FRANKFORT BRANCH:	
All industrial tracks (Frankfort Yard)	5
All yard tracks (Frankfort Yard)	10
Main line between CR Diamond, M.P. SP234.8.	
and Frankfort, M.P. SP236.0	15

9-b. SPEED RESTRICTIONS BY DISTRICT (Cont'd)

LOCATIONS AND CONDITIONS	Miles Per Hour All Trains and Engines
(1) FRANKFORT BRANCH (Cont'd):	<u> </u>
Between: Frankfort, M.P. SP236.0 and west end of South Yard Siding, M.P. SP252.9	49
Except at Frankfort between M.P. SP236.2 and M.P. SP237.0, engines only	20
M.P. SP252.9, west end South Yard siding and M.P. SP256.4, west end Altamont Siding	45
Between M.P. SP252.9 and M.P. SP256.4, engines only	20
Transfer Track	30
Wabash River Bridge	10
except main track	10 10
Through crossover at East Demun Entering, leaving and through Demun	30
connecting track	30
Entering and leaving through Transfer Track	10
Between: M.P. D200.2 and M.P. D204.5, Peru (Engines only, Ordinance)	25
equipment, or passenger trains	60 50
Logansport, and a point 2500 feet west, between M.P. D218.5 and M.P. D219.2 Clymers, over CR crossing, M.P. D224.5	25 50
On curve at Delphi, between M.P. D238.5 and M.P. D239.0.	35
On curve one mile west of Delphi, M.P. D239.4	45
(#1 track)	25
Lafayette Detween M.P. D234.9, and M.P. D237.2, Lafayette Jet., westbound (#2 track) On curve east of Attica, between M.P. D276.3	25
and M.P. D276.5	35
M.P. D276.7 and M.P. D277.0 Over Wabash River bridge and on first curve west of bridge, Attica, between	35
M.P. D277.0 and M.P. D278.0	40
Danville, between CR and CSXT crossings Between CR Crossing, Danville, M.P. D300.8,	25
and 14th Street, Tilton, M.P. D303.5	. 30

Bement, between Station and a point 2000 feet west, between M.P. D355.2 and M.P. D355.5. Within interlocking limits Wabic, M.P. D375.5. Covington Branch, Attica. Champaign Connection Track. TURNOUTS, CROSSOVERS, SIDINGS AND CONNECTING TRACKS: West Peru, through turnout to and from westward track (#2 Track) East Yard, Lafayette, through turnout to and from eastward track (#1 Track) Lafayette Jct., end of double track, M.P. D257.2 Entering, leaving, and through Demun Connection track Entering, leaving, and through Transfer Track, Lafayette Eldan, through turnout to and from	s Per lour Trains Ingines
Bement, between Station and a point 2000 feet west, between M.P. D355.2 and M.P. D355.5. Within interlocking limits Wabic, M.P. D375.5. Covington Branch, Attica. Champaign Connection Track. TURNOUTS, CROSSOVERS, SIDINGS AND CONNECTING TRACKS: West Peru, through turnout to and from westward track (#2 Track) East Yard, Lafayette, through turnout to and from eastward track (#1 Track) Lafayette Jct., end of double track, M.P. D257.2 Entering, leaving, and through Demun Connection track Entering, leaving, and through Transfer Track, Lafayette Eldan, through turnout to and from	
Within interlocking limits Wabic, M.P. D375.5 Covington Branch, Attica	40 45
Covington Branch, Attica. Champaign Connection Track. TURNOUTS, CROSSOVERS, SIDINGS AND CONNECTING TRACKS: West Peru, through turnout to and from westward track (#2 Track) East Yard, Lafayette, through turnout to and from eastward track (#1 Track) Lafayette Jct., end of double track, M.P. D257.2 Entering, leaving, and through Demun Connection track Entering, leaving, and through Transfer Track, Lafayette Eldan, through turnout to and from	15
Champaign Connection Track. TURNOUTS, CROSSOVERS, SIDINGS AND CONNECTING TRACKS: West Peru, through turnout to and from westward track (#2 Track) East Yard, Lafayette, through turnout to and from eastward track (#1 Track) Lafayette Jct., end of double track, M.P. D257.2 Entering, leaving, and through Demun Connection track Entering, leaving, and through Transfer Track, Lafayette Eldan, through turnout to and from	10
CONNECTING TRACKS: West Peru, through turnout to and from westward track (#2 Track) East Yard, Lafayette, through turnout to and from eastward track (#1 Track) Lafayette Jct., end of double track, M.P. D257.2 Entering, leaving, and through Demun Connection track Entering, leaving, and through Transfer Track, Lafayette Eldan, through turnout to and from	10
westward track (#2 Track) East Yard, Lafayette, through turnout to and from eastward track (#1 Track) Lafayette Jct., end of double track, M.P. D257.2 Entering, leaving, and through Demun Connection track Entering, leaving, and through Transfer Track, Lafayette Eldan, through turnout to and from	
East Yard, Lafayette, through turnout to and from eastward track (#1 Track)	25
eastward track (#1 Track) Lafayette Jct., end of double track, M.P. D257.2 Entering, leaving, and through Demun Connection track Entering, leaving, and through Transfer Track, Lafayette Eldan, through turnout to and from	ر 4
Lafayette Jct., end of double track, M.P. D257.2 Entering, leaving, and through Demun Connection track Entering, leaving, and through Transfer Track, Lafayette Eldan, through turnout to and from	25
Connection track	25
Entering, leaving, and through Transfer Track, Lafayette	30
Eldan, through turnout to and from	10
	40
N. T. Jct., through turnout to and from	40
East Bement, through turnout to and from	
BEMENT:	40
	40
VEECH:	40
Entering, leaving, and through sidings at Danes,	30
	25
Through turnouts East Passing Siding Tolono and	25
	25
Except: The maximum speed through the East Passing Siding Tolono and through the Passing Sidings Ryan and Homer is yard speed not exceeding 20 MPH until the head end of the movement passes the leaving signal at either end of the siding.	
When making trailing movements out of west end of Homer trains must not exceed 10 MPH until train occupies 1st crossing. After occupying 1st crossing, trains may proceed at prescribed speed.	
(3) DECATUR TERMINAL:	20
All tracks known as Old IT curve, Old IT main,	20
	10
All tracks in Staleys	5

9-b. SPEED RESTRICTIONS BY DISTRICT (Cont'd)

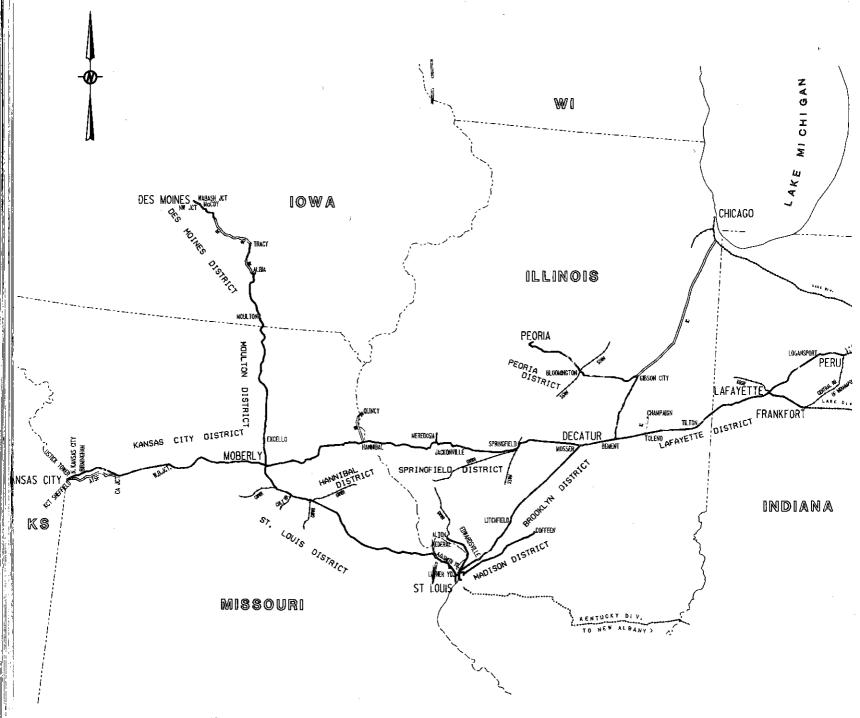
9-D. SPEED RESTRICTIONS BY DISTRICT (
LOCATIONS AND CONDITIONS	Miles Per Hour All Trains and Engines
(4) SPRINGFIELD/HANNIBAL DISTRICT:	
Within interlocking limits at Wabic	15
Between:	1,7
Wabic and Mosser, both tracks	30
Mosser and M.P. DH425, Curran, trains	
consisting entirely of TCS, TOFC/COFC,	60
stack equipment, or passenger trains	60 50
Except:	"
On two curves west of Riverton, between	İ
M.P. DH408.2 and M.P. DH408.8	35
Between M.P. DH408.8, Riverton, and	
M.P. DH416.2, Iles (engines only)	40
M.P. DH425, Curran, and M.P. DH433, Island Grove	50
M.P. DH433, Island Grove, and M.P. DH447,),0
Jacksonville, trains consisting entirely of TCS,	
TOFC/COFC, stack equipment or passenger	
trains	I .
All other trains	50
BN Wye Track, Jacksonville	10
M.P. DH447 and M.P. DH448, Jacksonville (Engines only)	35
M.P. DH448, Jacksonville, and M.P. DH503,	3)
Kinderhook	50
Except:	
On curves between M.P. DH454.7 and	
M.P. DH456.7	45
On curve between M.P. DH460.4 and M.P. DH460.7	45
On curve between M.P. DH460.7 and	3
M.P. DH460.9	40
On curves between M.P. DH464.2 and	1
M.P. DH466.3, east and west of Bluffs	40
On curve east of Valley City Bridge	20
between M.P. DH472.8 and DH473.6 Over Illinois River Bridge, between	30
M.P. DH473.6 and M.P. DH473.9, Valley City	30
On curves between west end Illinois River	Į.
Bridge, M.P. DH473.9, and M.P. DH475.5	40
On curve between M.P. DH475.5 and	į
M.P. DH476.0	35
M.P. DH503, Kinderhook, and M.P. DH512, East Hannibal, trains consisting entirely of TCS,	
TOFC/COFC, stack equipment or passenger	
trains	60
All other trains	50
M.P. DH512, East Hannibal, and M.P. DH514,	
Bridge	50
M.P. DH514, Bridge, and M.P. DH515.1, over	
Mississippi River Bridge and through tunnel to Bridge Street	10
Bridge Street, M.P. DH515.1 and M.P. H3, located	1
between Hannibal Bridge and Oakwood	20
Note: When engine of westward train passes	
over the point of switch located at M.P. H3,	
this restriction is complied with.	<u></u>

LOCATIONS AND CONDITIONS	Miles Per Hour All Trains and Engines
(4) SPRINGFIELD/HANNIBAL DISTRICT (Cont'd):	
Meredosia Branch	
Between Bluffs and M.P. M470.5	25
Between M.P. M470.5 and M.P. M472	10
Between M.P. DH515.1 and Orchard Street,	1
M.P. H3.3 (engines only)	*25
*When engine of westward train passes	
Orchard Street, M.P. H3.3, the restriction	
will have been complied with.	
Between M.P. H3.3 and Coates Street, Moberly,	
М.Р. Н69.8	50
Except:	
On curve between M.P. H35.8 and	4.5
M.P. H36.2 On curves between M.P. H69.6 and	45
	25
M.P. H69.9, east of Moberly Over Coates Street crossing, Moberly, M.P. H69.8,	35
until engine occupies crossing	15
TURNOUTS, CROSSOVERS AND SIDINGS:	1,5
Mosser, through crossover at M.P. D376.5	15
Entering, leaving, and through sidings at	15
Harristown, Dawson, New Berlin, Arnold,	
Chapin, Hadley, E. Hannibal, and Huntington	25
Except: Restricted speed must be observed	2)
when approaching inside crossover switch	
located at M.P. H14.1 and Pit Track Switch	
M.P. H14.8, Huntington	
Entering, leaving, and through siding at	
Griggsville	25
Exception: Trains and engines leaving	_
siding in an eastward direction must not	
exceed 20 MPH until lead unit occupies	
crossing located at M.P. DH478.9	
Through turnouts in other than main track	10
(5) MOBERLY YARD:	
Between Urbandale, M.P. S146.4 and	
Carpenter St., M.P. S147.7	40
Between Carpenter St. and Coates St.,	
M.P. \$148.2	25
Between Coates St. and Hannibal Jct. switch,	-
M.P. \$148.3 (St. Louis Dist.)	15
Between M.P. S148.3 and M.P. S148.4	25
Between Stamper Crossover, M.P. S148.4	
and M.P. S151.0 (Both Main Tracks)	35
Between M.P. \$151.0 and M.P. \$155.0	60
Except: On curves between M.P. S154.3 and	
M.P. \$155.0	50
Between Coates St., M.P. H69.8 and Stamper	25
Through turnout Stamper between eastward	
and westward main tracks, M.P. S148.5	25
Through Hannibal Jet. switch	25
Through all other main track turnouts and	10
crossovers	10
All movements over Coates St. until leading end occupies crossing	1.5
occupies crossing	15

9-b. SPEED RESTRICTIONS BY DISTRICT (Cont'd.)

LOCATIONS AND CONDITIONS	Miles Per Hour All Trains and Engines
(5) MOBERLY YARD (Cont'd):	
Moberly Yard, between M.P. SD148.1 and M.P. SD148.5	10
M.P. SD219	40
(6) BLOOMINGTON DISTRICT:	
Between M.P. C113.3 and M.P. C153.0, Bement	50
New Connection Track located at 95th Street End of block signs are located at various locations on the IC to indicate non-	10
assignable territory. Trains must proceed in accordance with IC Operating Rule 105.	
Old NKP Wye (BLOL Rwy.)	10
West Wye at M.P. C113.3	15
East Wye (IC Conn.)	10
North Wye (IC conn.)	15
Over CR Crossing, M.P. C131.8	40
Except on curve Bement, M.P. C152.3 to C153.0.	40
Between M.P. SP410.6 and M.P. SP395.3	40
Except interlocking Crandall (engines only)	20
Between M.P. SP395.3 and M.P. SP377.0 Except on curves between M.P. SP392.3 and	
SP391.5	45
Between M.P. SP377.0 and M.P. SP373.5 Between M.P. SP373.5 and M.P. SP340.5 Except on curves between M.P. SP373.5 and	49
SP372.8	40
Between M.P. SP340.5 and M.P. SP340.2	20
Loop Track, Good Yard, Bloomington/Normal TURNOUTS:	5
Bement, through turnout to and from	
Lafayette District	40
(7) BROOKLYN DISTRICT:	
Between:	
M.P. D375.5 and M.P. D479.8, trains consisting	1
entirely of Triple Crown, TOFC/COFC, multi-	
level stack equipment or passenger trains	. 60
M.P. D375.5 and M.P. D479.8, all other trains	. 50
Except:	. 15
Within interlocking limits at Wabic, both tracks Between Wabic and Mosser, both tracks	30
Within interlocking limits at Mosser,	
both tracks	. 25
Between M.P. D376.8, both tracks. Between M.P. D376.8 and M.P. D377.5,	
both tracks	. 40
M.P. D402.5 and M.P. D405.5, Taylorville	
M.P. D436 0 and M.P. D437.4, Litchfield	. 50
M.P. D437 4 and M.P. D437.8, Winston	. 40
Decamp, over CNW crossing, M.P. D452.1	. 40
On curve between M.P. D466.8 and M.P. D467.4 Mitchell, over UP crossing, M.P. D474.7 to	. 50
M.P. D474.8, both tracks	40
end of double track at WR Tower,	. 35
M.P. D480.4, both tracks	. 33

ILLINOIS....DIVISION



LOCATIONS AND CONDITIONS	Miles Per Hour All Trains and Engines
(7) BROOKLYN DISTRICT (Cont't):	
Through interlocking WR Tower Toward TRRA Toward Brooklyn	15 10
Turnouts and sidings: Entering, leaving and through sidings at	
Taylorville, Midway and Karnes Except: Taylorville siding-Trains using turnout at the	25
south end of Taylorville siding, M.P. D403.2, do not exceed 10 MPH	
through turnout approaching the main Cross Street crossing at M.P. D403.4 until gates are seen to be in the down	
position. After the gates are seen to be in the down position, train or engine may proceed at prescribed speed.	
Midway siding-Restricted speed must be observed when approaching Harvel Elevator track switch located at M.P. D422.4.	
Karnes siding-Restricted speed must be observed when approaching Karnes stub track switch located at M.P. D466.1. The most	
favorable indication that can be displayed by the signals governing movement through this siding is restricting. Restricted speed applies until	
the leading end of the movement is through any crossovers, turnouts, or	
interlocking limits governed by that signal; then train and engines can proceed at yard speed not exceeding 25 MPH.	
When trains meet at Karnes and the northbound train goes into the siding, do not line the south switch to normal	
position until the rear end of the northward train has cleared the southbound signal.	
Mosser, M.P. D376.4, both crossovers east of interlocking	15
from northward track (#1 Track)	40
from northward track (#1 Track)	40
Between: End of track east of Branch Street, M.P. SL1.4	10
and TRRA May Street Interlock, M.P. SL3.1 River Track and Broadway Track between TRRA May Street Interlock, M.P. SL3.1, and Carrie	10
Avenue, M.P. SL4.2	10 35 25
Evergreen, M.P. \$14.0 and M.P. \$15.0	25

9-b. SPEED RESTRICTIONS BY DISTRICT (Cont'd.)

LOCATIONS AND CONDITIONS	Miles Per Hour All Trains and Engines
(8) ST. LOUIS DISTRICT & ST. LOUIS TERMINAL (Cont'd):	
M.P. \$15.0 and Urbandale, M.P. \$146.4 Except:	60
Over Missouri River Bridge, between	
M.P. \$21.3 and M.P. \$22.9.	30
Curve between M.P. S25.1 and M.P. S25.6 Montgomery City, between Walker St., M.P. S83.57 and Route B, M.P. S85.19,	50
engines only	45
M.P. S108.7 and M.P. S111.7	30
Between M.P. S112.3 and M.P. S112.5 Centralia, over Jefferson St., M.P. S123.9,	40
and Allen St., M.P. S124.3, engines only Between M.P. S131.6 and M.P. S132.4,	25
Sturgeon (Ordinance) Between Urbandale, M.P. S146.4, and Compared St. Mohody, M.P. S147.7	35
Carpenter St., Moberly, M.P. S147.7 Between Carpenter St., Moberly, M.P. S147.7, and Coates St., Moberly, M.P. S148.2	40 25
TURNOUTS, CROSSOVERS, AND SIDINGS	25
Through turnout at Ferguson, M.P. S12.5 Berkeley lead between Ferguson (M.P. S12.5) and	30
Evergreen (M.P. S14.0)	30
and Berkeley (M.P. \$14.2)	25
Through turnouts in other than main track Through sidings at Wentzville Siding, High Hill sidings and Benton City	10
Note: When making trailing movements out of sidings at east end of High Hill and	25
Benton City, trains must not exceed 10 MPH until train occupies crossings.	
After occupying crossing, trains may proceed at prescribed speed.	
Through turnout west switch Wentzville Siding	15
Through turnout east switch Wentzville Siding Through turnout Middle Lead Switch (M.P. S42.3)	25
in siding, Wentzville Siding	15
ST LOUIS TERMINAL ROUTES: Brooklyn Main between WR Tower (M.P. D480.6) and North End Brooklyn Yard (M.P. 483.5)	10
V&C Belt between North End Brooklyn Yard (M.P. D483.5) and Coapman Yard (M.P. 4.3W)	10
Coapman Yard between M.P. 4.3W and A&S Crossing (M.P. 6.3W)	20
Between A&S Crossing (M.P. 6.3W) and East Yard limit sign (M.P. 8.3W)	30
Outbound track M.P. 5.0W to M.P. 8.2W	10
ALTON DISTRICT (T&E LINE): Between:	
Begin T&E, M.P. A0.3, and Henry Street,	10
M.P. A0.5 and M.P. A8.8 Except over crossings at Wood River	10 20
Interlocking, M.P. A4.9 to M.P. A5.0	10

9-0. SPEED RESTRICTIONS BY DISTRICT (CI	ont'a.)
LOCATIONS AND CONDITIONS	Miles Per Hour All Trains and Engines
(8) ST. LOUIS DISTRICT & ST. LOUIS TERMINAL (Cont'd):	
ALTON DISTRICT (T&E LINE) (Cont'd):	
M.P. A8.8 to end of track, M.P. A9.2	10
Through all sidings, yard tracks, and	10
turnouts unless otherwise provided	10
ALTON DISTRICT (A&E LINE):	
Between:	
End of track, M.P. AE27.8, and begin T&E,	
M.P. AE26.0 (M.P. A0.3).	10
Through turnout IT Jct., M.P. AE21.8	15
IT Jct., M.P. AE21.8 and Rand Avenue,	1)
M.P. AE20.1	1.5
M.P. AE20.1 and Shaffer Road, M.P. AE13.4	15
Except and Shaller Road, M.P. AE13.4	25
Except over road crossings in Hartford,	
M.P. AE20.1, to M.P. AE19.1, leading end	
only	10°
Shaffer Road, M.P. AE13.4, and switch to	
AO Smith Old Yd. (M.P. AE11.3)	20
Switch to AO Smith Old Yd. (M.P. AE11.3)	
and WR Tower (M.P. AE9.6)	15
Except over 20th Steam Court	1)
M.P. AE10.1 (Leading end only)	10
WR Tower (M.P. AE9.6) and Bridge Jct.,	10
(M.D. AEZ O)	
(M.P. AE3.9)	10
Through all sidings, yard tracks, and	
turnouts unless otherwise provided	10
(9) KANSAS CITY DISTRICT:	
Between:	
·	
Stamper Crossover, M.P. S148.5 and M.P. S151.	35
M.P. S151 and WB Jct., M.P. S212.8	60
Except:	
On curves between M.P. \$154.3 and	
M.P. S155	50
Between M.P. \$155.8 and M.P. \$166.8	50
On curve between M.P. S176.2 and	,0
M.P. S176.5, Keytesville	50
On curves between M.P. S187 and	JU
M.P. S187.5, Brunswick	25
On curves between M.P. S188.8 and	35
On curves between M.P. 5188.8 and	
M.P. S189.9, west of Kelly	50
On curve between M.P. \$191.8 and	
M.P. \$192.2, DeWitt	50
On curve between M.P. \$198.5 and	
M.P. S199	50
Between M.P. S200.3 and	,
M.P. S203.0	50
On curve between M.P. S210.5 and	70
M.P. S211.3, Carrollton	56
RETW/EEN W/D ICT MD 0010 0 1200	55
BETWEEN W.B. JCT., M.P. S212.8, AND C.A. JCT.,	
M.P. S242.4 (NS-ATSF Joint Trackage)	
North Track, between W.B. Jct. and C.A. Jct.	60
Middle Track, between C.A. Jct. and Hardin	60
South Track, between Hardin and W.B. Jct	60
	

9-b. SPEED RESTRICTIONS BY DISTRICT (Cont'd.)

LOCATIONS AND CONDITIONS	Miles Per Hour Ail Trains and Engines
(9) KANSAS CITY DISTRICT (Cont'd):	
South Track, between C.A. Jct. and Hardin	50
Except:	
Curve between M.P. S241.12 and	İ
M.P. S241.40	40
On connection track, west of Hardin,	
to South Track, only	25
NOTE — Between W.B. Jct. and C.A. Jct.	ļ
only, the following speed restrictions also apply:	
Freight trains when averaging 90 tons or over	
per car, or over 7,000 tons total	45
On all sidings	20
Between:	
C.A. Jct., M.P. S242.4, and Birmingham,	
M.P. \$266.6	60
Except:	
On curves between M.P. S256.5 and	
M.P. \$257.0	55
On curves between M.P. \$257.0 and	
M.P. S258.2 Birmingham, M.P. S266.6 and Block 222,	50
M.P. S271.9	
No. 1 Main	35
No. 2 Main	50
Except on curves between Birmingham	
and North Kansas City	35
Block 222, M.P. S271.9 and Ustick Tower,	"
M.P. \$275.4	i
No. 1 Main	
No. 2 Main	35
Ustick Tower, M.P. S275.4, and east end	1 10
Missouri River Bridge	10
M.P. S276.4	10
TURNOUTS, CROSSOVERS, CONNECTION	10
TRACKS, AND SIDINGS:	
Through equilateral turnout at Huntsville	50
Through crossovers at W.B. Jct	40
Through crossovers at Hardin	30
Through connection tracks between Middle Track	2.0
and South Track at C.A. Jct.	30
Through crossovers between Middle Track and North Track at C.A. Jct.	40
Through turnout at Maxwell Through turnout at Birmingham Jct	35
Through SOO connection at Birmingham	13
Through crossover at Birmingham	12
Through Kearney Branch Turnout Birmingham	15
Through crossover at Randolph	10
Through crossover at Block 222	12
Through crossover at Block 224	20
Through turnouts in other than main track	[10
Entering, leaving and through siding at Salisbury	25
Brunswick, DeWitt and Wakenda Entering, leaving and through Sido, Carrolton,	25
Orrick, Excelsior Springs, and South Liberty,	10
On Kearney Branch	15
On Claycomo Spur	

9-B. SPEED RESTRICTIONS BY DISTRICT (Cont	
LOCATIONS AND CONDITIONS	Miles Per Hour All Trains and Engine
(10) MOULTON/DES MOINES DISTRICT:	and Engine
Moberly Yard between M.P. SD148.1 and	
M.P. SD148.5	10
Between M.P. SD148.5 and Oueen City	10
M.P. SD219.0	40
Except:	
Macon, approach Bridge 1941, M.P. SD170.8	*15
NOTE — Train or engine must approach	
Bridge 1941, M.P. SD170.8, Macon, at 15 MPH to ascertain proper track	
alignment. When it is ascertained	
that track is properly aligned, train	
or engine may resume prescribed	
speed.	
Kirksville, (Ordinance) over highway crossings at	
M.P. SD204.0	25
M.P. SD205.0	25
M.P. SD205.4	25
M.P. SD205.9	25
M.P. SD207.8	25
Speed restriction over crossings at Kirksville	
will have been complied with when leading end	
occupies crossing at M.P. SD207.8 for westward	
movement, and crossing at M.P. SD204.0 for eastward movement.	
Between:	
Queen City, M.P. SD219.0, and Coatesville,	
M.P. SD234.0	25
Coatesville, M.P. SD234.0, and Moulton	23
M.P. SD242.0	40
M.P. SD242.0 and M.P. SD246.0	20
To ensure proper operation of automatic warning	
devices, speed must not exceed 35 MPH in	
approach (1,500 feet) to the highway crossings	
listed below. Speed restriction will have been complied with when leading end of movement	
occupies crossing.	
Cairo, M.P. SD154.54 Atlanta, M.P. SD183.85	
Excello, M.P. SD163.41 LaPlata, M.P. SD190.99	
Atlanta, M.P. SD182.44 Kirksville, M.P. SD201.75	
Oueen City, M.P. SD220 43	
Thomas Hill Lead, between Excello and Thomas	
Hill Power Plant	10
Between:	
M.P. SD246, Moulton, and Albia-BN,	
M.P. SD272.4	40
Except, between home signals of interlocking	
at Moravia, M.P. SD260.6	20
M.P. SD337.3	
Except:	35
Between M.P. SD270.6 and M.P. SD271.3	25
Between M.P. SD271.3 and highway crossing	25
No. 5, one-half mile west of Albia-RN	10
Between M.P. SD7.0 BN and M.P. SD10.5 RN	25
Between M.P. SD283.8 to M.P. SD291.4	25
Between M.P. SD291.4 and M.P. SD294.34	40

9-b. SPEED RESTRICTIONS BY DISTRICT (Cont'd.)

LOCATIONS AND CONDITIONS	Miles Per Hour All Trains and Engines
(10) MOULTON/DES MOINES DISTRICT (Cont'd):	
Between M.P. SD23.3 BN and	<u>-</u>
M.P. SD23.7 BN*	25
Between M.P. SD31.5 BN and	-
M.P. SD35 BN	25
Between M.P. SD318.8 and M.P. SD332.8	25
 Speed limit signs in place. 	
Between M.P. SD333.0 and M.P. SD336.9	30
Between M.P. SD336.9 and M.P. DU354.7	10
TURNOUTS:	
Through all turnouts	10

9c. CHECKING LOCOMOTIVE SPEED INDICATOR

Tests for accuracy will be made at the following locations and Engineers will adjust speed in accordance with any inaccuracy.

WESTWARD/SOUTHWARD	EASTWARD/NORTHWARD					
Lafayette District						
M.P. D205 to M.P. D206	M.P. D369 to M.P. D368					
M.P. D212 to M.P. D213						
M.P. D225 to M.P. D226	M.P. D361 to M.P. D360					
M.P. D269 to M.P. D270	•					
Frankfort Branch District						
M.P. SP242 to M.P. SP243						
Bloomington District						
M.P. C116 to M.P. C117						
M.P. SP398 to M.P. SP397	M.P. SP344 to M.P. SP345					
Brooklyn District						
M.P. D391 to M.P. D392	M.P. D473 to M.P. D472					
M.P. D409 to M.P. D410						
Springfield/Hannibal District						
M.P. DH386 to M.P. DH387	M.P. H63 to M.P. H62					
M.P. DH395 to M.P. DH396	M.P. DH504 to M.P. DH503					
M.P. DH425 to M.P. DH426	M.P. DH402 to M.P. DH401					
M.P. H13 to M.P. H14						
St. Louis District						
M.P. S140 to M.P. S139	M.P. S28 to M.P. S29					
Kansas City District						
M.P. S158 to M.P. S159	M.P. S259 to M.P. S258					
Moulton/Des Moines District						
M.P. SD330 to M.P. SD329	M.P. SD157 to M.P. SD158					
M.P. SD239 to M.P. SD238	M.P. SD247 to M.P. SD248					
NOTE: Tests for accuracy will	be made at other locations when					

NOTE: Tests for accuracy will be made at other locations when necessary. Engineers operating in outlying local freight or branch line service will choose location appropriate for making tests to check speed indicators.

TAE	BLE FO	R DETE	RMINING	TRAIN	\$PEEDS
	6	84:1		B 4 11	

Sec.	Miles	Sec.	Miles	Sec.	Miles	Sec.	Miles	
per Mile	per Hour	per Mile	per Hour	per Mile	per Hour	per Mile	per Hour	
45	80.0	61	59.0	84	42.9	116	31.0	
46	78.3	62	58.1	86	41.9	118	30.5	
47	76.6	63	5 7.1	88	40.9	120	30.0	
48	75.0	64	56.3	90	40.0	122	29.5	
49	73.5	65	55.4	92	39.1	124	29.0	
50	72.0	66	54.5	94	38.3	126	28.6	
51	70.6	67	53.7	96	37.5	128	28.1	
52	69.2	68	52.9	98	36.7	130	27.7	
53	67.9	69	52.2	100	36.0	135	26.7	
54	66.7	70	51.4	102	35.3	140	25.7	
55	65.5	72	50.0	10 4	34.6	145	24.8	
56	64.3	74	48.6	106	34.0	150	24.0	
57	63.2	76	47.4	108	33.3	180	20.0	
58	62.1	78	46.2	110	32.7	240	15.0	
59	61.0	80	45.0	112	32.1	360	10.0	
60	60.0	82	43.9	114	31.6	720	5.0	

10a. DIESEL UNIT RATING IN TONS

			D8-32B B30-7A B-36-7	
	D8-40C SD50		GP40X GP49	B23-7
	SD60 C36-7 C39-8	C30-7 SD40	GP50 GP59 GP60	GP38 GP40 U23B
UND				

	C39-8	SD40	GP60	U23B
WEST OR SOUTHBOUND	4			
Peru-Tilton	4700	3500	2800	2100
Tilton-Decatur	6800	5000	4000	3000
Decatur-Bluffs	5200	3800	3100	2300
Bluffs-Moberly	3600	2700	2400	1800
Moberly-Brunswick	5300	3991	3533	2650
Brunswick-Kansas City	7200	5300	4300	3200
Peoria-Gibson City	3700	2775	2466	1850
Chicago-Decatur	6000	4500	4000	3000
Decatur-SH Tower	8000	6000	5333	4000
SH Tower-Luther	6200	4650	4133	3100
Luther-Moberly	4300	3200	2500	1900
Frankfort-Lafayette	6800	5000	4000	3000
Coffeen-SH Tower	5000	3750	3325	2500
EAST OR NORTHBOUND				
Kansas City-Brunswick	7200	5300	4300	3200
Brunswick-Moberly	6300	4725	4200	3150
Moberly-Decatur	4700	3525	3133	2350
Decatur-Rockfield	6500	4875	4333	3250
Rockfield-Peru	8600	6450	5733	4300
Moberly-Luther	5300	3991	3533	2650
Luther-SH Tower	3600	2700	2400	1800
SH Tower-Litchfield	6400	4800	4266	3200
Lithfield-Decatur	7200	5300	4300	3200
Decatur-Chicago	7600	5700	5066	3800
Gibson City-Peoria	4700	3525	3133	2350
Lafayette-Frankfort	4700	3525	3133	2350
SH Tower-Coffeen	4500	3300	2700	2250

These ratings are based on maximum grades and can be increased over certain parts of the line, when necessary. When engines will not handle their rating, a report must be made to the Chief Dispatcher by the Engineer. Conductor will make written report to Trainmaster.

Note: In making computations, less than 1,000 pounds will be dropped. 1,000 pounds will be counted a ton.

Note: A GP-40 and slug combination is rated at 90,500 lbs. maximum continuous traction effort and will be rated the same as a standard 6-axle unit (SD40-2, C30-7) when used in road service.

10b. NORFOLK SOUTHERN SYSTEM LOCOMOTIVES **SERIES TABLE**

	JEITIES	IADLL	
ROAD NOS.	MODEL	ROAD NOS.	MODEL
50-59	SD9M	#* 4606-4641	GP59
67-83	SW1500	5000-5256	GP38-2
100-10 4	TC10	6073-6206	SD40-2
115-116	F40PH	* 6500-6505	SD50
1002-1012	SW1	#* 6506-6525	SD50
1209	SW12	#* 6550-6700	SD60
1329-1388	GP40	# * 7000-7002	GP40X
1580-1624	SD40	#* 7003-7092	GP50
1625-1652	SD40-2	#* 7101-7150	GP60
1733	SW1500	8003-8082	C30-7
2105	SW1	* 8500-8542	C36-7
2290-2347	SW1500	* 8550-8563	C39-8
2348-2435	MP15	# * 8564-8688	C39-8
# * 2501-2506	SD70	#* 8689-8763	D8-40C
2717-2822	GP38	9710-9713	RP-E4
2823-2878	GP38AC	9714-9741	RP-E4D
2879-2886	GP38	9816-9817	RP-F4
3170-3200	SD40	9818	RP-B4U
3201-3328	SD40-2	9819-9827	RP-F4U
#* 3500-3521	B30-7A	9830-9831	RP-B 4
#* 3522-3566	D8-32B	9833	RP-B4U
* 3815-3820	B36-7	9834	RP-E4U
3900-3969	U23B	9835-9841	RP-A4U
3970-4023	B23-7	9842-9855	RP-E4U
4100-4159	GP38AC	9900-9919	RP-F6Y
#* 4600-4605	GP49	9920-9923	RP-E6Y
43e			

- High Adhesion

10c. HIGH ADHESION UNITS AND MIXED CONSIST FORMULA

Head End Power Limitations are the equivalent of 20 conventional axles in power or 18 conventional axles in dynamic brake:

IN POWER

1 — High Adhesion Axle = 1.33 Conventional Axles 1 — 6-Axle High Adhesion Unit = 8.00 Conventional Axles

1 — 4-Axle High Adhesion Unit = 5.33 Conventional Axles

IN DYNAMIC BRAKE

1 - High Capacity Axle = 1.35 Conventional Axles

10d. TABLE OF MAXIMUM TRAIN LENGTHS

When ambient temperature is 34° or less, train length should not exceed that indicated below.

TRAINS WITH HEAD END BRAKE PIPE SUPPLY ONLY

Ambient	*Maximum Tr	ain Length
Temp. °F	Based on 50-	-foot Cars
	Cars	Feet
32° to 34°	200	10,000
29° to 31°	185	9,250
26° to 28°	175	8,750
20° to 25°	160	8,000
15° to 19°	150	7,500
10° to 14°	140	7,000
5° to 9°	130	6,500
0° to 4°	120	6,000
-1° to -5°	110	5,500
-6° to -10°	100	5,000
-11° to -15°	90	4,500
-16° to -25°	80	4,000

*Long cars such as bi-level, tri-level, TTX, or high cube cars are to be counted as two (50-foot) cars. Radio trains may be increased

^{# -} High Capacity Dynamic Brake

50% over the number of cars prescribed above, and in no case are radio trains to be restricted to less than 9,350 feet account temperature.

11. LOAD LIMITS AND EQUIPMENT RESTRICTIONS a. Locomotives — Instructions and Restrictions

- 1. Engineers operating multiple unit engine consist equipped with MU hose must have the MU hose coupled and cut in service.
- 2. During switching moves with multiple unit engine consist, the independent brake must be applied gradually to a safe level to control slack run in or run out for the prevention of damage to equipment. After the slack is bunched or stretched throughout the cars being handled, a heavier application of the independent brake make be made to complete the stop.
- 3. All units of radio operated empty coal trains must be on head end of train and in accordance with Rule R-304 of NS-1. The lead unit and the first unit behind the Radio Control Car must be on line. All other units will be shut down in accordance with Rule L-238 of NS-1 unless tagged by Mechanical Department to not shut engine down. Radio continuity must be maintained and feed valve on radio unit must be maintained in the "Out" position.
- 4. Air brakes are not to be cut out on Radio control mid train power (not radio receiver car) by air bleeders or other employees when bleeding air on train in yards.

Additionally, hostlers and yard crews, when operating such locomotive units, are to make brake test prior to moving locomotive units from trains, set out track or other locations.

- 5. Employees setting up radio units and radio receiver cars on radio trains must see that all windows and doors on radio units are closed before train departs terminal, in compliance with Operating Rule GR-18.
- 6. When picking up a locomotive at an outlying point, a crew member will see that the switch lock, that is used to lock the engine, is left with a station employee at that location or in the waybill recepticle at that station.
- 7. When a locomotive is set out at an outlying point, including on line of raod, a 27-point jumper cable must be left with the locomotive or at that location.
- 8. When locomotives are to be separated, angle cocks must not be closed and MU hoses must not be uncoupled until the folding walkway boards are properly secured and pinned in the upright position and the safety chains between the units to be separated are properly disconnected and secured.
- 9. If it is necessary to add oil to a locomotive air compressor, governor, or engine crankcase at any outlying point where a Mechanical Department representative is not present, the employee who is to add the oil must first check with the Mechanical Department.

b. Diesel Unit and Car Restrictions

The weight of diesel units and cars is limited as follows: GROSS WEIGHT IN POUNDS

	UNI	т [LOADED CAR	
Between	4-AXLE	6-AXLE	4-AXLE	6-AXLE
Peru & Decatur	(e) 291,000	(d) 420,000	263,000 (b) 286,000 (c) 315,000	394,500
Peoria & Bement	291,000	(d) 420,000	263,000 (b) 286,000 (c) 315,000	394,500
Decatur & E. St. Louis	(e) 291,000	(d)(e) 420,000	263,000 (b) 286,000 (c) 315,000	394,500
Decatur & Bridge	(e)(g) 291,000	(d)(e) 420,000	(f) 263,000 (b)(f) 286,000 (c)(f) 315,000	(k) 394,000

11. LOAD LIMITS AND EQUIPMENT RESTRICTIONS (Cont'd)

b. Diesel Unit and Car Restrictions (Cont'd)

The weight of diesel units and cars is limited as follows: GROSS WEIGHT IN POUNDS

	UNI	Τ	LOADED CAR		
Between	4-AXLE	6-AXLE	4-AXLE	6-AXLE	
Madison &	!		1		
Coffeen	291,000	(d) 420,000	(h) 263,000	(h) 300,000	
			263,000		
Frankfort &			(b) 286,000		
Lafayette	291,000	(d) 420,000	(c) 315,000	394,500	
			263,000		
St. Louis &	(e)	(d)(e)	(b) 286,000		
Moberly	(i)(k) 291,000	(g)(i)(k)420,000	(c) 315,000	394,500	
			263,000		
Moberly &	(e)		(b) 286,000		
Kansas City	(g)(i) 291,000	(d)(i) 420,000	(c) 315,000	394,500	
Moberly to					
Des Molnes	(e) 291,000	(d)(e) 420,000	263,000	300,000	
Bridge &					
Hannibal	(e) 291,000	(d)(e) 420,000	270,000	(j) 315,000	
			263,000		
Hannibal &			(b) 286,000		
Moberly	(e) 291,000	(d)(e) 420,000	(c) 315,000	394,000	
Bluffs &					
Meridosia	291,000	Prohibited	263,000	300,000	
-			263,000		
Alton &			(b) 286,000		
Roxana	291,000	(d) 420,000	(c) 315,000	394,500	
			263,000		
IT Ict. &	,		(b) 286,000		
Bridge Jct.	291,000	(d) 420,000	(c) 315,000	394,500	

EXCEPTIONS TO WEIGHT RESTRICTIONS

Cars with gross weight exceeding the limitations shown in the foregoing must not be operated without authority of the Superintendent.

When authorized by the Mechanical Department, 6-axle tank cars up to 394,000 lbs., and 8-axle tank cars up to 526,000 lbs. may be handled where the maximum allowable weight is 263,000 lbs. or greater.

THE ABOVE EXCEPTION DOES NOT APPLY FOR MOVEMENT OVER BRIDGE 651, M.P. DH514.47, HANNIBAL.

- (a) NOT USED.

These cars must not be operated over open deck trestles on side or industrial tracks, except where authorized.

(d) 6-axle units prohibited

1. Lafayette District

- a. Covington Branch
- b. Lafayette Belt Line Union Street East
- c. Tilton - East Wve Track
 - Tats Track

2. Brooklyn District

- a. Staunton
- Livingston Pipe, O/M

3. Frankfort Branch

- a. Frito Lay
- b. Sun chemical
- c. Crellin
- d. Vicks Metal
- e. Forest Products
- f. Industrial Lead, Lafayette
- g. Tracks 3 and 4, Altamont

4. Springfield/Hannibal District

- a. Starne
- J & A Track beyond ITS switch
- b. Springfield
- All Industrial Tracks
- c. Valley City
- Watson Track
- d. Meredosia Branch
- e. Illiopolis
- Borden Co. Tracks 1, 2, 3 & 4
- f. Jacksonville - Team Tracks

5. Bloomington District

- a. Bloomington
- SSWN Connection Track
- Union Camp Track

6. St. Louis District

- a. St. Charles
- Old Downtown Track
- b. St. Peters
- Kaplan Lumber Track - Elevator Track
- c. O'Fallon
- Industrial Lead Tracks
- d. New Florence
- Fertilizer Spur
- e. Mexico
- A.P. Green Ind. Tracks
- f. Berkley
- East Swamp Lead
- Olin Lead
- Robertson Wye
- Chrysler Lead at Brown Campus
- Westlake Lead
- g. Truesdale - Pepsi Spur

7. Kansas City District

- a. Salisbury
- All Industrial Tracks
- b. Wakenda
- House Track
- c. Carrolton - House and Elevator Tracks Note: Equipment greater than 60' not permitted.
- d. Norborne
- Turnouts on Elevator Tracks
- e Hardin
- Yard Tracks, Hardin Yard - House and Elevator Tracks
- f. Orrick
- g. South Liberty
- House and Industrial Tracks
- h. Brunswick
- River Terminal, inside switch

- West End of 3 through Rip Tracks
- North Side Elevator Track

8. Moulton and Des Moines District

- a. All side tracks and leads EXCEPT:
 - (1) LaPlata Transfer
 - (2) West End of Moulton Siding
 - (3) Appanouse Siding
 - (4) Passing Track Runnels may be used, except 6-axle units must not pass over either north or south elevator switch, which are both located on the Passing Track.

9. Des Moines Union Terminal

- a. All tracks EXCEPT:
 - (1) Main Line
 - (2) South Track
 - (3) South Fuel Track
 - (4) Middle Track

 - (5) 11th Street Yard Tracks 4, 5, 6, 7, 8, and 9
 - (6) East Side of Wye Track

10. Madison Branch

- a. Stallings - Siding
- b. LeClaire - House Track
- c. Edwardsville - Richards Brick
- d. New Douglas - Siding
- e. Gilmore - Richards Brick

11. A&E District

- a. CNW Madison Yd. EME Steel
- b. Brooklyn - Packards By-Products

12. T&E District

- a. Hartford
- Wildes Yard Tracks 3 & 4
 - Hartford 1 and 2
 - Anlin Lead
- b. Wood River - Dome Railway Services
 - Amoco
- c. Roxana - Shell Oil Main Plant

(e) Only one unit allowed

1. Brooklyn District

- a. Taylorville - ADM
- b Litchfield - Elev. Spur, beyond scale
- c. Mt. Olive - House Track
 - No. 15 Mine Spur

2. Springfield/Hannibal District

- a. Starne
- J & A Track beyond ITS switch
- b. Springfield
- All Industrial Tracks - Resnick Industrial Track
- c. Hannibal
- 3. St. Louis District
 - a. St. Charles
 - Old Downtown Track
 - b. High Hill - Christi Mineral Spur
 - c. New Florence
- Fertilizer Spur
- d Mexico - A. P. Green Ind. Tracks Note: Does not include TK Lead back to Bridge.

4. Kansas City District

- a. Salisbury
- All Industrial Tracks

5. Moulton and Des Moines District

- a. Macon
 - Stock Track
- b. Kirksville
- Burroughs Track
- c. McCoy
- Williams Brothers Lead
- Armstrong Rubber, all tracks (f) 250,000 lbs. maximum gross weight

1. Springfield/Hannibal District

- a. Starne
- J & A Track beyond ITS switch
- (g) No more than two units allowed

1. Springfield/Hannibal District

- a. Valley City
- Watson Track
- (h) If not handled over bridge listed below, cars may be handled with increased weights restricted by the following: 4-axle cars weighing not more than 286,000 lbs. may be handled if they meet the length criteria of note (b); 4-axle cars weighing not

more than 315,000 lbs. may be handled if they meet the length criteria of note (c); 6-axle cars weighing not more than 394,500 lbs.

- 1. Madison Branch
 - a. Bridge, M.P. TS404.34
- (i) Not allowed beyond sign
 - 1. St. Louis District
 - a. Truesdale Warrenton Refining Plant Tracks
 - 2. Kansas City District
 - a. Missouri City N.W. Elec. Coop
- (j) 6-axle or 8-axle cars with gross weight of car and lading not exceeding 394,500 lbs. may be handled over Bridge 651, M.P. DH514.47, Hannibal. Cars must be separated from locomotive and from each other by at least one light car.

Cars with gross weight exceeding 394,500 lbs must not be handled over Bridge 651 without authority from Vice President Transportation.

- (k) 287,000 maximum gross weight
 - 1. Springfield/Hannibal District
 - a. Starne
- J & A Track beyond ITS switch

c. DERRICKS

Derricks are grouped as follows:

- GROUP 1: SOU 903002, 12, 13, 14, 16 and 26 (250-ton RB)
- GROUP 2: NW 514900, 23, 24 and 25, NW 540037, NW 563188 and 89 (200/250-ton PB)
- GROUP 3: SOU 903011, 15, 18, 23 and 24 (150-ton RB)

1. General Restrictions:

- (a) Derricks must not be operated coupled to engine or car weighing more than 90,000 lbs.
- (b) For line-of-road movement:
 - Derrick must be handled on head end of train with the required spacer car next to the engine.
 - Boom must be in trailing position except when in use or when the derrick is to be picked up on line by other trains where facilities for turning are not available.
 - 3. Must have swinging or rotating mechanism properly secured.
- (c) Derricks must not be operated over structures on industrial tracks without specific authority.
- (d) Derrick speed shall not exceed the slowest of the following:
 - 1. Authorized freight train speed.
 - Group 1 Derricks, 45 MPH; Group 2 Derricks 35 MPH; Group 3 Derricks 25 MPH.
 - Speed restriction for line or structure over which derrick is handled.
- (e) When work train movements are being made with the equipment in service, particular care must be taken to avoid contact with overhead or side obstructions.

2. Special Restrictions:

Derricks may be handled except as listed below:

- (a) Meredosia Branch
 - 200 ton can be handled. 240-250 ton derricks must not be handled.
 - 75 ton can be handled. 150-160 ton derricks can be handled, but must not exceed 10 MPH.

c. DERRICKS (Cont'd)

- (b) Des Moines District between Tracy and Des Moines
 - 200 ton can be handled, 240-250 ton derricks can be handled but must not exceed 15 MPH.
 - 2. 150-160 ton derricks must not exceed 20 MPH.

d. LOCOMOTIVE CRANES/DERRICK CARS/PILE DRIVERS

SOU 903093 (DC-3), SOU 992312 (LC-35), NW 500504 (LC-4803), SOU 992340 (LC-8201), NW 514892 (LC-8501), and SOU 992412 (LC-89036)

- 1. Must not exceed 25 MPH.
- 2. May be operated on all main and passing tracks.
- 3. Locomotive cranes, derrick cars and derrick cars with attached boom idler cars, must not be moved over humps or through retarders when being operated under derrick's own power. Retarders must not be set up while such equipment is in the retarders.
- 4. Pile drivers must not be moved through the retarders under any circumstances due to insufficient clearance. When pile drivers are placed in one of the classification tracks, they must be handled in the same manner as explosive cars.
- While working, care must be taken to avoid contact with overhead or side obstructions.

e. JORDAN SPREADERS

- While working, care must be taken to avoid contact with overhead or side obstructions.
- 2. Movement in trains
 - (a) Must not exceed 40 MPH.
 - (b) Must be handled next ahead of caboose or on rear of train with "B" end trailing so that side spreaders, hinged near the "A" end of the car are in trailing position.
 - (c) Must have swinging or rotating mechanism properly secured.
- 3. Movement in yards
 - (a) Must not be moved through retarders due to insufficient clearance
 - (b) Must be handled in the same manner as explosive cars when placed in a classification track.

f. SNOW PLOW - NW 590000

- 1. When plowing:
 - Except where further restricted, must not exceed 25 MPH.
- 2. When being moved to a location to begin plowing: No restrictions apply.
- 3. Other movements:
 - Handle within rear five cars of a train.

g. SCALE TEST CARS

- Two-axle Scale Test Cars: SOU 992501, SOU 992506, SOU 992507, SOU 992508, SOU 992511, NW 514754, MPX 192, MPX 194, MPX 195, MPX 1034, MPX 1900, UP 903145, WWBX 911000, and MKT 77:
 - (a) Must move only on authority of Chief Dispatcher.
 - (b) Must be handled as second car ahead of rear car of train or caboose.
 - (c) Must not be coupled to a car exceeding 50' 0" in length.
 - (d) Must not exceed 30 MPH.
 - (e) Must not be humped.

g. SCALE TEST CARS (Cont'd)

- Four-axle scale test cars: SOU 992550, SOU 992551, SOU 992552, NW 514757, NW 514758, NW 514759, NW 514760, NW 514762, NW 514763, MP 15507, MP 15510, MP 15511, MP 15512, UP 900700, UP 903006, WWBX 199917, WWBX 199918, WWBX 199919 must not be humped. If four axle scale test cars are destined to a hump yard, they should be moved as the head or rear car or in an established "Do Not Hump" block.
- Scale Monitor Cars SOU 992520 through SOU 992529 and NW 514761 have no special restrictions.

h. SCHNABEL AND HIGH CAPACITY FLAT CARS

- (1) Restrictions for "schnabel" and other high capacity flat cars having eight (8) axles or more:
 - (a) Except where further restricted, speed must not exceed that indicated below:

Speed restrictions	Loaded	Empty
8 to 15 axle cars	45 MPH	None
Except as listed below		
16 or more axles, also	25 MPH	45 MPH
APWX 1004 (12 axle but		
excluding CEBX 800		
36 axle CEBX 800	15 MPH	25 MPH

- (b) APWX 1004 (12 axle) and all cars having sixteen (16) or more axles must be handled in a special train of no more than ten (10) cars when loaded.
- (c) Loaded cars having twelve (12) or more axles, when not moving in a special train, must be handled at the head end of a train, and train length must not exceed 100 cars. Loaded cars must be accompanied by sufficient cars that can be used as brake cars in the event it becomes necessary to set such load out between terminals and when securing car in yards, terminals, or sidings.
- (d) In addition to the above restrictions, the cars listed below must not be placed in trains requiring pusher service, must not be humped, or flat switched with motive power detached, and when moving empty must be handled on rear end of train, properly locked, secured, and switching moves kept to a minimum.

miminum.	NO.		NO.
CAR IDENTITY		CAR IDENTITY	
APWX 1004	12	GEX 80000	16
BBCX 1000	20	GEX 80002	16
CAPX 1001	20	GEX 80003	20
CEBX 100	12	GPUX 100	12
CEBX 101	12	HEPX 200	20
CEBX 800	36	KWUX 10	20
CPOX 820	20	ABWX 20002	12
CWEX 1016	12	WECX 101	20
DODX 39898	8	WECX 102	22
DODX 39899	8	PTDX 200	12
GEX 711	12	PTDX 201	14
GEX 40013	12	PTDX 202	20
GEX 40017	12	PTDX 203	14
GEX 40018	12	PTDX 204	12
		WECX 301	22

- (e) Cars with ten (10) axles or more, either loaded or empty must not be forwarded in a train without permission of the Division Superintendent.
- Transformers, rotors, circuit breakers, or similar electrical equipment with net weight exceeding 200,000 lbs., loaded

on well, depressed, or flat car must be handled on or near the head end of trains, except on locals. When these loads are designated to move on locals or high-wide specials, they will be positioned as instructed by Control Center.

3. Loads with waybill having "high value" sticker, transformers, rotors, circuit breakers, or similar electrical eqiupment loaded on well, depressed or flat cars will not be humped or permitted to roll free. Instead, they will be shoved to a coupling with motive power attached. Cars being coupled to such equipment will be handled in the same manner.

i. EXCESSIVE DIMENSION EQUIPMENT

Before handling cars exceeding Plate "B" on tracks other than main tracks or sidings, it must be determined that adequate clearance exists.

- (1) Plate "B", "C", "E" and "F" freight cars.

 Freight cars stenciled "C", "E" and "F" and unstenciled general service equipment having dimensions within Plate "B" may be handled on all main tracks and sidings of the Illinois Division.
- (2) Plate "F+" or "Exceeds Plate F" freight cars. Movement of cars exceeding 17'-0" or stenciled "F+" or "Exceeds Plate F" must be cleared by Chief Dispatcher, except as otherwise noted herein.
- (3) Fully enclosed auto rack cars.
 Fully enclosed auto rack cars (exceeding Plate "F" but not exceeding 19'-0" above top of rail) may be handled on all main tracks and sidings of the Illinois Division.
- (4) Double stack cars.
 Double stack cars not exceeding 20'-3" above top of rail (two 9'-6" high x 8'6" wide containers) may only be handled on main

tracks and sidings between:
Peru and Moberly
St. Louis and Kansas City
Decatur and WR Tower
Frankfort and Lafayette
East Peoria and Bement

Multi-level auto racks with initials TTQX are excessive dimension cars (20° 2° high, loaded or empty) and must be handled in accordance with high-wide clearance message only.

J. EXCESSIVE CURVATURE

Long (73 ft. or more) cars may be handled on main and passing tracks without restrictions account curvature and grade.

The following instructions apply to movement on tracks other than main and passing tracks.

- (1) Long cars must not be handled through No. 6 turnouts.
- (2) Long cars moving over tracks having a curvature in excess of 12 degrees 30 minutes must be coupled on each end to cars not shorter than 50 ft. If curvature is in excess of 15 degrees; or turnouts are No. 7, the movement must be accomplished under observation at slow speed.
- (3) Long cars must not be handled on curves exceeding 17 degrees.

k. OTHER EQUIPMENT RESTRICTIONS

- 1. Trailing tonnage must be limited on line segments as shown below, behind the following equipment:
 - (a) Empty auto multi-level cars.
 - (b) Empty intermodal single platform flats or such cars loaded with empty trailers or containers.
 - (c) Empty 85-foot long or longer flat cars and such flat cars when loaded with empty trailers or containers or loaded with only one trailer or container.

k. OTHER EQUIPMENT RESTRICTIONS (Cont'd)

(d) Empty intermodal single axle truck flat cars or such cars loaded with empty trailers or containers.

Maximum Safe Between Trailing Tonnage

Frankfort Branch
Frankfort and East Demun
East and West Demun through

10,000 tons

East and West Demun to Connecting Track

10,000 tons

Bloomington District

P&PU Jct. and Gibson City

4,500 tons

These instructions do not apply to radio trains or to a flat car loaded with more than one trailer or container, one of which is loaded.

2. Single or multiple unit double stack cars, articulated single platform (SPINE) cars, drawbar connected rapid discharge cars, and any articulated or permanently coupled cars loaded or empty must not be humped or flat switched with motive power detached except to a clear track. Double stack cars must not be moved over hump retarders unless it is known there is proper clearance.

Whenever practical, articulated cars and cars with slackless drawbars should be placed ahead of cars with conventional draft gears, which in turn should be placed ahead of cars with end-of-car cushion units.

Trains handling any of the aforementioned equipment must not be pushed with more than the equivalent of twelve conventional (non-high adhesion) powered axles. High adhesion axles are equivalent to one and one-third conventional axles.

- 3. Loaded traction motor cars in series SOU 911802 911815 and NW 520100 520111 must not be humped except when they are humped to a clear track.
- 4. Blocks of Empty Cars Blocks of 30 or more empty cars must be handled on the rear of trains whenever practicable.

Blocks of Heavy Cars - Blocks of 30 or more loaded cars of coal, grain, phosphate, rock, sand, sulphur or similar bulk commodities must be handled on the head of trains next behind locomotives, whenever practicable.

5. Crews must not pull or switch covered or open-top hoppers with hopper doors open.

Top hatches and bottom outlets on open-top hoppers and covered hoppers are to be closed by the customer prior to pulling car.

- 6. Any open type car where lading may shift and fall to tracks surface (such as loaded regular flats, gondolas loaded above sides or ends) must not be used as rear car of any train being operated without a caboose.
- 7. Loaded cars refused by consignee must not be pulled until all doors have been properly closed and sealed.
- 8. Cars equipped with plug doors will not be moved from industrual tracks or out of yards with doors open. DOORS MUST BE CLOSED AND LATCHED.
- 9. Poles or similar loads on flat car or in open-top equipment loaded above ends of cars must not be handled in trains next to placarded tank cars or open shipments subject to damage by shifting loads on adjacent cars.

k. OTHER EQUIPMENT RESTRICTIONS (Cont'd)

- 10. A crane or other machine equipped with a boom, even if boom is detached, loaded on open top car or moving on its own wheels must not be handled in trains unless the boom end is trailing except that it may be handled in local freight and work trains with boom forward when properly anchored. (Exception: Machines, including cranes and military equipment, loaded on open top car may be handled in any train with boom or rotating part forward provided that it is properly anchored with visible securement and does not overhang, the end of the car.)
- 11. Cars equipped with chain tie-down devices must not be moved unless chains are properly secured.

Cars with bands improperly secured are not to be moved.

12. Jet Snow Blowers loaded on the flat cars shown below must not be humped or flat switched with motive power detached:

Snow	Blower No.	Loaded ON
SB	6702-JN	NW 527602
	7901-JN	NW 590349
	7902-JN	NW 590332
	7903-JN	NW 590330
	7904-JN	NW 590344
SB	8001-JN	NW 590341

- 13. SOU 900096 and similar cars used to handle coal for steam locomotives must be shoved to rest while being switched.
- 14. Loaded roller bearing equipped cars having a mixture of pedestaltype side frames and converted box-type side frames found moving on Norfolk Southern must be handled within the head ten cars of the train and must be observed frequently enroute for the possibility of an overheated journal.

As explanation, a roller bearing in a pedestal-type side frame is exposed to the direct view of a defective equipment detector, as compared to a converted box-type side frame where the roller bearing is shielded by the box, like a plain bearing.

Mechanical Department personnel have been alerted to notify yardmasters of the presence of these cars. Other concerned employees must be on the lookout for loaded cars with mixed side frames, most especially train crews when adding cars to their train at an outlying point, including interchange points. When such equipment is encountered, the yardmaster, dispatcher, or other proper authority must be promptly notified.

It will be necessary when handling a loaded car with mixed side frames to inform the adjacent Division when the car is moving in a train towards that Division.

- 15. Loaded multilevel cars must not be placed for movement in trains behind open top hopper cars or gondolas loaded with stone gravel, sand, lime, coal, or soda ash, except when separated by 10 buffer cars.
- 16. Center partition lumber cars, foreign or system, must not be moved when cars are partially unloaded. These cars must not be pulled from industry or moved without the tie down cables being secured. Loading and unloading instructions, along with warnings not to move car without cables secured, are stencilled on these cars at several locations. System cars are in series SOU 118300 through SOU 118335 and NS 120000 through NS 120249.

k. OTHER EQUIPMENT RESTRICTIONS (Cont'd)

17. NW 525032 and NW 527212 may be handled in all freight trains on NS without restrictions. This includes movement in rail-highway trains at maximum authorized rail-highway or passenger train speeds, not to exceed 60 MPH.

In yard operations, the following restrictions will apply:

- (a) Must not be humped.
- (b) Must not be switched with motive power detached.
- (c) Couple to this car with no more force than necessary to make coupling.
- 18. All cars handled in rail-highway trains must be equipped with roller bearings. No exceptions.

Rail-highway trains will not handle cars containing LP Gas.

Rail-highway trains (200 series trains, excluding Triple Crown) must handle only intermodal and multilevel cars.

19. Movement of wreck-damaged or disabled rail cars, or parts of such cars loaded on flat cars or in open-top cars, when lading extends above or beyond the car sides, must be confined to locals, shifters, work, or wreck trains, unless authorization for movement in other trains is secured from Transportation Department Clearance Bureau for each individual car.

Before such equipment is handled in any train, it must be inspected by a Mechanical Department employee who will authorize its movement and designate any speed restriction required for its safe handling.

20. When switching or coupling cuts of cars, coupling must be done to prevent mismatched couples.

Cars will not be cut off to roll free against other cars if one or both cars involved in the coupling are on curved track or in a turnout. At any time a coupling is attempted with any equipment on curved track or in a turnout, a member of the crew will be at the point of coupling and will stop the movement short of coupling. The couplers will be aligned when necessary to prevent mismatched couplers before the coupling is completed.

21. Empty OTTX flat cars originating at non-mechanized stations or to be placed in trains at outlying points will be handled on rear of trains.

Empty OTTX flat cars not equipped with the approved end-of-car cushion units will be restricted to rear of trains and will be identified in the following manner.

Car initials will be indicated on advance train consist as OTT (instead of OTTX) with a message to "run on rear only." In the TIPS yard inventory list, under the heading "hand", the handling indicator will show "OTTX."

- 22. End doors must be closed and secured on enclosed multi-level cars before they are moved.
- 23. Oversize shipments must not be left on any track adjacent to the main track or sidings unless authorized by the Chief Dispatcher.
- 24. Crews handling loaded pulpwood cars must inspect the cars to determine if any of the loads are excessive width before meeting or passing passenger trains and high and wide shipments.

Inspection of pulpwood cars must be done sufficiently ahead of the arrival of passenger trains to avoid unnecessary delay.

k. OTHER EQUIPMENT RESTRICTIONS (Cont'd)

A train handling pulpwood must be stopped while passenger train is being met or is passing on adjacent track, except when passenger train is first to arrive at meeting point, train handling pulpwood may pass passenger train at slow speed provided inspection of pulpwood can be made and train stopped short of passenger train if and when excessive dimension loads are detected.

Passenger train will meet or pass standing train handling pulpwood, on adjacent track at reduced speed unless notified that train has been inspected and there are no excessive dimension loads of pulpwood in train being met or passed.

When notified that train being met or passed has been inspected and there are no excessive dimension loads of pulpwood in train being met or passed, passenger train may run at maximum authorized speed.

Load must be balanced before switching partially loaded woodrack cars.

25. The equipment listed below must not be placed and handled in a train immediately behind an occupied locomotive unit or immediately ahead of an occupied caboose.

Open end flat cars loaded with poles, pipe, lumber, or similar lading which might shift and protrude beyond the car ends;

Open-top cars or bulkhead flats loaded with similar lading that extends above the car ends or beyond the car sides; or

Flat bed or stake-body trailers loaded with similar lading when the open end is toward the locomotive or caboose or when the lading extends above the end toward the locomotive or caboose.

26. TURNOUT CARS

The following turnout car sets are not to be separated when in transit, loaded or empty. In the event of one car being bad ordered, both cars must be set off until repairs are made. If the cars are bad ordered because of mechanical problems, the Master Mechanics Office of that division must notify the Atlanta Track Assembly in Atlanta, Ga. Set Numbers: (2 cars per set)

SOU 991001 - 991021	SOU 991007 - 991027
SOU 991002 - 991022	SOU 991008 - 991028
SOU 991003 - 991023	SOU 991009 - 991029
SOU 991004 - 991024	SOU 991010 - 991030
SOU 991005 - 991025	SOU 991011 - 991031
SOU 991006 - 991026	

27. Welded Rail Trains and Associated Equipment:

Two loaded rail trains, or one loaded and one empty rail train, may be handled as one movement. When loaded and empty rail trains are handled together, the empty train must be on the rear.

Empty rail trains may now be handled on the rear of revenue freight trains, excluding those designated as corporate trains. Should pusher service be required, the pusher must be placed ahead of the empty rail equipment.

Rail Laying, T&S, and associated equipment may be handled on a loaded rail train, but must be handled on the rear end only.

Rail trains are permanently coupled together by having the approved locking device inserted in the uncoupling lever mechanism and secured with a bolt. These cars are not to be separated, and in the event of a bad order car, the entire train must be set off until repairs are made.

k. OTHER EQUIPMENT RESTRICTIONS (Cont'd)

In the event of bad ordering any rail train and associated equipment the Chief Dispatcher must notify Rail Welding Plant in Atlanta, Ga.

Crew members taking charge of a loaded welded rail train will inspect it to determine that the uncoupling lever mechanism locks are in place on each car before train is moved, except when relieving a crew that has previously handled the train, or when notified by the proper authority that the securement between the cars has been checked. This paragraph does not apply to a rail train originating in Atlanta, Ga.

Loaded rail trains must not be originated from any crew change point without first being inspected and approved for movement by Maintenance of Way forces.

Rail trains and associated equipment must not be handled without air on the trains and all other NS Rules applying to train air brakes and services apply when handling these trains.

In addition, the following thirteen groups of cars, coupled together and equipped to pick up and to unload strands of welded or bolted rail, are not to be separated account of possible damage to the hydraulic hose connection between these cars:

NW 516813, 516814, 516815, and 516816 NW 516975, 516976, 516977, and 516978 NW 517007, 517008, 517009, and 517010 NW 517037, 517038, 517039, and 517043 SOU 991636, 991639, 991634, and 992997 SOU 991534, 991535, 991536, and 992998 SOU 991734, 991735, 991736, and 992999 SOU 992834, 992835, 992836, and 992990 SOU 992936, 992935, and 992934 SOU 992984, 992985, and 992986 NW 527956 and NW 527957 NW 517041 and NW 517042 NW 527986 and NW 527909

12. PASSENGER TRAIN NOTES

Not applicable to Illinois Division. Passenger trains operated over former Forrest District are under supervision of Chicago Terminal.

13. PHYSICIANS' DIRECTORY

P. R. Petrich, GPAttica, IN
B. J. Rodriguez, GP
M. I. Alperin, IM Belleville, IL
P. M. Auner, FP Belleville, IL
T. L. Bryan, IMBelleville, IL
W. G. Doubek, GS Belleville, IL
K. O. Green, OPH Belleville, IL
D. L. Jerome, OTO
E. J. Szewczyk, OPHBelleville, IL
C. W. Carlson, GPBussey, IA
G. G. Sloan, FP
D. L. Kampschmidt, FP
M. A. Junidi, GS/FPCentralia, IL
E. F. Stephens, Jr., GS Centralia, IL
J. A. Diaz, GS
M. R. Ochoa, GS
S. P. Paruchuri, IM
M. Ravaee, IM
R. Stein, FP
E. Beyda, IM
D. J. Fletcher, OM
P. Gowdar, FP

13. PHYSICIANS' DIRECTORY (Cont'd)

13. PHYSICIANS' DIRECTORY	(Cont'd)
L. S. Webster, EM	Decatur, IL
M. J. Zia, PUD	Decatur II
H. Rosen, FP	Des Moines IA
S. W. Konarski, FP	Fairfield, II.
A. R. Marks, GP	Fairfield II
D. A. Blum, IM	Fermison MO
C. Tansuwan, IM	Fermican MO
C. E. Bush, Jr., GP	Established IN
L. G. Schachter, GP	Frankfort, IN
S. D. There, IM	Frankfort, IN
S. D. Tharp, IM	Frankfort, IN
S. Supawanich, GS	Gibson Ciry, IL
A. Ahmad, IM	Granite City, IL
I. A. Jatala, P	Granite City, IL
L. R. Jones, FP	Harrisburg, IL
W. D. Tuttle, GS	Harrisburg, IL
J. E. Hinchen, GP	Jacksonville, IL
T R. Anderson, OM	Lafayette, IN
R. C. Bolin, GP	Lafayette, IN
R. T. Gripe, FP	Lafavette, IN
R. L. Mather, OPH	Lafavette. IN
E. L. VanBuskirk, OPH	Lafavette. IN
T. H. Hendren, GS	Liberty MO
J. R. Waltz, GS	Liberty MO
R. F. Sommer, FP	Litchfield II
J. E. Campbell, FP	Macon MO
R. L. Morgan, ORS	Marion II
G. D. Comfort, FP	Marion, IL
G. R. Deves, FP	Mexico, MU
T. A. Assilant CO.	Montgomery, MO
T. A. Aguilera, GS	Moberly, MO
R. L. Bautista, GS	Moberly, MO
M. M. Daly, FP	Moberly, MO
J. A. Dasovich, IM	Moberly, MO
J. A. Duff, IM	Moberly, MO
D. A. Fleming, IM	Moberly, MO
G. W. LaMonda, IM	Moberly, MO
L. K. Noef, GP	Moberly, MO
R. V. Thompson, GS	Moberly, MO
W. B. Gill, FP	Normal, IL
D. C. Boone, OM	. N. Kansas City, MO
R. D. Hedges, FP	.N. Kansas City, MO
G. R. McNamara, ORS	N. Kansas City, MO
G. H. Woy, ORŚ	.N. Kansas City MO
D. F. Werner, FP	N Kansas City MO
D. A. Lewis, GP	Paris MO
C. R. Warbritton, GP	Paris MO
R. L. Johnson, FP	Dissertial II
H. C. Parkhill, GP	
D. D. Pressley, FP	Callabara MO
C. D. Onion ED	Sansbury, MO
G. D. Quinn, FP	
M. Koeck, FP	Sidney, IL
J. G. Meyer, GS	Springfield, IL
F. VanHagen, GS	Springfield, IL
T. A. Schneider, GS	St. Charles, MO
V. H. Balster, OM	
W. Berner, OM	St. Louis, MO
C. F. Dennison, OM	St. Louis, MO
J. H. Krickbaum, OM	St. Louis, MO
R. C. Lehman, ORS	St. Louis, MO
H. B. Rogers, GP	
E. Shaw, OM	
W. A. Stillings, PSY	
A. C. Umbright, OM	

13. PHYSICIANS' DIRECTORY (Cont'd)

S. J. Wayne, ORS	St. Louis, MO
P. H. Young, NS	St. Louis, MO
T. Delvalle, FP	Taylorville, IL
C. A. Nelson, GP	st Lebanon, IN
J. R. Beckmeyer, GP	right City, MO

KEY TO PHYSICIANS' DIRECTORY SPECIALTY CODES

A	Allergy	NR	Nuclear Radiology
	Abdominal Surgery	NS	Neurological Surgery
	Adolescent Medicine		Nutrition
	Allergy and Immunology		Obstetrics and Gynecology
	Aerospace Medicine		Obstetrics
AN		OM	Occupational Medicine
	Broncho-Esophagology	ON	Oncology
	Bloodbanking	_	Ophthalmology
	Cardiovascular Diseases	ORS	
	Cardiovascular Surgery	OS	Other, i.e., Physician
	Child Neurology		designated a speciality
	Child Psychiatry		other than appearing here
	Clinical Pathology	OT	Otology
	Colon and Rectal Surgery		Otolaryngology
D	Dermatology	P	Psychiatry
DIA	Diabetes	PA	Clinical Pharmacology
DMP	Dermatopathology	PD	Pediatrics
	Diagnostic Radiology	PDA	Pediatric Allergy
	Emergency Medicine		Pediatric Cardiology
	Endocrinology		Pediatric Endocrinology
	Forensic Pathology		Pediatric Radiology
FP			Pediatric Surgery
GE	•	PH	Public Health
GER	Geriatrics	PHO	Pediatric
GP	General Practice		Hematology—Oncology
GPM	General Preventive Med.	PM	Physical Medicine and
GS	General Surgery		Rehabilitation
GYN	Gynecology	PNP	Pediatric Nephrology
HEM	Hematology	PS	Plastic Surgery
	Head & Neck Surgery	PSF	Facial Plastic Surgery
	Hand Surgery	PTH	Pathology
HYP	Hypnosis	PUD	Pulimonary Diseases
ID	Infectious Diseases		Psychoanalysis
IG	Immunology	PYM	Psychosomatic Medicine
lМ	Internal Medicine	R	Radiology
LAR	Laryngology	RHI	Rhinology
LM	Legal Medicine	$\mathbf{R}\mathbf{H}\mathbf{U}$	Rheumatology
MFS	Maxillofacial Surgery	RIP	Radioisotophic Pathology
N	Neurology	TR	Therapeutic Radiology
	Neuropathology	TRS	Traumatic Surgery
	Neoplastic Diseases	TS	Thoracic Surgery
NEP	Nephrology	U	Urological Surgery
NM	Nuclear Medicine	VS	Vascular Surgery
> TD = 7	ATT 1 Think to a real three districtions		

14. AUTHORIZED WATCHES

Watches Authorized for use under Rule 2 are:

POCKET WATCHES

BALL

16 Size Official Railroad Standard - 21 Jewel16 Size Official Railroad Standard - 23 Jewel

BULOVA

Quartz Model

ELGIN

16 Size B. W. Raymond - 21 Jewel 16 Size B. W. Raymond - 23 Jewel

HAMILTON

16 Size Model 992 - 21 Jewel 16 Size Model 950 - 23 Jewel

HOWARD

16 Size Howard Model - 21 Jewel 16 Size Howard Model - 23 Jewel

ILLINOIS

16 Size Bunn Special - 21 Jewel
16 Size Bunn Special - 23 Jewel
16 Size Sangamo Special - 23 Jewel

WALTHAM

16 Size Crescent Street Model - 21 Jewel 16 Size Vanguard Model - 23 Jewel

WRIST WATCHES

ACCUTRON

Railroad Approved

Railroad Approved - Calendar Model Railroad Approved - Quartz Model Railroad Approved - Ladies Quartz Model

BALL

Official Railroad Standard Automatic Trainmaster

BULOVA

Railroad Approved - Quartz

CITIZEN

Railroad Approved - Quartz Model

ELGIN

B. W. Raymond Chronometer Model - 21 Jewel

HAMILTON

Electric Railroad Special Electric - Model 910917, White

PULSAR

Railroad Approved - Quartz Model

RODANIA

Quartz - Model 9361

SEIKO

Railroad Approved - Quartz Model

SPEIDEL

Railroad Approved - Quartz Model

WYLER

Railroad Approved - Incaflex Model

NPM Neonatal-Perinatal Medicine

15. ASSIGNMENT OF AGENTS AND OPERATORS											
STATIONS	WEEKDAYS	SATURDAY	SUNDAY								
	Lafayette	District									
Tilton, IL	7:00 am-4:00 pm 8:00 am-5:00 pm 8:00 am-9:00 pm	7:00 am-4:00 pm	Closed Closed Closed								
Bloomington, IL.	Continuous	7:00 am-11:00 pm	7:00 am- 11:00 pm								
Bloomington, IL (SPCSL) Peoria, IL	Continuous	Continuous	Continuous								
(P&PU)	Continuous	Continuous	Continuous								
	Brooklyn	District									
Luther, MO	Continuous	Continuous	Continuous								
	Springfield/Han	nibal District									
Springfield, IL	8:00 am-5:00 pm	5:00 am-5:00 pm	7:00 am- 4:00 pm								
	7:00 am-6:00 pm	Continuous 7:00 am-3:30 pm	Continuous Closed								
Hannibal, MO	Continuous	Continuous	Continuous								
	St. Louis	District									
Berkeley, MO	Continuous	Continuous	Continuous								
	Kansas City	District									
Moberly, MO Kansas City, MO	Continuous	Continuous	Continuous								
(KN)	Continuous	Continuous	Continuous								
	Moulton/Des Mo	ines District									
Des Moines, IA	Continuous Except 2nd Shift Thur. & Fri.	10:30 pm-7:00 am	10:30 pm- 7:00 am								

16. COMMUNICATION & SIGNAL INFORMATION

a. Instructions for handling Electric Switch Locks.

1. G.R.S. Electric Locks

The locking mechanism is located in a metal housing on a post adjacent to the switch stand and is connected by means of a lock rod to the switch points. Release of the locks is automatic for trains entering the switches from the main track. For trains or engines moving from the siding or spur track to the main track after clearing the main track, a predetermined release time is required before the lock and switch can be operated.

- (a) For movement from main track to siding or spur track:
 - 1. Stop engine or cars just ahead of switch points.
 - 2. Open door of lock housing which has a standard switch lock.
 - 3. Lift lock lever until it rests against stop in 45 degree position. When indicator clears or moves to the unlock position, complete the movement of lock lever to the extreme left hand position. This unlocks the switch and it can be operated the same as any other hand thrown switch.

16. COMMUNICATION & SIGNAL INFORMATION (Cont'd)

- (b) For movements from siding or spur track to the main track:
 - Secure permission from the control station to operate the electric lock and enter the main track. The switch must be unlocked and thrown before the derail or inside crossover switch is operated.
 - Lift lock lever until it rests against stop in 45 degree position.
 Immediately or after predetermined time interval has expired, indicator should show "clear" or "unlock" and switch can be unlocked by completing the movement of the lock lever to the extreme left hand position.
- (c) For movements using controlled electric locks:
 - 1. Proceed as above after obtaining release from control station.
- (d) After a movement into or out of the switch has been completed and the hand lever of switch returned to normal position, the crank handle in the lock housing must be restored to the right hand or normal position and the door on the lock housing closed and locked.

An emergency release is provided in the lock housing for use in case of trouble or if the electric lock fails to operate promptly. To operate the emergency release, after obtaining permission from control station, break seal and move emergency lever to release position, then operate in the usual manner. When emergency release is operated to enter main track from a spur, Rule 404 must be observed. If emergency release is operated, notify control station immediately as signals will remain in stop position until mechanism has been reset by signal maintainer.

2. US&S Electric Locks

One type of locking mechanism is located in a metal housing on a post adjacent to the switch stand and is connected by means of a lock rod to the switch point and is actuated by operating handle. The second type of locking mechanism locks the operating lever of switch and is actuated by a foot pedal. The release of the locks is automatic for train entering the switches from the main track.

- (a) For movement from main track to siding or spur track;
 - 1. Stop engine or cars just ahead of switch points.
 - Actuate operating handle or foot pedal to unlock position. This unlocks the switch and it can be operated the same as any other hand throw switch.
- (b) For movement from siding or spur track to the main track:
 - Secure permission from the control station to operate the electric lock and enter main track. The switch must be unlocked and thrown before the derail or inside crossover switch is operated.
 - 2. Actuate operating handle or foot pedal to request unlock of switch. Immediately or after predetermined time interval has expired the switch is unlocked and it can be operated the same as any other hand throw switch.
- (c) For movements using controlled electric locks:
 - 1. Proceed as above after obtaining release from control station.
- (d) When movement over switch is completed, return handles and padlocks to normal position.

When an emergency release is provided in the lock housing for use in case of trouble or if the electric lock fails to operate properly, advise and secure authority from control station to break the seal, insert switch key and turn to release electric lock, then switch may be lined and movement made. When emergency release is operated to enter main track from a spur, Rule 404 must be observed.

16. COMMUNICATION & SIGNAL INFORMATION (Cont'd)

If electric lock is not equipped with emergency release seal, communicate with control station for instructions.

16b. DETECTORS

1. Location of Detectors

Radio	1. Location of Detec	tors	,		
Location			l		
New Waverly	T	3511 - D4			
New Waverly		Mile Post	Type	East/North	West/South
Clymers	Lafayette District				
Delphi	New Waverly	D209.5	TSA	D207	D213
East Yard	Clymers	D225.5	TSA	D223	D229
Flint		D240.9		D238	D244
Williamsport D280.4 TSA D277 D283 State Line D295.0 TSA D292 D298 Catlin D309.3 TSA D306 D312 Sidney D325.9 TSA D340 D346 Milmine D359.5 TSA D340 D346 Milmine D357.7 TSA D357 D363 Bloomington Dist. Foosland C120.8 TSA C118 C124 Lodge C139.3 TSA C136 C142 Brooklyn District Blue Mound D387.7 SAD D385 D391 Willeys D397.4 SAD D406 D412 Clarksdale D409.4 SAD D406 D412 Harvel D419.2 SAD D416 D422 Honey Bend D431.0 SAD D446 D422 Honey Bend D431.0 SAD D446 D422 Honey Bend D431.0 SAD D4		D250.5	TSA	D248	D254
State Line					
Catlin					_
Sidney	1		1		
Sadorus D343.2 TSA D340 D346 Milmine D359.5 TSA D357 D363 D363 D357 D363 D364 D406 C142 D406 C142 D406 D412 D419.2 D406 D412 D419.2 D406 D412 D419.2 D406 D416 D422 D406 D416 D422 D406 D416 D422 D406 D416 D424 D419.2 D416 D424 D419.2 D419.2 D416 D424 D419.2 D419.2 D419 1 1					
Milmine					
Bloomington Dist. Foosland C120.8 TSA C136 C142					_
Foosland	Milmine	D359.5	TSA	D357	D363
Docklyn District Blue Mound D387.7 SAD D385 D391 Willeys D397.4 SAD D394 D400 D400 Clarksdale D409.4 SAD D406 D412 Harvel D419.2 SAD D416 D422 Honey Bend D431.0 SAD D428 D434 Mt. Olive D431.0 SAD D440 D446 Worden D454.5 SAD D452 D458 Edwardsville D465.8 SAD D463 D469 Granite City D477.7 SAD D475 D481 Springfield Hannibal District Niantic DH388.1 TSA DH385 DH401 DH407.2 TSA DH404 DH410 Curran DH423.1 TSA DH435 DH441 DH453.2 TSA DH465 DH470 DH453.2 TSA DH465 DH470 DH465 DH467.5 TSA DH465 DH470 DH488 Barry DH499 TSA DH496 DH502 Hull DH506.3 TSA DH503 DH509 Hull DH506.3 TSA DH503 DH509 H365 TSA DH503 DH509 Paris H43.9 TSA H54 H30 Paris H43.9 TSA H54 H30 Paris H43.9 TSA H54 H30 Paris H43.9 TSA H54 H59 St. Louis District Robertson S19 SAD S22 S16 St. Peters S27.1 SAD S40 S35 Wentzville S45.4 SAD S48 S42 Wright City S53.9 SAD S66 S60 Jonesburg S71.5 SAD S46 S80 Martinsburg S95.1 SAD S98 S92	Bloomington Dist.				
Brooklyn District Blue Mound D387.7 SAD D385 D391 Willeys D397.4 SAD D394 D400 D400 Clarksdale D409.4 SAD D406 D412 Harvel D419.2 SAD D416 D422 Honey Bend D431.0 SAD D428 D434 Mt. Olive D443.3 SAD D440 D446 Worden D454.5 SAD D452 D458 Edwardsville D465.8 SAD D463 D469 Granite City D477.7 SAD D475 D481 Springfield Hannibal District Niantic DH388.1 TSA DH385 DH401 Curran DH407.2 TSA DH404 DH410 Curran DH423.1 TSA DH420 DH426 Alexander DH437.6 TSA DH435 DH441 Markham DH453.2 TSA DH450 DH456 Bluffs DH467.5 TSA DH465 DH470 New Salem DH485.2 TSA DH496 DH502 Hull DH506.3 TSA DH503 DH509 Hull DH506.3 TSA DH503 DH509 Rensselaer H9 TSA H6 H12 Clapper H26.7 TSA H24 H30 H36 H32 TSA H30 H30 H30 H30 H30 S24 O'Fallon S37.5 SAD S40 S35 Wentzville S45.4 SAD S48 S42 Wright City S53.9 SAD S66 S60 Jonesburg S71.5 SAD S86 S80 Martinsburg S95.1 SAD S98 S92	Foosland	C120.8	TSA	C118	C124
Blue Mound D387.7 SAD D385 D391 Willeys D397.4 SAD D394 D400 D400 Clarksdale D409.4 SAD D406 D412 Harvel D419.2 SAD D416 D422 Honey Bend D431.0 SAD D428 D434 Mt. Olive D434.3 SAD D440 D446 Worden D454.5 SAD D452 D458 Edwardsville D465.8 SAD D463 D469 Granite City D477.7 SAD D475 D481 Springfield Hannibal District DH388.1 TSA DH385 DH401 Riverton DH407.2 TSA DH404 DH410 Curran DH423.1 TSA DH420 DH426 Alexander DH437.6 TSA DH435 DH441 Markham DH453.2 TSA DH450 DH456 Bluffs DH467.5 TSA DH465 DH470 New Salem DH485.2 TSA DH496 DH502 Hull DH506.3 TSA DH496 DH502 Hull DH506.3 TSA DH503 DH509 Rensselaer H9 TSA H6 H12 Clapper H26.7 TSA H24 H30 H30 H30 H36.5 TSA H41 H47 Madison H36.5 TSA D530 S24 O'Fallon S37.5 SAD S40 S35 Wentzville S45.4 SAD S48 S42 Wright City S53.9 SAD S66 S60 Jonesburg S71.5 SAD S86 S80 Martinsburg S95.1 SAD S98 S92	Lodge	C139.3	TSA	C136	C142
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Clarksdale					
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Honey Bend D431.0 SAD D428 D434 Mt. Olive D443.3 SAD D440 D446 Worden D454.5 SAD D452 D458 Edwardsville D465.8 SAD D463 D469 Granite City D477.7 SAD D475 D481 Springfield Hannibal District Niantic DH388.1 TSA DH385 DH401 Riverton DH407.2 TSA DH404 DH410 Curran DH423.1 TSA DH420 DH426 Alexander DH437.6 TSA DH435 DH441 Markham DH453.2 TSA DH450 DH456 Bluffs DH467.5 TSA DH450 DH456 Bluffs DH467.5 TSA DH496 DH502 Hull DH506.3 TSA DH496 DH502 Hull DH506.3 TSA DH503 DH509 Rensselaer H9 TSA H6 H12 Clapper H26.7 TSA H24 H30 Paris H43.9 TSA H41 H47 Madison H56.5 TSA H54 H59 St. Louis District Robertson S19 SAD S22 S16 St. Peters S27.1 SAD S30 S24 O'Fallon S37.5 SAD S40 S35 Wentzville S45.4 SAD S48 S42 Wright City S53.9 SAD S66 S60 Jonesburg S71.5 SAD S66 S60 Montgomery S83.0 SAD S86 S80 Martinsburg S95.1 SAD S98 S92	1				
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New Salem DH485.2 TSA DH482 DH488	Markham	DH453.2	TSA	DH450	DH456
Barry	Bluffs	DH467.5	TSA	DH465	DH470
Hull	New Salem	DH485.2	TSA	DH482	DH488
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Clapper Paris H26.7 H43.9 H30 H41 H47 H47 H46 Madison H56.5 TSA H54 H59 St. Louis District Robertson S19 SAD S22 S16 St. Peters St. Peters S27.1 SAD S30 S24 O'Fallon O'Fallon S37.5 SAD S40 S35 Wentzville Wright City S53.9 SAD S57 S51 Warrenton Jonesburg S71.5 SAD S66 S60 S60 Jonesburg Montgomery S83.0 SAD S86 S80 S80 Martinsburg Martinsburg S95.1 SAD S98 S92		DH506.3			DH509
Paris H43.9 TSA H41 H47 Madison H56.5 TSA H54 H59					
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Wright City \$53.9 SAD \$57 \$51 Warrenton \$63.0 SAD \$66 \$60 Jonesburg \$71.5 SAD \$74 \$69 Montgomery \$83.0 SAD \$86 \$80 Martinsburg \$95.1 SAD \$98 \$92	O'Fallon	S37.5	SAD	S40	\$35
Warrenton S63.0 SAD S66 S60 Jonesburg S71.5 SAD S74 S69 Montgomery S83.0 SAD S86 S80 Martinsburg S95.1 SAD S98 S92				\$48	S42
Jonesburg S71.5 SAD S74 S69 S83.0 SAD S86 S80 S80 S92 S95.1 SAD S98 S92 S95.1 SAD S98 S92 S95.1 SAD S98 S92 S95.1 SAD S98 S92 S95.1 SAD S98 S92 S95.1 SAD S98 S92 S95.1 SAD S98 S92 S95.1 SAD S98 S92 S95.1 SAD S98 S95.1 SAD					
Montgomery			SAD		860
Martinsburg S95.1 SAD S98 S92		S71.5		S74	S69
	Montgomery				
Mexico \$106.8 \$4D. \$110 \$104					
5105.5	Mexico	\$106.8	SAD	S110	\$104

16b. DETECTORS (Cont'd)

1. Location of Detectors

				dio gement Point
Location	Mile Post	Туре		West/South
St. Louis District (Cont'd)	-	-		
Thompson	\$118.2	SAD	S121	S115
Centralia	\$129.1	SAD	S132	S126
Renick	\$140.2	SAD	\$143	S127
Kansas City District				
Clifton	\$165.0	TSA	S162	S168
Dalton	\$179.5	TSA	S177	\$183
Miami	S195.6	TSA	\$193	S199
Carrollton	S208.5	TSA	S206	\$212
Hardin	\$226.0	TSA	S223	S229
South Track			_	/
Camden	S239.8	TSA	S237	\$243
South Track]	5
Missouri City	\$258.0	TSA	S255	S261

TSA = Track Side Analyzer

SAD = Stand Alone Detector

SADD = Stand Alone Dragging Equipment Detector

2. INSTRUCTIONS FOR DETECTORS

a. TRACK SIDE ANALYZERS (TSA)

TSA make automatic analysis of train condition by monitoring hot journals and dragging equipment, followed by an automatic radio transmission concerning same.

- When approaching, passing, or departing TSA location, crew members must be alert for TSA radio transmission (on road frequency for the territory). When in the vicinity of TSA locations, all employees must keep radio transmissions to an absolute minimum to avoid interference with TSA radio messages.
- When a train is occupying a TSA and a defect has been detected, an automatic radio transmission as shown in example (a) or (b) below will occur:
 - (a) A "TONE" will indicate that a hot bearing has been detected and, after rear has cleared TSA, train must be stopped for inspection. When rear has cleared TSA, a radio message will be transmitted twice to indicate nature of defect and its location in train. The location will be given by axle count, counting from the first axle in the locomotive consist. TSA will identify track to which message is applicable in double track territory.
 - (b) When an excessively hot journal or dragging equipment has been detected, a radio message stating "CRITICAL ALARM" will be transmitted at once and train must be stopped for inspection as soon as possible, consistent with safe train handling procedures. When TSA has stopped analyzing the train (this will occur when train clears TSA, when train is stopped on TSA, or when train speed over TSA drops below 8 MPH), a radio message will be transmitted twice to indicate nature of defect and its location in train. The location will be given by axle count counting from the first axle in the locomotive consist. TSA will identify track to which message is applicable (in double track territory).

Note: When inspection is required by either (a) or (b) above, a thorough inspection will be made of both sides of car(s) indicated as being defective. If no apparent defects are found, five cars on either side of designated car(s) will be thoroughly inspected on both sides. After a defect message has been received, if train is stopped

while occupying TSA, or if train speed over TSA drops below 8 MPH, all cars following the last car indicated as being defective must be inspected. While enroute to and from either end of train to car(s) to be inspected, crew members will, when practicable and safe to do so, make a visual inspection of both sides of train. All defect messages, including nature of defect and its location in train, must be acknowledged to the Dispatcher. Dispatcher must be notified of results of inspection, even if no trouble is located.

- 3. When no defects have been indicated, and one of the following conditions exist, a visual inspection must be made of both sides of train by crew member(s) on the ground, unless a visual inspection of both sides of train can or is to be made by other employees located in the near vicinity:
 - Train stops on TSA;
 - Train speed over TSA drops below 8 MPH;
 - Train is operated over a track which causes it to by-pass a TSA it normally would pass over.

EXCEPTION: If the dispatcher has positive knowledge that a proper reading was obtained for all or a portion of the train, he will instruct crew members to inspect only the portion for which a proper reading was not obtained.

- 4. When no defects have been detected, the exit radio message will be: "NS TSA, mile post location, and identification of track to which message is applicable (in double track territory), followed by axle count of the train and message "NO DEFECTS". When a "NO DEFECTS" message has been received, it will not be necessary to acknowledge same to the dispatcher. Operating Rules 506 and 609 are modified accordingly.
 - NOTE: If "NO DEFECTS" message has not been received from either TSA or dispatcher before passing the designated radio acknowledgment point, train must be stopped and dispatcher contacted for further instructions. If dispatcher cannot be contacted, entire train must be inspected in accordance with Item 4.
- 5. When a TSA reports "Analyzer Failure" to a train crew, the train must be stopped and inspected. If any message other than "Analyzer Failure" is transmitted to a train, and the crew does not understand the message, the CRT in Dispatcher's Office may be used to determine if train needs inspected.
 - When notified that a defect has been detected that requires stopping for inspection before yarding train, stop must be made promptly and inspection of indicated car(s) made in accordance with noted Item 3.
- If radio message "Train too slow from axle (XXX)" is received, the train must be inspected from the identified axle to end of train in accordance with Item 4.

b. Stand Alone Detectors (SAD)

SAD makes automatic analysis of train condition by monitoring hot journals and dragging equipment, followed by an automatic radio transmission concerning same.

- When approaching, passing, or departing SAD location, crew members must be alert for SAD radio transmission (on road frequency for the territory). When in the vicinity of SAD locations, all employees must keep radio transmissions to an absolute minimum to avoid interference with SAD radio messages.
- When a train is occupying a SAD and a defect has been detected, an automatic radio transmission as shown in example (a) or (b) below will occur:
 - (a) A "TONE" will indicate that a hot bearing has been detected and, after rear has cleared SAD, train must be stopped

for inspection. When rear has cleared SAD, a radio message will be transmitted twice to indicate nature of defect and its location in train. The location will be given by axle count, counting from the first axle in the locomotive consist. SAD will identify track to which message is applicable in double track territory.

(b) When SAD has stopped analyzing the train (this will occur when train clears SAD, when train is stopped on SAD, or when train speed over SAD drops below 8 MPH), a radio message will be transmitted twice to indicate nature of defect and its location in train. The location will be given by axle count counting from the first axle in the locomotive consist. SAD will identify track to which message is applicable (in double track territory).

NOTE: When inspection is required by either (a) or (b) above, a thorough inspection will be made of both sides of car(s) indicated as being defective. If no apparent defects are found, five cars on either side of designated car(s) will be thoroughly inspected on both sides. After a defect message has been received, if train is stopped while occupying SAD, or if train speed over SAD drops below 8 MPH, all cars following the last car indicated as being defective must be inspected. While enroute to and from either end of train to car(s) to be inspected, crew members will, when practicable and safe to do so, make a visual inspection of both sides of train. All defect messages, including nature of defect and its location in train, must be acknowledged to the Dispatcher. Dispatcher must be notified of results of inspection, even if no trouble is located.

- 3. When no defects have been indicated, and one of the following conditions exist, a visual inspection must be made of both sides of train by crew member(s) on the ground, unless a visual inspection of both sides of train can or is to be made by other employees located in the near vicinity:
 - Train stops on SAD;
 - Train speed over SAD drops below 8 MPH;
 - Train is operated over a track which causes it to by-pass a SAD it normally would pass over.

EXCEPTION: If the dispatcher has positive knowledge that a proper reading was obtained for all or a portion of the train, he will instruct crew members to inspect only the portion for which a proper reading was not obtained.

- 4. When no defects have been detected, the exit radio message will be: "NS SAD, mile post location, and identification of track to which message is applicable (in double track territory), followed by axle count of the train and message "NO DEFECTS". When a "NO DEFECTS" message has been received, it will not be necessary to acknowledge same to the dispatcher. Operating Rules 506 and 609 are modified accordingly.
 - NOTE: If "NO DEFECTS" message has not been received from SAD before passing the radio acknowledgment point, train must be stopped and dispatcher contacted for further instructions. If dispatcher cannot be contacted, entire train must be inspected in accordance with Item 4.
- 5. When a SAD reports "Detector Malfunction" to a train crew, the train must be stopped and inspected. If any message other than "Detector Malfunction" is transmitted to a train, and the crew does not understand the message, contact the dispatcher for further instructions.

When notified that a defect has been detected that requires stopping for inspection before yarding train, stop must be made promptly and inspection of indicated car(s) made in accordance with noted Item 3.

If a detector announces "NO DEFECTS, CALL MAINTAINER," the crew should notify the Chief Dispatcher immediately for further handling. The train should not be stopped.

 If radio message "Train too slow from axle (XXX)" is received, the train must be inspected from the identified axle to end of train in accordance with Item 4.

c. Stand Alone Dragging Equipment Detectors (Voice Radio Alarm Only)

Springfield-Hannibal District, M.P. DH514.2 and M.P. DH514.6

When the voice radio alarm is activated at a detector, the train must be stopped promptly for inspection. The dispatcher must be advised of the stop and results of inspection and corrections made. Train crews receiving messages transmitted from voice radio alarms located at defect detector sites will stop their train only if their trains are actually passing the detector identified on the radio or if the rear of their train is within 1/2 mile of the detector after having passed it.

When a train is stopped for dragging equipment indication, the following information must be given to the dispatcher as quickly as radio communication can be established.

- 1. Car number.
- 2. Type of dragging equipment found.
- 3. Type of car.
- 4. Loaded or empty.
- 5. Disposition of car.

This information must be furnished each time train is stopped.

16c. ALL CHANNEL RADIOS

The following table lists designated AAR channels when using "All Channel" radios:

FREQUENCY	AAR (TX) TRANSMIT CHANNEL	AAR (RX) RECEIVE CHANNEL
SOU 1-Road	56	56
SOU 2-Dispatcher	48	09
NW 1	72	72
NW 2	76	76
NW 3	22	22
CSX 1-Road	84	84
CSX 2-Dispatcher	94	94
CSX 3-Road	32	32
CSX 4-Road	66	66
Claycomo Terminal	18	18
CNW Road	62	62
CNW Yard	14	14
NW 1 NW 2 NW 3 CSX 1-Road CSX 2-Dispatcher CSX 3-Road CSX 4-Road Claycomo Terminal CNW Road	72 76 22 84 94 32 66 18	72 76 22 84 94 32 66 18

When operating on other railroads, it will be necessary to consult the governing foreign line timetable or special instructions to ascertain the AAR transmit and receive channels for that road.

Transmitting on unauthorized channels is a violation of Federal Law, and is prohibited.

To contact the dispatcher, the proper "DTMF" signal code must be dialed in by using the "TONE" selector knob and then depressing the "DISP" selector button. The following conversion table shows the "DTMF" code to be used:

ACC		•		•		•	_	_									C)	TH	WF CODE	•
1																				2	
2																				5	
3																				8	
4																				0	

16d. LOCATION OF DISPATCHER-CONTROLLED RADIO BASE STATIONS

Accousti-	

Location	Ereguenev	couple Access	DTMF	
Lafavette Distric	Frequency	Code	Code	Hours
•		_		
Peru, IN	NW 3	3	8	Continuous
Clymers, IN	NW 3	3	8	Continuous
Lafayette, IN	NW 3	3	8	Continuous
Williamsport, IN	NW 3	3	8	Continuous
Tilton, IL	NW 3	3	8	Continuous
Philo, IL	NW 3	3	8	Continuous
Bement, IL	NW 3	3	8	Continuous
Decatur, IL	NW 3	3	8	Continuous
Frankfort Branci	1			
Frankfort, IN	NW 3	3	8	Continuous
Bloomington Dis	triat	_	_	o mana o ao
Peoria, IL		2		
,	NW 3	3	8	Continuous
Bloomington, IL	NW 3	3	8	Continuous
Gibson City, IL	NW 3	3	8	Continuous
Bement, IL	NW 3	3	8	Continuous
Brooklyn District	t			
Decatur, IL	NW 3	1	2	Continuous
Mt. Auburn, IL	NW 3	1	2	Continuous
Greenwood, IL	NW 3	1	2	Continuous
Litchfield, IL	NW 3	1	2	Continuous
Carpenter, IL	NW 3	1		Continuous
St. Louis, MO	NW 3	1	$\bar{2}$	Continuous
Springfield/Hanni	-		_	Contandodo
Decatur, IL	NW 3	4	2	.
Mt Auburn, IL		1	2	Continuous
Springfield, IL	5	1	2	Continuous
	NW 3	1	2	Continuous
Arnold, IL	NW 3	1	2	Continuous
Bluffs, IL	NW 3	1	2	Continuous
Baylis, IL	NW 3	I	2	Continuous
Hannibal, MO	NW 3	1	2	Continuous
Hannibal, MO	NW 3	2	5	Continuous
Clapper, MO	NW 3	2	5	Continuous
Moberly, MO	NW 3	2	5	Continuous
St. Louis District	t			•
St. Louis, MO	NW 3	1	2	Continuous
Wentzville, MO	NW 3	1	<u>-</u>	Continuous
New Florence, MO		ī	2	Continuous
Mexico, MO	NW 3	ī	$\bar{2}$	Continuous
Moberly, MO	NW 3	î	2	Continuous
Kansas City Dist	riot	_	_	Committees
<u>=</u>				
Moberly, MO	NW 3	1	2	Continuous
Dalton, MO	NW 3	1	2	Continuous
Carrollton, MO	NW 3	1	2	Continuous
Carrollton, MO				
(ATSF)	NW 3	3	8	Continuous
Camden, MO	NW 3	1	2	Continuous
Kansas City, MO	NW 3	1	2	Continuous

All road trains will use the road channel (NW 3) to communicate with Claycomo yardmaster, operator at North Kansas City, and operator to BN-Ustick Tower. Yard crews will use the road channel (NW 3) to communicate with BN-Ustick channel.

When use of DTMF code or Accousticouple Access code is required, field personnel will receive an answer back tone after the calling signal tone is sent, but they will not be able to communicate with the dispatcher until he answers their call.

EMERGENCY CALL-IN FEATURE

After transmitting access signal tone, press "O" if using DTMF Code, or "4" if using Accousticouple Access Code, within ten seconds an answer back tone will be heard in the field, enabling the dispatcher to monitor all radio transmission on the channel being used.

16e. LOCATION OF	WAYSIDE RADIO BAS	E STATIONS
LOCATION	FREQUENCY	HOURS
Lafayette District		
Lafayette, IN		
(East Yard)	NW 2 & NW 3	Continuous
Tilton, IL	NW 2 & NW 3	Continuous
Decatur, IL	NW 2 & NW 3	Continuous
Frankfort Branch		
Lafayette, IN		
(South Yard)	NW 2 & NW 3	Continuous
Bloomington District		
Bloomington, IL	NW 3	See Sect. 15
Springfield/Hannibal Dis	strict	
Springfield, IL	NW 3	Continuous
Valley City, IL	NW 3	Continuous
Hannibal, MO	NW 3	Continuous
St. Louis District		
St. Louis, MO	NW 2 & NW 3	Continuous
Berkeley, MO	NW 2 & NW 3	Continuous
Wentzville, Mo	NW 3	Continuous
Kansas City District		
Moberly, MO	NW 2 & NW 3	Continuous
Kansas City, MO	NW 2 & NW 3	Continuous
Claycomo, MO	Claycomo	Continuous
Moulton/Des Moines Di	strict	
Des Moines, IA	NW 3	See Sec. 15

17. HAZARDOUS MATERIALS

A. GENERAL INSTRUCTIONS

- 1. Compliance with the Code of Federal Hazardous Materials Regulations (49 CFR) of the U.S. Department of Transportation (found in the current edition of the AAR Bureau of Explosives Tariff BOE-6000 Series), and Norfolk Southern's special rules for handling hazardous materials, is required of all employees of Norfolk Southern Railway Company. References to specific sections of the 49 CFR included in the BOE Tariff are enclosed in brackets, for example [174.24].
- 2. A carrier must forward each shipment of hazardous materials promptly and within 48 hours (Saturdays, Sundays, and holidays excluded) after acceptance at the originating point, except that where biweekly or weekly service only is performed, a shipment of hazardous materials must be forwarded on the first available train [174.14].
- 3. Definitions of terms for these instructions are listed in 49 CFR Section 171.8. For technical interpretations on these instructions call Hazardous Materials Management in Roanoke at 7-981-3762 or (703)-981-3762; or in Atlanta at 7-529-2242 or (404)-529-2242.

B. SWITCHING OF PLACARDED CARS:

1. Every employee involved in the switching of hazardous materials cars, both on line of road and in yards, must be familiar with and be governed by the instructions contained in the "Hazardous Materials Switching Chart" found in the back of the timetable [174.82-174.83].

17. HAZARDOUS MATERIALS (Cont'd)

- 2. When switching loaded placarded tank cars, or switching cars that will couple to loaded placarded tank cars, maximum reasonable efforts must be made to achieve couplings at speeds not to exceed 4 MPH.
- 3. Employees must position themselves at least fifteen (15) feet, and more if possible, from the manway and valves prior to coupling. Contents of tank cars may splash during or immediately following coupling due to improperly secured closures.
- 4. Persons having access to waybills or shipping instructions must see that concerned employees are notified when hazardous materials are to be handled.
- 5. Cars placarded "EXPLOSIVES", "FLAMMABLE GAS", or "FLAMMABLE" must not be left on any track unless track is free from combustible material such as dead grass and weeds.

C. TRAIN PLACEMENT OF PLACARDED CARS:

- 1. Every employee involved in the positioning in train of hazardous materials cars, must be familiar with and be governed by the instructions contained in the "Hazardous Materials Position in Train Chart" found in the back of the timetable [174.82-174.85].
- 2. The "Hazardous Materials Position in Train Chart" will also apply to yard movements on a main track if the intended movement will exceed one mile,
- 3. At the commencement of each trip, the conductor or competent crew member directed by the conductor must inspect the six head cars behind the engine and the six rear cars ahead of an occupied caboose to ascertain that placarded hazardous material cars are properly positioned. This will not be required at a terminal when relieving an NS crew, and the train has remained intact.
- 4. The train crew must have a document (consist, wheel report, or hazardous materials list) indicating the position in train of each loaded placarded car containing hazardous materials, except when the position is changed or the placarded car is placed in the train by a crew member of the train (See Operating Rule 573), [174.26(b)].
- 5. At each terminal or other place where trains are made up or switched by crews other than the outbound train crew, the outbound train and engine crew must receive a consecutively numbered notice (NS FORM 11562) indicating the position in the train of each car placarded Division 1.1 or 1.2 (Class A Explosives), Division 2.3 Hazard Zone A (Poison Gases), or Division 6.1 PG I Hazard Zone A (Poison). These placards will be mounted on white square background for ease of identification. (See Operating Rule 573), [174.26(a) & 172.510].
- 6. When loaded cars containing hazardous materials are picked up on line of road and there is no agent or clerical force on duty, the train dispatcher or other appropriate authority (trainmaster, yardmasters, and operators as applicable), must be notified that pick-up includes hazardous materials.
- 7. An "empty/residue" tank car placarded as in Group 2 on the Train Placement Chart, can be handled in the same manner specified for an "empty/residue" tank car placarded as in Group 4 on the train placement chart.

D. KEY TRAINS:

- 1. The definition of a "KEY TRAIN" is:
- Any train handling five (5) or more carloads of POISON INHALATION HAZARD (Hazard Zone A or B) gases or liquids;
- Any train handling any combination of twenty (20) or more carloads, including intermodal portable tank loads, of:
 - (a) POISON INHALATION HAZARD (Hazard Zone A or B) gases or liquids;
 - (b) Division 1.1 or 1.2 (Class A Explosives);

- (c) Division 2.1 (Flammable Gas); or
- (d) Environmentally Sensitive Chemicals
- A commodity designated as a Poison Inhalation Hazard "PIH" will be identified by the "Poison Inhalation Hazard" or "Inhalation Hazard" notation on waybill or shipping document. The same notation will be stenciled in 4-inch letters on each side of tank cars containing "PIH" materials.
- Division 1.1 or 1.2 (Class A Explosives) and/or Division 2.1 (Flammable Gas) commodities will be identified by the corresponding placard, or the Hazard Class on the waybill or shipping document.
- Environmentally Sensitive Chemicals can be identified by the chemical name or commodity code on the following list:

List of Environmentally Sensitive Chemicals

- 1. Allyl Chloride (4907412)
- 2. Carbon Tetrachloride (4940320/4921830/4921831)
- 3. Chlorobenzene (4909153)
- 4. Chloroform (4940310/4940311/4921767/4921769)
- 5. Dichlorobenzene (4941127/4921869)
- 6 Dichloropropane (4909269)
- 7 Dichloropropane/Dichloropropene mixture (4907640)
- 8 Dichloropropene (4909255)
- 9. Ethyl chloride (4908162)
- 10. Ethylene Dibromide (Also PIH) (4921497)
- 11. Ethylene Dibromide and Methyl Bromide Mixtures (Also PIH) (4921438)
- 12. Ethylene Dichloride (4909166)
- 13. Epichlorohydrin (4907420/4921005)
- 14. Methyl Chloroform (4941176/4921848)
- 15. Methylene Chloride (4941132/4921735)
- 16. Perchloroethylene (4940355/4921868)
- 17. Perchloroethylene/Trichloroethylene mixture (4940373)
- 18. Trichloroethylene (4941171/4921847)

NOTE: Yard movements on a main track will also be governed by the definition and operating requirements of KEY TRAINS if the intended movement will exceed one mile.

- 2. KEY TRAINS will be identified at certain locations on train consist copy, but at all locations conductor will be responsible for examining waybills to ascertain whether or not hazardous materials cars in train meet KEY TRAIN criteria. Conductor will promptly notify the dispatcher, or the appropriate authority for notification purposes (trainmasters, yardmasters, and operators as applicable) who in turn will notify the dispatcher, if the train or yard movement is to be designated as a KEY TRAIN.
- 3. In addition to the above, yard clerical forces handling outbound trains at train makeup or intermediate terminals must notify the dispatcher or the appropriate authority for notification purposes, if a train is to be designated as a KEY TRAIN. This notification should be made as soon as possible and may be made by telephone, or by entering information directly into the Computer Aided Dispatching system where this capability is available. In the event the computer is down, or if not equipped to determine this information by computer, a review of waybills must be made to determine KEY TRAIN status.
- 4. If train sets out or picks up loaded hazardous materials cars on line of road, and set-out or pick-up changes **KEY TRAIN** status, conductor will promptly notify dispatcher. The positions of the hazardous materials cars picked up will be recorded by the conductor on his consist.

17. HAZARDOUS MATERIALS (Cont'd)

- 5. The following **RESTRICTIONS** must be observed for movement of **KEY TRAINS**:
- (a) Maximum authorized speed of 50 MPH, unless further restricted.
- (b) At meeting or passing points, when practicable, KEY TRAIN will hold main track unless a speed of 15 MPH or greater is authorized for siding or auxiliary track.
- (c) When any track with an authorized speed of 10 MPH or less is used for meeting or passing a **KEY TRAIN**, one of the trains must be stopped before the other train passes.
- (d) When a KEY TRAIN is stopped by an emergency brake application or by some unknown cause, the train must be inspected for derailed or defective cars in accordance with NS Operating Rule 102.
- (e) If a defect in a KEY TRAIN journal is reported by a wayside detector, but inspection of the journal fails to confirm evidence of a defect, the train will not exceed 30 MPH until it has passed over the next wayside detector. If the same car again sets off the next detector, it must be set out from the train.

E. DOCUMENTATION:

1. No hazardous materials car, loaded or residue (empty), may be moved on line of road without a waybill, consist, switch list, wheel report, or other shipping document which identifies its contents or previous contents by proper shipping name, hazard class, UN/NA 4-digit identification number, a 24-hour emergency contact number, and quantity (may be properly specified as "One (1) Tank Car Load", or "1 T/C"). Other common elements which must be included if applicable are the packing group, placard notation, placard endorsement, reportable quantity (RQ), poison inhalation hazard notation, hazard zone, residue notation, marine pollutant notation, and/or shipper certification [172.210 & 174.24].

2. EXAMPLE OF SHIPPING PAPER DESCRIPTION:

- 1 T/C CHLORINE
 2.3 (POISON GAS)
 UN 1017
 RQ (CHLORINE)
 MARINE POLLUTANT (CHLORINE)
 POISON INHALATION HAZARD ZONE B
 PLACARDED: POISON GAS
 EMERGENCY TELEPHONE: (###) ### ####
- 3. At the commencement of each trip, the conductor or competent crew member directed by the conductor must examine waybilis and/or consist to identify cars containing hazardous materials. A member of the train crew of a train transporting hazardous materials must have in his possession a copy of the shipping papers (as described in 1 above) for all shipments of hazardous materials [174.24].
- 4. A member of a train or yard crew is required to have a copy of the shipping papers (as described in 1 above) for any hazardous materials shipments before they are removed from the shipper's plant for direct or eventual forwarding to the yard; or when making delivery of hazardous materials shipments to a consignee's plant or siding. Documentation is not required for respotting within a plant or for movement to adjacent carrier tracks when the cars are to be respotted within the plant confines and are not being forwarded to the yard [174,24].
- 5. When picking up a hazardous material shipment from the shipper, the train crew should assure that the shipper's certification and signature are on the shipping papers received from the shipper. Shipper's certification is a signed statement from the shipper declaring that the hazardous materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to DOT regulations. This is not required if Norfolk Southern

is not the original carrier, if the certification is already in possession of the agency or central waybilling center, or for the return of empty tank cars which previously contained hazardous materials [172.204 & 174.24].

6. Agents, yardmasters, dispatchers, and train and engine service employees (both road and yard), must have a copy of the DOT Emergency Response Guidebook accessible when on duty. A crew member's copy maintained on the engine will be considered as being accessible to crews performing yard or switching service. Conductors will ascertain that a copy is on the controlling unit at the start of each trip or tour of duty [172.602].

F. INSPECTION:

- 1. Rail cars carrying hazardous materials and each rail car immediately adjacent thereto, must be inspected before acceptance at originating point, when received in interchange, and at any point where a train is required to be inspected (including the point where the car is placed in the train). The cars may continue in transit only when the inspection indicates that the cars are in safe condition for transportation [174.8].
- 2. Before coupling to a placarded tank car, loaded or residue (empty), employees must by observation from the ground determine that there is no visible or detectable leak; that all loading and unloading lines are disconnected; that platforms are raised or in the clear; and that manway covers and manway cover bolts, valve housing covers, bottom outlet caps, and plugs or caps on other openings are securely in their proper places.

EXCEPTION: Heater coil inlet and outlet pipes on residue (empty) tank cars which previously contained hazardous materials must be left open for drainage.

If any exceptions are noted, the tank car must not be coupled to or moved, and the industry and proper railroad authority must be notified promptly [174.9].

- 3. Before any closed (box or hopper) car containing hazardous materials is coupled into or moved, the crew must determine that the doors are closed and securely fastened [174.8 and 174.104].
- 4. Loaded or residue (empty) hazardous materials placarded tank cars not equipped with top and bottom shelf couplers must not be accepted in interchange, placed, or pulled at industrial tracks, or moved in a train. The Mechanical Department must be notified of such cars when offered in interchange or when released from industries.
- 5. Check to make sure the safety valve and tank test due dates are current (a car is within test until the last day of the month or year shown). These will appear on the right-hand side of the car under the specification marking. If they are not in date, notify your supervisor.

When a test of the safety valves or tank becomes due when a car is in transit, the car must be forwarded to its destination once the Mechanical Department has carded each side of the car with a card exhibiting the notice, "Safety Valves overdue for test or Tank overdue for test moving under authority of 49 CFR 174.9(c). A prompt report of such movement showing the car initials and number must be made to the Bureau of Explosives."

G. MARKING AND PLACARDING HAZARDOUS MATERIALS:

1. Hazardous Materials shipments must not be accepted at industries or in interchange unless placards, as specified on shipping papers, are affixed on each end and on each side of the car as required by regulations. Such placards must be securely in place before pulling loaded and/or residue (empty) tank cars, or other type rail cars containing hazardous materials. Cars with missing, damaged, faded, or improper placards must not be pulled {172.508 & 174.59}.

17. HAZARDOUS MATERIALS (Cont'd)

- 2. Each agent or yardmaster shall maintain an adequate supply of placards or markers (which are available through the NS Material Management System), to replace those that are lost or damaged, based on the information on the shipping papers [174.33]. Missing, damaged, or faded placards discovered in transit should be replaced at the next inspection point, and those not required must be removed at the next terminal where the train is classified [174.59]. Each specific operating location should have a standard procedure for replacing placards.
- 3. Until October 1, 1994, placards which conform to Pre-HM-181 specifications (right column), may be used in place of the placards specified in HM-181 (middle column) in accordance with the following **Placard Substitution Table** [171.14 & 174.25]:

Hazard Class or Division Number	HM-181 Placard Name (Current Name)	Pre-HM-181 Placard Name (O.K. Until Oct. 1, 1994)
DIVISION 1.1	EXPLOSIVES 1.1	EXPLOSIVES A
DIVISION 1.2	EXPLOSIVES 1.2	EXPLOSIVES A
DIVISION 1.3	EXPLOSIVES 1.3	EXPLOSIVES B
DIVISION 1.4	EXPLOSIVES 1.4	DANGEROUS
DIVISION 1.5	EXPLOSIVES 1.5	BLASTING AGENTS
DIVISION 1.6	EXPLOSIVES 1.6	DANGEROUS
DIVISION 2.1	FLAMMABLE GAS	FLAMMABLE GAS
DIVISION 2.2	NON-FLAMMABLE GAS	NON-FLAMMABLE GAS
DIVISION 2.3	POISON GAS	POISON GAS
CLASS 3	FLAMMABLE	FLAMMABLE
COMBUSTIBLE LIQUID	COMBUSTIBLE	COMBUSTIBLE
DIVISION 4.1	FLAMMABLE SOLID	FLAMMABLE SOLID
DIVISION 4.2	SPONTANEOUSLY COMBUSTIBLE	FLAMMABLE SOLID
DIVISION 4.3	DANGEROUS WHEN WET	FLAMMABLE SOLID W
DIVISION 5.1	OXIDIZER	OXIDIZER
DIVISION 5.2		ORGANIC PEROXIDE
DIV. 6.1, PG I or II	POISON	POISON
DIV. 6.1, PG III	KEEP AWAY FROM FOOD	(NONE REQUIRED)
CLASS 7 CLASS 8	RADIOACTIVE	RADIOACTIVE
CLASS 8	CORROSIVE	CORROSIVE
CLASS 9	CLASS 9 (OPTIONAL FOR DOMESTIC)	(NONE REQUIRED)
ORMs	(NONE REQUIRED)	(NONE REQUIRED)
		·• • • • · · · · · · · · · · · · · · ·

NOTE: Commodities classified as Poison Inhalation Hazards must be placarded with the HM-181 Placard effective October 1, 1992.

- 4. Federal regulations require SECONDARY placards for certain commodities which have subsidiary hazards. The addition of the SECONDARY placard does not change switching or position in train requirements, and the PRIMARY placard will govern. The PRIMARY and SECONDARY placards can be identified as follows: 1) the PRIMARY placard classification is the first hazard class following the proper shipping name on the shipping documents; 2) the use of the UN/NA 4-digit identification number is prohibited on the SECONDARY placard; and 3) no hazard class or division number may be displayed in the lower quadrant of a SECONDARY PLACARD [172.505 & 172.519].
- 5. If more than one of the UN/NA 4-digit identification number markings on placards, orange panels, or white square-on-point configurations are lost, damaged, or destroyed in transit, the carrier shall replace them as soon as practicable. The numbers may be entered legibly by hand using an indelible marking material [172.338].

6. Abulk packaging that contains a marine pollutant must be marked on each end and each side with the MARINE POLLUTANT mark. EXCEPTION: On a bulk packaging, freight container, or transport vehicle that bears a placard specified in hazardous materials timetable Rule G.3, the MARINE POLLUTANT marker is not required [172.203(1) & 172.322]. (NOTE: mandatory compliance date - Oct. 1, 1993)



7. Except for bulk packagings containing molten aluminum or molten sulfur, which must be marked "MOLTEN ALUMINUM" or "MOLTEN SULFUR" respectively, a bulk packaging containing an elevated temperature material must be marked on two opposing sides of the vehicle with the word "HOT" in letters at least 3.9 inches high. These materials will be described on the shipping papers as follows:

1) the proper shipping name will be "Elevated Temperature Material..."; or 2) the word "HOT" will immediately proceed the proper shipping name [172.202(n) & 172.325]. (NOTE: mandatory compliance date - Oct. 1, 1993)

H. HAZARDOUS WASTE AND PCB WASTE MANIFESTS:

- 1. Hazardous waste and polychlorinated biphenyl (PCB) wastes shipments must be handled with hazardous waste manifest forms. Manifests must be signed and dated when subject waste materials are picked up and appropriate signed and dated documents obtained when the wastes are delivered. Tracking of the waste by rail will be handled by waybill or other appropriate document with initial and final rail transporters being responsible for executing manifest requirements outlined above. A copy of the manifest may or may not be attached to the waybill or switchlist. Modified waybills may be used in lieu of hazardous waste manifest.
- 2. Whenever Norfolk Southern Railway Company is the origin or destination carrier, and you are pulling or placing a hazardous waste or PCB waste car at industry, coordinate with agent for instructions regarding signing and dating of the required waste management documents.

I. HYDROCYANIC ACID (HCN) TANK CARS

- 1. Tank cars containing Hydrocyanic Acid (HCN), are painted white with horizontal and vertical red stripes and placarded on each side and each end. They must be handled in accordance with the following instructions:
- (a) To be handled only when authorized by the Chief Dispatcher.
- (b) NS FORM 11562, "Notice of cars placarded Division 1.1 or 1.2 (Class A Explosives), Division 2.3 Hazard Zone A (Poison Gases), or Division 6.1 PG I Hazard Zone A (Poison)", must be issued to conductor and engineer (See Operating Rule 573).
- (c) The Chief Dispatcher must be notified immediately of any occurrence that may be hazardous.
- (d) In case of suspected leakage, car must be isolated and all except authorized persons kept away.
- (e) Under no circumstances should other than authorized persons get close to car in case of derailment.
- (f) The instructions posted on bulletin boards, in cabooses, and in cars assigned to wreck outfits must be read carefully.

17. HAZARDOUS MATERIALS (Cont'd)

- (g) Instructions attached to each waybill and placarded instructions on each car must be followed.
- (h) These instructions (a-g above) are applicable to both LOADED and RESIDUE (empty) cars.

J. LEAKING TANK CARS:

- 1. Except where movement to a repair point has been authorized, placarded hazardous materials cars must not be moved if there is any indication of leaking. The employee granting authority for the movement of such equipment must be sufficiently qualified to know that the move can be made safely, and will be responsible for issuing necessary instructions to the crew [174.50].
- 2. An industry must be notified before a leaking tank car is spotted on its track for unloading and then only with their permission.

K. REPORTING HAZARDOUS MATERIALS INCIDENTS:

CAUTION: Hazardous Materials can cause injury by inhalation, contact, ingestion, explosion, or fire. Chlorine, Anhydrous Ammonia, Sulfur Dioxide, Petroleum Products, as well as many other materials have distinct odors. Anytime such odors are detected in association with a shipment of hazardous materials YOU SHOULD GET OUT OF THE AREA AS SOON AS POSSIBLE and report the detection to the yardmaster, chief dispatcher and/or your immediate supervisor.

THE FOLLOWING MUST BE REPORTED IMMEDIATELY TO THE CHIEF DISPATCHER:

- 1. All unauthorized, unintentional and/or accidental spills or releases (including minor leaks) of commodities classified as hazardous under federal and/or state department of transportation and environmental protection agency regulations, including hazardous materials, hazardous substances, and hazardous wastes.
- 2. All spills or releases of oil (lubricating, hydraulic, etc.), fuel (diesel, gasoline, etc.), or any other materials that can cause damage to the environment, including water discoloration.
- 3. All incidents that result in any derailment or any damage to tank cars, intermodal tanks and containers, or any other rolling stock containing hazardous materials, substances, and/or wastes.

L. INSTRUCTIONS TO EMPLOYEES IN THE EVENT OF A HAZARDOUS MATERIALS INCIDENT OR ACCIDENT:

- 1. CHECK FOR INJURIES, PROVIDE ASSISTANCE AS NEEDED, NOTIFY THE TRAIN DISPATCHER OR YARDMASTER.
- 2. CHECK WAYBILLS AND DOCUMENTS FOR HAZARDOUS MATERIALS CARS. DOCUMENTS FOR THE MOST ACUTELY HAZARDOUS MATERIALS WILL BE ENDORSED OR STAMPED "EXPLOSIVES, POISON GAS ZONE A", POISON PG I ZONE A", "RADIOACTIVE MATERIAL", AND "DANGEROUS" IN THE UPPER LEFT HAND CORNER. HOWEVER, MANY SLOW ACTING/LONG TERM AND ENVIRONMENTALLY HAZARDOUS MATERIALS DO NOT REQUIRE THIS STAMP OR ENDORSEMENT. REVIEW DOCUMENTS CAREFULLY TO DETERMINE ALL HAZARDOUS MATERIALS PRESENT.
- 3. DO NOT GO NEAR DERAILED OR DAMAGED HAZARDOUS MATERIAL CARS TO INVESTIGATE ACCIDENT UNTIL IT IS DETERMINED TO BE SAFE.
- 4. EXTINGUISH ALL CIGARETTES, FUSEES, AND OPEN FLAMES UNTIL IT IS DEFINITELY DETERMINED THERE ARE NO FLAMMABLE VAPORS IN THE AREA.

- 5. GIVE DISPATCHER OR YARDMASTER INFORMATION ON:
- a. INJURIES.
- b. HOW MANY CARS ARE INVOLVED WITH THEIR LOCATION AND CONDITION WHERE POSSIBLE TO OBTAIN THIS INFORMATION SAFELY.
- c. EACH HAZARDOUS MATERIAL CAR; INITIAL AND NUMBER, CONTENTS, COMMODITY CODE, PLACARDS, SHIPPER, AND CONDITION OF CAR WHERE POSSIBLE TO OBTAIN THIS INFORMATION SAFELY.
- d. Danger to surrounding area: homes, schools, hospitals, streams, lakes, etc. as applicable.
- 6. REVIEW EMERGENCY RESPONSE INFORMATION ON TRAIN CONSIST, SHIPPING PAPERS, IN THE D.O.T. EMERGENCY RESPONSE GUIDEBOOK, OR OTHER SOURCE, AND TAKE ACTION AS NECESSARY.
- 7. IF FIRE OCCURS, AND IT CAN BE DONE SAFELY, PULL AWAY ALL CARS THAT ARE MOVABLE AND NOT BURNING.
- 8. INFORM LOCAL AUTHORITIES (FIRE DEPARTMENTS AND EMERGENCY RESPONDERS) OF THE CONTENTS OF EACH CAR THAT PRESENTS A HAZARD. GIVE THEM INFORMATION ON WAYBILLS, TRAIN CONSISTS, THE D.O.T. EMERGENCY RESPONSE GUIDEBOOK AND ANY OTHER INFORMATION YOU MAY HAVE CONCERNING THE PRODUCTS AND EQUIPMENT INVOLVED. ADVISE THEM TO KEEP PEOPLE AWAY FROM THE INCIDENT. THIS **DOES NOT** MEAN AN EVACUATION UNLESS THE EMERGENCY RESPONSE INFORMATION CALLS FOR SAME.

NOTE: The conductor will be responsible for ensuring that waybills, shipping documents and any emergency response instructions are on or near the locomotives and available to authorized emergency responders.

9. REPORT ALL INFORMATION ABOVE TO THE FIRST RAILROAD SUPERVISOR OR OTHER OFFICER(S) AS MAY BE DESIGNATED, WHO REACHES THE SCENE.

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20. INDEX TO SPECIAL INSTRUCTIONS	=
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GRO NORFOLK SOUTHERN HAZARDOUS MATERIALS **POSITION IN TRAIN**

HOW TO USE THIS CHART

CHART

TO DETERMINE WHERE A PLACARDED CAR CAN BE PLACED IN A TRAIN, FOLLOW THESE STEPS:

- DETERMINE THE TYPE OF PLACARDS APPLIED TO THE CAR
 DETERMINE THE TYPE OF CAR (TANK CAR OR OTHER RAIL CAR)
 FOLLOW VERTICALLY DOWN THE APPROPRIATE COLUMN OF THE
 CHART TAKING NOTE OF THE SYMBOL X, WHICH INDICATES A
 RESTRICTION.
 FOLLOW HORIZONTALLY ACROSS EACH ROW TO DETERMINE WHAT
 RESTRICTIONS ARE APPLICABLE. .



CARS WITH PLACARDS DISPLAYING 4-DIGIT IDENTIFICATION NUMBERS OR NON-BULK CONTAINERS DISPLAYING A PLACARD WITHOUT THE WORD DESCRIPTOR, WILL BE HANDLED THE SAME AS CARS WITH WORD DESCRIPTION PLACARDS.

GROUPS GROUP 6	
GROUPS	
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GROUP 4	OD O O O O O O O O O O O O O O O O O O
	ON GEN CONTRACT CONTR
GROUP 3	See Note (1)
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GROUP 2	Hazard Zone A Fig. Project See Note (3)
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COCCUPIED CABOOSE COCCUPIED CAB	9		ENDINE	X	X	×	×	×	×			
CAROUP 2: CLASS 7 (RADIOACTIVE) CROUP 3: CLASS 7 (RADIOACTIVE	4	- O]	OCCUPIED CABOOSE	×	X — See Note (2)	×	×	×	×			
LOADED FLAT CAR — EXCETE, CLOSED TO PECCECCE COUNTENT AND THE SECRETAL SECRETARIES. ANY PAIL CART TRANSPORT VEHICLE, ON THE SPECIALLY-EQUIPPED, CARS. ANY PAIL CART TRANSPORT VEHICLE, ON PRECIALLY-EQUIPPED, CARS. ANY PAIL CART TRANSPORT VEHICLE, ON PRECIAL PECULPPED, CARS. TURE CONTROL EQUIPMENT OR INTERNAL CONFIGURATION EVEHINE IN OPERATION GROUP 2: DIVISION 2.3 HAZARD ZONE A (POISON) CROUP 2: DIVISION 5.1 PG I HAZARD ZONE A (POISON) CROUP 2: CLASS 7 (RADIOACTIVE) ANY LOADED PLACARRDED CAR, OTHER THAN A CAR PLACARDED WITH THE SAME PLACARDED CAR, OTHER THAN A CAR PLACARDED WITH THE SAME PLACARDED CAR, OTHER THAN A CAR PLACARDED WITH THE SAME PLACARDED CAR, OTHER THAN A CAR PLACARDED WITH THE SAME PLACARDED CAR, OTHER THAN A CAR PLACARDED WITH THE SAME PLACARDED CAR, OTHER THAN A CAR PLACARDED WITH THE SAME PLACARDED CAR, OTHER THAN A CAR PLACARDED WITH THE SAME PLACARDED CAR, OTHER THAN A CAR PLACARDED WITH THE SAME PLACARDED CAR, OTHER THAN A CAR PLACARDED WITH THE SAME PLACARDED CAR, OTHER THAN A CAR PLACARDED WITH THE SAME PLACARDED CAR, OTHER THAN A CAR PLACARDED WITH THE SAME PLACARDED CAR, OTHER THAN A CAR PLACARDED WITH THE SAME PLACARDED CAR, OTHER THAN A CAR PLACARDED WITH THE SAME PLACARDED CAR, OTHER THAN A CAR PLACARDED WITH THE SAME PLACARDED CAR, OTHER THAN A CAR PLACARDED WITH THE SAME PLACARDED CAR, OTHER THAN A CAR PLACARDED WITH THE THAN A CAR PLACARDED WITH THE THAN A CAR PLACARDED WITH THE THAN A CAR PLACARDED WITH THE THAN A CAR PLACARDED WITH THE THAN A CAR PLACARDED WITH THE THAN A CAR PLACARDED WITH THE THAN A CAR PLACARDED WITH THE THAN A CAR PLACARDED WITH THE THAN A CAR PLACARDED WITH THE THAN A CAR PLACARDED WITH THE THAN A CAR PLACARDED WITH THE THAN A CAR PLACARDED WITH THE THAN A CAR PLACARDED WITH THE THAN A CAR PLACARDED WITH THE THAN A CAR PLACARDED WITH THE THAN A CAR PLACARDED WITH THE THAN A CAR PLACARDED WITH THAN A CAR PLACARDED WITH THAN A CAR PLACARDED WITH THAN A CAR PLACARDED WITH THAN A CAR PLACARDED WITH THAN A CAR PLACARDED WITH THAN A CAR PLACARDED WITH THAN	45		APQUES WHAN ANY LADING PROTRUDES BE (Includes bulk head fan card) BEYOND THE CAR ENDS	×	×			×				
ANY FAUL CAR TRANSPORT VEHICLE OR PREIGHT CONTAINER WITH TEMPERA. TURE CONTROL EQUIPMENT OR INTERNAL COMBUSTION ENGINE IN OPERATION GROUP 2: DIVISION 2.3 HAZARD ZONE A (POISON) GROUP 2: DIVISION 2.3 HAZARD ZONE A (POISON) GROUP 2: CLASS 7 (RADIOACTIVE) ANY LOADED PLACARDED CAR, OTHER THAN A CAR PLACARDED WITH THE SAME PLACARD. OR ANY CAR PLACARDED AS IN GROUP 5.01 MARKED AS IN GROUD 5. CLASS 7 (RADIOACTIVE) ANY LOADED PLACARDED CAR, OTHER THAN A CAR PLACARDED WITH THE SAME PLACARD. OR ANY CAR PLACARDED AS IN GROUP 5.01 MARKED AS IN	9		LOADED FLAT CAR— EXCEPT: CLOSED TOFC/COFC EQUIPMEN WITH TIE-DOWN DEVICES FOR HANDLING WITH TIE-DOWN DEVICES FOR HANDLING	X	×			×				
CROUP 2: DIVISION 1.1 OR 1.2 (CLASS A EXPLOSIVES) CROUP 2: DIVISION 2.3 HAZARD ZONE A (POISON) CROUP 2: DIVISION 6.1 PG I HAZARD ZONE A (POISON) CROUP 2: CLASS 7 (RADIOACTIVE) ANY LOADED PLACARDED CAR, OTHER THAN A CAR PLACARDED WITH THE ANY LOADED PLACARDED CAR, OTHER THAN A CAR PLACARDED WITH THE GROUP 6. CROUP 5. OR ANY CAR PLACARDED WITH THE ANY LOADED PLACARDED CAR, OTHER THAN A CAR PLACARDED WITH THE GROUP 6. CROUP 6. OR ANY CAR PLACARDED AS IN GROUP 5. OR MARKED AS IN				X	X			×				
GROUP 2: DIVISION 2.3 HAZARD ZONE A (POISON GAS) OR CROUP 2: DIVISION 6.1 PG 1 HAZARD ZONE A (POISON) CROUP 3: CLASS 7 (RADIOACTIVE) ANY LOADED PLACARDED CAR, OTHER THAN A CAR PLACARDED WITH THE SAME PLACARD: OR ANY CAR PLACARDED AS IN GROUP 5 OR MARKED AS IN	Ψ,				×	×	×	×		×		
GROUP 3: CLASS 7 (RADIOACTIVE) ANY LOADED PLACARDED CAR, OTHER THAN A CAR PLACARDED WITH THE SAME PLACARD: OR ANY CAR PLACARDED AS IN GROUP 5 OR MARKED AS IN	61		GROUP 2:	X			×	×		×		
ANY LOADED PLACARDED CAR, OTHER THAN A CAR PLACARD SAME PLACARD: OR ANY CAR PLACARDED AS IN GROUP 5 OR & GROUP 6.0 P. S. S. S. S. S. S. S. S. S. S. S. S. S.	7	W -	GROUP 3: CLASS 7 (RADIOACTIVE)	X	×	×		×		×		
	Ξ	긔	ANY LOADED PLACARDED CAR, OTHER THAN A CAR PLACARDED WITH THE SAME PLACARD. OR ANY CAR PLACARDED AS IN GROUP 5 OR MARKED AS IN GROUD 5.	X	×	×						

(1) ANY CAH PLACARDED AS IN GROUP 3, MAY NOT BE PLACED NEXT TO CARS CONTAINING UNDEVELOPED FILM. NOTES:



GROUP6

GROUP 4 GROUP 5

9188

DIVERN C

POSON

HAZARDOUS MATERIALS **SWITCHING CHART**

HOW TO USE THIS CHART

TO DETERMINE SWITCHING RESTRICTIONS FOR A PLACARDED CAR, FOLLOW THESE STEPS:

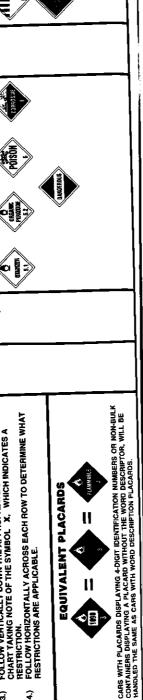
Hazard Zone A

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- DETERMINE THE TYPE OF PLACARDS APPLIED TO THE CARDETERMINE THE TYPE OF CAR (TANK CAR OR OTHER RAIL CAR)
 FOLLOW VERTICALLY DOWN THE APPROPRIATE COLUMN OF THE
 CHART TAKING NOTE OF THE SYMBOL X, WHICH INDICATES A
 RESTRICTION
 FOLLOW HORIZONTALLY ACROSS EACH ROW TO DETERMINE WHAT
 RESTRICTIONS ARE APPLICABLE.
 - 4

EQUIVALENT PLACARDS -⊀)

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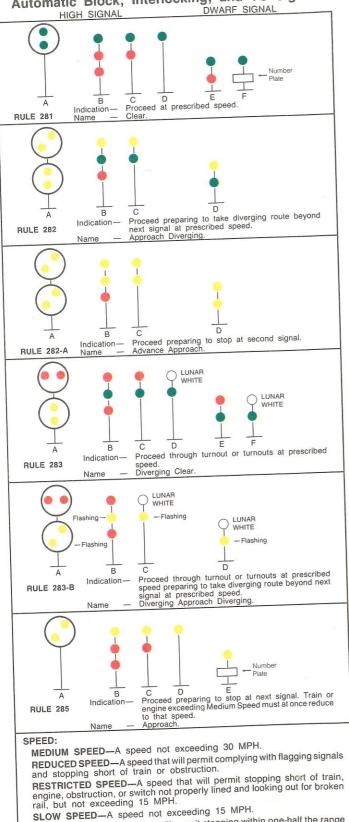


	RESTRICTIONS	Any	Any	Loaded Tank Car	Loaded Flat Car See Note (2)	Other Loaded Rail Car	Any Loaded Car	Any	Any
-	SHALL BE SEPARATED FROM ENGINE BY AT LEAST ONE NON. PLACARDED CAR OR BY AT LEAST ONE CAR PLACARDED/ MARKED IN ACCORDANCE WITH GROUP 5 OR GROUP 6 OF THIS CHART.	X							
N	SHALL NOT BE CUT OFF IN MOTION OR STRUCK BY A FREE ROLLING CAR.	×	×		×		×		
6	IF CAR CAN BE CUT OFF, CUT OFF IN NO MORE THAN TWO CAR CUTS AND NO MORE THAN TWO CAR CUTS TO COUPLE INTO SUCH CARS (REFER TO RESTRICTION 2).			×					
4	WHEN HAND BRAKES ARE USED, PRECEDING CAR MUST CLEAR LADDER BEFORE CAR IS CUT OFF AND CUT CONTAINING SUCH CAR MUST CLEAR LADDER BEFORE CUTTING OFF FOLLOWING CUT (REFER TO RESTRICTION 2).			×					
ro.	COUPLE INTO WITH NO MORE FORCE THAN NECESSARY TO MAKE COUPLING. "NOT MORE THAN FOUR";	×	×	×	×	×	×	×	×

NOTES: (1) ARAIL CAR PLACARDED AS IN GROUP! MUST NOT BE PLACED UNDER BRIDGES OR HIGH-WAYS, NOR ALONGSIDE A PASSENGER SHED OR STATION EXCEPT DURING TRANSFERS.

(2) RESTRICTIONS GOVERNMEN SWITCHING OF LOADED PLACARDED FLAT CARS INCLUDE THOSE CARRYING TRAILERS, CONTAINERS ANDOR INTERMEDIATE THAN CONSTITUENS (RESDUE) EMPTY INTERMEDIAL CONTAINERS ARE NOT CONSIDERED TO BE LOADS.

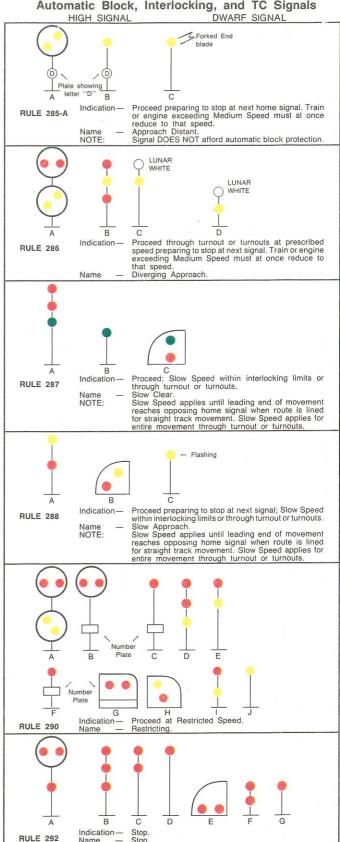
NORFOLK AND WESTERN
Automatic Block, Interlocking, and TC Signals



YARD SPEED—A speed that will permit stopping within one-half the range

of vision.

NORFOLK AND WESTERN Automatic Block, Interlocking, and TC Signals



RUNNING TIMES OF TRAINS, IN MINUTES — FOR INSPECTION CAR OPERATION ONLY INSTRUCTIONS — (1) Use MAXIMUM SPEED for kind of train (passenger or freight) unless line-up shows lower train speed (if limetable maximum speed is not listed below, use next higher MPH column). (2) Use MILES from train's last recorded (timetable or line-up) location to point where inspection car clears. (3) Read MPH column down to MILES throw train in minutes. Example — a train at 45 MPH going 11 miles uses 14 minutes. (4) Add running time to the train's time at last recorded to determine when the train is due at clearing point. CLEAR THIS TIME NOT LESS THAN TEN MINUTES. See Rule 824.

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