

ISSUED BY THE RECEIVER

THE COLLECTION OF
SYDNEY H. GREEN, M.D.

Oregon Railway & Navigation Company.

EMPLOYEES' TIME TABLE No. 67.

To Take Effect Sunday, May 17th, 1896.

12:01 A. M., Pacific Time.

THIS TIME TABLE is for the use and guidance of EMPLOYEES only, and is not intended for the information of the public, or as an advertisement of time of any Train. The Receiver reserves the right to vary from it at pleasure.

E. McNEILL,
Receiver and General Manager,
PORTLAND, ORE.

J. P. O'BRIEN,
Superintendent,
PORTLAND, ORE.

A. J. BORIE,
Ass't Superintendent,
PENDLETON, ORE.

SPECIAL RULES AND INSTRUCTIONS.

OREGON DIVISION.

Special Instructions Covering the Carrying of Passengers on Freight Trains.

The following freight trains will carry passengers on districts named (subject to the conditions of Rules 218 and 243), and such trains may be flagged for passengers:

Second District—Trains Nos. 21, 22, 23 and 24. Third District—Trains Nos. 21, 22, 23 and 24.

Fourth District—Trains No. 23 and 24.

GENERAL.

First District. Trains 1 and 2 will stop for passengers at Columbia Beach.

Trains 7 and 8 will stop for passengers at Corbett's and Columbia Beach.

Trains 23 and 24 will stop for freight at Corbett's, Latourelle Station, Warrendale and William's Fishery.

Second District. Trains 23 and 24 will stop for freight and passengers at Bailey's Platform (Mile Post 183.)

Third District. Trains 1 and 2 will stop for passengers at Old Mission.

Fourth District. Trains 1 and 2 will stop for passengers at Hot Lake.

All trains must come to a full stop 200 feet from all Draw Bridges and Railroad Crossings.

Draw Bridge is located at Willamette River, between Portland and East Portland.

Bell cord signal and air brakes must be tested before leaving terminal and division stations.

Referring to Rules 36 and 37, the day signals will be carried during the night in addition to the regular night signals.

When Sand is blowing, Engineers will run with great care. They will run slowly and with train under full control where *they cannot see that the track is clear.* The same precautions must be observed at all times in passing rock points where there is a possibility of the track being obstructed by falling rocks or land slides.

SPEED.

The following regulations will govern the speed of *all trains and engines* at points indicated below, and such rates of speed must not be exceeded under any circumstances, except by special train-order.

First District. Within corporate limits of Dalles, speed must not exceed 4 miles per hour. While passing Rock Bluffs, either side of Tunnels Nos. 2 and 3, and where track approaches the Columbia River west of Mosier, speed must not exceed 8 miles per hour.

Second District. Within corporate limits of Dalles, speed must not exceed 4 miles per hour.

All Districts. Freight trains, work trains and light engines must not exceed 18 miles per hour, and must reduce to 15 miles per hour descending all grades over 70 feet per mile. *All trains* and light engines must reduce to 12 miles per hour while passing through tunnels.

YARD LIMITS.

Where Yard Limits are not designated by yard limit signs, the Station Whistling Posts will be considered the yard limits. Passenger trains must reduce speed to 15 miles per hour and freight trains to 10 miles per hour, between station switches. Switching trains must not occupy main track within yard limits when any regular train is due, without protection of a flag, as per rule 99. All extra trains and trains running ahead of time, will approach yard limits expecting to find main line track occupied without flag protection, and should any collision occur, the responsibility will rest upon the train approaching the station.

WASHINGTON DIVISION.

TRAIN DISPATCHERS.

W. E. BORDEN, Chief Dispatcher, - - - - Starbuck.	C. H. SPENCER, Dispatcher, - - - - STARBUCK.
P. J. LEAHY, Dispatcher, - - - - "	KEITH LACKEY, " - - - - "

REGISTERING STATIONS.

UMATILLA,	DAYTON,	TEKOA,	WINONA,	BURKE.
PENDLETON,	ALTO,	WALLACE,	COLFAX,	
WALLA WALLA,	STARBUCK,	G. N. JUNCT,	MOSCOW,	
BOLLES,	POMEROY,	SPOKANE,	SELTICE,	

LIST OF SURGEONS.

NAME	LOCATION	DISTRICT	NAME	LOCATION	DISTRICT
Dr. K. A. J. MAKENZIE, Chief Surgeon	PORTLAND, Tel. 267	O. R. & N. System.	DR. W. W. WATKINS, Surgeon.	MOSCOW.	Colfax to Moscow.
DRS. BINGHAM & KEVLOR, Surgeon.	WALLA WALLA.	Pendleton, Umatilla and Starbuck	" D. G. RUSSELL, "	SPOKANE	Spokane to Tekoa.
DR. F. W. VINCENT, "	PENDLETON.	Pendleton and Walla Walla.	" C. S. STONE, "	WALLACE.	Tekoa to Mullan.
" E. H. VAN PATTEN, "	DAYTON.	Bolles to Dayton.	" J. W. RHODES, "	TEKOA.	Colfax to Spokane.
" C. M. BOSWELL, "	COLFAX.	Starbuck, Tekoa, Connell.	" H. G. MAUZEY, Oculist.	SPOKANE.	Pendleton to Spokane & Branches

Standard Clocks are located as follows:

STARBUCK, - - - -	DISPATCHER'S OFFICE
TEKOA, - - - -	TELEGRAPH OFFICE.

Licensed Watchmakers.

MARK P. JOHN, - - - -	PENDLETON
LUDWIG & HUNZIKER, - - - -	WALLA WALLA
C. F. WENDROTH, - - - -	STARBUCK
E. C. KING, - - - -	TEKOA
WETZELL & DODSON, - - - -	SPOKANE

SPECIAL RULES AND INSTRUCTIONS.

WASHINGTON DIVISION.

Special Instructions Governing the Carrying of Passengers on Freight Trains.

Passengers will be carried on all regular freight trains.

GENERAL.

Trains Nos. 5 and 6 will stop for passengers at following stations not shown on schedule: Mica and Lockwood on 6th District, and Medimont on Mullan District.

All Trains will come to a full stop 200 feet from all Draw Bridges and Railroad Crossings.

Drawbridges are located at Riparia, east of the station, and at St. Joseph River, one-half mile east of Chatcolet.

While passing over high trestle (bridge 321) west of Alto, speed must not exceed (8) eight miles per hour.

Referring to Rules 36 and 37, the day signals will be carried during the night in addition to the regular night signals.

Bell cord signal and air brakes must be tested before leaving terminal and division stations.

YARD LIMITS.

Where Yard Limits are not designated by yard limit signs, the Station Whistling Posts will be considered the yard limits. Passenger trains must reduce speed to 15 miles per hour and freight trains to 10 miles per hour, between station switches. Switching trains must not occupy main track within yard limits when any regular train is due, without protection of a flag, as per rule 99. All extra trains and trains running ahead of time, will approach yard limits expecting to find main line track occupied without flag protection, and should any collision occur, the responsibility will rest upon the train approaching the station.

Special Rule governing the movement of East-bound trains between Alto and Starbuck:

No train or engine will leave Alto until 20 minutes after the departure of any preceding train or engine.

Passenger trains must not exceed schedule time. Freight trains and light engines must not exceed twelve miles per hour.

East bound freight trains and light engines will not leave Alto following a passenger train, until the passenger train has arrived at Starbuck. If the telegraph line is not working, and it is impossible to give a report of passenger train arriving at Starbuck, the freight train or light engine may leave Alto 45 minutes after the departure of passenger train.

Special Rules governing the movement of east bound trains between Crest and Colfax:

East bound trains will register at Crest. The speed of passenger trains and light engines must not exceed 15 miles per hour. All other trains 8 miles per hour.

No train or light engine will leave Crest until 20 minutes after the departure of any preceding train or engine.

When it is necessary to protect rear end of train the flagman will return to Crest as quickly as possible.

Helping engines may return from Crest to Colfax ahead of delayed east bound freight trains. Delayed freight trains will note leaving time on register at Crest and be governed by Special Rules.

The junction switch at Colfax will be set and locked on Moscow branch track, but will be kept set for Sixth District main line track, while trains are occupying Moscow branch main line in Colfax yard. (This rule does not apply to passenger trains that have not been more than 15 minutes coming from Crest, and are not delayed more than 5 minutes at Colfax.)

All west bound trains coming into Colfax on main line 6th District will stop before crossing the junction switch, and conductor will go to the telegraph office and ascertain if the hill is clear before opening the switch, unless signaled from the telegraph office to proceed.

All east bound trains on Sixth District, main line, occupying Colfax yard, will report at telegraph office for clearance on hill before backing over junction switch.

FIRST DISTRICT.—Portland and Dalles.—EASTWARD.—OREGON DIVISION.

Length of sidings in feet and location of scales, water, fuel, and turning stations.	SOUTHERN PACIFIC TRAINS				O. R. & N. TRAINS				Distances from Portland	Time Table No. 67.	
	Second Class		First Class		Second Class		First Class			May 17, 1896	
	32 California Freight	20 Salem Pass.	18 Roseburg Passenger	16 California Express	24 Way Freight	22 Eastern Fast Freight	8 Dalles Passenger	2 Fast Mail		STATIONS	
	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily			
	6.50 PM	4.00 PM	8.30 AM	8.50 PM			8.35 AM	7.00 PM	0.0 N	PORTLAND	Vc
71794 WCTYO					8.45 AM	10.00 PM			1.4 N	ALBINA	B
2654	7.10 PM	4.05 PM	8.35 AM	8.55 PM	8.55	10.10	s 8.40	s 7.05	2.8	EAST PORTLAND	
1763					9.35	10.44	f 8.56	f 7.25	10.0	Clarnie	
3224					9.55	11.07	s 9.09	f 7.37	15.3	Fairview	
5740 W					10.40	11.17	s 9.15	s 7.43	17.8 N	Troutdale	Sn
1725					11.05 AM	11.45 PM	f 9.30	f 7.58	24.6	Rooster Rock	
1067							f 9.32	f 8.00	25.6	Latourelle Station	
4202 OW					12.15 PM	12.05 AM	s 9.38	s 8.07	28.4 D	Bridal Veil	Ju
									32.0	Multnomah Falls	
1615					12.45	12.25	f 9.52	8.20	33.3	Oneonta	
1726					1.05	12.40	f 10.01	8.30	37.0	Dodson's	
7675 WT					1.30	12.57	s 10.11	s 8.40	41.2 N	Bonneville	Mu
4030					2.20	1.15	s 10.22	s 8.51	45.1 D	Cascade Locks	Cj
2068					2.55	1.44	f 10.39	9.09	52.4	Wyeth	
2214 W					3.42	2.06	f 10.53	9.23	58.0	Viento	
2821					4.45	2.37	s 11.12	s 9.45	65.7 N	Hood River	Ki
1932 W					5.20	3.00	f 11.27	f 10.00	72.1	Mosier	
2186					6.00	3.30	f 11.45 AM	10.18	79.0	Rowena	
23995 WCTO					6.45 PM	4.05 AM	12.05 PM	10.40 PM	88.3 N	DALLES	Wh
	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily			
	(0.20)	(0.05)	(0.05)	(0.05)	(10.00)	(6.05)	(3.30)	(3.40)			(88.3)

East-bound Trains will have absolute right to the track over West-bound Trains of the same or inferior class.—See Rule 84.

No. 1 has absolute right to track over No. 8.

Trains 7 and 8 will stop at Multnomah Falls.

When Freight Trains meet at Viento, East-bound Trains will take Siding, and help West-bound Trains over the hill.

All Trains MUST STOP before going onto the Draw in the Willamette River Bridge and NOT PROCEED without Signal from Bridge-tender.

Southern Pacific Trains, when on time, will have right of track over all delayed O. R. & N. Trains; but when delayed will proceed only under cover of flag.

Conductors of trains in and out of Albina must send their head brakeman to the Willamette River Bridge R. R. crossing as flagman, and must not proceed until signalled by him.

Junction Switch at East Portland will be set and locked for Albina Main Line Freight track.

FIRST DISTRICT.—Portland and Dalles.—WESTWARD.—OREGON DIVISION.

Time Table No. 67. May 17, 1896		Distances from Huntington	O. R. & N. TRAINS					SOUTHERN PACIFIC TRAINS				
			First Class		Second Class			First Class			Second Class	
			1	7	21	23	15	17	19	31		
			Fast Mail	Portland Passenger	Portland Fast Freight	Way Freight	California Express	Roseburg Passenger	Salem Pass.	California Freight		
STATIONS		Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily			
N.	PORTLAND	Vc	404.4	8.30 AM	6.00 PM			8.10 AM	4.40 PM	10.15 AM	6.00 AM	
N.	ALBINA	B	403.0			4.15 AM	4.00 PM					
	EAST PORTLAND		401.6	s 8.20	s 5.55	4.05	3.50	8.05 AM	4.35 PM	10.10 AM	5.50 AM	
	Clarrie		394.4	8.04	f 5.39	3.36	3.05					
	Fairview		389.1	f 7.52	s 5.26	3.15	2.35					
N.	Troutdale	Sn	386.6	s 7.46	s 5.20	3.05	2.20					
	Rooster Rock		379.8	7.30	f 5.05	2.38	1.38					
	Latourelle Station		378.8	f 7.28	f 5.03							
D.	Bridal Veil	Ju	376.0	s 7.22	s 4.57	2.23	1.15					
	Multnomah Falls		372.4									
	Ononta		371.1	7.09	f 4.43	2.03	12.45					
	Dodson's		367.4	7.00	f 4.34	1.48	12.25					
N.	Bonneville	Mu	363.3	s 6.50	s 4.24	1.33	12.01 PM					
D.	Cascade Locks	CJ	359.2	s 6.39	s 4.13	1.15	11.30 AM					
	Wyeth		362.0	6.23	f 3.55	12.35	10.39					
	Viento		346.4	6.09	f 3.42	12.10 AM	10.00					
N.	Hood River	Ki	338.7	s 5.50	s 3.23	11.30 PM	9.05					
	Mosier		332.3	f 5.35	f 3.08	10.55	8.25					
	Rowena		325.4	5.17	f 2.51	10.18	7.45					
N.	DALLES	Wh	316.1	4.55 AM	2.30 PM	9.25 PM	7.00 AM					
				Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	
			(88.3)	(3.35)	(3.30)	(6.50)	(9.00)	(0.05)	(0.05)	(0.05)	(0.10)	

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Conductors of Trains in and out of Albina must send their head brakeman to the Willamette River Bridge R. R. crossing as flagman, and must not proceed until signalled by him.

Junction Switch at East Portland will be set and locked for Albina Main Line Freight Track.

SECOND DISTRICT.—Dalles and Umatilla—EASTWARD.—OREGON DIVISION.

Length of sidings in feet and location of scales, water, fuel and turning stations.	Second Class			First Class		Distances from Portland	Time Table No. 67.		
							May 17, 1896		
	24 Way Freight	22 Eastern Fast Freight	2 Fast Mail		STATIONS				
	Leave Daily	Leave Daily	Leave Daily						
239 95 WCTO	1.00 PM	4.50 AM	10.45 PM		88.3 N.....	DALLES.....	Wh		
1654	1.50	5.30	11.08		95.8	Summit			
3141	2.10	5.48	f 11.18		100.4	Celilo			
1730 W (East)	2.30	6.04	f 11.27		104.2	Des Chutes			
1050	2.55	6.20	f 11.36		108.0	Biggs			
7450	3.35	6.32	s 11.42		110.9 N.....	Grant's	J		
1057	3.55	6.40	f 11.47		113.1	Rufus			
1442 W (West)	4.17	6.58	11.58 PM		117.8	John Day's			
1623	4.38	7.19	12.10 AM		123.0	Squally Hook			
1949	4.55	7.35	12.20		127.0	Quinn's			
4365 W	5.20	8.00	f 12.35		133.6	Blalock's			
4791 T	6.15	8.30	s 12.53		141.9 N.....	Arlington	Mx		
2283 W	7.00	9.00	1.13		150.7	Willows			
500	7.15	9.06	s 1.16		152.4 N.....	HEPPNER JUNCTION	Wi		
1678	7.55	9.38	f 1.34		161.9	Castle Rock			
1438 W	8.30	10.06	s 1.50		170.4	Coyote			
1527	9.10	10.37	2.07		179.7	Stokes			
17245 WCTY	9.45 PM	11.00 AM	2.20 AM		186.9 N.....	UMATILLA	Os		
	Arrive Daily	Arrive Daily	Arrive Daily						
	(8.45)	(6.10)	(3.35)					(98.6)	

East-bound Trains will have absolute right to the track over West-bound Trains of the same or inferior class.—See Rule 84.

SECOND DISTRICT.—Dalles and Umatilla.—WESTWARD.—OREGON DIVISION.

Time Table No. 67.		Distances from Huntington	First Class		Second Class									
May 17, 1896			1		21	23								
STATIONS			Fast Mail		Portland Fast Freight	Way Freight								
		Arrive Daily		Arrive Daily	Arrive Daily									
N.....	DALLES	Wh	316.1	4.50 AM		8.45 PM	1.00 PM							
	Summit		308.6	4.32		8.08	11.45 AM							
	Celilo		304.0	f 4.22		7.48	11.15							
	Des Chutes		300.2	f 4.13		7.30	10.55							
	Biggs		296.4	f 4.04		7.14	10.35							
N.....	Grant's	J	293.5	s 3.58		7.00	10.15							
	Rufus		291.3	f 3.53		6.50	9.38							
	John Day's		286.6	3.42		6.30	9.13							
	Squally Hook		281.4	3.30		6.06	8.49							
	Quinn's		277.4	3.20		5.50	8.30							
	Blalocks		270.8	f 3.05		5.20	8.00							
N.....	Arlington	Mx	262.5	s 2.47		4.45	7.15							
	Willows		253.7	2.27		4.06	6.30							
N.....	HEPPNER JUNCTION	Wi	252.0	s 2.24		4.00	6.20							
	Castle Rock		242.5	f 2.06		3.25	5.42							
	Coyote		234.0	s 1.50		2.55	5.12							
	Stokes		224.9	1.33		2.23	4.40							
N.....	UMATILLA	Cs	217.5	1.20 AM		2.00 PM	4.15 AM							
				Leave Daily		Leave Daily	Leave Daily							

(98.6)

(3.30)

(6.45)

(8.45)

East-bound Trains will have absolute right to the track over West-bound Trains of the same or inferior class.—See Rule 84.

THIRD DISTRICT.—Umatilla and La Grande.—EASTWARD.—OREGON DIVISION.

Length of s i n g s in f r e t and location of scales, water, fuel, and turning stations.	Second Class.			First Class		Distances from Portland	Time Table No. 67.	
	24		22	2			May 17, 1896	
	Way Freight	Eastern Fast Freight	Eastern Fast Freight	Fast Mail			STATIONS	
	Leave Daily	Leave Daily		Leave Daily				
8850 WCTY	5.10 AM	12.30 PM				186.9 N	UMATILLA	Cs
1740	5.40	1.06				193.4	Maxwell	
1408	6.15	1.40				202.1	Fosters	
1432W(West)	6.30	2.00				205.5 D	Echo	Hi
1463	6.55	2.34				212.2	Nolin	
1019	7.06	2.50				215.0	Yoakum	
1419	7.43	3.20				223.2	Barhart	
15680 WCTO	8.15 } 9.00 }	4.00 } 4.50 }			6.55 AM	230.9 N	PENDLETON	Fd
498						234.9	Mission	
1497 W	9.57	5.30		f 7.20		242.3	Cayuse	
500						247.5	Thorn Hollow	
1667 W	10.45	6.08		f 7.42		252.4 D	Bingham Springs	Gl
W T O	11.38	7.06		f 8.05		262.9	Wilbur	
1778	11.43 AM	7.15		8.07		263.4	North Fork	
1778 W	12.30 PM	8.15		f 8.32		272.6	Huron	
3813 W	1.15	9.00		f 9.00 9.20		280.3 D	Meacham	Mh
2850 W O T	2.00	9.50		s 9.38		286.4 N	Kamela	S
2920 W	3.00	10.45		s 10.03		297.6 D	Hilgard	Dy
				f 10.12		301.5	Perry	
18960 WCTO	4.00 PM	11.30 PM		10.20 AM		305.3 D	LA GRANDE	Ra
	Arrive Daily	Arrive Daily		Arrive Daily				
	(10.50)	(11.00)		(3.25)				(118.4)

East-bound trains will have absolute right to the track over West-bound trains of the same or inferior class.—See Rule 84.

All trains going in either direction between the Junction Switch and Depot at Pendleton must keep under full control.

All West-bound Trains will come to a FULL STOP 400 Feet East of Junction Switch at Pendleton.

Junction Switch at Umatilla will be left set for Fifth District, Washington Division.

Trains cannot pass at Wilbur.

THIRD DISTRICT.—Umatilla and La Grande.—WESTWARD.—OREGON DIVISION.

Time Table No. 67.		Distances from Huntington	First Class		Second Class															
May 17, 1896			1	21	23															
STATIONS						Fast Mail	Portland Fast Freight	Way Freight	Arrive Daily	Arrive Daily										
		Arrive Daily	Arrive Daily	Arrive Daily																
N.....	UMATILLA.....Cs	217.5			12.15 PM	9.00 PM														
	6.5 Maxwell.....	211.0			11.48 AM	8.35														
	8.7 Fosters.....	202.3			11.20	8.02														
D.....	3.4 Echo.....Hi	198.9			11.06	7.50														
	6.7 Nolin.....	192.2			10.42	7.30														
	2.8 Yoakum.....	189.4			10.30	7.15														
	8.2 Barnhart.....	181.2			10.00	6.33														
N.....	7.7 PENDLETON.....Fd	173.5	8.30 PM		9.30	6.00														
	4.0 Mission.....	169.5			8.15	4.50														
	7.4 Cayuse.....	162.1	f 8.02		7.20	4.05														
	5.2 Thorn Hollow.....	157.3																		
D.....	4.9 Bingham Springs.....Gl	152.0	s 7.42		6.22	3.28														
	10.5 Wilbur.....	141.5			5.45	2.45														
	0.5 North Fork.....	141.0	f 7.15		5.40	2.38														
	9.2 Huron.....	131.8			5.00	2.00														
D.....	7.7 Meacham.....Mh	124.1	f 6.55		4.20	1.15														
	6.1 Kamela.....S	118.0	f 6.37		3.50	12.30 PM														
	1.2 Hilgard.....Dy	106.8	f 6.12		2.50	11.00 AM														
	3.9 Perry.....	102.9	s 5.20																	
D.....	3.8 LA GRANDE.....Ra	99.1	f 5.05		2.15 AM	10.20 AM														
			4.55 PM																	
			Leave Daily		Leave Daily	Leave Daily														
		(118.4)	(3.35)		(10.00)	(10.45)														

East-bound Trains will have absolute right to the track over West-bound Trains of the same or inferior class.—See Rule 84.

All trains going in either direction between the Junction Switch and Depot at Pendleton must keep under full control.

All West-bound Trains will come to a FULL STOP 400 Feet East of Junction Switch at Pendleton.

Junction Switch at Umatilla will be left set for Fifth District, Washington Division.

Trains cannot pass at Wilbur.

FOURTH DISTRICT—La Grande and Huntington.—EASTWARD.—OREGON DIVISION.

Length of sidings in feet and location of scales, water, fuel, and turning stations.					Second Class		First Class		Distances from Portland	Time Table No. 67.	
					24	22	2			May 17, 1896	
					Way Freight	Eastern Fast Freight	Fast Mail			STATIONS	
				Leave Daily	Leave Daily	Leave Daily					
16960 WCTO					11.15 AM	12.05 AM		10.25 AM	305.3	N	LA GRANDE Ra
1788 W					11.50 AM	12.45	s	10.45	314.4		Hot Lake
1790 W					12.45 PM	1.45	s	11.12	317.7	D	Union Un
2130 Wy					1.25	2.30	s	11.32	327.5	N	Telocaset Wk
1500					2.05	3.15	f	11.46 AM	337.0	D	North Powder Hd
6032 WCY					3.08	4.15	s	12.10 PM	346.7		Haines
1259					3.45	5.00	s	12.10 PM	357.0	N	Baker City Be
745					4.15	5.30	f	12.25	363.0		Norton
3832 W					4.45	6.00		12.39	367.3		Encina
1100					5.00	6.10	s	12.45	369.5	N	Pleasant Valley Vy
3525 WCY					5.35	6.45	f	1.04	377.2		Unity
1440 W					6.05	7.20	f	1.19	384.2		Durkee
6518 WCTO					7.00	8.05	s	1.36	392.4		Weatherby
					7.45 PM	9.00 AM	f	2.00 PM	404.4	N	HUNTINGTON Hu
					Arrive Daily	Arrive Daily	Arrive Daily				
					(8.30)	(8.55)	(3.35)		(99.1)		

East-bound Trains will have absolute right to the track over West-bound Trains of the same or inferior class.—See Rule 84.

FOURTH DISTRICT—Huntington and LaGrande.—WESTWARD.—OREGON DIVISION.

Time Table No. 67.		Distances from Huntington	First Class		Second Class									
May 17, 1896			1	21	23									
STATIONS						Fast Mail	Portland Fast Freight	Way Freight	Arrive Daily	Arrive Daily	Arrive Daily			
					Leave Daily	Leave Daily	Leave Daily							
N.....	LA GRANDE.....Ra	99.1	4.50 PM	1.30 AM	9.15 AM									
	Hot Lake.....	90.2												
D.....	Union.....Un	86.7	s 4.27	12.45	8.15									
N.....	Telocaset.....Wk	76.9	s 4.05	12.01 AM	7.25									
D.....	North Powder.....Hd	67.4	s 3.44	11.15 PM	6.40									
	Haines.....	57.7	f 3.26	10.40	6.00									
N.....	Baker City.....Bc	47.4	s 3.08	10.10	5.00									
	Norton.....	41.4	2.51	9.40	4.18									
	Encina.....	37.1	2.43	9.27	3.55									
N.....	Pleasant Valley.....Vy	34.9	s 2.38	9.15	3.45									
	Unity.....	27.2	f 2.11	8.15	2.45									
	Durkee.....	20.2	f 1.54	7.40	2.00									
	Weatherby.....	12.0	s 1.36	7.00	1.25									
N.....	HUNTINGTON.....Hu	0.0	f 1.00 PM	6.00 PM	12.45 AM									
			Leave Daily	Leave Daily	Leave Daily									
		(99.1)	(3.50)	(7.30)	(8.30)									

East-bound Trains will have absolute right to the track over West-bound Trains of the same or inferior class.—See Rule 84.

HEPPNER DISTRICT.—Heppner Jc. and Heppner.—OREGON DIVISION.

EASTWARD				Time Table No. 67.		WESTWARD				
Length of sidings in feet and location of scales, water, fuel, and turning stations.	First Class			Distances from Heppner Jc.	May 17, 1896		Distances from Heppner	First Class		
	10 Mixed				STATIONS			9 Mixed		
	Leave Daily Exc. Monday							Arrive Daily Exc. Monday		
			2.30 AM	0.0	N. HEPPNER JUNCTION..Wi	45.2		1.00 AM		
987			f 2.55	6.7	6.07 Rhea	38.5		f 12.35		
638	W		f 3.20	14.4	7.7 Cecils	30.8		f 12.10 AM		
688			f 3.40	19.8	5.4 Douglas	25.4		f 11.50 PM		
722	W		f 4.05	28.3	8.6 Ione	16.9		f 11.25		
1020			s 4.30	36.2	7.9 Lexington	9.0		s 11.00		
3463	W		5.00 AM	45.2	9.0 D. HEPPNER .....Hr	0.0		10.30 PM		
			Arrive Daily Exc. Monday					Leave Daily Exc. Sunday		
			(2.30)			(45.2)		(2.30)		

Train No. 9 will have right of track to Heppner Junction against Train No. 10.

All branch trains will register at Heppner Junction.

ELGIN DISTRICT.—LaGrande and Elgin.—OREGON DIVISION.

EASTWARD				Time Table No. 67.		WESTWARD				
Length of sidings in feet and location of scales, water, fuel, and turning stations.	First Class			Distances from LaGrande	May 17, 1896		Distances from Elgin	First Class		
	32 Mixed				STATIONS			31 Mixed		
	Leave Daily Exc. Sunday							Arrive Daily Exc. Sunday		
16960	WCTO		11.20 AM	0.0	D. LAGRANDE .....Ra	20.9		4.05 PM		
3016			s 11.35 AM	2.5	2.5 Island City	18.4		s 3.50		
1000			s 12.01 PM	8.3	5.8 Alcel	12.6		s 3.25		
1552			s 12.21	12.3	4.0 Kumbler	8.6		s 3.05		
4800	WCY		12.50 PM	20.9	8.6 D. ELGIN .....Gl	0.0		2.20 PM		
			Arrive Daily Exc. Sunday					Leave Daily Exc. Sunday		
			(1.30)			(20.9)		(1.45)		

East-bound Trains will have absolute right to the track over West-bound Trains of the same or inferior class.—See Rule 84.

FIFTH DISTRICT.—Pendleton and Umatilla.—WASHINGTON DIVISION.

EASTWARD				Time Table No. 67.		WESTWARD					
Length of sidings in feet and location of scales, water, fuel, and turning stations.	Second Class		First Class		Distances from Umatilla	STATIONS	Distances from Pendleton	First Class		Second Class	
	42	22	2					1	21	41	
	Mixed	Fast Freight	Fast Mail					Fast Mail	Fast Freight	Mixed	
	Leave Daily Exc. Sunday	Leave Daily	Leave Daily					Arrive Daily	Arrive Daily	Arrive Daily Exc. Sunday	
15028 WCTY		11.30 AM	2.25 AM	0.0 N	UMATILLA Os	105.7	1.15 AM		1.30 PM		
1390		12.40 PM	2.47	10.9	10.9 Cold Springs	94.8	12.54		12.40 PM		
1338 WY		1.45	s 3.17	27.1 D	16.2 Wallula Jn	78.6	s 12.22		11.35 AM		
2584		2.25	3.39	37.3	10.2 Divide	68.4	12.01 AM		10.55		
13240 W		2.40	3.50	42.0	4.7 Touchet	63.7	11.50 PM		10.35		
1560		3.00	4.02	47.9	5.9 Raymo	57.8	11.36		10.15		
1556		3.15	4.10	51.2	3.3 Whitman	54.5	11.28		10.00		
8850 WCTO	12.15 PM	3.45 PM	4.30	58.3 N	7.1 WALLA WALLA Z	47.4	11.15		9.40 AM	11.55 AM	
940			4.45	63.2	4.9 State Line	42.5	10.50				
2121	12.45		4.59	65.3	2.1 Spofford	40.4	10.29			11.30	
3440 W	1.05		s 5.08	69.0 D	3.7 Milton Co	36.7	s 10.18			11.15	
1020	1.30		5.23	74.9	5.9 Bates	30.8	10.04			10.50	
1890	1.45		5.35	78.4	3.5 Blue Mountain	27.3	f 9.54			10.35	
1345	2.00		5.47	81.6	3.2 Downing	24.1	9.46			10.23	
4916	2.10		s 5.54	84.1 D	2.5 Weston W	21.6	s 9.39			10.12	
3530 W	2.25		s 6.01	87.1 D	3.0 Athena Cn	18.6	s 9.32			10.00	
1373 W	2.45		s 6.12	92.4 D	5.3 Adams Md	13.3	s 9.20			9.40	
1547	2.57		f 6.17	95.2	2.8 Eastland	10.5	f 9.14			9.27	
662	3.10		6.22	98.1	2.9 Havana	7.6	9.08			9.15	
477	3.25		6.28	101.1	3.0 Saxe	4.6	9.01			9.05	
15680 WCTO	3.45 PM		6.40 AM	105.7 N	4.6 PENDLETON Fd	0.0	8.50 PM			8.45 AM	
	Arrive Daily Exc. Sunday	Arrive Daily	Arrive Daily				Leave Daily		Leave Daily	Leave Daily Exc. Sunday	
	(3.30)	(4.15)	(4.15)		(105.7)		(4.25)		(3.50)	(3.10)	

East-bound Trains will have absolute right to the track over West-bound Trains of the same or inferior class.—See Rule 84.

No. 41 has right of track against No. 42.

All Trains will be governed by Third District Oregon Division Time Table and Rules between Pendleton and Pendleton Junction.

All Trains going in either direction between the Junction Switch and Depot at Pendleton must keep under full control.

Junction Switch at Walla Walla will be left set and locked for Main Line, to Wallula.

Junction Switch at Umatilla will be left set for Fifth District, Washington Division.

All West-bound trains will stop before crossing Junction Switch at Umatilla.

All East-bound trains will stop before crossing Junction Switch at Pendleton.

FIFTH DISTRICT.—Walla Walla and Starbuck.—WASHINGTON DIVISION.

EASTWARD				Time Table No. 67.		WESTWARD			
Length of sidings in feet and location of scales, water, fuel, and turning stations.	Second Class		First Class		Distances from Walla Walla	May 17, 1896		Distances from Spokane	
	22		2			STATIONS		1	
	Fast Freight		Express					Express	
	Leave Daily		Leave Daily					Arrive Daily	
15038 WOTO	4.15 PM		4.55 AM	0.0	N..... WALLA WALLA .....Z	204.0		11.05 PM	9.05 AM
				0.3	0.3				
				0.3	W. & C. R. Crossing	203.7			
1245	4.30		5.02	3.2	Baker Siding	200.8		10.57	8.50
1403	4.45		5.10	8.8	Valley Grove	197.2	f	10.49	8.30
1220	5.00		5.16	9.6	Hadley	194.4		10.44	8.15
715	5.18		5.23	12.9	Berryman	191.1		10.37	8.00
940	5.22		5.25	14.1	Ennis	189.9		10.35	7.55
932	5.30		5.30	16.4	Highland	187.6		10.30	7.45
7660	5.45		5.36	19.8	Prescott	184.2	S	10.22	7.25
3152 WT	6.10		5.45	24.6	BOLLES	179.4	S	10.11	7.05
1272	6.35		5.55	28.7	Menoken	175.3		10.02	6.40
4041 W(East) T	7.20		6.15	36.2	Alto	167.8	S	9.47	6.15
1314	7.55		6.32	41.9	Relief	162.1		9.27	5.15
10442 WCTY	8.20 PM		6.45 AM	47.4	N..... STARBUCK .....Sa	156.6		9.15 PM	4.50 AM
	Arrive Daily		Arrive Daily					Leave Daily	
	(4.05)		(1.50)		(47.4)			(1.50)	(4.15)

East-bound Trains will have absolute right to the track over West-bound Trains of the same or inferior class.—See Rule 84.

DIXIE DISTRICT (Narrow Gauge).—Walla Walla and Dixie.—WASHINGTON DIVISION.

EASTWARD				Time Table No. 67.		WESTWARD			
Length of sidings in feet and location of scales, water, fuel, and turning stations.					Distance from Walla Walla	May 17, 1896		Distance from Dixie	
						STATIONS			
15028 WOTO				0.0	WALLA WALLA	12.0			
				6.0	Dudley Junction	6.0			
350				9.0	Spring Creek	3.0			
525				12.0	DIXIE	0.0			
				0.0	DUDLEY JUNCTION	2.0			
350				2.0	DUDLEY	0.0			

East-bound Trains will have absolute right to the track over West-bound Trains of the same or inferior class.—See Rule 84.

SIXTH DISTRICT—Starbuck and Spokane.—WASHINGTON DIVISION

EASTWARD

Time Table No. 67.

WESTWARD

Length of sidings in feet and location of scales, water, fuel, and turning stations.	EASTWARD						Distances from Walla Walla	STATIONS	Distances from Spokane	WESTWARD					
	Second Class			First Class						First Class			Second Class		
	15	26	22	3	6	2				1	5	4	21	25	16
	G.N. Freight Leave Daily	Way Freight Leave Daily Exc. Sunday	Fast Freight Leave Daily	G. N. Pass. Leave Daily	Passenger Leave Daily	Express Leave Daily				Express Arrive Daily	Passenger Arrive Daily	G. N. Pass. Arrive Daily	Fast Freight Arrive Daily	Way Freight Arrive Daily Exc. Sunday	G.N. Freight Arrive Daily
10442 WCTY			9.10 PM			7.05 AM	47.4	N.....STARBUCK.....Sa	156.6	9.10 PM			4.15 AM		
8300 W			9.45		s 7.25		55.6	D.....RIPARIA.....Xs	148.4	s 8.50			3.40		
1300			10.25			7.45	63.8	.....Canyon.....	140.2	8.33			3.05		
1649 W			10.45			7.57	68.9	.....Hay.....	135.1	8.23			2.45		
1300			11.15			8.17	75.3	.....Meeker.....	128.7	8.11			2.20		
2540 Y			11.35		f 8.27		80.2	D.....LA CROSSE.....Wn	123.8	f 8.01			1.55		
880			11.45 PM			8.31	82.4	.....Sutton.....	121.6	7.57			1.45		
1748W(Weat)Y			12.15 AM		s 8.47		90.7	N.....WINONA.....Wa	113.3	s 7.42			1.15 AM	11.55 AM	
1440			12.45		f 9.01		96.6	D.....Endicott.....Di	107.5	f 7.30					
725 W(Weat)			1.15		f 9.15		103.5	.....Lee.....	100.5	7.18				11.05	
1625			1.35		f 9.23		107.2	.....Diamonds.....	96.8	7.13				10.35	
1993			1.55		f 9.33		111.1	.....Mockonema.....	92.9	7.06				9.55	
3470			2.05		s 9.40		113.6	.....Crest.....	90.5	7.01				9.40	
8832 WCTO			2.20 2.50			9.48 9.58	116.0	N.....COLFAX.....Ca	88.0	{ 6.53 6.43				9.00	
1000			3.20		f 10.12		122.2	.....Glenwood.....	81.8	f 6.30				8.15	
1428 W (East)			3.50		s 10.26		128.4	D.....Elberton.....Dc	75.6	s 6.19				7.50	
3373			4.20		s 10.42		133.8	D.....Garfield.....Gr	70.2	s 6.09				7.25	
7.90							184.2	.....S. & P. Crossing.....	69.8						
							137.4	.....Walters.....	66.6						
							142.1	.....S. & P. Crossing.....	61.9						
3718 W			5.10		s 11.03		143.3	D.....Farmington.....Fm	60.7	s 5.50				6.50	
2050 Y		3.35 PM	5.35		s 11.16		149.1	.....SELTICE.....	54.9	s 5.39			9.45 PM	6.25	
9900 OYOWT		4.00 PM	6.00 6.30		4.50 PM s 11.28 11.33		154.8	N.....TEKOA.....K	49.2	s 5.25	11.28 AM		{ 9.20 8.55	6.00 AM	
2840			7.05		s 5.10	s 11.50 AM	162.0	D.....Latah.....Na	42.0	s 5.10	s 11.10		8.25		
1700 W			7.50		s 5.27	s 12.08 PM	170.4	D.....Fairfield.....G	33.6	s 4.55	s 10.52		7.55		
3315 T			8.25		s 5.42	s 12.20	177.1	D.....Rockford.....Rd	26.9	s 4.39	s 10.38		7.25		
1990 W (East)			9.15		f 6.00	f 12.40	185.5	.....Freeman.....	18.5	4.23	f 10.20		6.50		
1662			10.00		f 6.15	f 1.00	194.5	.....Chester.....	9.5	3.57	f 10.00		6.15		
336							201.1	.....East Spokane.....	2.9						
							202.2	.....N. P. Crossing.....	1.8						
	1.15 PM		10.30		s 6.35	s 1.15	203.0	N.....Great Northern Junction.....Jc	1.0	3.43	s 9.45	2.11 PM	5.35		10.45 AM
							203.6	.....S. F. & N. Crossing.....	0.4						
17085 WOT	1.30 PM		10.35 AM		3.25 PM	6.40 PM	204.0	N.....SPOKANE.....Au	0.0	3.40 PM	9.40 AM	2.05 PM	5.30 PM		10.30 AM
	Arrive Daily	Arrive Daily Exc. Sunday	Arrive Daily	Arrive Daily	Arrive Daily	Arrive Daily				Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily Exc. Sunday	Leave Daily
	(0.15)	(0.25)	(13.25)	(0.6)	(1.50)	(6.15)	(158.6)			(5.30)	(1.48)	(0.6)	(10.45)	(5.55)	(0.15)

Via Pleasant Valley District.

East-bound Trains will have absolute right to the track over West-bound Trains of the same or inferior class.—See Rule 84.

No. 1 has right of track against No. 6.

Junction Switches at Winona and Seltice will be left set and locked for Main Line, Sixth District.

Junction Switch at Coifax will be left set and locked for Moscow District.

Great Northern train and enginemen will be governed by rules and regulations of the O. R. & N. Co. while using O. R. & N. track.

DAYTON DISTRICT.—Bolles and Dayton.—WASHINGTON DIVISION.

EASTWARD				Time Table No. 67.		WESTWARD				
Length of sidings in feet and location of scales, water, fuel, and turning stations.		Second Class		Distances from Bolles	May 17, 1896	Distances from Dayton	Second Class			
		54	52				51	53		
		Mixed	Mixed				Mixed	Mixed		
		Leave Daily	Leave Daily				Arrive Daily	Arrive Daily		
3152	W T	10.20 PM	6.00 AM	0.0	D..... BOLLES..... Ga	12.6	5.40 AM	10.05 PM		
1942		10.30	6.13	3.3	D..... Waitsburg..... Bg	9.3	5.25	9.50		
1210		10.45	6.25	6.1	Huntsville	6.5	5.15	9.40		
1018		10.58	6.38	8.7	W. & C. R. Crossing	3.9				
8005	W C T	11.10 PM	6.50 AM	9.5	Longs	3.1	5.02	9.27		
				12.6	D..... DAYTON..... Da	0.0	4.50 AM	9.15 PM		
		Arrive Daily	Arrive Daily				Leave Daily	Leave Daily		
		(0.50)	(0.50)		(12.6)		(0.50)	(0.50)		

East-bound Trains will have absolute right to the track over West-bound Trains of the same or inferior class.—See Rule 84.

No. 51 has right of track against No. 52.

No. 53 has right of track against No. 54.

Train Order Signal Lamp will not be kept burning after the passage of Regular trains for the day.

POMEROY DISTRICT.—Starbuck and Pomeroy.—WASHINGTON DIVISION.

EASTWARD				Time Table No. 67.		WESTWARD				
Length of sidings in feet and location of scales, water, fuel, and turning stations.		Second Class		Distances from Starbuck	May 17, 1896	Distances from Pomeroy	Second Class			
		62					61			
		Mixed					Mixed			
		Leave Daily	Exc. Sunday				Arrive Daily	Exc. Sunday		
10442	WCYT	7.15 AM		0.0	N..... STARBUCK..... Sa	29.9		7.00 PM		
1270		7.50		8.0	Delany	21.9		6.25		
1273	W	8.15		14.6	Chard	15.3		6.00		
1589		8.50		24.5	Zumwalt	5.4		5.25		
4506	W T	9.15 AM		29.9	D..... POMEROY..... Py	0.0		5.00 PM		
		Arrive Daily	Exc. Sunday				Leave Daily	Exc. Sunday		
		(2.00)			(29.9)		(2.00)			

East-bound Trains will have absolute right to the track over West-bound Trains of the same or inferior class.—See Rule 84.

Train Order Signal Lamp will not be kept burning after the passage of Regular trains for the day.

CONNELL DISTRICT.—LaCrosse and Connell.—WASHINGTON DIVISION.

EASTWARD				Time Table No. 67.		WESTWARD			
Length of sidings in feet and location of scales, water, fuel, and turning stations.	Second Class			Distances from La Crosse	STATIONS	Distances from Connell	Second Class		
	72 Mixed						71 Mixed		
	Leave Wed. only						Arrive Wed. only		
2540 C Y		1.45 PM	0.0	D..... LA CROSSE	53.0			5.45 PM	
1110		2.05	4.6	4.6 Pampa	48.4			5.25	
W(West)		2.50	13.3	8.7 Hooper	39.7			4.45	
1532		3.45 PM	23.4	10.1 Washuena	29.6			3.50 PM	
W(East)			35.2	11.8 Kahlotus	17.8				
1755 T Y			43.9	8.7 Sulphur	9.1				
			53.0	9.1 N..... CONNELL	0.0				
		Arrive Wed. only						Leave Wed. only	
		(2.00)			(53.0)			(1.55)	

East-bound Trains will have absolute right to the track over West-bound Trains of the same or inferior class.—See Rule 84.

MOSCOW DISTRICT.—Colfax and Moscow.—WASHINGTON DIVISION.

EASTWARD				Time Table No. 67.		WESTWARD					
Length of sidings in feet and location of scales, water, fuel, and turning stations.	Second Class		First Class		Distances from Colfax	STATIONS	Distances from Moscow	First Class		Second Class	
	84 Freight		82 Passenger					81 Passenger		83 Freight	
	Leave Daily		Leave Daily					Arrive Daily		Arrive Daily	
8832 WCTO	11.00 AM		7.45 PM	0.0	N..... COLFAX	27.9		9.55 AM		6.20 PM	
640	11.33		f 8.05	7.6	7.6 Riverside	20.3	f	9.35		5.48	
1317 W(West)	11.41		f 8.10	9.6	2.0 Shawnee	18.3	f	9.30		5.40	
1757 W(East)	11.55 AM		f 8.17	12.7	3.1 Guy	15.2	f	9.23		5.25	
2847	12.20 PM		s 8.31	18.6	5.9 Pullman	9.3	s	9.10		5.00	
				19.2	0.6 S. & P. Crossing	8.7					
770	12.40		f 8.45	23.8	4.6 Garrison	4.1	f	8.58		4.33	
5120 W T	1.00 PM		8.55 PM	27.9	4.1 D..... MOSCOW	0.0		8.50 AM		4.20 PM	
	Arrive Daily		Arrive Daily				Leave Daily		Leave Daily		
	(2.00)		(1.10)		(27.9)		(1.05)		(2.00)		

East-bound Trains will have absolute right to the track over West-bound Trains of the same or inferior class.—See Rule 84.

Train Order Signal Lamp will not be kept burning after the passage of Regular trains for the day.

No. 82 will not leave Colfax until No. 83 arrives.

CŒUR D'ALENE DISTRICT.—Tekoa and Burke.—WASHINGTON DIVISION.

EASTWARD						Time Table No. 67.		WESTWARD								
Length of sidings in feet and location of scales, water, fuel, and turning stations.	Second Class		First Class		Distances from Tekoa.	May 17, 1896		Distances from Burke	First Class		Second Class					
	96		5			STATIONS			6		93		95			
	Mixed	94	Passenger						Passenger	Freight		Mixed				
	Leave Daily	Leave Daily Exc. Sunday	Leave Daily						Arrive Daily	Arrive Daily Exc. Sunday	Arrive Daily					
9900 OWCTY		6.45 AM		11.45 AM	0.0	N.....	TEKOA.....K	86.5	4.45 PM		7.30 PM					
1604		7.15		f 12.00 PM	7.0		Lovell	79.5	f 4.28		7.00					
1565		7.35		f 12.10	12.2		Watts	74.3	f 4.17		6.35					
1303		7.50		f 12.20	15.6		Plummer	70.9	f 4.08		6.20					
1540 W		8.20		s 12.35	22.4		Chatcolet	64.1	s 3.50		5.40					
850		8.45		f 12.50	27.9		Lacon	58.6	f 3.35		5.20					
264		8.55		s 12.57	30.5	D.....	Harrison.....Rn	56.0	f 3.27		5.05					
1568		9.10		f 1.04	33.6		Anderson	52.9	f 3.20		4.50					
1388 W		9.50		f 1.26	44.9		Lane	41.6	f 3.02		4.05					
1842 W (Fast)		10.35		f 1.50	57.1		Cataldo	29.4	f 2.40		3.10					
					57.3		C. R. & N. Crossing	29.2								
750		10.55		f 2.00	62.2		Enaville	24.3	f 2.28		2.50					
					66.2		C. R. & N. Crossing	20.3								
603					67.4		Sierra Nevada Mine	19.1								
3040		11.25		s 2.15	68.8	D.....	Wardner.....Dn	17.7	s 2.15		2.15					
2793		11.55 AM		s 2.35	75.5	D.....	Osborne.....Sw	11.0	s 2.00		1.25					
7524 WCTO	2.55 PM	12.15 PM		2.45 PM	79.8	D.....	WALLACE.....Wc	6.7	1.50 PM		1.00 PM	1.40 PM				
					80.0		N. P. Crossing	6.5								
690	3.20				83.7		Gem	2.8				1.10				
660					84.0		Frisco	2.5								
552	3.45 PM				86.5	D.....	BURKE.....B	0.0				12.45 PM				
		Arrive Daily	Arrive Daily Exc. Sunday	Arrive Daily					Leave Daily		Leave Daily Exc. Sunday	Leave Daily				
		(0.50)	(5.30)	(3.00)				(86.5)	(2.55)		(6.30)	(0.55)				

East-bound Trains will have absolute right to the track over West-bound Trains of the same or inferior class.—See Rule 84.

No. 6 has right of track against No. 5.

Train Order Signal Lamp will not be kept burning after the passage of Regular trains for the day.

ISSUED BY RECEIVER OREGON RAILWAY & NAVIGATION CO.

GENERAL NOTICE.

It is of the utmost importance that proper rules for the government of the employes of a railroad company should be literally and absolutely enforced, in order to make such rules efficient. If they cannot or ought not to be enforced, they ought not to exist. Officers or employes whose duty it may be to make or enforce rules, however temporary or unimportant they may seem, should keep this clearly in mind. If, in the judgment of anyone whose duty it is to enforce a rule, such rule cannot or ought not to be enforced, he should at once bring it to the attention of those in authority.

All employes should be required to be polite and considerate in their intercourse with the public. The reputation and prosperity of a company depend greatly upon the promptness with which its business is conducted and the manner in which its patrons are treated by its employes.

GENERAL RULES.

Supersedes all previous rules. 1. The Rules herein set forth apply to and govern all roads operated by the Oregon Railway & Nav. Company.

They shall take effect May 17th, 1896, and supersede all prior rules and instructions, in whatsoever form issued, which are inconsistent therewith.

Special instructions. 2. In addition to these rules, the Time-tables will contain special instructions, as the same may be found necessary. Special instructions, whether in conflict with these rules or not, which may be given by proper authority, whether upon the Time-tables or otherwise, shall be fully observed while in force.

Enforcement of obedience. 3. The head of each department must be conversant with the rules, supply copies of them to his subordinates, see that they are understood, enforce obedience to them, and report to the proper officer all violations and the action taken thereon.

Copy of rules at hand. 4. Every employe of this company whose duties are in any way prescribed by these rules must always have a copy of them at hand when on duty, and must be conversant with every rule. He must render all the assistance in his power in carrying them out, and immediately report any infringement of them to the head of his department.

Violation. 5. The fact that any person enters or remains in, the service of the company will be considered as an assurance of willingness to obey its rules. No one will be excused for the violation of any of them, even though not included in those applicable to his department.

Cases of doubt. 6. If in doubt as to the meaning of any rule or special instructions, application must be made at once, to the proper authority, for an explanation. Ignorance is no excuse for neglect of duty.

Promotion. 7. All employes will be regarded as in the line of promotion, advancement depending upon the faithful discharge of duty, and capacity for increased responsibility.

Lost time. 8. If an employe should be disabled by sickness or other cause, the right to claim compensation will not be recognized. An allowance, if made, will be a gratuity justified by the circumstances of the case, and the employe's previous good conduct.

Jurisdiction. 9. Every employe, while on duty connected with the trains on any division of the road, is under the authority, and must conform to the orders, of the superintendent of that division.

Uniforms and badges. 10. Employes must wear the prescribed badges or uniforms while on duty.

Mail Agents and others. 11. Mail-agents, express messengers, parlor and sleeping car conductors and porters, news agents and persons in charge of individual cars are subject, while on duty, to the rules governing employes of of the company.

STANDARD TIME.

Standard Time. 12. Observatory Standard Time is the only recognized standard time, and will be transmitted from Lick Observatory, California, to the designated offices.

13. The Standard Time will be telegraphed to all points from Lick Observatory at 12 o'clock noon, daily. Time used shall be known as "Pacific Time."

Standard Clocks. 14. The Standard Time for each district shall be that of the clock in the Train Dispatcher's office.

Station Clocks. 15. Where station clocks are provided, station agents must see that they show correct time; but trainmen and enginemen must not take time from such clocks unless they are also designated as Standard Clocks.

Standard Watches. 16. Each conductor and engineman must have a reliable watch, which has been examined and certified to on the form attached hereto, by a responsible watchmaker, and must file such certificate with the proper designated officer before he is allowed to take charge of a train or engine. Watches must be examined and certificates renewed every 3 months.

(Form of Certificate.)

WATCHMAKER'S CERTIFICATE.

Form of certificate. This is to certify that on 18.... the watch of employed as on the O. R. & N. Company has been examined and found to be a reliable and accurate time-piece, and in such repair as will, in my judgment, with proper usage, enable it to run within a variation not to exceed thirty seconds per week.

Name of Maker.....
Brand.....
Number of Movement.....
Gold or silver.....
Open or hunting case.....
Stem or key winding.....
Signed,

.....
Watchmaker.

Address.....

Regulating watches. 17. Each conductor and engineman must regulate his watch by the designated Standard Clock before starting on each trip, and register in the Train Register Book his name and the time at which he regulated his watch.

Comparing watches. 18. Conductors and enginemen whose duties prevent them from having access to a Standard Clock must compare daily with, and regulate their watches by, those of conductors and enginemen who have Standard Time, and have registered their names as above provided.

TIME - TABLES.

Time table.

19. A Time-table is the general law governing the arriving and leaving time of all regular trains at all stations. Time-tables will be issued from time to time, as may be necessary. The times given for each train on the Time-table is the Schedule of such train.

Copies of Time-tables will be furnished to all concerned. Train Dispatchers must know that every conductor and engineman has a copy of same before allowing them to occupy main track after it has taken effect, and must ascertain from conductor or engineman if such Time-table has been received; such inquiry and answer to be in the following form and copied in train order book:

Have you received employes' Time-table No. to take effect at. M. (date).

I have received employes' Time-table No. to take effect at. M. (date).

Taking effect.

20. Each Time-table, from the moment it takes effect, supersedes the preceding Time table, and all special instructions relating thereto; and trains shall be run as directed thereby, subject to the rules. All regular trains on the road running according to the preceding Time-table shall, **unless otherwise directed**, assume the times and rights of trains of corresponding numbers on the new Time-table.

Meeting and passing points.

21. Upon the Time-table not more than two sets of figures are shown for a train at any point. When two times are shown, the earlier is the arriving time and the later the leaving time. When one time is shown it is the leaving time, unless otherwise indicated.

Regular meeting or passing time is in **full-faced type**.

Both the arriving and leaving time of a train are in **full-faced type** when both are meeting or passing times, or when one or more other trains are to meet or pass it between those times.

In all cases trains are required to clear and follow as per rules 85 to 90 inclusive.

Signs and characters.

22. On the employes Time-table the words "daily," "daily, except Sunday," etc, printed at the head and foot in connection with a train, indicate how it shall be run. The figures given at intermediate stations shall not be taken as indicating that a train will stop unless the rules require it. The following signs placed before the figures indicate:

"s"—regular stop.

"f"—stop on signal to receive or discharge passengers or freight.

"M"—stop for meals.

"D"—day telegraph stations.

"N"—night telegraph stations.

"O"—scales.

"C"—coal.

"W"—water.

"T"—turn-tables.

"Y"—wyes.

Trains are designated by numbers and their class indicated on the Time-tables.

SIGNAL RULES.

SIGNALS.

Supply. **23.** Conductors, enginemen, firemen, brakemen, station agents, telegraph operators, switchmen, switchtenders, track foremen, road and bridge watchmen, and all other employes whose duties may require them to give signals must provide themselves with the proper appliances, and keep them in good order and always ready for immediate use.

Flags and lamps. **24.** Flags of the proper color must be used by day, and lamps of the proper color by night or whenever from fog or other causes the day signals cannot be clearly seen.

Colors. **25.** Red signifies **danger**, and is a signal to stop.

26. Green signifies **caution** and is a signal to go slowly.

27. White signifies **safety**, and is a signal to go on.

28. Green and white is a signal to be used to stop trains at flag stations for passengers or freight.

29. Blue is a signal to be used by car inspectors.

Torpedoes. **30.** An explosive cap or torpedo, placed on the top of the rail, is a signal to be used **in addition** to the regular signals.

The explosion of **one** torpedo is a signal to **stop** immediately; the explosion of **two** torpedoes is a signal to **reduce speed** immediately, and look out for a danger signal.

Fusees. **31.** A fusee is an **extra** danger signal, to be lighted and placed on the track at night, in cases of accident or emergency.

A train finding a fusee burning upon the track must come to a stop and not proceed until it is burned out.

Care must be taken not to throw off a fusee where it will do any damage by fire.

Danger. **32.** A flag or lamp swung across the track, a hat or any object waved violently by any person on the track, signifies danger, and is a signal to stop.

TRAIN SIGNALS.

Markers. **33.** Each train, while running, must display two green flags by day and two green lights by night, one on each side of the rear of the train, as Markers, to indicate the rear of the train. Yard engines will not display Markers.

Head and tail lights. **34.** Each train running after sunset, or when obscured by fog or other cause, must display the head-light in front, and two or more red lights in the rear. Yard engines must display two green lights instead of red, except when provided with a head-light on both front and rear.

Bell cord. **35.** Each car on a passenger train while running must be in communication with the engine. In the absence of an equivalent appliance, a bell-cord must be attached to the signal-bell of the engine, passing through or over the entire length of the train, and secured to the rear end of it.

Green. **36.** Two green flags by day and two green lights by night, displayed in the places provided for that purpose on the front of an engine, denote that the train is followed by another train, running on the same Schedule and entitled to the same Time-table rights as the train carrying the signals.

White. **37.** Two white flags by day and two white lights by night, displayed in the places provided for that purpose on the front of an engine, denote that the train is an extra. These signals must be displayed by all extra trains, but not by yard engines.

Blue. **38.** A blue flag by day and a blue light by night, placed at the end of a car or train denotes that car inspectors are at work under or about the car or train. The car or train thus protected must not be coupled to, or moved, until the blue signal is removed by the car inspectors.

When a car or train standing on a siding is protected by a blue signal, other cars must not be placed in front of it so that the blue signal will be obscured, without first notifying the car inspector, that he may protect himself, and not then until the signal is removed.

WHISTLE SIGNALS.

Whistle. **39.** One **long** blast of the whistle is the signal for approaching stations, railroad crossings and junctions (thus, —).

40. One **short** blast of the whistle is the signal to apply the brakes—stop (thus, —).

41. Two **long** blasts of the whistle is the signal to throw off the brakes (thus, — —).

42. Two **short** blasts of the whistle is an answer to any signal, except "train parted" (thus — —).

43. Three **long** blasts of the whistle (to be repeated until answered as provided in rule No. 62) is a signal that the train has **parted** (thus, — — —).

44. Three **short** blasts of the whistle, when the train is **standing** (to be repeated until answered, as provided in rule No. 61) is a signal that the train will back (thus, — — —).

45. Four **long** blasts of the whistle (thus, — — — —) is a signal to call in a flagman from the west.

Four **long** followed by one **short** blast of the whistle (thus, — — — — —) is the signal to call in a flagman from the east.

46. Four **short** blasts of the whistle is the engineman's call for signals from switch-tenders' watchmen, trainmen and others (thus, — — — —).

47. Five **short** blasts of the whistle is a signal to the flagman to go back and protect the rear of the train (thus, — — — — —).

48. One long followed by two short blasts of the whistle is a signal to be given by trains on single track, when displaying signals for a following train, to call the attention of trains of the same or inferior class to the signals displayed (thus, — — —).

49. Two long, followed by two short, blasts of the whistle is the signal for approaching road crossings at grade (thus, — — — — —). This signal will also be used where the view is obstructed by curves in case of trains running ahead of time, night trains when behind time after daylight and extra trains, at least once every mile.

50. A succession of short blasts of the whistle is an alarm for persons or cattle on the track, and calls the attention of trainmen to danger ahead.

50-a. Two short blasts given three times is the signal for air brakes sticking. See air brake rules.

BELL-CORD SIGNALS.

Bell cord. 51. One tap of the signal-bell, when the train is **standing**, is the signal to start.

52. Two taps of the signal-bell, when the train is **running**, is the signal to stop at once.

53. Two taps of the signal-bell, when the train is **standing**, is the signal to call in the flagman.

54. Three taps of the signal-bell, when the train is **running**, is the signal to stop at the next station.

55. Three taps of the signal-bell, when the train is **standing**, is the signal to back the train.

56. Four taps of the signal-bell, when the train is **running**, is the signal to reduce speed.

57. When one tap of the signal-bell is heard while a train is **running**, the engineman must immediately ascertain if the train is parted, and if so, be governed by Rule No. 103.

58. Signals of the same number of sounds shall have the same significance when given by other appliances than bell-cords and signal-bells.

LAMP SIGNALS.

Lamps. 59. A lamp swung across the track is the signal to stop.

60. A lamp raised and lowered vertically is the signal to move ahead.

61. A lamp swung vertically in a circle across the track, when the train is **standing**, is the signal to move back.

62. A lamp swung vertically in a circle at arm's length across the track, when the train is **running**, is the signal that the train has parted.

63. A flag, or the hand, moved in any of the directions given above, will indicate the same signal as given by a lamp.

FIXED SIGNALS.

Fix'd Signals. 64. Fixed signals are placed at junctions, railroad crossings, stations, and other points that require special protection. Special instructions will be issued indicating their position and use.

RULES GOVERNING USE OF SIGNALS.

Imperfect Signals. 65. A signal imperfectly displayed, or the absence of a signal at a place where a signal is usually shown, must be regarded as a danger signal, and the fact reported to the Superintendent.

Whistle prohibited. 66. The unnecessary use of the whistle is prohibited; when necessary in shifting at station and in yards, the engine bell should be rung, and the whistle used only when required by rule or law, or when necessary to prevent accident.

67. The whistle must not be sounded while passing a passenger train, except in cases of emergency or danger, or when required by the rules.

Acknowledge signals. 68. When a danger signal (except a fixed signal) is displayed to stop a train, it must be acknowledged as provided in rule No. 42.

Engine bell. 69. The engine-bell must be rung before starting a train, and when running through tunnels and the streets of towns or cities.

70. The engine-bell must be rung for a quarter of a mile before reaching every road crossing at grade, and until it is passed; and the whistle must be sounded at all whistling-posts.

Display signals. 71. When two or more engines are coupled to the head of a train, the leading engine only shall display the signals as provided in Rules No. 36 and 37.

Responsibility. 72. One flag or light displayed as a classification signal will be regarded the same as if two were displayed; but conductors and enginemen will be held responsible for the proper display of all train signals.

When pushing trains. 73. When a train is being pushed by an engine (except when shifting and making-up trains in yards) a white light must be displayed on the front of the leading car at night, or when the train is obscured by fog or other cause.

Changing tail lights. 74. When a train turns out to meet or pass another train, the red lights must be removed and green displayed as soon as the track is clear; but the red must again be displayed before returning to its own track.

Covering head lights. Head-lights on engines when on side tracks or at the end of double tracks, waiting for trains, must be covered as soon as the track is clear and the train has stopped.

In case there is more than one train to take the siding, the engineman of the first train will not cover the headlight until all trains are on the siding and the switch set for the main track. The main track will be considered obstructed while the headlight is shown, but this will not relieve conductors from protecting their trains by flag.

Signals at flag stations. 75. The combined green and white signal is to be used to stop a train only at the flag stations designated by the schedule of that train. When it is necessary to stop a train at a point that is not a flag station for that train, a red signal must be used.

Watchmen's signals. 76. White signals must be used by watchmen at public road and street crossings to prevent persons and teams from crossing when trains are approach-

ing. Danger signals must be used only when necessary to stop trains.

Torpedoes. 77. Torpedoes must not be placed near stations or road crossings, where persons are liable to be injured by them.

Uniform signals. 78. All signals must be used strictly in accordance with the rules, and trainmen and enginemen must keep a constant lookout for signals.

TRAIN RULES.

CLASSIFICATION OF TRAINS.

Designation. 79. All trains are designated as regular or extra. Regular trains are those represented on the Time-table, and may consist of one or more sections. All sections of a train, except the last, must display signals as provided in Rule No. 36. Extra trains are those not represented on the Time-table. An engine without cars, in service on the road, shall be considered a train.

Classification. 80. All regular trains are classified on the Time-table with regard to their priority of right to the track; trains of the first-class being superior to those of the second, and all succeeding classes, and trains of the second class being superior to those of the third and all succeeding classes; and so on indefinitely. The terms passenger, freight or mixed are descriptive and do not refer to class.

Irregular trains. 81. Extra trains may be distinguished as:
Passenger Extra, or Special;
Freight Extra;
Work Train Extra.

Classification right. 82. All extra trains are of inferior class to all regular trains of whatever class.

MOVEMENT OF TRAINS.

83. A train of inferior class must in all cases keep out of the way of a train of superior class.

Direction right. 84. On single track, all trains in one direction, specified in Time-table, have the absolute right of track over trains of the same class running in the opposite direction.

Taking siding. 85. When trains of the same class meet on single track, the train not having right of track must take the siding and be clear of the main track before the leaving time of the opposing train; but such train must not pass the switch to back in on a siding, until after the arrival of the opposing train, unless otherwise directed by special instructions. When necessary to back in on the siding, before passing the switch, a flagman must be sent out in the direction of the opposing train as per rule No. 99.

Clearance. 86. When a train of inferior class meets a train of superior class on single track, the train of inferior class must take the siding and clear the train of superior class ten minutes. A train of inferior class must keep ten minutes off the time of a train of superior class following it.

87. A train or engine must not leave a station to follow a train or engine until **ten** minutes after departure of such train or engine unless some form of block signal is used.

88. All trains running in the same direction must ~~not~~ not less than **ten** minutes apart, unless some form of block signal is used.

Responsibility.

89. When two or more trains are run in company they must be kept **ten (10)** minutes apart, except at meeting points, where they may close up to allow following sections to come in, but always with great care and train under perfect control. At such points the responsibility for a collision rests with the following train. **The following train must approach all Stations carefully expecting to find the leading train at the Station.** When fog, darkness, dangerous places, or other circumstances, render it necessary, the forward train, as an extra precaution, will send out a flagman; **but it must be distinctly understood that this does not relieve the following train from responsibility for a collision.**

Conductors and enginemen will be held equally responsible for the violation of any of the rules governing the safety of their trains, and they must **take every precaution for the protection of their trains, even if not provided for by the rules.**

Clear superior trains.

90. No train must leave a station expecting to meet or be passed at the next station by a train having the right of track, unless it has full schedule time to make the meeting or passing point, and clear the track by the time required by Rules Nos. 85 and 86.

Clear main track.

91. A train not having right of track must be entirely clear of the main track by the time it is required by rule to clear an opposing train or a train running in the same direction; failing to do so, it must be immediately protected as provided in Rule No. 99.

Ahead of time.

92. Except at meeting or passing points, as provided in Rules Nos. 85 to 91 inclusive, no train must arrive at a station in advance of its schedule arriving time, when shown.

No train must leave a station in advance of its schedule leaving time.

Caution stop.

93. All trains must **stop** at schedule meeting or passing points on single track, if the train to be met or passed is of the same class, unless the switches are plainly seen to be right, and the track clear. The point at which a train should **stop** is the switch used by the train to be met or passed in going on the siding.

When the expected train of the same class is not found at the schedule meeting or passing point, the train having right of track must approach all sidings prepared to stop, until the expected train is met or passed.

Junctions, railroad crossings and drawbridges.

94. All trains must approach the end of double track, junctions, railroad crossings at grade, and drawbridges, prepared to stop, and must not proceed until the switches or signals are seen to be right or the track is plainly seen to be clear. Where required by law, all trains must stop.

Leaving terminals

95. No train must leave a junction, a terminal, or other starting point, or pass from double to single track, until it is ascertained that all trains due which have the right of track against it, have arrived.

Protecting Passenger trains.

96. When a passenger train is detained at any of its usual stops more than **five** minutes, the flagman must go back with danger signals and protect his train, as provided in Rule No. 99; but if it stops at any unusual point, the flagman must immediately go back far enough to be seen from a train moving in the same direction when it is at least one-half mile (sixteen telegraph poles) from the rear of his own train, and if the stop is over **five** minutes, he must be governed by Rule No. 99.

When it is necessary to protect the front of the train, the same precautions must be observed by the fireman. If the fireman is unable to leave the engine, the front brakeman must be sent in his place.

Protecting freight trains.

97. When a freight train is detained at any of its usual stops more than **five** minutes, where the rear of the train can be plainly seen from a train moving in the same direction at a distance of at least two-thirds of a mile (twenty telegraph poles), the flagman must go back with danger signals not less than one-eighth of a mile (four telegraph poles), and as much farther as may be necessary to protect his train; but if the rear of his train cannot be plainly seen at a distance of at least two-thirds of a mile, or if it stops at any point that is not its usual stopping place, the flagman must go back not less than one-half mile, and if his train should be detained until within **ten** minutes of the time of a passenger train moving in the same direction, he must be governed by Rule No. 99.

When it is necessary to protect the front of the train, the same precautions must be observed by the fireman. If the fireman is unable to leave the engine, the front brakeman must be sent in his place.

Flagmen designated.

98. When it is necessary for the flagman to go back to protect the rear of his train, the next brakeman must immediately take the flagman's position on the train, and remain there until relieved by the flagman; and on passenger trains the baggage master must take the place of the front brakeman whenever necessary.

Flagging, torpedoes

99. When a train is stopped by an accident or obstruction, the flagman must immediately go back with danger signals to stop any train moving in the same direction. At a point one-fourth of a mile from the rear of his train he must place **one** torpedo on the rail; he must then continue to go back at least one-half mile from the rear of his train and place **two**

torpedoes on the rail, ten yards apart (one rail length), when he may return to a point one-fourth of a mile from the rear of his train, and he must remain there until recalled by the whistle of his engine; but if a passenger train is due within **ten** minutes, he must remain until it arrives. When he comes in, he will remove the torpedo nearest to the train, but the **two** torpedoes must be left on the rail as a caution signal to any following train.

If any accident or obstruction occurs upon single track, and it becomes necessary to protect the front of the train, or if any other track is obstructed, the fireman must go forward and use the same precautions. If the fireman is unable to leave the engine, the front brakeman must be sent in his place.

99a. When a flagman is recalled and there is not a clear view for a quarter of a mile (eight telegraph poles) in rear of train, the train must start immediately on sounding of the whistle recalling flagman and be moved ahead, at a speed of not less than six miles per hour, until it reaches a point where the track is straight for a quarter of a mile (eight telegraph poles) in its rear. A flagman must always bear in mind that the time of his return to his train is the time of greatest risk. He must be attentive, and should he see or hear a train approaching, he must remain and use every exertion to stop it in time to prevent accident. In foggy, stormy or snowy weather, or in vicinity of curves or descending grades the number of torpedoes used should be increased.

When a train is flagged the engineman must obtain a thorough explanation of the cause before proceeding—coming to a full stop and picking up flagman if necessary.

Crossing double track.

100. Freight trains having work to do on any other track may cross over if no passenger train is due, provided no approaching freight train is in sight; and also provided that a flagman has been sent with danger signals, as provided in Rule No. 99, not less than one-half mile (sixteen poles), in the direction of the expected train.

Crossing on double track to pass trains.

101. When a freight train on double track turns out on to the opposite track to allow a passenger train running in the same direction to pass, and, while waiting, a passenger train from the opposite direction arrives, the freight train may cross back and allow it to pass, provided the other passenger train is not in sight; and also provided that a flagman has been sent with danger signals, as provided in Rule No. 99, not less than one-half mile in the direction of the expected train.

102. When it is necessary for a freight train on double track to turn out on to the opposite track to allow a passenger train running in the same direction to pass, and a passenger train running in the opposite direction is due, a flagman must be sent back with the danger signals, as provided in Rule No. 99, not less than one-half mile in the direction of the following train, and the freight train must not

cross over until one of the passenger trains arrives. Should the following passenger train arrive first, a flagman must be sent forward on the opposite track with danger signals, as provided in Rule No. 99, not less than one-half mile in the direction of the overdue passenger train before crossing over. Great caution must be used, and good judgment is required to prevent detention to either passenger train. The preference should always be given to the passenger train of superior class.

Trains parting.

103. If a train should part while in motion, trainmen must use great care to prevent the detached parts from coming into collision. Enginemen must give the signal as provided in Rule No. 43, and keep the front part of the train in motion until the detached portion is stopped.

The front portion will have the right to go back regardless of all trains, to recover the detached portion, first sending a flagman with danger signals one-half mile in the direction in which the train is to be backed, and running with great caution, at a speed not exceeding four miles per hour. On single track all the precautions required by the Rules must also be taken to protect the train against opposing trains. **The detached portion must not be moved or passed around until the front portion comes back.** This rule applies to trains of every class.

An exception will only be made to the above when it is known that the detached portion has been stopped and when the whole occurrence is in plain view, no curves or other obstructions intervening, so that signals can be seen from both portions of the train. In that event the conductor and enginemen may arrange for the re-coupling, using the greatest caution.

Pushing trains.

104. When a train is being pushed by an engine (except when shifting and making up trains in yards) a flagman must be stationed in a conspicuous position on the front of the leading car, so as to perceive the first sign of danger and immediately signal the engineman.

Overdue trains.

105. A train starting from a station or leaving a junction, when a train of the same class running in the same direction is overdue, will proceed on its own time and rights, and the overdue train will run as provided in Rule 88 or 89.

On other train's time.

106. A train which is delayed, and falls back on the time of another train of the same class, does not lose its rights.

Twelve hour rule.

107. Regular trains twelve hours or more behind their schedule time lose all their rights.

Running around.

108. A train overtaking another train of the same or superior class, **disabled so that it cannot move**, will run around it, assuming the rights and taking the orders of the disabled train to the next telegraph office which is open, where it will report to the Superintendent. The disabled train will assume

the rights of the last train passing it, till the next telegraph office is reached.

Orders in writing.

109. All messages or orders respecting the movement of trains or the condition of track or bridges must be in writing.

Orders for signal.

110. Trains must not display signals for a following train without an order from the Superintendent.

Extra trains.

111. Extra trains must not be run on single track without an order from the Superintendent. On the arrival of an extra train at its appointed destination, or on its quitting the use of the road when authorized to run back and forth, the conductor (or engineer, in case of an engine or train without a conductor) shall notify the Superintendent to that effect in writing, to be sent by telegraph and placed on file by the sending operator, and all its rights to run shall then expire.

Taking down signals.

112. When signals displayed for a following train on single track are taken down at any point before the following train arrives, the conductor must inform the Superintendent promptly by telegraph, and also the operator or switchtender; and the latter, unless there is some other provision for the purpose, must notify all opposing trains of the same or inferior class leaving that point before the train arrives for which signals were displayed.

If signals are taken down at a point where there is no operator, switchtender, or other provision for the purpose, the conductor must notify all opposing trains of the same or inferior class until he reaches the next telegraph office, when he must inform the Superintendent; and the operator, unless there is some other provision for the purpose, must notify all opposing trains of the same or inferior class until directed otherwise by the Superintendent.

If the train for which signals were displayed leaves the main line at a point where there is no operator, switchtender, or other provision for the purpose, a flagman must be left to notify opposing trains that it has arrived.

Work trains.

113. Work trains will be run as extras under special orders, and will be assigned working limits.

Approaching stations.

114. Great care must be exercised by the trainmen of a train approaching a station where any train is receiving or discharging passengers.

115. Enginemen must observe trains on the opposite track, and if they are running too closely together call attention to the fact.

Finding on engine, etc.

116. No person will be permitted to ride on engines, or in baggage, mail, or express cars, except employes, in the discharge of their duties, without a written order from the proper authority.

Responsibility for switches.

117. Conductors will be held responsible for the proper adjustment of the switches used by them and their trainmen, except where switchtenders are stationed.

Whoever opens a switch shall remain at it until it is closed, unless relieved by some other competent employe.

When there is more than one train to use a switch it must not be left open unless one of the trainmen of the following train is at the switch and takes charge of it.

At meeting or passing points, the employe attending the switch, will, after locking it to main track, take position on opposite side of track from the switch-stand, and remain there until the expected train has passed.

Except to prevent accident, switches must never be turned when an engine or car is on slide rail.

Reports.

118. Accidents, detention of trains, failure in the supply of water or fuel, or defects in the track or bridges must be promptly reported by telegraph to the Superintendent.

Leaving signal.

119. No train shall leave a station without a signal from its conductor.

Taking safe side.

120. In all cases of doubt or uncertainty, take the safe course and run no risks.

SPECIAL RULES.

Exclusiv' service required.

200. Each person in the employ of the Company is to devote himself exclusively to its service, attending during the prescribed hours of the day or night, and residing wherever he may be required.

Not to use Company credit.

201. Unless appointed to do so, he is not to receive money on the Company's account. To use the credit of the Company is forbidden, unless special authority is given by the proper official.

202. Ties, timber, coal or other material (whether old or new), must not be taken for the use of employes or others.

Report theft, misconduct or negligence.

203. All employes, especially those in places of trust, are required to report any misconduct or negligence affecting the interest or safety of the Company, and withholding such information, will be considered a proof of negligence or indifference, and treated accordingly.

Company property.

204. Employes leaving the Company's service must deliver up the property entrusted to their care, or at any time when demanded by proper authority.

Gentlemanly deportment enjoined.

205. Persons having control of men must never curse or abuse them. Boisterous, profane or vulgar language is forbidden. Employes must not enter into altercation with any person, no matter what provocation may have been given, but will make note of the facts and report to their immediate superiors.

Testimonials and gratuities forbidden.

206. Employes are forbidden to offer testimonials to their superiors either directly or indirectly, and those in authority will not accept such presents or testimonials. The acceptance of gratuities or rewards from passengers or other patrons of the Company is forbidden.

Drinking and smoking prohibited.

207. The habitual use of Intoxicating Drink by employes will be considered good cause for dismissal from the service. Smok-

ing is not allowed about the shops, station buildings and warehouses. Employes at stations and on passenger trains are prohibited from smoking when on duty.

Not to engage in other business.

208. No employe will be permitted to engage in other business, without the consent of the Head of the Department under whom he may be employed, approved by the General Manager.

Absence without leave.

209. No employe will be allowed to absent himself from duty, without permission from proper authority.

Employes discharged not to be re-employed.

210. A person discharged from one Department or Division, shall not be employed in another without the written consent of the General Manager.

Exercise care to prevent accidents.

211. Every person, accepting a position with this Company, does so with the full knowledge of the dangers, incident to the operation of railways and agrees to exercise due care in the performance of his duties, to prevent accident to himself or others, and before using them to see that the machinery or tools which he is to use are in a safe condition to perform the services required.

Not to incur undue risk.

212. Employes are not expected to incur any risk of injury which they can avoid by the exercise of judgment and care.

Warning.

213. Employes are warned not to catch on to the front or rear end of the engine as it approaches them, or to jump on or off trains or engines moving at a high rate of speed, or to get between cars in motion to uncouple them, or to follow other dangerous practices.

Report defects.

214. Employes are directed to report to the Superintendent any defects in tracks, machinery or appliances of the road, liable to cause accident.

Not to remove appliances.

215. Employes must not remove any of the appliances of the engine or cars, for the sake of convenience in switching, thereby endangering those who are required to make couplings. Drawheads, drawbars and coupling apparatus must be examined before coupling is made, and if **there is anything dangerous**, the coupling must not be made but the fact reported to proper official.

Miller hook coupling.

216. Employes will not attempt to make a coupling if the car or engine is moving faster than a man ordinarily walks. In coupling the Miller hook with other styles of drawbars, first insert the link in the hook, using pin chained to the Miller platform.

Enginemen to handle engines carefully.

217. Enginemen must exercise great care in handling their engines while yardmen or others are making couplings, and give close attention to signals.

Passengers carried on last section only.

218. In case freight trains, on which passengers are allowed to be carried, are run in sections, the last section of the train only will be permitted to carry passengers, except persons in charge of live stock and freight, and unless otherwise ordered, the last section will do the local work. When the last section is more than one hour behind the first, pas-

sengers may be carried on the first section upon special orders from the Superintendent.

Light engine to run as first section.

219. When a light engine or special train is sent over the road on the time of a regular train, it shall be run as the first section.

Enginemen handle their own engines.

220. Enginemen must not allow others to handle their engines, except their own firemen, the engineman remaining upon the engine and being responsible.

Striking stock.

221. Enginemen must use great care to avoid striking stock. If necessary, bring the train to a full stop. Should any stock be killed or injured, the engineman must report same on the prescribed forms.

Full trains.

222. Conductors and enginemen are required to fill up trains to the full capacity of their engines.

Meeting under danger signals

223. In case trains under danger signals should meet between stations, the train nearest to a siding should be backed.

By running under danger signals it is understood to run at a rate not exceeding four (4) miles per hour with a flagman one-half mile in advance at all points where there is not a clear view of the track for at least one mile.

Whenever it becomes necessary to back a train, **it must be done with great care**, under cover of danger signals, and keeping a man constantly on rear car.

Speed of trains.

224. First-class trains when behind time must not exceed card time unless the condition of track, weather and all circumstances warrant their doing so with safety.

Other trains must not exceed the speed specified in special rules on any portion of the road without a special order from the Superintendent.

Conductors and enginemen are cautioned against reckless running. They must run steadily and uniformly, adhering as closely to time as due regard for safety permits.

Accountability for delays.

225. Conductors, enginemen and agents will be held to strict account for delays resulting from bad management of their own or on the part of those for whom they are responsible.

Promptness and dispatch are urgently enjoined in transacting business at stations, taking water, oiling, etc.

Station work should be done immediately on arrival.

Clear public crossings.

226. Conductors and switchmen must open their trains to clear all public crossings while standing at stations and in no case block a public crossing longer than five (5) minutes. When passenger trains are at stations, care must be taken by freight conductors and switchmen to open their trains to allow passage way for persons going to and from the passenger train.

In no case must a train be backed over a public crossing or highway unless there is a man on rear car to see that crossing is clear; nor must a car be cut loose and allowed to run over a public crossing or highway unless there is a man on car. At night the man referred to must display a light.

Storms.

227. In case of an extraordinary rain storm or high water, trains must be brought to a stop and a man sent out to examine bridges, trestles, culverts and other points liable to damage, before passing over.

Conductors will make careful inquiry at all stopping places, and when thought advisable make extra stops to ascertain the extent and severity of storms, taking no risk. In case of doubt as to safety of proceeding, they will place their trains upon the siding and remain there until certain it is safe to proceed.

Must leave flagman in case of anything wrong with roadway.

228. When a conductor discovers anything wrong with the track, bridges or culverts, which would be likely to cause an accident to a following train, he must not rely **wholly** upon the telegraph to notify other trains, but must leave a flagman.

Reports.

229. In making reports of accidents and unusual occurrences, the situation must be fully, clearly and precisely stated, with all relative facts and particulars necessary to a clear understanding of them, as known to the person making the report, without necessity for inquiries to extract such information. Exaggerations must be avoided.

In emergencies, or obstruction of the road by accident or other cause, suggestions based on observation of the actual situation are useful and required, and frequent reports of progress must be made.

In such cases prompt action is required of all employes, and in the absence of designation, the employe on whom the responsibility most naturally falls, will assume authority to direct the work.

Cars must not be thrown down embankments or turned over to clear track.

230. When cars leave the track, they must not be turned over, thrown down embankments, broken up or otherwise damaged, merely to get them out of the way. Every effort must be made by trainmen to put them on the track with as little injury as possible, and take the damaged cars to a siding. The conductor will call on section men or any other convenient force, for assistance, which must be promptly rendered.

Mark disabled cars "Bad order."

231. Conductors will see that the words "Bad Order" are written with chalk on both sides of bad order cars left at stations, and defective part marked with a cross, and report same to Superintendent by telegraph.

Authority to take freight engine.

232. Should an engine on a passenger train be disabled on the road, the conductor may take any freight engine available.

Placing cars at stations.

233. Conductors will comply with instructions of agents in placing cars and doing other station work. If necessary to move cars for loading or unloading,

they must be replaced. In case agents' orders are unreasonable, the facts must be reported to the Superintendent; but the agents' orders must be carried out if practicable without endangering or delaying passenger trains. Agents will report violations of this rule, and all cases where conductors refuse to take cars that are ready to go.

Care of livestock.

234. Conductors of trains carrying live stock will consult the wishes of the stockmen in matters pertaining to the care and comfort of the stock. Especial attention must be given to stock unaccompanied by drovers. In warm weather trainmen will water hogs as often as may be necessary.

Close doors.

235. The doors of empty cars hauled in trains must be kept closed. Trainmen will be held responsible for the proper care and protection of goods and property while in transit in their trains, and they must see that the doors of loaded cars are properly secured and protected as required.

Must not delay trains for meals.

236. Conductors and enginemen are prohibited from going to meals, or delaying their train for any cause, after receiving an order to proceed, without permission from the Superintendent. If permission is received, the conductor must report for further orders when ready to go.

Conductors to be on duty thirty minutes.

237. Conductors and brakemen are required to be on duty at least thirty minutes in advance of their leaving time. Passenger brakemen will remain by their trains to assist passengers, examine tickets and answer inquiries.

Rear brakeman and fireman to have danger signals ready for use.

238. A Brakeman must always be stationed on the rear car of every train; and must have in his possession a red flag by day, and red and white lanterns (lighted) by night; also six torpedoes ready for immediate use. Every engine must carry a similar equipment of signals for use by the fireman. Conductors and enginemen must know that their brakemen and firemen are conversant with and properly understand the application of rules relating to flagging of trains. Conductors of freight trains must see that their brakemen are on top of the train before reaching the whistling post approaching and passing stations. Brakemen must not apply brakes so tightly as to slide a wheel nor allow the brake to remain applied **over three minutes** while in motion, but in descending grades will use the brake of several cars to check and regulate the train and change brakes frequently. Sticks must not be used to turn the brake wheel in applying brakes.

Heating, lighting and ventilation of cars.

239. Conductors must give particular attention to the safety and comfort of their passengers. Careful attention must be given to the **Heating, Lighting and Ventilation** of cars and the supply of water in the tanks. Brakemen and train porters will be required to assist ladies, children and infirm persons off and on the cars. Conductors will perform this duty themselves when necessary.

Calling stations and junctions.

Shortly before reaching a station at which the train stops, the brakemen and porters will pass through the train, except the sleeping cars, and announce distinctly, twice in each car, (with the doors closed) the name of the station they are approaching. At junction stations and crossings where trains leave in different directions, the conductor of each train must cause to be announced distinctly in each passenger car, before starting, the direction in which the train is to go and the principal stations on the route. Upon leaving a station conductors will cause the name of the next station at which the train will stop to be called inside of each car. If there are no brakemen or porters on the cars, this duty will devolve upon the conductors.

Prevent unnecessary noise.

240. Conductors will prevent any unnecessary noise about passenger trains, particularly at night, and not allow employes to enter or pass through sleeping or dining cars, except when necessary in the discharge of their duties. While meals are being served in **dining cars**, conductors, trainmen and news agents must, as far as possible, avoid passing through those cars and must remove their hats while in the cars. Conductors will not collect tickets or fare from passengers while at meals, except when it is necessary to do so, and will not permit news agents to carry their wares through the dining cars at meal time except under special circumstances. Care must be taken in switching and handling passenger cars, to disturb the occupants as little as possible.

Passengers not allowed to ride on platform, &c.

241. Conductors will see that passengers are seated, and not permit them to ride on the platform. Freight train conductors must allow none but train crew to ride on freight cars.

Collect fare. Passes.

242. Conductors will collect fare from all persons traveling without a ticket or pass, and will be allowed no discretion in the matter. Persons entitled to free transportation will be furnished with passes upon application to the proper officials. Fares wrongfully collected will be refunded.

Freight trains not to carry passengers except as provided.

243. Freight trains will not carry passengers except as designated in the Special Rules. Trains so designated will carry employes with passes and passengers when provided with proper transportation as required by the rules.

Employes with passes may be carried on all freight trains between stations at which trains stop.

Persons accompanying live stock (or other freight requiring man in charge) may be carried on the same train with the stock (or freight), when provided with proper transportation.

News Agents.

244. News Agents must not be allowed to discharge their duties unless equipped with the cap and badge designated for them to wear. Neatness in personal appearance is required.

Conductors will be held responsible for the good conduct of **News Agents** while on duty, and are authorized to prevent them acting in that capacity

for insubordination, violation of rules, or any improper action, and will see that nothing improper is offered for sale, and should there be, they will suppress it and promptly report the facts to the Superintendent. News Agents must not be allowed to annoy passengers by urging their sales, leaving books and articles with them unsolicited, or in any other manner.

Confidence men, beggars, etc.

245. Conductors must look out for confidence men, monte players, prize package vendors and other swindlers, and when known to be on the train must have them watched, and personally warn passengers and otherwise prevent their operating on the train, and report case by wire to the Superintendent. They must not permit beggars, gamblers or unauthorized peddlers to practice their vocations on the train, or allow advertising matter to be distributed.

Inspect bulletins.

246. Conductors and enginemen will carefully inspect Bulletin Boards before starting from terminal stations.

Registering.

247. Conductors of all trains must enter in **train register book** at terminal stations, or wherever such books are kept, the time of arrival and departure of their trains and all information called for by same.

Identification of trains.

248. Conductors of trains when meeting each other by special order will fill up and exchange identification tickets, showing number of train and number of engine.

TRAIN IDENTIFICATION TICKET.

This Train is.....Section, Train No.....Engine No.....
Carrying.....Signals. From.....to.....Station.
.....Is.....Conductor.

Arrangement of cars in train.

249. Passenger trains must be made up in following order: Fruit, mail, express, baggage, smoking, Second-class coaches, First-class coaches, Chair and Sleeping cars. Freight and mixed trains in the following order: Freight cars equipped with Miller, Janney or other similar Coupler and Air Brake must be hauled in forward part of trains; freight cars not equipped with Air Brakes or Air Pipes and connections must be placed in rear of Air Brake Cars. Passenger equipment will be placed in rear of such trains.

Passenger cars having Baker heaters must be run with heater to the front when practicable.

Switch to be set to main track and locked.

250. Switches, when not in actual use, must be set for the main track and locked. Agents are responsible for the proper position and security of switches at their stations, and must know personally, at least ten minutes before the regular trains are due, and before leaving their stations at night, that switches are secure and everything is right for safe passage of trains.

Cars not to stand on main track.

251. Agents must not allow cars to stand on main track for loading or any other purpose without special permission from the Superintendent in each

case. He must know that cars on siding properly clear main track, that brakes are applied, and wheels blocked when necessary.

Doors and other openings of cars to be fastened.

252. Agents will see that the doors and other openings of loaded cars are closed and securely fastened before being placed in trains, and that the doors of cars loaded with powder, oil, hay, straw, or other inflammable material, are battened, and placed in train near the caboose or at least ten cars distant from the engine, as a protection against fire. Conductors and agents must examine the fastenings of cars, and keep such a record of their condition as will enable them to answer all inquiries. All doors of loaded cars must be sealed, and those not provided with locks or other secure fastenings, must be cleated so that the door of every loaded car will be properly secured.

Personal letters and packages on trains prohibited.

253. Sending personal packages or letters on private business by trains, is strictly prohibited. Communications by trains must be exclusively on official business.

Agents to make daily inspection of buildings and yards.

254. Agents are required to make daily inspections of yards, platforms, offices, buildings, and surroundings, and will co-operate with Supervisors and Roadmasters in maintaining the neat and tidy appearance of same.

Time freight.

255. Cars containing **time freight** will (in addition to notation on way-bills) be designated by cards in the following form, tacked on doors on each side of car:

TIME FREIGHT.

Car Initial.....No.....For.....Station.
From.....Station.....189...

This car must have quick dispatch and preference over other cars not likewise carded.

If for any cause the car has to be set out, conductors will telegraph Superintendent and state reason for same.

N. B.—This card must be detached by receiving agent, endorsed on back with required information, and sent by first passenger train to the General Freight Agent.

ENDORSEMENT ON BACK.

Car received at.....Station, in Train No.
.....on the....day of.....189...

.....Agent.

These cards must be removed by receiving agents properly filled out and forwarded as directed.

Reporting storms.

256. Agents, operators, bridge and section men will advise the Superintendent promptly as to severity of storms and extent of damage, and also notify trainmen.

Examination on rules.

257. No person will be permitted to engage in train service without first passing the prescribed examination on these rules.

**TRACKMEN, BRIDGEMEN, WORK-
TRAINMEN, AND WATCHMEN.**

Look out for trains.

258. All persons engaged in track or bridge work shall keep sharp look out for **trains from either direction**, and shall **not assume that a train may not come for any certain time**; nor act on the assurance of any person to that effect; and will protect themselves at all times with proper signals, as per Rule 99.

They must bear in mind that under the telegraph system a train may be expected at any moment.

Responsibility of Roadmasters.

259. Roadmasters are responsible for the safety of track, good condition of road bed, fences, right of way and grounds, and neat and tidy appearance of stations, buildings and surroundings. They will frequently examine bridges, culverts, water stations and other structures, and promptly report any defects or failure to Superintendent and Supervisor.

Bridge Supervisors.

260. Supervisors are responsible for the safety and good condition of bridges, culverts, buildings and other structures. They will co-operate with Roadmasters in protecting the interests of the Company in all respects.

Examination on rules.

261. Supervisors, Roadmasters, and others employing foremen, will be held responsible for the proper understanding of these rules by their foremen.

Keep supplied with proper signals.

262. Foremen must know that their gangs are always supplied with the proper signals and thoroughly instructed as to their use, and they will be held responsible for the strict observance of these rules by their men.

Display signals when track is unsafe.

263. At all times when work is going on which renders the track unsafe for trains to pass at their usual rate of speed, proper signals must be sent out at least one quarter of a mile from the spot, in each direction, as a caution to approaching trains. After or during severe storms, or a thaw, a man must be sent over the road before the passage of regular trains for the purpose of ascertaining if track is safe.

Danger signals.

264. Before a rail or frog is taken out, or any obstruction caused to the main track, or when any break or obstruction is discovered, the signal of danger must be sent out in both directions at least one-half mile from the point of danger, and a faithful man must remain and keep it displayed until he is recalled by the foreman, which must not be done until the track is known to be safe.

Danger signals.

265. A red light or flag, when used as a danger signal, must be in the hands of a reliable man.

Aid in passage of trains.

266. Foremen and men in their employ, must at all times hold themselves in readiness to aid the passage of trains; and in case of accident or delay, will obey the orders of the conductors.

Examine sections daily.

267. Section foremen must pass over and examine their sections daily, and ascertain that the track, slopes, cuts, bridges, switches, etc., are safe, and make necessary repairs. This should be done in the morning.

To be out in stormy weather.

268. In case of extraordinary storms or high water, foremen must be out with their men (day and night) with proper signals, and watch those places most liable to damage, and take every precaution to prevent accident.

Track clearance.

269. No wood, timber, freight, or material of any kind will be allowed within six feet of the main track. The exact location of elevators, ware-houses, coal yards, lumber yards or wood yards, for outside parties, will be fixed by the Division Engineer, but shall not in any case be less than *fifty feet* from the center line of a main track, nor at a less distance than *five and one-half feet* from the nearest rail in side track to nearest part of building, nor less than *one hundred and fifty feet* from any of the Company's buildings. In no event will any such structure be located on any main or passing track or on the lead of any track. Rocks, trees, or other obstructions liable to fall on the track, must be immediately removed.

Put out fires.

270. It is the duty of all employes to put out fires set by engines, or otherwise, and to guard the property of others as well as that of the Company, exposed to such fires, whether responsibility attaches to the Company or not.

Repair telegraph lines.

271. Track and bridgemen will pay particular attention to the telegraph line. In case the wires are found broken or on the ground, crossed or in any way obstructed, they must be repaired in a temporary manner *immediately*, and where such repairs are impracticable, notice must be given by telegraph, messenger or the earliest means practicable.

Look after water supply and keep fences in repair.

272. Foremen must look after water stations, and will see that the water supply is kept up, and promptly report any failure or defect, and also see that fences and cattle guards are in good repair. A break in a fence should not be overlooked, and when it cannot be repaired for want of materials, the foreman will give the roadmaster immediate notice of it, stating what material is required. When fences are taken down for any purpose, they must be immediately replaced.

Hand cars.

273. Hand cars or other property of the Company must not be used except on the business of the Company.

See that watchmen are attentive.

274. Foremen and others employing watchmen, must see that they understand and attend to their duties.

Report violation of rules.

275. Watchmen will be required to report promptly any accident or risk of accident, or occurrences not consistent with safety or good order.

Watchman always on duty.

76. When day and night watchmen are employed, they must not leave their posts until relieved.

Perform other duties when not engaged watching.

277. When the time of watchmen is not wholly occupied with watching, they will perform such other duties as may be required of them.

Go over sections in advance of passenger train.

278. The rounds of road watchmen or track walkers must be so arranged as to pass over their section in advance of passenger trains when practicable. They will carefully examine the roadway, keeping a sharp lookout for broken rails; observe switches, try locks, and see that they are in proper order; see that cars clear the main track; examine buildings and other property, and protect same from theft, fire, or other damage. Should an obstruction or anything occur that would be liable to endanger trains, they will at once display danger signals, as directed in the rules, and send word to their foreman and to the nearest telegraph office.

279. Bridge and snow-shed watchmen must pass over their beats immediately after the passage of trains, keeping sharp lookout for fire. They are responsible for the cleanliness about structures, and must remove combustible matter from their vicinity, make frequent examinations and report any decay or failure; they will allow no one but employes upon bridges or structures.

RULES FOR THE MOVEMENT OF TRAINS BY TELEGRAPHIC ORDERS.

Special orders.

500. Special orders, directing movements varying from or additional to the time-table, will be issued by the authority and over the signature of the Superintendent. They are not to be used for movements that can be provided for by rule or time-table. They must not contain information or instructions not essentially a part of them.

They must be brief and clear, and the prescribed forms must be used when applicable; and there must be no erasures, alterations or interlineations.

Transfers of orders from one dispatcher or operator to another shall be in writing in the train order book, dated and timed, with complete list of unexpired orders; or if done by telegraph the above shall be transmitted; an understanding returned and "Complete" given, before the authority is exercised by another person.

Duplicate orders.

501. Each order must be given in the same words to all persons or trains directly affected by it, so that each shall have a duplicate of what is given to the others. Preferably an order should include but one specified movement.

How numbered.

502. Orders will be numbered consecutively for each day as issued, beginning with No. 1 at midnight.

To whom addressed.

503. Orders must be addressed to those who are to execute them, naming the place at which each is to receive his copy. Those for a train must be addressed

Dispatchers record.

to the conductor and engineman, and also to a person acting as pilot. A copy for each person addressed must be supplied by the operator.

Definition of rights.

504. Each order must be written in full in a book provided for the purpose at the chief dispatcher's office; and with it must be recorded the names of train men and others who have signed for the order; the time and signals, showing when and from what offices the order and responses were transmitted; and the train dispatcher's initials. These records must be made at once on the original copy, and not afterward, from memory or memoranda.

Use of signal 31.

505. The terms "superior right" and "inferior right" in these rules, refer to the rights of trains under the time-table and train rules and not to rights under special orders.

Simultaneous transmission.

506. When an order is to be transmitted, the signal "31" (as provided in Rule 509), meaning "Train Order," will be given to each office addressed, followed by the word "copy," and a figure indicating the number of copies to be made, if more or less than three—thus, "31 copy 5."

Manifold copies.

507. An order to be sent to two or more offices must be transmitted simultaneously to as many as practicable. The several addresses must be in the order of superiority of rights of trains, and each office will take only its proper address. When not sent simultaneously to all, the order must be sent first for the train having the superior right of track.

Repeating.

508. Operators receiving orders must write them out in manifold during the transmission, and make the requisite number of copies at one writing, or trace others from one of the copies first made.

Operators read orders aloud.

509. When an order has been transmitted, preceded by the signal "31," operators receiving it must (unless otherwise directed) repeat it back at once from the manifold copy, and in the succession in which their several offices have been addressed. Each operator repeating must observe whether the others repeat correctly. After the order has been repeated correctly by the operators required at the time to repeat it, the response "O K," authorized by the Train Dispatcher, will be sent, simultaneously to as many as practicable, naming each office. Each operator must write this on the order with the time, and then reply "i O K," with his office signal.

Operators shall read orders aloud to the conductors and engineers addressed, and require them to sign their names thereon in proof of receipt and understanding. They will then transmit to the dispatcher, the signatures taken, and if approved by reply "Complete," enter the same upon the order with time received, sign their own names thereon in place provided, and deliver a copy to each conductor and engineer addressed.

Operators shall not allow a copy of an order to leave their possession until complete, as prescribed in

Correct to superior train.

these rules, nor enter "Complete" thereon in advance of its receipt, nor sign their names thereon until the order is otherwise all complete.

Treated as holding order.

510. For an order preceded by the signal "31," "complete" must not be given to the order for delivery to a train of inferior right until "O K" has been given to and acknowledged by the operator who receives the order for the train of superior right. Whenever practicable, the signature of the conductor and engineer of the train of superior right must be taken to the order and "complete" given before the train of inferior right is allowed to act on it.

Void if line fails.

After "O K" has been given and acknowledged and before "complete" has been given, the order must be treated as a holding order for the train addressed, but must not be otherwise acted on until "complete" has been given.

If the line fails before an office has received and acknowledged "O K" to an order preceded by the signal "31" the order at that office is of no effect, and must be there treated as if it had not been sent.

Preceded by signal 31.

513. The order, the "O. K." and the "complete" must each, in transmitting, be preceded by "31," and the number of order thus, "31" No. 10. In transmitting the signature of a conductor it must be preceded by "31," the number of the order, and the train number, thus, "31, No. 10, Train No. 5." After each transmission and response the sending operator must give his office signal.

Operators' copy.

514. The operator who receives and delivers an order must preserve the lowest copy. On this must appear the signatures of those who sign for the order, and on it he must record the time when he receives it; the responses; the time when they are received; his own name; the date; and the train number, for which places are provided in the blanks. These copies must be sent to the Superintendent daily.

Conductors' copy.

515. Orders used by conductors must be sent by them daily to the Superintendent.

Enginemen's copy.

516. Enginemen will place their orders in the clip before them until executed.

Delivered at Dispatcher's office.

517. For orders delivered at the Dispatcher's office the requirements as to record and delivery will be the same as at other points.

Others.

518. Orders to persons in charge of work requiring the use of track in yards or at other points, authorizing such use when trains are late, must be delivered in the same way as to conductors of trains.

Non-telegraph offices.

519. An order to be delivered to a train at a point not a telegraph station, or while the office is closed, must be addressed to

"C. and E., No. — at —, care of —," and forwarded and delivered by the conductor or other person in whose care it is addressed. "Com-

plete" will be given upon the signature of the person by whom the order is to be delivered, who must be supplied with copies for the conductor and engine-man addressed, and a copy upon which he shall take their signatures. This copy he must deliver to the first operator accessible, who must preserve it, and at once advise the Train Dispatcher of its having been received.

Orders so delivered to a train must be compared by those receiving them with the copy held by the person delivering and acted on as if "complete" had been given in the ordinary way.

Orders must not be sent in the manner herein provided, to trains the rights of which are thereby restricted.

Each section considered separate.

520. In moving trains by Special Order, each section shall be considered as a separate and distinct train, and designated by its proper section and train number, and shall receive and run only under Special Orders addressed to its own conductor and engine-man.

Orders to meeting points.

521. Meeting orders must not be sent for delivery to trains at the meeting point if it can be avoided. When it cannot be avoided, special precautions must be taken by the train dispatchers and operators to insure safety, and the following words must be inserted in the order:

"This order to number — at meeting point."

There should be, if possible, at least one telegraph office between those at which opposing trains receive meeting orders.

Orders should not be sent an unnecessarily long time before delivery, or to points unnecessarily distant from where they are to be executed. No orders (except those affecting the train at that point), should be delivered to a freight train at a station where it has much work, until after the work is done.

Governed by orders.

522. A train, or any section of a train, must be governed strictly by the terms of orders addressed to it and must not assume rights not conferred by such orders. In all other respects it must be governed by the Train Rules and Time-table.

In effect until annulled.

523. Orders once in effect continue so until fulfilled, superseded or annulled. Orders held by or issued for a regular train which has lost its rights, as provided by Rule 107, are annulled and other trains will be governed accordingly.

Tele-graph station signal.

524. A fixed signal must be used at each train order office which shall display red when trains are to be stopped for orders. When there are no orders the signal must display white.

When an operator receives the signal "31" he must immediately display red, and then reply "red displayed." The signal must not be changed to white until the object for which red is displayed is accomplished.

Clearance ticket.

While red is displayed all trains must come to a full stop, and any train thus stopped must not pro-

ceed without receiving an order addressed to such train, or a clearance card on form specified below, stating over the operator's signature that he has no orders for it. The issue of clearance cards must be authorized by Dispatchers in all cases, except, that when lines are not working, they may be issued without such authority.

CLEARANCE CARD.

Dover, 9:15 A. M., March 25, 1887

Conductor and Engineman No. 12:

I have no orders for your train. Signal is out for No 16,

John Jones,

Operator.

This does not interfere with or countermand any orders you may have received.

Conductor MUST SEE that the number of HIS TRAIN is entered in the above form correctly.

Conductor and Engineman must each have a copy.

Sema-phore.

Operators must be prepared with other signals to use promptly if the fixed signal should fail to work properly.

When a semaphore is used, the arm means red when horizontal and white when in an inclined position.

Report signal lamps not burning.

Conductors and enginemen of all trains shall look for the signal at each office, know positively what it indicates, and be governed accordingly. In case of neither signal being displayed, or at night a signal lamp or lantern in position but not burning, they shall consider the same as a signal for orders and not pass the station without orders or a clearance. Such cases of absence of signal must be at once reported to the superintendent.

Call day operator.

If a train is held at night at a station where there is no night operator, the conductor will call the day operator to get orders for him.

Running by signals.

Every case of running by or non-observance of signal, must be at once reported to the Superintendent with number of train and engine, and other information necessary to place the responsibility.

The train order signal lamps must be lighted just before dark and kept burning until clear day-light in readiness for instant use.

On sight of a signal for orders, conductors and engineers must go at once to the office to receive and respond to them.

Release ticket.

No train or engine will start on its run or leave any district terminal station until the conductor and engineer have inquired at the telegraph office for orders and received either a special order or a release ticket. Release tickets will be in the following form, which the conductor will read and hand to the engineer:
O. R. & N. Form 573.

TRAIN RELEASE TICKET.

.....189...M.

To Conductor and Engineer.....Section, Train No.....
NO ORDERS FOR YOU.

.....Operator.....Station.

NOTE.—For use of this ticket see Rule 524. At stations where conductors and engineers are requirep

by Rule 524 to call for orders, when there are no orders for them and when no signal is out operators will issue this form instead of Clearance Ticket, as required by Rule 524.

The issue of train release tickets must be authorized by the Dispatcher in all cases, except when lines are not working; the operator may issue without such authority.

Report trains.

525. Operators will promptly record and report to the Dispatcher the time of departure of all trains and the direction in which extra trains are moving. They will record the time of arrival of trains and report it when so directed.

Registering.

Freight conductors will fill out Registering Tickets in the following form, leaving one at every telegraph station where there is no train register, being particular to state if carrying signals or not.

TRAIN REGISTERING TICKET.

.....Section, Train No.....Engine No.....
Arrived at.....Station at.....M, Left at.....M.
Has.....Loads.....Empties. Carrying.....Signals,
From.....To.....
.....Conductor.
.....189..

NOTE.—Freight conductors will fill out and leave one of these tickets at each telegraph station, as required by Rule 525. Operators will forward such tickets to superintendent daily.

Designation of trains.

526. Regular trains will be designated in orders by their schedule numbers, as "No. 10 (ten)" or "Second No. 10 (ten)"; extra trains by engine numbers, as "Extra 798 (seven, nine, eight)"; all numbers in the body of orders to be written in figures and words. The direction of the movement of extras will be added when necessary; as "East" or "West." Example:

"No. 17 (seventeen) will wait at until 12:30 (twelve thirty) P. M. for No. 4 (four)."

Signs and Abbreviations.

527. The following signs and abbreviations may be used:

Initials for Superintendent's signature.
Such office and other signals as are arranged by the Superintendent.
C & E— for Conductor and Engineman.
O K—as provided in these rules.
Min—for Minutes.
Junc—for Junction.
Frt—for Freight.
No—for Number.
Eng—for Engine.
Sec—for Section.
Opr—for Operator.
9—to clear the line for Train Orders, and for Operators to ask for train orders.
31—for Train Order as provided in the rules.
The usual abbreviations for the name of the months and stations.

FORMS OF TRAIN ORDERS.

FORM A.—FIXING MEETING POINTS FOR OPPOSING TRAINS.

— and — will meet at —

EXAMPLES.

No. 1 (one) and No. 2 (two) will meet at Bombay.
No. 3 (three) and 2d, No. 4 (four) will meet at Siam.

No. 5 (five) and extra 95 (ninety-five) will meet at Hong Kong.

Extra 652 (six, fifty-two) East and Extra 231 (two, thirty-one) West will meet at Yokohama.

Trains receiving this order will, with respect to each other, run to the designated point, and having arrived there will pass in the manner provided by the rules.

FORM B.—AUTHORIZING A TRAIN TO RUN AHEAD OF OR PASS ANOTHER TRAIN RUNNING IN THE SAME DIRECTION.

(1) — will pass — at —.

(2) — will run ahead of —, from — to —.

EXAMPLES.

(1)—No. 1 (one) will pass No. 3 (three) at Khar-toum.

(2)—No. 4 (four) will run ahead of No. 6 (six) from Bengal to Madras.

When under this order a train is to pass another, both trains will run according to rule to the designated point and there arrange for the rear train to pass promptly.

FORM C.—GIVING A TRAIN OF INFERIOR RIGHT THE RIGHT OF TRACK AGAINST AN OPPOSING TRAIN OF SUPERIOR RIGHT.

[NOTE.—This form of order must not be used when Form A can be used.]

— has the right of track against — to —.

EXAMPLES.

(1)—No. 2 (two) has right of track against No. 1 (one), Mecca to Mirbat.

(2)—Extra 37 (thirty-seven) has right of track against No. 3 (three), Natal to Ratlan.

[NOTE.—The terms "superior right" and "inferior right," here and elsewhere in these rules, refer to the rights of trains under the time-table and train rules, and not to rights under special orders.]

This order gives a train of inferior right the right of track against one of superior right, to a designated point.

If the trains meet at the designated point, the train of inferior right must take the siding, unless the rules or orders otherwise indicate.

Under this order, as illustrated by example (1), if the train of superior right reaches the designated point before the other train arrives, it may proceed, provided it keeps clear of the schedule time of the train of inferior right as many minutes as the inferior train was before required by the train rules to keep clear of the superior train.

If the train of superior right, before meeting, reaches a point beyond that named in the order, the conductor must stop the other train where it is met and inform it of his arrival.

Under example (2) the train of superior right cannot go beyond the designated point until the extra train arrives.

When the train of inferior right has reached the designated point, the order is fulfilled, and the train must then be governed by time-table and train rules or further orders.

The following modification of this form of order will be applicable for giving a work train the right of track over all other trains, in case of a wreck or break in the track.

EXAMPLE.

Work Train extra 275 (two seventy-five) has right over all trains between Stockholm and Edinburgh from 7 (seven) p. m.

This gives the work train the exclusive right of the track between the points designated.

FORM D.—GIVING ALL REGULAR TRAINS THE RIGHT OF TRACK OVER A GIVEN TRAIN.

All regular trains have right of track against — between — and —.

EXAMPLE.

All regular trains have right of track against No. 1 (one) between Moscow and Berlin.

This order gives to any regular train of inferior right receiving it the right of track over the train named in the order, and the latter must clear the schedule times of all regular trains, the same as if it were an extra.

FORM E.—TIME ORDERS.

[NOTE.—This form of order must not be used when Form A can be used.]

(1) — will run — late from — to —.

(2) — will wait at — until — for —.

EXAMPLE.

(1) No. 1 (one) will run 20 (twenty) min. late from Joppa to Mainz.

(2) No. 1 (one) will wait at Muscat until 10 (ten) a. m. for No. 2 (two).

Form (1) makes the schedule time of the train named, between the points mentioned, as much later as the time stated in the order, and any other train receiving the order is required to run with respect to this latter time, the same as before required to run with respect to the regular schedule time. The time in the order should be such as can be easily added to the schedule time.

Under Form (2) the train of superior right must not pass the designated point before the time given, unless the other train has arrived. The train of inferior right is required to clear the train of superior

right ten minutes, as provided for in Rule 86.

FORM F.—FOR SECTIONS OF REGULAR TRAINS.

— will carry signals — to — for —

EXAMPLES.

No. 1 (one) will carry signals Astrakhan to Cabul, for Eng. 85, (eighty-five).

2d No. 1 (one) will carry signals London to Dover for Eng. 90 (ninety).

This may be modified as follows:

Engine 70 (seventy), 85 (eighty-five), and 90 (ninety), will run as 1st, 2d and 3d sections of No. 1 (one), London to Dover.

For annulling a section:

Eng. 85 (eighty-five) is annulled as second section of No. 1 (one) from Dover.

If there are other sections following add:

Following sections will change numbers accordingly.

The character of train for which signals are carried may be stated. Each section affected by the order must have copies, and must arrange signals accordingly.

FORM G.—FOR ARRANGING A SCHEDULE FOR A SPECIAL TRAIN.

Eng. — will run as special — train, leaving — on — on the following schedule, and will have the right of track over all trains.

Leave —.

—.

Arrive —.

EXAMPLE.

1. Eng. 77 (seventy-seven) will run as special passenger train leaving Turin on Thursday, Feb. 17th (seventeenth), on the following schedule, and will have the right of track over all trains.

Leave Turin 11.30 p. m.

Pekin 12.25 a. m.

Canton 1.47 a. m.

Arrive Rome 2.22 a. m.

Example 1 may be varied by specifying particular trains over which the special shall or shall not have right of track, and any train over which the special train is thus given the right of track must clear its time as many minutes as such train is required to clear the schedule time of a first-class train.

EXAMPLE.

2. Eng. 75 (seventy-five) will run as special passenger train, leaving Geneva Thursday, Feb. 17th (seventeenth), with the rights of a first class train east on the following schedule, which is a supplement to Time table No. 10 (ten).

Leave Geneva 10 a. m.

Pekin 10:30 a. m. passing No. 12 (twelve).

Canton 11 a. m. meeting No. 7 (seven).

Arrive Athens 11:30 a. m.

Example 2 will be in each case a temporary supplement to the current Time-table, and the designation of meeting and passing points is to be taken as the same as such designation by full faced type on the Time-table, and the rules are to govern in the same way.

Form H.—Extra Trains.

— will run extra from — to —

EXAMPLE.

(a.) *Eng. 99 (ninety-nine) will run extra from Berber to Gaza.*

A train receiving an order to run extra is not required to guard against opposing extras, unless directed by order to do so, but must keep clear of all regular trains as required by rule.

A "work train" is an extra for which the above form will be used for a direct run in one direction. The authority to occupy a specified portion of the track, as an extra while working, will be given in the following form.

(b.) *Eng. 292 (two, ninety-two) will work as an extra from 7 (seven) a. m. until 6 (six) p. m. between Berne and Turin.*

The working limits should be as short as practicable, to be changed as the progress of the work may require. The above may be combined, thus:

(c.) *Eng. 292 (two, ninety two) will run extra from Berne to Turin and work as an extra from 7 (seven) a. m. until 6 (six) p. m. between Turin and Rome.*

When an order has been given to "work" between designated points, no other extra must be authorized to run over that part of the track without provision for passing the work train.

When it is anticipated that a work train may be where it cannot be reached for meeting or passing orders, it may be directed to report for orders at a given time and place, or an order may be given that it shall clear the track for a designated extra, in the following form:

(d.) *Work Train 223 (two, ninety-two) will keep clear of Extra 223, (two, twenty-three) East, between Antwerp and Brussels after 2:10 (two ten) p. m.*

In this case, extra 223 (two, twenty-three) must not pass either of the points named before 2:10 p. m., at which time the work train must be out of the way between those points.

When the movement of an extra train over the working limits cannot be anticipated by these or other orders to the work train, an order must be given to such extra, to protect itself against the work train in the following form:

(e.) *Extra 76 (seventy-six) will protect itself against work train extra 95 (ninety-five) between Lyons and Paris.*

This may be added to the order to run extra.

A work train when met or overtaken by an extra must allow it to pass without unnecessary detention.

When the conditions are such that it may be considered desirable to require that work trains shall at all times protect themselves while on working

limits, this may be done under the following arrangements. To example (b) add the following words

(f.) *protecting itself against all trains.*

A train receiving this order must, whether standing or moving, protect itself within the working limits (and in both directions on single track) against all trains, in the manner provided in Rule 99.

When an extra receives orders to run over working limits it must be advised that the work train is within those limits by adding to example (a) the words

(g.) *Eng. 292 (two, ninety-two) is working as an extra between Berne and Turin.*

A train receiving this order must run expecting to find the work train within the limits named.

Form J.—Holding Order.

Hold —

EXAMPLES.

(1.) *Hold No. 2 (two).*

(2.) *Hold all trains east.*

As any order for which "O. K." has been given and acknowledged operates as a holding order for the train to which it is addressed, this form will only be used in special cases, to hold trains until orders can be given or for some other emergency. The reason for holding may be added, as "for orders."

This order is not to be used for holding a train, while orders are given to other trains against it, which are not at the same time given to it in duplicate. It must be respected by conductors and enginemen of trains thereby directed to be held as if addressed to them. Conductors when informed of the order must sign for it, and their signatures must be sent and "complete" obtained.

When a train has been so held it must not go until the order to hold is annulled, or an order is given in the form:

"— may go."

This must be addressed to the person or persons to whom the order to hold was addressed and must be delivered in the same manner.

Form K.—Annuling a Schedule Train.

— of — is annulled.

EXAMPLES.

(1.) *No. 1 (one) of Feb. 29th (twenty-ninth) is annulled.*

(2.) *No. 3 (three) due to leave Naples Saturday, Feb. 28th (twenty-eighth), is annulled.*

Adding "from Alaska" or "between Alaska and Halifax," when appropriate.

This order takes away all rights of the train annulled and authorizes any train or person receiving it to use the track as if the train annulled were not on the time-table.

If a train is annulled to a point named, its rights beyond that point remain unaffected.

The Train Dispatcher may direct any operator to omit repeating back an order annulling a train until he has occasion to deliver it.

When a train has been annulled it must not be again restored under its original number by special order.

Form L.—Annuling or Superseding an Order.

"Order No. — is annulled."

This will be numbered, transmitted and signed for as other orders.

If an order which is to be annulled has not been delivered to a train, the annulling order will be addressed to the operator, who will destroy all copies of the order annulled but his own, and write on that:

Annulled by Order No. —

An order superseding another may be given, adding "this supersedes order No. —," or adding "instead of —."

EXAMPLE.

No. 1 (one) and No. 2 (two) will meet at Sparta, instead of at Thebes.

An order which includes more than one specified movement must not be superseded.

An order that has been annulled or superseded must not be again restored by special order under its original number.

In the address of an order annulling or superseding another order, the train first named must be that to which rights were given by the order annulled or superseded, and when the order is not transmitted simultaneously to all concerned, it must be sent to the point at which that train is to receive it and the required response first given, before the order is sent for other trains.

CONCERNING AIR-BRAKES.

1. In making up trains, all couplings must be united so that the brakes will apply throughout the whole train. The cocks in the brakepipe must all be opened (handles pointed down), except that on the rear of the last car, where hose coupling must be coupled to dummy coupling and cock closed (handle up.)

In detaching engines or cars, the couplings must invariably be parted by hand (and not pulled apart); the cocks in the main brake-pipes must always be closed before separating the couplings, to prevent application of the brakes. Before detaching the engine or any cars, the brakes must be fully released on the whole train.

In moving cars when air brakes are not being used, hose couplings must be coupled to dummy couplings.

2. For the automatic brake the handle of the four-way cock must be turned horizontally; if turned down, it will be changed to the simple air-brake; if turned midway between these two positions, it will cut the brake out, and should be so turned when desirable to have the brakes out of use on any particular car.

3. Car inspectors will, in cold weather, frequently drain triple valve, and see that brake cylinders are cleaned and oiled at least once in three months, and

oftener if necessary, and date of some marked on cylinder with chalk. Conductor's valve must be kept tight and must be examined by car inspectors.

4. If the brakes are applied, when the engine is not attached to the train, or car, they can be released by opening the release cock.

5. All trainmen are required to familiarize themselves with the method of operating the air-brake, particularly as to releasing them when brakes stick, or are applied by bursting of pipe, hose, or otherwise, causing accidental stoppage of train.

Enginemen upon finding that the brakes have been applied, must at once aid in stopping the train by turning the handle of the brake valve toward the right so as to maintain the pressure in main reservoir; if the gauge shows that all the air has escaped, they will know that the pipe or hose has burst or that the conductor's valve has been opened and held open. If pressure is only reduced sufficiently to apply brakes, and reduction then ceases, he will know that conductor's valve has been opened long enough to cause stoppage of train and then closed. In this case he can easily release the brake in the usual way, on receiving signal from the conductor.

6. The conductor's valve **must only** be used in cases of emergency, when it should be held open to allow air to escape, until train is brought to a stand.

7. When brakes have been applied in such a manner that they cannot be released from the engine, the engineman should warn the trainmen by two short blasts of whistle, given three times (see Rule 50 a) and upon stoppage of train the rear brakeman will immediately go back the proper distance to protect the rear of the train, **without attempting to release any brakes.**

The conductor, after seeing that the rear of train has been protected, will release as many brakes as he can, beginning at the rear. The fireman will release as many as he can, beginning at the tender. The head brakeman will begin about one-third the distance from the engine and release brakes toward the rear of the train until he meets the conductor. As soon as the brakes are released the train may proceed, depending upon hand brakes in case of failure of air. All the brakes on an average train can be released in about one minute if each employe attends to his duties as designated herein.

8. When the train is brought to a full stop, it is the duty of brakemen to examine each car to see that every brake is released. If a brake is found applied which the engineman cannot release from the engine, it may be cut out, as per Rule 2. Brake on rear car in train should not be cut out when possible to avoid it.

9. In setting out cars, the air should be fully released and hand-brakes used.

10. Enginemen will be held responsible for the proper workings of the air brake, and must report on

arrival at terminal stations any failure or defect, and must know that they are in perfect working order before starting out on their runs.

The Air-Brake must be tested by applying and releasing the brake from the engine before starting from terminal stations, and at all other places where engines or cars have been detached or hose Couplings separated. Brakemen will carefully watch such tests and report any failure.

11. Brakemen will carefully watch the action of brakes at all stops, and report sliding of wheels (if any) to engineman, who must govern himself accordingly.

12. The pump must be constantly run, but not faster than is necessary to maintain 70 pounds pressure for passenger, and 60 to 65 pounds for freight trains. Enginemen will be held responsible for the sliding of wheels, and must in no case carry excessive pressure.

13. Enginemen when applying the brakes must not use the full pressure of air except in cases of emergency.

For ordinary stops, air must be applied lightly by opening the valve and closing it gently when the pressure has been reduced from four to eight pounds on the gauge, and at a sufficient distance to enable them to stop the train without discomfort to passengers, sliding the wheels or injury to the machinery of the train. The brakes are fully applied when the pressure shown on the gauge has been reduced twenty pounds; any further reduction is a waste of air.

14. In making a stop, it is important to make as few applications of the brake as possible. If more than two are made, some of the brakes are likely to stick.

15. If Engineman feels that some of the brakes are not released, he should put his brake valve at lap and pump up ten or fifteen pounds more air in the main reservoir and throw it on the train, which will release all brakes.

16. In releasing brakes the handle of the brake valve must be moved quite against the stop and be kept there for ten or fifteen seconds, and then moved back against the intermediate stop, which is the feed position, and where it must remain while the train is running, excepting on down grades, when after using the brakes some distance, the pressure has been reduced; in order to restore the pressure quickly, the handle of the brake valve must be left in the releasing position; this gives a full opening from the main reservoir to the train.

If greater time for re-charging is necessary, reduce the speed of the train.

17. When the grades will permit, the brakes on passenger trains should always be released before coming to a full stop thereby avoiding the sudden

action of the cars, which is extremely annoying to passengers and injurious to cars.

18. The handles of the "pressure retaining valve," at the end of each car, must be turned horizontally before descending continuous, heavy grades. The valve in this position retains a pressure of ten pounds in brake cylinder, which partly controls train while brake is being released and recharged; on reaching the foot of the grade the handles must be turned down, allowing the pressure to escape freely. And they should always be kept in this position on short or slight grades and level track. Particular attention must be given to see that the handles of these valves are in proper position at all times.

19. When double headers are run, or helpers are used on head end of trains, air brakes should be used by head engineman alone; second engineman should close stop cock in train pipe under his valve, or in absence of this stop cock, he should place engineman's valve in the "lap" position in order to give forward engineman complete control of the brakes.

Second engineman will also keep his air pump working, and thus have pressure ready for any emergency, such as failure of pump on forward engine; in which case, forward engineman proceeds as second engineman would in above. The second engineman having assumed control of the brakes, should retain charge of same until the end of the trip, except in case of necessity which may again reverse the operation.

20. When on mountain grades it should always be borne in mind that train must be kept well under control; descending at high speed should not be practiced with any train, as some part of the machinery may fail, and while practicable to control speed with hand brakes at eight to ten miles per hour, it may be impossible at twenty to thirty miles per hour to regain its control. No experiments should be made with the brakes when on mountain grades. The following essential points should be observed in holding a train of air brake cars while descending heavy grades.

- 1st. Train should be charged with maximum pressure before bringing brakes into use.
- 2nd. Force of brakes should be regulated so as to maintain a regular and steady speed of train, also make as long a distance as possible to each application of the brakes; by doing this the pressure is used economically and the pump is given more time to accumulate the necessary pressure for recharging.
- 3rd. Brake valve should be kept in releasing position while recharging, thereby giving the brakes the greatest advantage in recharging quickly.

4th. Use every effort to restore full amount of pressure consumed in previous application before making new application of brakes.

5th. Reduce pressure, as shown on gauge, not more than 15 to 20 pounds from one recharging to another, otherwise it will be difficult to replenish the full amount in so short a time.

21. Driver brakes should be applied gradually in order not to bring a too sudden strain on the brake rods and lever. Engine should not be reversed when driver brakes are set, as the effects would be to lock and slide the wheels.

22. When the number of air-brakes in train are insufficient, hand brakes next to and back of air-brakes should be used. If hand brakes at rear end of train and air brakes at forward end are used, and air brakes are released before first releasing hand brakes, the slack will run out, and train would probably break apart. By using all brakes at forward end slack will always remain together back of hand brakes, even if air brakes are released first.

23. Engineman should always have on engine, one extra hose for connection between engine and tender, and one for connection between tender and car. Defects in air brakes should be reported to Superintendent, by telegraph, giving number and initial of car and nature of defect.

Trainmen must watch train closely while in motion, and pay special attention to wheels sliding and

brakes sticking, and report such cases to engineman at once; they should also see that when pressure retaining valves are used, the handles are all turned down as soon as bottom of grade is reached. They should be on the alert at all times, and ready to respond quickly in case of any emergency which might arise that would necessitate the prompt use of the hand brake.

CONCERNING BAKER HEATERS.

To insure satisfactory results in the use of the heater, the following instructions must be strictly observed:

1. The heater should be kept half full of coal at all times. The coal should never be allowed to get below the top of worm. This will give about fifteen inches of fire.

2. The inside safety lid should never be opened except to build the fire or put in coal. (Never force the fire by opening inside safety lid.)

3. To increase the heat, open inside lower damper, and close upper damper.

4. To reduce the heat, close the lower damper and open the upper damper about two inches, or according to amount of heat required. With both dampers closed the car will not be too warm at any time, and by proper working of the lower and the upper damp-

ers, and watching the indicator, the car can be kept at any temperature desired.

5. Failure of the heater arises from neglect or mismanagement, generally from allowing fires to run too long without putting in coal, then filling them full and operating the drafts, producing a rapid fire, which instead of warming the car, stops the circulation, and creates gases, which are liable to explode.

6. It will be readily understood that with the large amount of piping in the cars, the circulation (which is principally caused by the weight of the column of water falling from the drum into the pipes, and the difference in the weight of a column of cold and hot water), must be necessarily slow, and that a forced fire will do no good, but will only cause the effect mentioned above.

7. In filling the heater pipes, be sure that the water contains all the salt it will hold in solution, and that no undissolved salt enters the drum. Open the combination cock on end of drum and pour in water until it runs freely from same. The water should always stand at the height of combination cock, which may be tried by opening the cock, but only when the fire is very low and no pressure on. Pipes should be warm all round before passengers enter the car.

8. Passenger cars having Baker heaters must be turned so that heater will be in forward end of car when practicable.



