BROTHERHOOD OF LOCOMOTIVE ENGINEERS AND TRAINMEN

A DIVISION OF THE RAIL CONFERENCE INTERNATIONAL BROTHERHOOD OF TEAMSTERS

SAFETY TASK FORCE

INDEPENDENCE, OHIO

BEFORE THE NATIONAL TRANSPORTATION SAFETY BOARD NTSB Accident Number: DCA16FR008

Class: Regional June 28, 2016

Proposed findings, probable cause, and safety recommendations, in connection with the head-on collision, derailment, and subsequent fire of BNSF Railways Eastbound S-LACLPC1-26K and Westbound Q-CHISBD6-27L, on June 28, 2016 in Panhandle, Texas.

Stephen J. Bruno, BLET-Safety Task Force, National Chairman Erich M. Jeske, BLET-Safety Task Force, Party Spokesman

FINAL SUBMISSION

Accident Synopsis

On June 28, 2016, at 8:21 a.m. Central Daylight Time ("CDT"),¹ two (2) BNSF Railway trains collided head-on at milepost ("MP") 525.4 on the BNSF's Panhandle Subdivision. Each train was crewed by a Locomotive Engineer and a Conductor. The eastbound striking train (S-LACLPC1-26K) consisted of three (3) locomotives located on the front of their train, fifty-six (56) loaded intermodal platform rail cars², and two (2) distributive power units ("DPUs").³ The struck westbound train (Q-CHISBD6-27L) consisted of five (5) locomotives, all located on the front of their train, and fifty-four (54) loaded intermodal platform rail cars.

The signal and traffic control system was arranged to route the westbound train into the siding at the east control point ("CP") 5261 at MP 526.10. This routing would have had the striking train holding Main track No. 1 at CP 5261; however, the subsequent collision occurred approximately $\frac{1}{2}$ mile east, at MP 525.401. The collision and derailment fatally injured three (3) of the crew members, with the lone survivor being the Locomotive Engineer of the westbound train, who jumped from the moving train prior to impact. According to the National Weather Service at Amarillo International Airport, weather at the time leading up to the accident was 70° F, with visibility of ten (10) miles. Damages are estimated at \$16 million.

Train movements in this area are controlled by signal indications given by the centralized traffic control ("CTC") system.⁴ The signal system was functioning as intended, with the last signal indication displaying "Stop"⁵ for the striking train (S-LACLPC1-26). Eastbound train

¹ All times throughout this report will be Central Daylight Time ("CDT).

² Intermodal platform rail cars refers to types of cars in the intermodal cargo shipping industry. They may be single or multiple platform rail cars that can carry truck trailers, intermodal tanks and intermodal containers. These platforms range from single platform cars, three (3) platforms per car, and five (5) platforms per car, built to carry containers, truck-trailers, etc.

³ DPU refers to distributive locomotive units, generally located at the rear end of a train to assist with horsepower and/or control of buff/draft forces.

⁴ Centralized Traffic Control (CTC) is a method of establishing movment authority for trains to occupy tracks via signals which are controlled by a Train Dispatcher.

⁵ See Attachment A.

S-LACLPC1-26K passed the Stop signal at sixty-five (65) miles per hour ("MPH"). A positive train control ("PTC") system⁶ was originally scheduled to be operational in this area by the end of 2016.

Train Information:

The two (2) accident trains consisted of the following equipment:

Eastbound: S-LACLPC1-26-K had three (3) locomotives on the front of their train (BNSF 5162, BNSF 7838, BNSF 3967), fifty-six (56) loaded intermodal railcars which totaled 108 loaded platforms, and two (2) rear DPU locomotives. The train weighed 9,120 tons and was approximately 10,209 ft. long.

Westbound: Q-CHISBD-6-27L had five (5) locomotives all located on the front of their train (BNSF 5416, BNSF 7553, BNSF 7907, BNSF 8191, BNSF 5212), fifty-four (54) loaded intermodal railcars which totaled eighty-seven (87) loaded platforms. The train weighed 7,451 tons and was approximately 8,497 feet long.

The Accident:

On June 28, 2016, at 8:21 a.m., the eastbound loaded intermodal train (S-LACLPC1-26K) was operating on the BNSF Railway's Kansas Division, Panhandle Subdivision⁷. The train was traveling at sixty-five (65) MPH on Main Track No. 1 when it passed a signal displaying Stop at CP 5261, and collided head-on with the westbound train (Q-CHISDB6-27L), which was traveling at thirty-seven (37) MPH.

⁶ Positive Train Control (PTC) systems means an information transmission and enforcement system that communicates between signal system and the locomotive and is designed to prevent train to-train collisions, over-speed derailments, incursions into established work zone limits, and the movement of a train through a switch left in the wrong position by enforcing the signal authority through automatic activation of the locomotive's and train's braking systems. The National Transportation Safety Board (NTSB) has named PTC as one of its "most-wanted" initiatives for national transportation safety. *See* <u>https://www.fra.dot.gov/Page/P0564</u>.

⁷ See Attachment B.

Both train crews consisted of a Locomotive Engineer and a Conductor. The timetable maximum authorized speed ("MAS") on this section of track is seventy (70) MPH, provided that certain conditions of train makeup compliance are met. At the time and location of this accident there were no temporary speed restrictions on the track. The force of the collision ruptured the fuel tanks on the locomotives, causing a fire. This collision and subsequent fire caused the fatal injuries of three (3) crew members.

Post-accident mechanical investigation revealed that the eastbound train's lead three (3) locomotives and first (1^{st}) through ninth (9^{th}) cars derailed, as well as the twenty-first (21^{st}) car. The westbound train's five (5) locomotives derailed, as well as the first three (3) cars.

The wreckage blocked Main Track No. 2 and caused a track occupied indication. The BNSF Train Dispatcher saw the indication of the eastbound train pass the Stop signal on Main Track No.1 and the subsequent track indication caused by the debris field on Main Track No. 2, on his screen. Due to the magnitude of the forces exerted in this collision, the frames of both lead locomotives were the only intact components remaining.



Photo above courtesy of The Federal Bureau of Investigations (FBI) aerial photos. The bottom of the photo is direction east and the top is direction west; these directions also correlate to timetable direction of travel.

Interviews:

The lone surviving crew member — the Locomotive Engineer of the westbound train S-CHISBD6-27L — told investigators that he had an uneventful trip prior to the collision and derailment. At one point on the approach to the Panhandle area, the BNSF Train Dispatcher informed the crew via radio of the meet at Panhandle with the eastbound train. As they approached the town of Panhandle, the Locomotive Engineer noted that he thought the eastbound train had passed a road crossing he knew to be to the west of CP 5261 that would take them to the siding. Once he determined the eastbound had passed this point, he realized they were going to have a head-on collision since they were traveling too fast to get stopped. He stated that he ran for the back door and the Conductor was behind him. He recalled seeing the Conductor behind him as he jumped from the train. After the collision, he escaped to the north side of the wreckage, where he received medical attention and subsequent transportation to Amarillo, TX for treatment of injuries. The BNSF Train Dispatcher was interviewed via telephone and gave his account of the events. His statements supported the recollection of the lone surviving crew member's testimony. Interviews also were conducted with several eyewitnesses from the area, all of whom shared the same details and depiction of the events.

Human Performance:

Event recorder data was obtained from the trailing units of each trains event recorders that survived. The data was collected eastbound striking trains locomotives BNSF 3967, BNSF 8234 (DPU), and the BNSF 3970 (DPU). Data was collected from the westbound trains' locomotives BNSF 7553, BNSF 7907, BNSF 8191, and BNSF 5212. The investigation of signal functionality and signal event recorder data compared to the train event recorder data establishes that the crew members of train S-LACLPC1-26K failed to properly react to three (3) signals prior to the collision. The evidence and investigation establish that the failure of both operating crew members on eastbound BNSF train S-LACLPC1-26K to react appropriately to signal indications in the field was the primary cause of this accident. The reason why both crew members did not react to the signal indications is unclear. However, we suggest that there are only two (2) possible explanations;

- Both crew members deliberately ignored three (3) separate signal indications. The last one being a signal to stop and neither of them reacted at all to the imminent collision. We believe that is extremely implausible even inconceivable.
- Both crew members were somehow incapacitated and unable to react to the signals. We believe this is the most likely explanation, however, we find no conclusive evidence as to how they became incapacitated.

Identifying the root cause of train accidents and implementing changes to enhance safety is essential to preventing similar accidents in the future. In this case the investigation has not been able to determine what prevented the crew from reacting to the three consecutive signals.

Operations:

After examining the operating practices in the area leading up to, and at the area of the collision,

the BLET finds that the following issues were causal factors in this incident. The ineffective use of existing technology allowed the accident to occur. Existing technology such as a train control or speed control systems installed in the infrastructure and the controlling locomotive would have mitigated the damage and injuries and may have prevented the collision. Wayside signal systems convey information to the operating crew including the condition of the track ahead and restrictions on the MAS for the train. Train control and speed control systems are systems that integrate the wayside signal system to the locomotives and can enforce compliance through activation of the train's brakes.

Crew fatigue may have been a contributing factor as well. Despite the fact that they had been off duty prior to the assignment in compliance with the Hours of Service requirements, it is unclear what amount of sleep the crew of the eastbound train had when the received their call for duty and reported for their assignment. The unpredictable nature of assignments in the freight railroad industry can render employees who have been awake for hours unprepared to complete their assignment without being effected by fatigue. The industry's disciplinary based attendance policies chill the employees' willingness to decline assignments when they may not be fatigued at the reporting time but could be fatigued before the end of their assignment. The combination of the two factors continues to be an obvious yet unresolved contributor to the fatigue of operating employees and potential for incapacitation.

Because the morning sunlight was directly in the field of vision of the crew of the eastbound train, the time of day the accident occurred may have exacerbated any fatigue experienced by the crew. **Mechanical:**

The National Transportation Safety Board ("NTSB"), Federal Railroad Administration ("FRA"), and BNSF performed a post-accident mechanical inspection and brake test on the rolling stock of both trains. The report on the mechanical condition of the both trains indicated that they were in compliance, with no exceptions. The post-accident inspection of the lead locomotives on train S-LACLPC1-26K (BNSF 5162) and Q-CHISBD6-27L (BNSF 5416) could not establish that the cab crashworthiness protections performed as intended, and furnished a survivable environment for the crew. Both locomotives were destroyed with only the frames remaining intact. The evidence

establishes that the structural crashworthiness of the cab compartment was insufficient to protect the crews from the forces of this collision and thus a possible contributing factor to the fatalities in this incident.

Signal System:

A post-accident testing and examination from the downloaded event recorder of the signal system establishes that all signal system components performed as designed and intended. As previously noted, however, the rudimentary nature of this basic signal system provides virtually no redundant safety capabilities and thus was a contributing factor in this accident. Readily available technology, such as train control or speed control systems installed in the infrastructure and the controlling locomotive, would have mitigated the damage and injuries and may have prevented this collision. A PTC system overlaid on the existing wayside signal system would have prevented this collision.

Track:

A post-accident examination of the track system leading up to, and including the area of the incident, indicates that it performed as designed. We conclude that track was not a contributing or a causal factor in this incident.

PROBABLE CAUSE

The Brotherhood of Locomotive Engineers and Trainmen ("BLET") finds that the probable cause of this accident was the failure of the eastbound train (S-LACLPC1-26K) to stop at a signal displaying a Stop indication at CP 5261. This failure subsequently resulted in a head-on collision, which fatally injured three (3) crew members on two (2) trains. The lack of an operating and proven effective PTC system at the location of the collision played a direct causal role. Due to nearby track construction at the time, the PTC system had not been activated. With a functioning PTC system in place, this system would have provided an extra layer of protection that would have safely stopped not one, but both trains. Crew fatigue may have been a contributing factor as well — given the time of day the accident occurred — and may have been exacerbated by morning sunlight directly in the field of vision of the crew of the eastbound train.

PROPOSED RECOMMENDATIONS

TO BNSF RAILWAY:

 Immediately implement management standards that require the train line ups to be accurate to within ten (10) minutes. As with all fatigue mitigation elements, accurate information is key to optimizing rest opportunities. If an employee cannot reasonably predict when they are going on duty, there is no way they can obtain sufficient restorative sleep prior to reporting on duty.

TO THE ASSOCIATION OF AMERICAN RAILROADS ("AAR"):

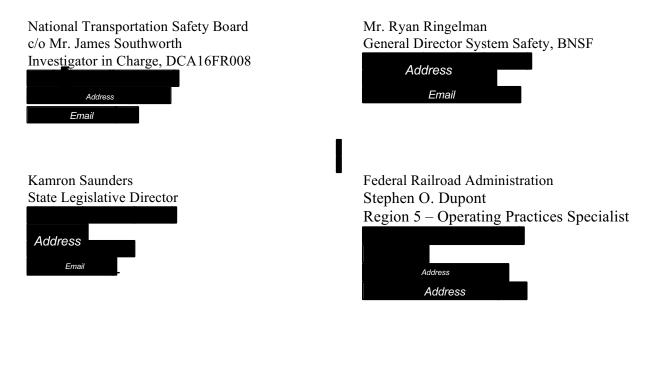
 Immediately implement an AAR operational standard that requires train line ups to be accurate to within ten (10) minutes. As with all fatigue mitigation elements, accurate information is key to optimizing rest opportunities. If an employee cannot reasonably predict when they are going on duty, there is no way they can obtain sufficient restorative sleep prior to reporting on duty.

TO THE FEDERAL RAILROAD ADMINISTRATION ("FRA"):

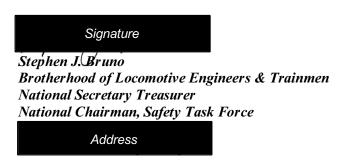
- Immediately publish regulations requiring railroads to provide train line ups that are accurate to within ten (10) minutes of anticipated operation time of that train. As with all fatigue mitigation elements, accurate information is key to optimizing rest opportunities. If an employee cannot reasonably predict when they are going on duty, there is no way they can obtain sufficient restorative sleep prior to reporting on duty.
- 2. Establish post accident investigatory procedures designed to determine the root cause of train accidents.

CERTIFICATE OF SERVICE

I certify that on May 26, 2017 I have electronically s e r v e d u p o n Mr. James Southworth Email (), Investigator in Charge, National Transportation Safety Board, a complete and accurate copy of these proposed findings regarding the June 28, 2016, head-on collision, derailment, and subsequent fire of BNSF intermodal trains S-LACLPC1-26K and Q-CHISBD-6-27L in Panhandle, Texas (NTSB Docket No. DCA-16-FR-008). An electronic copy of same was also forwarded to the individuals listed below in this certificate of service, as required by 49 CFR § 845.27 (Proposed Findings).



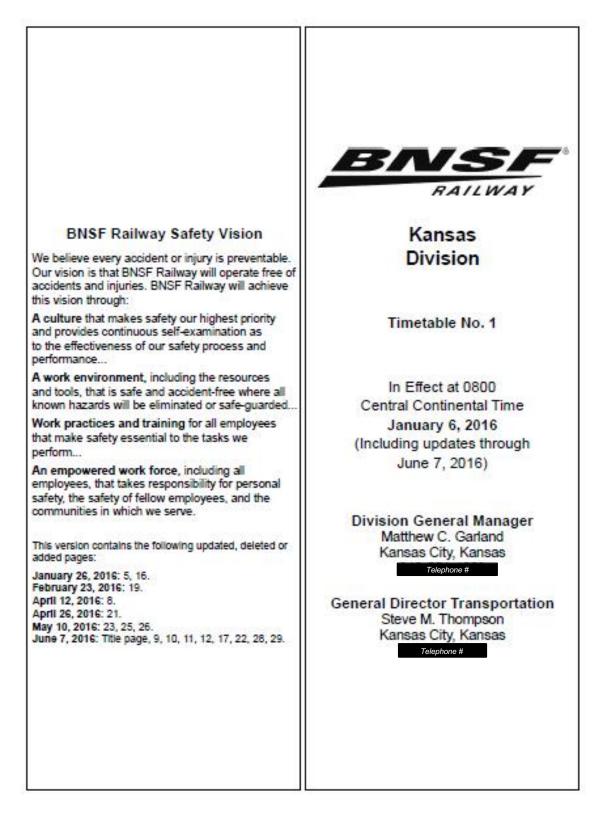
Sincerely yours,



	BNSF Railway — SIGNA	LASP	PECTSA	ND INDICATIONS
	All signals are subject to modification ind	ficated unde	r individual subd	Ivision special instructions.
sign is d	is shown in Rules 9.1.3 through 9.1.8 may be displayed with isplayed, if train is delayed per Rule 9.9 and Rule 9.9.1 betw bsolute signals at automatic awtiches, outside of block syste	reen a dista m limita, con	n the signal mas nt signal and the avey main back o	next signal, proceed prepared to stop short of the nex distant signal information for the other and of the sidn
	BLOCK AND IN Aspects shown in Rules 9.1.3 through 9.1.8 and 9.1.13 mil	1000		STOCK STREET
Rule	Aspects of Color Light and Semaphore Signals	Cab Signal Aspects	Name	Indication
9.1.3	ſ₣₣₣₣₣		CLEAR	Proceed.
9.1.4	r L		APPROACH	Proceed prepared to pass next signal not esceeding 60 MPH and be prepared to enter diverging route at prescribed speed.
9,1,5	Ĩ Ē Ē		ADVANCE APPROACH	Proceed prepared to pass next signal not esceeding 50 MPH and be prepared to enter diverging route at prescribed speed.
9.1.8	Ĩ ₽₽₽₽ ₽₽₽₽₽₽₽₽		MEDIUM	Proceed prepared to pass next signal not exceeding 40 MPH and be prepared to enter diverging route at prescribed speed.
9.1.7	<u>₽</u> ₽₽₽₽	\ominus	APPROACH	Proceed prepared to pass next signal at restricted speed.
9.1.8	<u>ſ₽₽₽₽₽₽₽</u>	\bigcirc	APPROACH	Proceed prepared to stop at next signal. Trains exceeding 30 MPH immediately reduce to that speed (Note: Speed is 40 MPH for Antrak and Commuter Inste).
9.1.9			DIVERGING	Proceed on diverging route not exceeding prescribe speed through turnout.
1.1.10			DIVERGING APPROACH DIVERGING	Proceed on diverging route not exceeding prescribe speed through turnout prepared to advance on diverging route at the next signal not exceeding prescribed speed through turnout.
k1.11			DIVERGING APPROACH MEDIUM	Proceed on diverging route not exceeding preacribe speed through turnout prepared to pass next signal not exceeding 35 MPH.
8.1.12		\ominus	DIVERGING APPROACH	Proceed on diverging route not exceeding preacribed apeed through turnout, approach next signal prepared to stop. Trains exceeding 30 MPH immediately reduce to that speed. (Note: Speed is 40 MPH for Antrek and Commuter trains.)
÷		•	RESTRICTING	Proceed at restricted speed.
1.1.14 N	lot used (Reserved for PTC tabling purposes only)			

ATTACHMENT A

ATTACHMENT B



Leigh			Panhandle Subdivision				Him.	14	Length				handle				,
at Sang Feet	Station Nos.	Min	MAIN LINE STATIONS	Rule 43	of Coer	Line	D Held	1-54	di Siding (Feet)	Station Nos	ide Ref	MAI	N LINE	Ria 43	d Cper	U/e	
Cont.		1.00	Adjoining Suit: Emports		-		-	A 0	1.440		500.0		TRAMPA	XCD	-		T
1	54000	238.0	WELLINGTON	80.0	1 3		0.5	6 I		1000	505.5		GS MILL			1.15	t
2 - 0	24000	1000	A4 88 840 88 2383		-			2	- 3		510.2	0	P 5153	X(2)			t
		236.5	CP 2385	TX	•		5.0	10			523.2		P 6232	8(2)	1		t
<u>8 8</u>	54598	243.5	ROLAND	X(2)	4		8.3	3	13,560	53630	525.0		HANDLE	л	2 MT	7100	t
		251.0	HERTOG	X(2)	4		2.3	8	10,000	200015	1000	A4.88.9	NR, HP 238.1		100	13	÷
8,450	54584	254.1	MLAN		4		10.1				521.4		P 52H4	X(2)			Ľ
	54582	254.2	ARGONIA	X(2)	-		2.3				535.2		DERTS	X(2)		1	ł
6,903	54580	296.5	DANVILLE	1 8			4.5	8	- 8	\$3501	580.5		STERN B+ Dig P+ Dv	100			3
	54500	271.3	HARPER	X(2)	ста		12.0	8 8	2	0-3	0	Adjoinin	flab: Hereford	8	49-1	16—34	6-
2	54490	283.3	BALA	X(2)	2MT		2.5	L L C	_			8	adio Cali-in				=
7,700	54220	205.0	ATTICA ALER VELICE 2010	4			5.9	i F		Radi	o Chan	nel 084 in	service Wei	lington '	Yard - 2	1(X)	_
		291.7	EAST CRISPIELD]		2.5		-			-	ek Treinmas		_		_
10,500	54190	292.2	CRISFIELD	1.8			1.8	8 H-		_	_		n service We		_		
223		294.0	WEST CRISPIELD	X(2)	1		8.8	8 I 4	Send Cre		- 21(X)		Harper - 22	121	~	108 - 22	(A)
		302.6	BARDER	X(2)	1		12.0			Alva - 1			Waynoka - 1	4(X)			_
1.13	54084	254.0	LODER	X(2)	1		47	S I E		R	dio Ch	annel 036	in service H	leman to	Rober	5	
11,400	54075	319.5	BRINK				2.2	014		Alva - 2		8	Curtis - 25			gier - 3	
200		222.0	ADA	8-3	-		27	8 I F		_	- 3200	0630-143	Canadian - 3	M(X)	M	ini - 2	800
		226.5	BAST NOEL	1	erre		47					5 - 1400		A	marillo	13(20)	
10,998	54064	230.2	NOEL	X(2)	1		52				cent D6		0	Boise C	ity Dap	stcher -	43
		335.4	EAST AIARD A& But Aveil, Sp Dx #P 330.6	1	1		5.5	ĩ l E		4 001	_	DS - 41(X Channel	064 in servic	a Parara	Vard	_	_
5-3	54080	235.9	AUARD	1	1		0.5		-	Ra			in service R		_	m	-
		206.4	Ag. Bolo Avani, Bar Div IBP 308.0 WEST AVARD	8(2)	1		5.8			_	francia -				merillo	_	5
- 77	\square	342.2	EAST WAYNERA	X(2)	1		3.5	8 I E	2		1.5 6 1.	Ener	gency - Call 1	911		. Oak	
5 10	54000	345.2	WATNERA	100	1	7100	60	818	Dis				al Desk X+2,				ю,
- 17	53950	351.2	HEMAN	X(2)	1		5.8	티듬	_	Range	ac Pos		efector Desi	_	IC Des	1.748	_
	53945	356.6	BELIA	X(2)	1		12.1						ile PBX Acce				
	53905	390.9	CURITS	X(2)	1		10.0		is 503-7			el tara, P	THER SCORES	COOM, WH	a ror dia	a sone,	100
- 5	53900	279.7	WOODWARD	X(2)	1		6.0	2 1	o Disco	anect:	Press i				10		
7,190	53850	300.3	GERLACH	A(4)	1		45		_		-		Mobile			Aco	895
7,180	53635	290.0	TANGER	Kim.	1		75		Velingto		-	Tx Ch 09	*	Ra Ch 048	-		
				X(2)				10 I H	Cows			Ch 09	_	Ch 015			÷
7,785	53625	401.5	PARGO OLETA	X(2)			82	6 I H	Waynoka	2		Ch 02		Ch 068			
2.000	1. Sec. 10			A(A)	CTO 2 MT			C 1	langier			Ch 09		Ch 009		- 3	
7,683	63615	400.7	GAGE	1000			2.8	62 L H	liggina			ChOS		Ch 010			_
- 3	53800	410.5	SHAFTUCK	10(\$2)	-		7.2	6 I F	Alemi			Ch 07	_	Ch 021	-		
3 - 33	53765	417.8	GOODWIN	X(2)	-		10.5	C E	amps martio		-	Ch 09 Ch 09	_	Ch 015 Ch 010	-		
_	53780	428.3	CP 4383	X(2)	1		10.1		ispatch	or led	lormati		_	un unu		-	-
2.23	53755	438.4	CORLIRN	X(2)	-		5.7						-7005, Fax	913-55	1-240	5	
10,910	53750	466.1	GLADER	5 3	1		2.8	S 15	onday-								
_		440.7	CLEAR CREEK	X(2)	1		11.9						87-7006, F	ax 913-	651-24	06	
2	52740	450.6	CANADIAN	X60	-		4.8						867-7101, F				
11,017	53735	453.5	MENDOTA	9-9	4		6.2	N	londay-	Friday	1430-4	0630 and	all times w	eekend	5		
2 6	53730	459.7	LORA	X(2)	1		7.2	H	eman to	Rob	erts - 8	17-867-7	006, Fax 91	3-551-3	2406		
11,723	52725	476.9	MIAM				45	R	oberts 1	o Eas	tern - 8	17-867-1	1028, Fax 9	13-551-	2428		
1 2	83720	401.4	CODMAN	X(2)			12.6	2									
		494.0	CP 4940	X(2)			3.3										
		497.3	OP 4973	x	1		1.4										

Kansas Div-No. 1-January 6, 2016-Panhandle Sub (Updated 6/7/16)

29

TOC Home Speed Regulations 1.

See Item 1 of the System Special Instructions for additional speed restrictions.

1(A). Speed-Maximum

		ht .
Main Track	100 108	100 TDB & Over
MP 238.0 to MP 550.5	58"	567
* Unless otherwise restricted, the maximum speed for field.	of Imain	a la 20

MPH provided:

1. Their does not contain empty car(s). Refer to Rem 1(C) of the System Special instructions for determining speed for multiplatform, intermodal equipment.

2. Thein does not exceed 8,500 feet, Exceptions:

a. Trains operating with distributed power equipment with remote DP sutomatic brake valve cut in may operate at 70 MPH up to 10,000 feet in lergin.

- b. Trains operating with two distributed power remote consists and both DP remote automatic brake valve(a) out in may operate at 70
- MPH up to 12,000 test in length. 3. Train does not svenage more than 80 TOS. Exceptions Trains consisting entirely of intermodal equipment (all equipment listed under BNSF Timetable, System Special Instruction 1C), including equipment designed to carry automobiles/bucks (auto
 - racks), must not average more than 90 tons per operative brake. b. Theirs consisting entirely of double stack and spine car equipment. (cer kind codes beginning QU, QK, QV, QW, QT, QX, QY, QM, QC, QO, Q5, QE) must not average more than 105 TOB. In addition, the intermodal trains described above may also handle as
- many as 15 refigerated box cars identified as "Super Reefers" (BNSF 793110 thru BNSF 794112) provided train does not exceed 90 TOB. 4. Engineer can control speed to 70 MPH without use of air brake

(If unable to control speed to 70 MPH on long descending grades, two additional attempts are allowed to control speed with dynamic brake at alower speeds before speed must be reduced to 55 MPH while regoliating descending grade.)

See ABTH 103.2.1 Dynamic Brake Limitations, regarding when 32 axies of dynamic brakes may be used on lead consist.

1(8). Speed-Permanent Restrictions

	PIT
MP 238.0 to MP 239.7	60
MP 273.0 to MP 274.8, MT1	60
MP 3223.5 to MP 328.0	55
MP 343.6 to MP 344.0	60
MP 379.0 to MP 379.3, MT2	65
MP 382.9 to MP 384.1	50
MP 385.4 to MP 389.9	- 50
MP 445.7 to MP 450.1	65
MP 460.7 to MP 461.2	60
MP 464.815 MP 465.1, MT2	60
MP 476.3 to MP 477.8, MT2	60
MP 477.8 to MP 480.9, MT2	65

Key Trains

Maximum speed within the following municipal area limits unless otherwise restricted: MP 543.0 to MP 660.5

1(C). Speed-Sidings and Main Track Switches and Turnouts Trains and engines must not exceed 10 MPH through turnouts unless otherwise indicated. Trains and engines using sidings must not exceed siding turnout speed unless otherwise indicated.

		£.,
	100 TDB	TDB Dive
MP 238.5, CP 2385, crossover	30	30
MP 243.5, Roland, crossovers	50	50
MP 251.8, Hiertog, crossovers	50	50
MP 254.5, Milan, elding tumoute	40	40
MP 264.2, Argonia, crossovers	50	50
MP 266.5, Derville, siding turnouts	40	40
MP 271.3, Harper, crossovers	50	50
	50	50
MP 253.3, Eule, crossovere	-	_
MP 285.8, Adice, siding turnoute	40	-40
MP 292.2, Crisfield, siding turnouts	40	40
MP 294.0, West Cristleid, crossovers	50	50
MP 302.8, Barber, crosedvers	50	50
MP 314.8, Loder, crossovers	50	50
MP 319.5, Brink, siding turnouts	40	40
MP 322.B, Alve, turnout	50	50
MP 325 5, East Noel, turnout	50	50
MP 330.2, Noel, crossovers	50	50
MP 335.5, East Averd, Averd sub turnout	15	15
MP 335.9, Avend, Avend Sub furnout	20	20
MP 336.5, West Averd, crossovers	50	-50
MP 342.2, East Waynolas, crossovers	50	50
MP 351.2, Heman, crossovers	60	50
MP 356.6, Belva, crossovers	50	50
	50	50
MP 368.9, Curtis, crossovers MP 379.7, Woodward, crossovers	50	50
	-	-
MP 386.3, Gerlach, siding turnouts	40	40
MP 390.8, Tangler, crossovers	50	50
MP 398.3, Fargo, siding turnouts	40	40
MP 401.5, Oleta, crossovers	50	- 50
MP 4067, Gege, siding turnouts	40	40
MP 410.5, Shattuck, crossovers	50	50
MP 417.8, Goodwin, crossovers	50	50
MP 428.3, CP 4263, crossovers	50	- 50
MP 438.4, Coburn, proseovers	60	80
MP 444.1, Giazier, skiing turnouts	40	40
MP 448.7, Clear Creek, crossovers	50	50
MP 458.6, Canadian, crossovers	50	50
MP 483.5, Mendola, aiding tumouta	40	40
MP 489.7, Lons, crossovers	50	-50
MP 476.9, Miemi, siding turnouts	40	40
MP 481.4, Codman, crossovers	50	50
MP 404.0, CP 4040, crossovers	50	50
MP 497.3, CP 4973, crossover	50	50
MP 498 7, Pempe, skiling tumouts	30	30
MP 500.8, West Pampa, proservera	40	40
		-
MP 510.3, CP 5103, croxecvers	50	50
MP 523.2, CP 5232, crossovers	50	50
MP 526.0, Panhendle, siding turnoute	40	40
MP 531.4, CP 5314, crossovers	50	50
MP 538.2, Roberts, crossovers	50	50
MP 550.6, Eastern, turnout to east leg of the wye	20	20
MP 550 5, Eastern, crossover	30	3
MP 550.5, Eastern, crossover, WWD, HER	20	20

Con L

35

	unless of	a engines n					
		herwise indi-		xceed 10 MPH t ins and engines		Sector Contractor	23.0
	exceed 1			main track (GC)			33.2
	otherwise	indicated					39.3
		nd Equipme n Gross We		ht Restrictions		36	64.5
				143	ton Restricts	38 38	
	0.000				820. (C. 1997)		_
	Location	ocomotives	ck Name	and the second second	Track No.	38	
	Ahs	ocomotives	are not pe	maded on.			MT2
1	Celanese	Kin	ge Mil		6530	36	67.
	TSTC Tre	cka			1412, 1427	37.	
	Only one	four-antie los	comotive b	a permitted on:		307	-
	ANs	Old	Rock leise	d Yard		38	-
	Type of C	peration				322	
						300	-
	Main Trac MP 238.0	to MP 322.8		CTC, 2 MT		398	_
1		to MP 325.5	0	CTC		400	-
1		to MP 550.5	3	CTC, 2 MT		400	W.
	Street in	St. 1. 7. 36	-	28532.52		412	-
	Subdivis	ion Specific	c Rules I	nformation		418	-
		verlay Syst				42	-
		Limbs Con	npliance 8	System (HLCS)		42	
	 Hy-Rai 	Parista Care					
	GCOR/M	WOR 1.14	-Yard Lim	its is in effect be		43	ALC: N
	GCOR/M and MP 3	WOR 1.14	-Yard Lim	its is in effect be lington and betw	veen MP 0.0	430 430 M	XT2
	GCOR/M and MP 3 and MP 7	WOR 1.14 .0 on the Bi .0 on the Pt	-Yard Lim NG at We NR at Par	its is in effect by lington and betw handle. Within t	veen MP 0.0 hese limits tr	430 Minack 432	VTC 30. VTC 33.
	GCOR/M and MP 3 and MP 7 warrants	WOR 1.14 0 on the Bi 0 on the Pt and track by	-Yard Lin NG at We NR at Par Jetins an	its is in effect b lington and betw handle. Within t a not required for	veen MP 0.0 hese limits tr r BNSF train	0 433 M ack 433 6. 438	VTC 30 VTC 33 38
	GCOR/M and MP 3 and MP 7 warrants Within the	WOR 1.14 0 on the Br 0 on the Pt and track be see limits Br	-Yard Lim NG at We NR at Par uletins an NSF traine	its is in effect by lington and betw handle. Within t a not required fo i must not exceed	veen MP 0.0 hese limits tr r BNSF train id 10 MPH.	0 433 M 6 432 6 433 445	VT2 30, VT2 33, 33, 33, 42,
	GCOR/M and MP 3 and MP 7 warrants Within the	WOR 1.14 0 on the Br 0 on the Pt and track be see limits Br	-Yard Lim NG at We NR at Par uletins an NSF traine	its is in effect b lington and betw handle. Within t a not required for	veen MP 0.0 hese limits tr r BNSF train id 10 MPH.	0 430 Nack 432 6 438 446 446	ATC 30 ATC 30 ATC 30 ATC
	GCOR/M and MP 3 and MP 7 warrants Within the GCOR/M miles.	WOR 1.14 0 on the Bi 0 on the Pi and track bi me limits Bi WOR 6.19-	-Yard Lim NG at We NR at Par Jiletins an NSF trains	its is in effect by lington and beh handle. Within t e not required fo must not exceed quired flagging of	veen MP 0.0 hese limits tr r BNSF train id 10 MPH.	0 433 M 6 432 6 433 445	40 30 40 33 30 42 46 51
	GCOR/M and MP 3 and MP 7 warrants Within the GCOR/M miles. Trackside	WOR 1.14 .0 on the Bi .0 on the Pi and track by se limits Bi WOR 6.19- a Warning I	-Yard Lim NG at We NR at Par Jiletins an VSF trains -When re Devices (its is in effect by lington and beh handle. Within t e not required fo must not exceed quired flagging o TWD)	veen MP 0.0 hese limits tr r BNSF train nd 10 MPH. distance is 2	0 433 Nack 433 6. 433 440 449	VTC 30 VTC 30 30 42 46 51. 56
	GCOR/M and MP 3 and MP 7 warrants Within the GCOR/M miles Trackside See Sys	WOR 1.14 0 on the Bi 0 on the Pi and track by see limits Bi WOR 6.19 e Warning I tem Special	-Yard Lim NG at We NR at Par Jietins an VSF trains -When re Devices (its is in effect by lington and betwith handle. Within t e not required for in must not exceed quired flagging of TWD) one for additional	veen MP 0.0 hese limits tr r BNSF train nd 10 MPH. distance is 2	0 433 Wack 433 8 443 444 445 445 445 445 445 445 445 445	VT: 30 VT: 33 38 42 45 51. 56 56 56 56 56
	GCOR/M and MP 3 and MP 7 warrants Within the GCOR/M miles Trackside See Sys	WOR 1.14 .0 on the Bi .0 on the Pi and track by se limits Bi WOR 6.19- a Warning I	-Yard Lim NG at We NR at Par Jietins an VSF trains -When re Devices (its is in effect by lington and betwith handle. Within t e not required for in must not exceed quired flagging of TWD) one for additional	veen MP 0.0 hese limits tr r BNSF train nd 10 MPH. distance is 2	0 433 Williams 433 8 442 444 444 444 444 444 444 444 444 444	VTC 30 VTC 33 38 42 46 51 55 56 56 56 56
	GCOR/M and MP 3 and MP 7 warrants Within the GCOR/M miles Trackside See Sys	WOR 1.14 0 on the Bi 0 on the Pi and track by the limits Bi WOR 6.19- e Warning I tem Special Device (TW	-Yard Lim NG at We NG at We Jetins an VSF trains -When re Devices (Linetruction (D) Inform Recall	its is in effect by lington and betwithin to in the within to in must not exceed quired flagging of TWD) this for additional tation	veen MP 0.0 hese limits tr r BNSF train nd 10 MPH. distance is 2	0 433 William 433 a 433 446 448 448 448 448 448 448 448 448 448	VTC 30 VTC 33 38 42 46 51 56 56 56 56 56 56 56 56 56 56 56 56 56
	GCORIM and MP 3 and MP 7 warrants Within the GCORIM miles. Trackaide See Syst Warning Mile Post	WOR 1.14 0 on the Bi 0 on the Pi and track by the limits Bi WOR 6.19- e Warning I tem Special Device (TW Device	-Yard Lim NG at We NR at Par Jietins an VSF trains -When re Devices (I Instruction /D) inform Recall Code	its is in effect by lington and betwith handle. Within t e not required to in must not exceed quired flagging of TWD) me for additional lation	veen MP 0.0 hese limits tr r BNSF train id 10 MPH. distance is 2 I Trackside	0 433 9 ck 433 8 438 440 440 440 440 440 440 440 44	400 30 30 30 42 46 51 56 56 56 73 79
	GCORIM and MP 3 and MP 7 warrants Within the GCORIM miles Trackaide See Syst Warning Mile Post Type A, L	WOR 1.14 0 on the Bi 0 on the Pi and track by the limits Bi WOR 6.19- e Warning I tem Special Device (TW Device	-Yard Lim NG at We NR at Par Jietins an VSF trains -When re Devices (Instruction (D) inform Recall Code Recting Br	its is in effect by lington and betwith handle. Within t e not required for must not exceed quired flagging of TWD) me for additional ation	veen MP 0.0 hese limits tr r BNSF train id 10 MPH. distance is 2 I Trackside	0 433 ack 433 6 438 448 459 459 459 459 459 459 459 459	411 30 417 30 30 42 46 51 56 56 56 73 70 56 56 56 73
	GCORUM and MP 3 and MP 7 warrants Within the GCORUM miles. Tracksidd See Syst Warning Mile Post Type A. L 445.9	WOR 1.14 0 on the Bi 0 on the Pi and track by the limits Bi WOR 6.19- e Warning I tem Special Device (TW Device	-Yard Lim NG at We NR at Par Jietins an VSF trains -When re Devices (Instruction /D) inform Recall Code secting Br	its is in effect by lington and bely shandle. Within t e not required for must not excee quired flagging of TWD) one for additional tation Notes tiggs, Tunnels of WWD	veen MP 0.0 hese limits tr r BNSF train id 10 MPH. distance is 2 I Trackside	0 433 9 ck 433 8 438 440 440 440 440 440 440 440 44	4173 300 4173 303 4173 303 412 445 51 515 516 516 516 516 5173 70 50 517 517 517 517 517 517 517 517 517 517
	GCORIM and MP 3 and MP 7 warrants Within the GCORIM miles. Tracksidd See Sys Warning Mile Post Type A. L 485.8	WOR 1.14 .0 on the Bi .0 on the Pi and track be see limits Bi WOR 6.19- a Warning I tem Special Device (TW Device and the special Device and the special Device and the special Device and the special Device and the special	-Yard Lim NG at We NR at Par Jietins an VSF trains -When re Devices (Instruction (D) inform Recall Code Recting Br	its is in effect by lington and betwith handle. Within t e not required for must not exceed quired flagging of TWD) me for additional ation	veen MP 0.0 hese limits tr r BNSF train id 10 MPH. distance is 2 I Trackside	0 433 ack 433 6 433 444 451 455 455 455 455 455 455	417. 30.47. 33.38.42.46. 51.58.58.59. 59.59.59.59.59.59.59.59.59.59.59.59.59.5
	GCORUM and MP 3 and MP 7 warrants Within the GCORUM miles. Tracksidd See Syst Warning Mile Post Type A. L 445.9	WOR 1.14 .0 on the Bi .0 on the Pi and track be see limits Bi WOR 6.19- a Warning I tem Special Device (TW Device and the special Device and the special Device and the special Device and the special Device and the special	-Yard Lim NG at We NR at Par Jietins an VSF trains -When re Devices (Instruction /D) inform Recall Code secting Br	its is in effect by lington and bely shandle. Within t e not required for must not excee quired flagging of TWD) one for additional tation Notes tiggs, Tunnels of WWD	veen MP 0.0 hese limits tr r BNSF train id 10 MPH. distance is 2 l Trackside	0 433 9 ck 433 8 438 440 440 440 450 450 450 450 450	413 30 42 42 45 51 56 56 56 56 57 57 56 57 57 56 57 57 56 57 57 56 57 57 56 57 57 56 57 57 56 57 57 57 57 57 57 57 57 57 57 57 57 57
	GCORIM and MP 3 and MP 7 warrants Within the GCORIM miles. Tracksidd See Sys Warning Mile Poat Type A. L 445.5 455.5 Type B. L	WOR 1.14 .0 on the Bi .0 on the Pi and track be see limits Bi WOR 6.19- a Warning I tem Special Device (TW Device and the special Device and the special Device and the special Device and the special	-Yard Lim NG at We NR at Par Jetins an VSF trains -When re Devices (Instruction (D) inform Recall Code Pecting Bio 7 8	its is in effect by lington and bely handle. Within t e not required for must not excee quired flagging of TWD) ms for additional tation Notes tigges, Tunnets of WWD EWD	veen MP 0.0 hese limits tr r BNSF trains id 10 MPH. distance is 2 I Trackside	0 433 ack 433 6 433 444 451 455 455 455 455 455 455	413 30 42 42 45 51 56 56 56 56 57 57 56 57 57 56 57 57 56 57 57 56 57 57 56 57 57 56 57 57 56 57 57 57 57 57 57 57 57 57 57 57 57 57
	GCOR/M and MP 3 and MP 7 warrants Within the GCOR/M miles. Trackside See Syst Warning Post Type A. L 445.0 445.0 445.0 445.0 243.3 243.3 243.3	WOR 1.14 0 on the Bi 0 on the Pi and track by the limits Bi WOR 6.19- a Warning I tem Special Device (TW Device ocations Pic DED DED	-Yard Lim NG at We NR at Par Jetins an VSF trains -When re Devices (Instruction (D) inform Recall Code Pecting Bio 7 8	its is in effect by lington and betwith handle. Within t e not required for must not exceed quired flagging of TWD) one for additional ation Notes tiggs, Tunnels of WMD Exception report Exception report Exception report	veen MP 0.0 hese limits tr r BNSF train id 10 MPH. distance is 2 l Trackside r Other Struct hg hg	0 433 9 ck 433 8 438 440 440 440 450 450 450 450 450	411 30 412 30 42 45 51 56 56 56 56 56 56 56 56 56 56 56 56 56
	GCOR/M and MP 3 and MP 7 warrants Within the GCOR/M miles. Trackside See Syst Warning Mile Post Type 8, L 445,3 455,5 Type 8, L 243,5 254,1 255,9	WOR 1.14 0 on the Bi 0 on the Pi and track by we limits Bi WOR 6.19- e Warning I tem Special Device (TW Device ocations Pro- scations	-Yard Lim NG at We NR at Par Jietins an VSF trains -When re Devices (Instruction (D) inform Recall Code Recall 6 8	its is in effect by lington and bely handle. Within t e not required for must not exceed quired flagging of TWD) one for additional ation Notes toges, Tunnets of WWD Exception report Exception report Exception report Exception report	veen MP 0.0 hese limits tr r BNSF train id 10 MPH. distance is 2 listance is 2 listance is 2 listance is 2 hear Struct hg hg hg hg	0 433 9 ck 433 6 438 440 440 440 440 440 440 440 44	
	GCOR/M and MP 3 and MP 7 warrants Within the GCOR/M miles. Trackside See Syst Warning Post Type 8, L 445,9 458,8 Type 8, L 243,9 254,1 255,9 254,4	WOR 1.14 0 on the Bi 0 on the Pi and track by the limits Bi WOR 6.19- a Warning I tem Special Device (TW Device (TW Device (TW Device (TW Device (TW Device (TW Device (TW Device (TW) DED DED	-Yard Lim NG at We NR at Par Jietins an VSF trains -When re Devices (Instruction (D) inform Recall Code Recall 6 8	its is in effect by lington and bely handle. Within t e not required for must not exceed quired flagging of TWD) one for additional ation Notes toges, Tunnets of WWD Exception report Exception report Exception report Exception report	veen MP 0.0 hese limits tr r BNSF train id 10 MPH. distance is 2 l Trackside r Other Struct hg hg hg hg	0 433 ack 433 6 438 448 459 459 459 459 459 459 459 459	ATC 30 AT
	GCOR/M and MP 3 and MP 7 warrants Within the GCOR/M miles. Tracksidd See Syst Warning Mble Post Type A. L 445.9 455.8 Type B. L 243.9 254.1 255.9 254.4 255.4	WOR 1.14 0 on the Bi 0 on the Pi and track by see limits Bi WOR 6.19- e Warning I tem Special Device (TW Device (TW Device (TW Device TW Device (TW Device TW Device (TW Device TW Device (TW Device TW Device (TW Device TW Device (TW	-Yard Lim NG at We NR at Par Jietins an VSF trains -When re Devices (Instruction (D) inform Recall Code Recall 6 8	its is in effect by lington and bely handle. Within t e not required for must not exceed quired flagging of TWD) one for additional ation Notes tages, Tunnels of WWD Exception report Exception report Exception report Exception report Exception report	veen MP 0.0 hese limits tr r BNSF train id 10 MPH. distance is 2 listance is 2 listance is 2 listance is 2 nother Struct hg hg hg hg hg hg hg hg	0 433 ack 433 a. 438 448 459 459 459 459 459 459 459 459	
	GCOR/M and MP 3 and MP 7 warrants Within the GCOR/M miles. Trackside See Syst Warning Mile Post Type A, L 445.9 Type B, L 243.3 246.9 256.9 256.4 256.4 256.4 256.4 256.4	WOR 1.14 .0 on the Bi .0 on the Pi and track by the limits Bi WOR 6.19- tem Special Device (TW Device (TW Device ocations Pro DED DED DED DED DED DED	-Yard Lim NG at We NR at Par Jietins an VSF trains -When re Devices (Instruction (D) inform Recall Code Recall 6 8	its is in effect by lington and betwithin to independent within to independent of the must not exceed quired flagging of TWD) mis for additional tation Notes Notes Stage, Tunnels of WWD Exception report Exception report Exception report Exception report Exception report Exception report Exception report	veen MP 0.0 hese limits tr r BNSF trains id 10 MPH. distance is 2 l Trackside r Other Struct hg hg hg hg hg hg hg hg hg hg hg hg hg	0 433 9 ck 433 6 438 444 455 456 456 456 456 456 456	
	GCOR/M and MP 3 and MP 7 warrants Within the GCOR/M miles. Tracksidd See Syst Warning Mble Post Type A. L 445.9 455.8 Type B. L 243.9 254.1 255.9 254.4 255.4	WOR 1.14 0 on the Bi 0 on the Pi and track by see limits Bi WOR 6.19- e Warning I tem Special Device (TW Device (TW Device (TW Device TW Device (TW Device TW Device (TW Device TW Device (TW Device TW Device (TW Device TW Device (TW	-Yard Lim NG at We NR at Par Jietins an VSF trains -When re Devices (Instruction (D) inform Recall Code Recall 6 8	its is in effect by lington and betwithin te in of required for must not exceed quired flagging of TWD) ms for additiona- tation Notes Stger, Tunnels of WD Exception report Exception report Exception report Exception report Exception report Exception report Exception report Exception report	veen MP 0.0 hese limits tr r BNSF trains id 10 MPH. distance is 2 l Trackside r Other Struct hg hg hg hg hg hg hg hg hg hg hg hg hg	0 433 ack 433 6 433 444 451 454 455 455 455 455 455	
	GCOR/M and MP 3 and MP 7 warrants Within the GCOR/M miles. Trackside See Syst Warning Mile Post Type A. L 445.9 Type B. L 243.3 249.9 254.1 255.9 256.4 255.4 255.4 255.4 255.4	WOR 1.14 .0 on the Bi .0 on the Pi and track by the limits Bi WOR 6.19- tem Special Device (TW Device (TW Device ocations Pro DED DED DED DED DED DED	-Yard Lim NG at We NR at Par Jietins an VSF trains -When re Devices (I Instruction (D) Inform Recall Code Recall 8 8 8 8 8	its is in effect by lington and betwithin te in of required for must not exceed quired flagging of TWD) ms for additiona- ation Notes stges, Tunnels of WD Exception report Exception report	veen MP 0.0 hese limits tr r BNSF trains id 10 MPH. distance is 2 l Trackside r Other Struct hg hg hg hg hg hg hg hg hg hg hg hg hg	0 433 ack 433 a. 438 448 459 459 459 459 459 459 459 459	
	GCOR/M and MP 3 and MP 7 warrants Within the GCOR/M miles. Trackside See Syst Warning Mile Post Type A. L 445.9 7ype B. L 243.3 249.9 254.1 255.9 254.4 255.9 255.1	WOR 1.14 0 on the Bi 0 on the Pi and track by we limits Bi WOR 6.19- e Warning I tem Special Device (TW Device ocations Pro ocations DED DED DED DED DED	-Yard Lim NG at We NR at Par Jietins an VSF trains -When re Devices (I Instruction (D) Inform Recall Code Recall 8 8 8 8 8	its is in effect by lington and betwithin te in of required for must not exceed quired flagging of TWD) ms for additiona- tation Notes Stger, Tunnels of WD Exception report Exception report Exception report Exception report Exception report Exception report Exception report Exception report	veen MP 0.0 hese limits tr r BNSF train ed 10 MPH. distance is 2 listance is 3 listance is 3 listance is 3 listance is 3 listance is 4 listance is 4 listanc	.0 433 ack 433 a. 438 444 449 459 459 459 459 459 459	
	GCOR/M and MP 3 and MP 7 warrants Within the GCOR/M miles. Trackalde See Syst Warning Poat Type A. L 445.9 450.9 7ype B. L 243.3 243.3 245.9 254.1 255.9 254.1 255.9 254.4 255.9 254.4 255.9 255.1 257.4	WOR 1.14 0 on the Bi 0 on the Pi and track by the limits Bi WOR 6.19- a Warning I tem Special Device (TW Device (TW DED DED DED DED	-Yard Lim NG at We NR at Par Jietins an VSF trains -When re Devices (I Instruction (D) Inform Recall Code Recall 8 8 8 8 8	its is in effect by lington and betwith handle. Within te not required for must not exceed quired flagging of TWD) one for additional ation Notes tages, Tunnets of WWD Exception report Exception report	veen MP 0.0 hese limits tr r BNSF train ed 10 MPH. distance is 2 l Trackside r Other Struct hg hg hg hg hg hg hg hg hg hg hg hg hg	10 433 ack 433 a. 433 444 448 448 448 448 448 448	
	GCOR/M and MP 3 and MP 7 warrants Within the GCOR/M miles. Trackside See Syst Warning Post Type 8, L 445,9 458,8 Type 8, L 445,9 458,8 Type 8, L 445,9 458,8 Type 8, L 243,9 254,1 255,9 254,4 255,9 255,1 2	WOR 1.14 .0 on the Bi .0 on the Pi and track by the limits Bi WOR 6.19- a Warning I tem Special Device (TW Device (TW Device CW Device CW Device CW DED DED DED DED DED DED DED DE	-Yard Lim NG at We NR at Par Jietins an VSF trains -When re Devices (I Instruction (D) Inform Recall Code Recall 8 8 8 8 8	its is in effect by lington and bely handle. Within t e not required for must not exceed quired flagging of TWD) one for additiona- ation Notes tdges, Tunnets of WWD EWD Exception report Exception report	veen MP 0.0 hese limits tr r BNSF train hd 10 MPH. distance is 2 l Trackside r Other Struct hg hg hg hg hg hg hg hg hg hg hg hg hg	0 433 ack 433 6 438 448 455 456 456 456 456 456 456 456	41330 300 41333 300 412 511 515 510 515 510 510 510 510 510 510 510 510 510 510 510 510 510 510 510
	GCOR/M and MP 3 and MP 7 warrants Within the GCOR/M miles. Trackside See Syst Warning Post Type 8. L 243.9 254.1 255.9 254.4 265.4 2	WOR 1.14 0 on the Bi 0 on the Pi and track by the limits Bi WOR 6.19- a Warning I tem Special Device (TW Device (TW DEV DED DED DED	-Yard Lim NG at We NR at Par Jietins an VSF trains -When re Devices (Instruction (D) inform Recall Code Necting Br 7 8 8 8 8 8 8 8	its is in effect by lington and bely handle. Within t e not required for must not exceed quired flagging of TWD) one for additiona- tation flagging of two two Exception report Exception report	veen MP 0.0 hese limits tr r BNSF trains id 10 MPH. distance is 2 l Trackside r Other Struct hg hg hg hg hg hg hg hg hg hg hg hg hg	.0 433 ack 433 a. 438 444 449 459 459 459 459 459 459	41330 300 41333 300 412 511 515 510 515 510 510 510 510 510 510 510 510 510 510 510 510 510 510 510

Mile Post	Device	Recall Code	Notes
323.0	1	8	Exception reporting
333.2	DED	1 13	Exception reporting
339.3		8	Exception reporting
344.6	DED		Exception Reporting (Broadcasts
	UED	0	channels 044 and 072)
360.9	DED		Exception reporting
363.9	DED	-	Exception reporting
359.8		8	Exception reporting
364.4 MT2	DED	1 1	Exception reporting
367.1	DED	-	Exception reporting
372.1	DED		Exception reporting
377.6	L.L.L	8	Exception reporting
381.7	DED	-	Exception reporting
385.8	DED		Exception reporting
389.1	DED		Exception reporting
302.6	DED		Exception reporting
396.1		8	Exception reporting
403.6	DED	-	Exception reporting
407.4	DED		Exception reporting
412.7	DED	-	Exception reporting
418.7	treat	8	Exception reporting
421.6	DED	8	Exception reporting
425.8		-	DOM DE TRANSING
MT2	DED		Exception reporting
430.9	OF D		annonana providenta (1
MT2	DED		Exception reporting
433.2	actions 3	8	Exception reporting
438.2	DED	1003	Exception reporting
442.5	DED		Exception reporting
448.9		7	EWD
451.5	DED	1	Exception reporting
456.2	DED		Exception reporting
458.8	9 N	8	WWD
464.8	DED	1	Exception reporting
468.7	DED		Ecception reporting
473.6	DED	1	Ecception reporting
479.7	1 2 2 2	8	Exception reporting
483.5	DED	-	Exception reporting
487.6	DED		Exception reporting
503.0		8	Exception reporting
522.9	1 X	8	Exception reporting
548.0		8	Exception reporting
Other De	IVICES		Date and the second second
273.0	High Weter		EWD signals 2732 and 2734 WWD controlled signals Harper
376.4 378.8	High Water		EWD signal 3772 and 3774 WWD signals 3741 and 3743
398.0	High Water		EWD controlled signal EE siding Fergo and signal 3982 WWD signals 3961 and 3983
403.5	High Weter		EWD signals 4032 and 4034 WWD controlled signal Oleta
404.5, 405.0	High Water		EWD controlled signal EE siding Gage and signal 4052 WWD signals 4031 and 4033
409.6	High Water		EWD controlled signals Shattuck WWD signals 4081 and 4083

Kansas Div-No. 1-January 6, 2016-Panhandie Sub

TOC Home

Mile Post	Device	Recall	Notes
481.2, 482.3	High Weber		EWD controlled signals EE Siding Mendots and signal 4522 WWD signals 4501 and 4523
485.0	High Water	-	EWD signals 4652 and 4654 WWD controlled signals WE Siding Mendota and signal 4541
468.7	High Weber	8X	EWD controlled signals Lona WWD signals 4661 and 4663
470.5	High Weber		EWD signals 4712 and 4714 WWD controlled signals Lons
472.7	High Water		EWD signals 4732 and 4734 WWD signals 4711 and 4713
481.0	High Water	1	EWD controlled signal Codman WWD signals 4791 and 4793
482.0. 483.2	High Weber	2	EWD signals 4832 and 4834 WWD controlled signal Codman
486.3	High Water		EWD signals 4872 and 4874 WWD signals 4851 and 4853
488.1	High Water		EWD signals 4892 and 4894 WWD signals 4871 and 4873

6. FRA Excepted Track-None

7. Special Conditions

East Noel—The hand operated switch within the control point at East Noel providing access to the Alva Dead Track is equipped with an electric lock. Permission must be obtained from the control operator before operating the release on the electric lock. After the electric lock is released, wait for the electric lock for run time (8 minutes), then hand operate the switch. In addition to receiving permission to operate the electric lock switch, authority must be obtained to occupy the control point.

Between Waynoka and Hernan—The distance between MP 350.0 and MP 351.0 is 1,168 feet.

Missing Milepost(s)

MP 373 is missing. The distance between MP 372 and MP 374 is 2,440 feet.

Remote Control Area Amarillo-MP 538.5 to MP 550.5 Bad Order Setout Tracks—Tracks at the following locations are designated as a bad order setout tracks. Signs indicate where car(s) should be spotted:

Wellington, MT1, MP 238.5	103	Gage, MT1	3138 W
Mayfeld COOP; MT1, MP 249.5	0706 W	Shattuck, NT1, MP 414.3	3140 W
Argonia, MT1, MP 250.0.	2008 8	Goodwin, MT1, MP 420.5	3160 W
Argonia, MT2, MP 259.0	2009 E	Goodwin, MTZ, MP 420.5	3161
Danville, MT2, MP 268.3	2012 E	Higgine, MT1, MP 428.5	3168 E
Harper, MT1, MP 274.0	2015	Higgine, MT2, MP 428.5	3164
Eula, MT1, MP 280.1	2067 E	Colum, MT1, MP 436.1	3166 W
Eula, MT2, MP 280.1	2068 E	Coburn, MT2, MP 436.1	3167 W
Altes, MT2, MP 285.6	2031年	Olazier, MT1, MP 443.8	3170
Hazelton, MT1, MP 299.6	2045	Charler, MT2, MP 443.8	3171
Hazelton, MT2, MP 299.6	2044 E	Clear Creek, MT1, MP 452:2	3215 W
Klows, MP 306.3	2049	Clear Creek, MT2, MP 482.2	3216 W
Klows, MP 307.8	2059	Canadian, MT1, MP 458.9	3212
Capron, MP 316.4	2103 E	Carsedian, MT2, MP 456.3	3214 E
Brink, MP 319.5	2104	Mendota, MT1, MP 462.9	3224 W
Alva, MP 325.6	2105 W	Mendota, MT2, MP 462.9	3225
Noel, MP 329.2	2138	Lors, MT2, MP 470.4	3218 W
Averd, MT2, MP 335.8	141 W	Marni, MT1, MP 478.7	3221
Waynoka, MP 342.4	3011	Marri, MT2, MP 478,7	3220
Waynoka, MT2 MP 345.2	3017	Codman, MT1, MP 484.6	3228
Waynoka, MT1, MP 345.5	3018 (Both)	Codman, MT2, MP 484.8	3027
Heman, MT1, MP 352.5	3030 (Both)	Hoover, MT1, MP 491.4	32259
Heman, MT2, MP 352.5	3031 (Both)	Hoover, MT2, MP 491.4	3230 E
Belve, MT1, MP 366.4	3034 W	Pampa, MT2, MP 500.0	6803 (Both)
Ourtin, MT1, MP 368.1	3038 W	Kings Mil, MT1, MP 506	629C3 W
Curtis, MT2, MP 368.1	3039 W	Kings MIL MT2, MP 508.5	6901
Woodward, MT2, MP 382.4	3115	White Deer, MT1, MP 512.6	3234 E
Tangler, MT1, MP 392.6	3132 E	White Deer, MT2, MP 512.6	3231
Tangler, MT2, MP 302.6	3133	Cuyler, MT1, MP 519	3246 E
Fargo, MP 398.1	3136 E	Cuyler, MT2, MP 519	3246 E
Fargo, MT1, MP 399.6	3134 W	Penhandle, MT2, MP 525	3256

31

Kansas Div—No. 1—January 6, 2016—Panhandie Sub 32

TOC Home

alle Ofference Langer

ttion
s (fence s s t, hose re r r r r
r (fence 8 8 8 8 7 8 7 7 7 7 7 7
r tfence # # # # t. hote re r r r r
r tfence # # # # t. hote re r r r r
(fence 8 8 8 8 8 7 7 7 7 7 7
B B C C C C C C C C C C C C C C C C C C
N N N N N N N N N N N N N N N N N N N
N t hose re r r r r r
t home rea r m r r r r
r r
r r
r r
r r
r) r
r -
r -
-
_
•
•
•
•
•
•
•

SSI-Switch Control/Monitoring Systems

Tumouts	Equipped		Switch		

(Moveable Point Frogs / Swing Nose Frogs / Derail) - MP 322.8 Alva - MP 325.5 E Noel

-			~	
	1472	200		T Aller

_			100 1 T T 100
	MP	330.2	Noel

-	M	-	3.	su	2	.0	90	es:	

- MP 336.5 W Award MP 505.5 Kings Mills MP 507.0 CP 5070 MP 526.1 CP 5261 MP 528.9 CP 5289

- MP 330.2 Noel
 MP 330.5 W Avant
 MP 330.5 W Avant
 MP 500.8 West Pampa

Flash Flood Critical Areas

MP 518.2

8. Line Segments

Segmet No.	Limita	Mile Posts
Road L	ne Segments	
7100	Wellington to Eastern	- 33
Yard Lit	ne Segmenta	- 32
7182	Weilington Yard	- 13

9. Other Location Information

Station No.	Name	Mile Post	Capacity	Opens	
	Mayfield Cooperative Elevator 0705	249.2	1,215	West	
S	Harper Yard	274.0	Yard	Both	
54120	Hazelton - 2045	259.6	2,018	Both	
54080	Nows Yard	307.7	Yard	Both	
54070	Capron - 2102	316.4	5,200	East	
53915	Alve Yard	324.7	Yand	East	
2.000	Mooreland - 3044	371.3	Yand	West	
2 - 8	Woodward Yard	382.0	Yard	Both	
53800	Shattuck Yard	414.4	Yard	Both	
53760	Higgins Elev 3164 - MT2	428.5	2,275	Both	
53740	Canadian Yard	465.5	Yand	Both	
8 - 1	Hoover Elevator - 3229 - MT1	401.4	1,179	Both	
	Cabot Carbon Pampa Plant - West Lead 6069 - MT1	502.6	2,250	West	
	Cabot Carbon Pampa Plant - East Lead 6970 - MT1	502.6	2,250	East	
	Eagle Rock - MT1	503.6	2,000	West	
	National Oil Weil - 6950 - MT1	503.6	1,512	West	
	Celarese Corp 6905 - MT2	504.3	9,800	Both	
	Celerese Corp. Coal Lead - 6920 - MT2	505.6	2.4 miles	Want	
	Attebury Grain Industry - 6904	607.1	8,122	East	
53650	White Deer - 3232	512.8	Yard	Both	
	Cuyler Elevator - 3245 - MT2	519.0	1,200	East	
53610	St. Francis - 1501 - MT1	542.1	Yard	Both	
	TSTC - 1425 - MT2	543.4	Yard	East	
	Folsom Rel - Park Siding - 1415 - MTI	547.5	4,400	Both	

