



**SANTA FE SAFETY FIRST**



Every employe should promptly report any unsafe condition or practice to his foreman, some member of the Safety Committee or other proper company officer.

(See General Rules E, F, M and N, Book of Rules.)

REC'D  
PUBLIC UTILITIES COMM.  
STATE OF CALIF.

JUN 18 9 03 AM '68

FILE NO. \_\_\_\_\_

G. H. D.

JUN 20 1968

**TRAINMASTERS**

- E. E. SANDERS ..... Bakersfield, Calif.
- W. A. ROEBUCK ..... Fresno, Calif.
- G. H. DOTSON ..... Stockton, Calif.
- D. E. BEAUCHAMP ..... Richmond, Calif.

**ASSISTANT TRAINMASTERS**

- R. J. ST. JOHN ..... Richmond, Calif.
- G. C. DADO ..... Bakersfield, Calif.

**ROAD FOREMEN OF ENGINES**

- D. KEMP ..... Fresno, Calif.
- A. K. SMELLIE ..... Bakersfield, Calif.

**CHIEF DISPATCHER**

- E. H. HAMIC ..... Fresno, Calif.

**ASSISTANT CHIEF DISPATCHERS**

- E. C. STRETCH ..... Fresno, Calif.
- M. L. POTTER ..... Fresno, Calif.
- J. E. SIKES ..... Fresno, Calif.

**DISPATCHERS - FRESNO**

- |                |                 |
|----------------|-----------------|
| N. S. PETERSEN | L. L. SAGE      |
| G. M. YOUNG    | J. H. WEBBER    |
| R. L. SIMPSON  | E. T. FOREMAN   |
| R. D. RILEY    | L. E. KIRKEENG  |
| G. T. WHEELER  | J. B. BONESTEEL |

J. P. MARBERRY

The  
**Atchison, Topeka and Santa Fe  
Railway Co.**



**COAST Santa Fe LINES**

**VALLEY DIVISION**

**TIME TABLE No.**

**16**

IN EFFECT

**Saturday, June 15, 1968**

At 12:01 A.M.  
Pacific Standard Time

This Time Table is for the exclusive use  
and guidance of Employees.

J. N. LANDRETH  
*General Manager*  
LOS ANGELES, CALIF.

E. R. ROBERTSON  
*Asst. General Manager*  
LOS ANGELES, CALIF.

S. ROGERS  
*Superintendent*  
FRESNO, CALIF.

J. T. GROUNDWATER  
*Superintendent*  
RICHMOND, CALIF.

## 2 VALLEY DIVISION

## MOJAVE DISTRICT

Capacity of Sidings In 50 ft. Cars	Communications Turn Tables and Wyes	Rating Grade Ascending— Feet Per Mile	WESTWARD	TIME TABLE	EASTWARD	Mile Post	Rating Grade Ascending— Feet Per Mile
			FIRST CLASS	NO. 16	FIRST CLASS		
			1	June 15, 1968	2		
			Leave Daily	<b>STATIONS</b>	Arrive Daily		
<b>Yard</b>	C-R-Y		<b>PM</b>	BARSTOW	<b>AM</b>	746.4	
233	B	34.3	11.55	1.8 HUTT	1.30	748.6	0.0
162	B	12.1		8.6 HINKLEY		757.2	7.7
161	B	34.3		9.0 HAWES		766.1	24.5
165	B	34.3		6.8 JIMGREY		772.9	12.2
161	C-Y	28.0	<b>AM</b>	11.0 BORON	12.48	784.0	26.9
162	B	0.0	12.31	5.6 SILT		789.6	34.3
161	C-Y	26.4	12.44	7.5 EDWARDS	12.32	797.1	19.0
160	B	34.3		6.4 BISELL		803.6	0.0
175	B	24.3		6.5 SANBORN		810.1	26.4
<b>Yard</b>	C-R-Y	52.8	f 1.10	5.6 MOJAVE (88.8)	s 12.15 AM	818.4	0.0
	C	15.8	3.15	66.9 KERN JUNCTION YL	10.13	885.2	0.0
<b>Yard</b>	C-R-T		s 3.30 AM	2.5 BAKERSFIELD YL	10.05 PM	887.7	
			Arrive Daily	(138.2)	Leave Daily		

(38.6) ..... Average speed per hour. .... (40.4)

Trains must get clearance card before leaving Barstow and Bakersfield, except at Barstow trains may proceed on clear train order signal in lieu of clearance card.

Southern Pacific time table and rules govern movement of trains Kern Junction interlocking to M.P. 817.5 at east end of Mojave yard.

Rule 251 in effect between Kern Jct. and M.P. 887.5 at Bakersfield.

Rule 261 (TCS) in effect on main track and sidings between West Tower Barstow and M.P. 817.5 at Mojave.

In TCS sidings, speed limit 40 MPH.

Rule 85: Between Barstow and Mojave, exchange of train orders, signals and numbers, is not required.

At Barstow between East and West Towers there is no superiority of trains. Trains and engines within these limits must proceed at restricted speed; between these points main track may be used not protecting against other trains or engines.

At Bakersfield between Signal 8871 at M.P. 887.5 (H Street) and end of two tracks 800 feet west of M.P. 888 there is no superiority of trains. Trains and engines within these limits must proceed at restricted speed; between these points main track may be used not protecting against other trains or engines.

### SWITCHES—MAXIMUM AUTHORIZED SPEED

Maximum speed permitted through all yard and roundhouse turnouts and crossovers 10 MPH; all main track turnouts and crossovers 15 MPH except for spring and power controlled switches and crossovers at following locations:

- "I"—Interlocked Switch.
- "S"—Spring Switch.
- "ESL"—Electric Switch Lock.
- "EE"—East End.
- "WE"—West End.

Station	Type	Location	MPH
Hutt	I	EE siding	15
	I	WE siding	40
Hinkley	I	EE and WE siding	40
Hawes	I	EE and WE siding	40
Jimgrey	I	EE and WE siding	40
Boron	I	EE and WE siding	40
Silt	I	EE and WE siding	40
Edwards	I	EE and WE siding	40
Bissell	I	EE and WE siding	40
Sanborn	I	EE and WE siding	40

### MAXIMUM AUTHORIZED SPEED FOR TRAINS

LOCATION	Psgr. and Light	MPH	Frt.
MOJAVE DISTRICT	79		60
Curve M.P. 747.2 to 747.6	60		60
2 Curves M.P. 816.4 to 817.5	50		50
Kern Jct. to Bakersfield	20		20

Rule 93: Yard Limits Are Located At:  
Bakersfield to Kern Junction.

### LENGTH OF STEMS OF WYES

Barstow (M.P. 743.7)	2796 Feet
Boron	Mine Spur
Edwards	Army Spur

### STATIONS OR TRACKS NOT SHOWN IN SCHEDULE

Location	Mile Posts	Car Capacity	Switch Connection
P. C. Borax Co. Spur	784.7	7.4 miles	East
Government Spur	785.0	3.7 miles	East
Government Spur	797.1	6.5 miles	East & West

### RAILROAD CROSSINGS AT GRADE AND INTERLOCKINGS

Location	Tracks Governed	Rules	Whistle Signals Additional to Rule 14 (Z)
Barstow West Tower	Main track and connecting crossovers.	Interlocking. Ten miles per hour.	To Mojave District — 0 Against current of traffic — 0 Engine lead 00—0 Switching tail 0000 Tracks 1 to 17 incl. 0—00 Tracks 18 to 30 incl. —0—0
Kern Junction	Santa Fe two tracks connection to and from S. P. two tracks. Santa Fe main track to Sunset track.	Interlocking.	Crossover — 0—0 West main to S. P. West main 0— Main track to Sunset — 0—

**FIRST DISTRICT**

**VALLEY DIVISION 3**

Capacity of Sidings in 50 ft. Cars	Communications, Turn Tables and Wyes	Rating Grade Ascending— Feet Per Mile	WESTWARD		TIME TABLE		EASTWARD		Mile Post	Rating Grade Ascending— Feet Per Mile
			FIRST CLASS		NO. 16		FIRST CLASS			
			1		June 15, 1968		2			
Yard	C-R-T		Leave Daily	STATIONS	Arrive Daily					
			AM 3.40	BAKERSFIELD	PM 9.55	887.7				
E134 W122	B	13.3		3.4		891.1		15.5		
180	B	0.0		JASTRO				14.7		
E96 W118	C-R	9.2	f 4.05	6.6		897.7		0.0		
130	C-R	0.0	f 4.15	7.7		905.4		10.6		
178	B	0.0		UNA		913.0		15.8		
180	B	0.0		SHAFTER		919.2		15.8		
178	B	0.0		7.6		924.6		8.4		
178	B	9.5		WASCO		932.3		1.7		
178	B	4.1		6.2		942.1		2.6		
E116 W198	C-R-Y	4.1	s 4.45	5.4		950.9		0.0		
178	B	4.1		SANDRINI		960.3		0.0		
E176 W92	C-R	5.8	s 5.10	7.7		967.9		0.0		
180	B	10.6		ALLENSWORTH		973.2		15.8		
70	B-Y	0.0		9.8		976.0		15.8		
180	B	10.6		ANGIOLA		982.2		0.0		
178	B	10.6		8.8		988.3		0.0		
Yard	C-R T-Y	0.0	5.31 AM	CORCORAN		994.4		4.2		
			Arrive Daily	9.4		995.2				
				GUERNSEY						
				8. P. Crossing						
				HANFORD						
				5.3						
				SHIRLEY						
				2.8						
				LATON						
				6.2						
				CONEJO						
				8.1						
				BOWLES						
				6.1						
				8. P. Crossing						
				0.8						
				CALWA						
				(107.5)						
			Arrive Daily							

Trains must get clearance card before leaving Bakersfield and Calwa.

Rule 261 (TCS) in effect on main tracks and sidings, except on siding Laton, between end of two tracks Bakersfield and Calwa.

In TCS sidings, speed limit 40 MPH.

Rule 85: Between Bakersfield and Calwa, exchange of train orders, signals and numbers, is not required.

At Bakersfield between Signal 8871 at M.P. 887.5 (H Street) and end of two tracks 880 feet west of M.P. 888 there is no superiority of trains. Trains and engines within these limits must proceed at restricted speed; between these points main track may be used not protecting against other trains or engines.

**MAXIMUM AUTHORIZED SPEED FOR TRAINS**

LOCATION	MPH	Frts.
BAKERSFIELD TO JASTRO	79	60
JASTRO TO CALWA	90	60
Bakersfield M.P. 887.5 to 889	20	20
2 Curves M.P. 889 to 890.1	50	50
Curve M.P. 892.9 to 893.4	70	70
Shafter Lerdo Road M.P. 905.1	70	70
Alpaugh Spur	10	10
Corcoran M.P. 950.5 to 951.7	50	50
Hanford M.P. 967.5 to 968.4	20	20
Curve M.P. 969.3 to 969.5	55	55
Curve M.P. 973.7 to 973.9	55	55
2 Curves M.P. 975.0 to 975.8	50	50
M.P. 994.4 to Calwa	40	40

(58.1) ..... Average speed per hour ..... (62.6)

**SWITCHES—MAXIMUM AUTHORIZED SPEED.**

Maximum speed permitted through all yard and roundhouse turnouts and crossovers 10 MPH; all main track turnouts and crossovers 15 MPH except for spring and power controlled switches and crossovers at following locations:

- "I"—Interlocked Switch.
- "S"—Spring Switch.
- "ESL"—Electric Switch Lock.
- "EE"—East End.
- "WE"—West End.

Station	Type	Location	MPH
Bakersfield	I	WE two tracks 1000 feet west of M.P. 888	20
Jastro	I	EE siding	30
	I	WE siding and crossover	40
	I	Porterville-Orosi Jct. switch	30
Una	I	EE and WE siding	40
Shafter	I	EE and WE siding and crossover	40
Wasco	I	EE and WE siding	40
Elmo	I	EE and WE siding	40
Sandrini	I	EE and WE siding	40
Allensworth	I	EE and WE siding	40
Stoil	ESL	EE and WE siding	30
Angiola	I	EE and WE siding	40
Blanco	ESL	Industry track switches	30
Corcoran	I	EE and WE east siding	40
	I	EE and WE west siding	40
Guernsey	I	EE and WE siding	40
Hanford	I	EE and WE east siding	40
	I	EE and WE west siding	30
Shirley	I	EE and WE siding	40
Laton	ESL	EE and WE siding (not signaled)	30
Conejo	I	EE and WE siding	40
Bowles	I	EE and WE siding	40
Calwa	I	End of two tracks	30

**RAILROAD CROSSINGS AT GRADE AND INTERLOCKING**

Location	Tracks Governed	Rule
Hanford	S. P. Coalinga branch.	TCS.
Calwa	0.8 East S. P. main track and entrance to yard.	TCS.

**STATIONS OR TRACKS NOT SHOWN IN SCHEDULE**

Location	Mile Post	Car Capacity	Switch Connection
Rosedale	895.7	49	East & West
Crome	899.5	34	West
Ivy	909.8	10	East
Palmo	910.5	28	West
Neufeld	914.7	6	East
Pond	921.2	40	East
Stoil	936.0	89	East & West
Alpaugh Spur	936.0	4.8 miles	West
Blanco	945.9	68	East & West
Kings Park	963.6	23	East & West
Pitco	970.1	17	East
Lucerne Spur	971.8	0.8 mile	West
Monmouth	985.6	26	East & West

**LENGTH OF STEMS OF WYES**

Location	Feet
Corcoran	Visalia District
Laton	337
Calwa	Visalia District

Normal position for junction switches:  
Corcoran for First District siding  
Laton for First District siding

# 4 VALLEY DIVISION

# SECOND DISTRICT

Capacity of Sidings In 50 ft. Cars	Communications Turn Tables and Wyes	Ruling Grade Ascending— Feet Per Mile	WESTWARD		TIME TABLE		EASTWARD		Mile Post	Ruling Grade Ascending— Feet Per Mile
			FIRST CLASS		NO. 16		FIRST CLASS			
			1		June 15, 1968		2			
Yard	C-R T-Y		Leave Daily	STATIONS		Arrive Daily				
		15.8	AM 5.31	CALWA		PM 8.12	995.2		2.6	
		15.8		1.6			996.8		2.6	
		5.3		S. P. Crossing			997.7		5.3	
Yard	C		s 5.45	S. P. Crossing					5.3	
		15.8		0.4					5.3	
80	B			FRESNO		s 8.05	998.1		5.3	
172	B	15.8		2.0			1000.1		5.3	
180	B	10.6		HAMMOND			1005.0		15.8	
180	B	15.8		4.9			1011.3		15.8	
180	B	15.8		FIGARDEN			1019.6		15.8	
E134 W144	B			6.3			1025.5		15.8	
180	B	7.4		GREGG			1031.1		15.8	
180	B	15.8		8.3			1041.5		15.8	
180	B	7.4		MADERA			1047.3		12.7	
180	B	15.8		5.8			1056.1		17.4	
180	B	18.0		KISMET		s 7.05	1062.9		20.0	
180	B	22.7		5.7			1071.7		15.8	
180	C	26.4		SHARON		s 6.30	1079.6		15.3	
186	C-R	15.8		10.4			1089.2		0.0	
180	C	0.0		LE GRAND		f 6.24	1095.6		15.8	
180	C-R	15.8		5.8			1101.6		15.8	
180	C	0.0		PLANADA			1109.6		5.3	
180	C-R	0.0		8.8			1120.0		10.3	
180	C-R	0.0		MERCED			1120.7		10.3	
180	C-R	0.0		6.8			1121.4		1.8	
180	C-R	0.0		FLUHR		s 6.00	1126.6		0.5	
180	C-R	0.0		8.8			1129.3		0.0	
180	C-R	0.0		BALLIOO		s 5.44	1133.0		5.3	
180	C-R	0.0		7.9			1134.8		10.6	
180	C-R	0.0		DENAIR		s 5.38	1136.8		10.6	
180	C-R	0.0		9.6			1139.8		0.0	
180	C-R	0.0		EMPIRE		s 5.31	1143.0		6.6	
180	C-R	0.0		6.4			1146.1		15.8	
180	C-R	0.0		RIVERBANK		s 5.24	1150.3		15.8	
180	C-R	0.0		6.0			1152.1		6.6	
180	C-R	0.0		ESCALON		s 5.16	1155.8		11.6	
180	C-R	0.0		8.0			1159.2		15.8	
180	C-R	0.0		DUFFY		s 5.10	1163.6		0.0	
180	C-R	0.0		10.4			1168.9		0.0	
180	C-R	0.0		MORMON		s 5.06	1173.4		52.8	
180	C-R	0.0		0.7			1178.0		52.8	
180	C-R	0.0		W. P. Crossing			1179.1		52.8	
180	C-R	0.0		STOCKTON TOWER		f 4.42	1181.5		29.9	
180	C-R	0.0		S. P. Crossing			1182.6		52.8	
180	C-R	0.0		0.7			1186.5		52.8	
180	C-R	0.0		STOCKTON		s 4.30	1189.6		52.8	
180	C-R	0.0		5.2					52.8	
180	C-R	0.0		2.7					52.8	
180	C-R	0.0		GILLIS		s 6.00			52.8	
180	C-R	0.0		2.7					52.8	
180	C-R	0.0		HOLT		s 5.50			52.8	
180	C-R	0.0		3.7					52.8	
180	C-R	0.0		TRULL		s 5.44			52.8	
180	C-R	0.0		1.8					52.8	
180	C-R	0.0		MIDDLE RIVER		s 5.38			52.8	
180	C-R	0.0		2.0					52.8	
180	C-R	0.0		ORWOOD		s 5.38			52.8	
180	C-R	0.0		3.0					52.8	
180	C-R	0.0		BIXLER		s 5.38			52.8	
180	C-R	0.0		3.2					52.8	
180	C-R	0.0		KNIGHTSEN		s 5.31			52.8	
180	C-R	0.0		3.1					52.8	
180	C-R	0.0		OAKLEY		s 5.24			52.8	
180	C-R	0.0		4.2					52.8	
180	C-R	0.0		SANDO YL		s 5.24			52.8	
180	C-R	0.0		1.8					52.8	
180	C-R	0.0		ANTIOCH YL		s 5.22			52.8	
180	C-R	0.0		3.7					52.8	
180	C-R	0.0		PITTSBURG YL		s 5.16			52.8	
180	C-R	0.0		3.4					52.8	
180	C-R	0.0		BROSE		s 5.10			52.8	
180	C-R	0.0		4.4					52.8	
180	C-R	0.0		PORT CHICAGO YL		s 5.06			52.8	
180	C-R	0.0		3.3					52.8	
180	C-R	0.0		MALTBY		s 5.03			52.8	
180	C-R	0.0		6.5					52.8	
180	C-R	0.0		GLEN FRAZER		s 4.55			52.8	
180	C-R	0.0		2.6					52.8	
180	C-R	0.0		CHRISTIE		s 4.50			52.8	
180	C-R	0.0		3.1					52.8	
180	C-R	0.0		COLLIER		s 4.46			52.8	
180	C-R	0.0		2.4					52.8	
180	C-R	0.0		PINOLE		f 4.42			52.8	
180	C-R	0.0		1.1					52.8	
180	C-R	0.0		GATELEY		s 4.40			52.8	
180	C-R	0.0		3.9					52.8	
180	C-R	0.0		RHEEM		s 4.36			52.8	
180	C-R	0.0		3.1					52.8	
180	C-R	0.0		RICHMOND YL		s 4.30			52.8	
180	C-R	0.0		AM		s 4.30			52.8	
180	C-R	0.0		PM		s 4.30			52.8	
180	C-R	0.0		Leave Daily					52.8	
180	C-R	0.0		(194.4)					52.8	
180	C-R	0.0		Leave Daily					52.8	

Trains must get clearance card before leaving Calwa and Richmond.  
 Extra trains must get clearance card before leaving Riverbank.  
 Trains originating must get clearance card before leaving Mormon.  
 Rule 261 (TCS) in effect on main tracks and sidings, except on siding Hammond, between Calwa and signal located 100 feet west of MP 1123.  
 In TCS sidings, speed limit 40 MPH.  
 Rule 85: Between Calwa and Stockton, exchange of train orders, signals and numbers, is not required.  
 At Richmond between MP 1188.6 and junction Oakland district there is no superiority of trains. Trains and engines within these limits must proceed at restricted speed.

### MAXIMUM AUTHORIZED SPEED FOR TRAINS

LOCATION	Psg. and Light	MPH	Frt.
CALWA TO HAMMOND	79		60
HAMMOND TO MORMON	90		60
MORMON TO RICHMOND	79		60
Calwa to M.P. 996.8	40		40
M.P. 996.8 to 1002.0	20		20
M.P. 1002.0 to 1003.2	50		50
Curve M.P. 1047.4 to 1047.9	70		70
Curve M.P. 1053.8 to 1055.7	70		70
Merced M.P. 1055.7 to 1057.0	30		30
2 Curves M.P. 1069.1 to 1070.5	70		70
Curve M.P. 1087.9 to 1088.1	50		50
Oakdale Spur	20		20
Escalon M.P. 1101.4 to 1102.0	60		60
Curve M.P. 1119.1 to 1119.5	60		60
Stockton M.P. 1120.0 to 1122.0	20		20
Track M.P. 1134.7 to 1136.4	30		30
Curve M.P. 1139.5 to 1139.8	65		60
Antioch M.P. 1151.3 to 1152.3	45		45
Pittsburg M.P. 1155.4 to 1156.1	24		24
2 Curves M.P. 1161.3 to 1161.9	50		50
4 Curves M.P. 1167.3 to 1168.6	50		50
2 Curves M.P. 1168.6 to 1170.5	60		60
10 Curves M.P. 1170.5 to 1173.6	45		45
Tunnel No. 3 & 2 Curves M.P. 1173.6 to 1175.5	50		50
14 Curves M.P. 1175.5 to 1180.9	45		45
4 Curves M.P. 1180.9 to 1182.5	55		55
4 Curves M.P. 1184.7 to 1187.8	50		50
1 Curve M.P. 1187.8 to 1189.0	45		45
2 Curves M.P. 1189.0 to 1189.6	20		20

When street or highway crossings are shown, speed applies only while head end of train is passing.

Rule 93: Yard limits are located at:  
 Du Pont to and including Pittsburg  
 Port Chicago  
 Richmond

Normal position for junction switches:  
 Hammond for Second District siding

At Mormon, first class and extra trains except those originating or terminating, may register by form 903.

(Continued on Page 5)

# SECOND DISTRICT

# VALLEY DIVISION 5

(Continued from Page 4)

### SWITCHES—MAXIMUM AUTHORIZED SPEED

Maximum speed permitted through all yard and roundhouse turnouts and crossovers—10 MPH; all main track turnouts and crossovers—15 MPH; except for spring and power controlled switches and crossovers at following locations:

- "I"—Interlocked Switch.
- "S"—Spring Switch.
- "ESL"—Electric Switch Lock.
- "EE"—East End.
- "WE"—West End.

Station	Type	Location	MPH
Fresno	I	2 crossovers MP 996.8	30
		Turnout yard lead to eastward main track MP 996.8	30
	I	End of two tracks	20
Figarden	I	EE and WE siding	40
Gregg	I	EE and WE siding	40
Madera	I	EE and WE siding	40
Kismet	I	EE and WE siding	40
Sharon	I	EE and WE siding and crossover	40
Legrand	I	EE and WE siding	40
Planada	I	EE and WE siding	40
Merced	I	EE siding	40
		WE siding	30
Fluhr	I	EE and WE siding	40
Ballico	I	EE and WE siding	40
Denair	I	EE and WE siding	40
Empire	I	EE and WE siding	40
Riverbank	I	EE and WE of lead	15
		EE and WE siding	40
Escalon	I	EE and WE siding	40
Duffy	I	EE and WE siding	40
Mormon	I	EE siding	40
Stockton	I	2 crossovers	30
		WE siding	30
Gillis	S	EE and WE siding	30
Holt	S	EE and WE siding	30
Trull	S	EE and WE siding	30
Orwood	S	EE siding	15
		WE siding	30
Bixler	S	EE and WE siding	30
Knightesen	S	EE and WE siding	30
Sando	S	EE siding	30
Antioch	S	WE siding	30
Pittsburg	S	EE siding	15
		WE siding	30
Brose	S	EE and WE siding	30
Port Chicago	S	EE and WE siding	30
Maltby	S	EE and WE siding	30
Glen Frazer	S	EE and WE siding	30
Christie	S	EE and WE siding	30
Collier	S	EE and WE siding	30
Gateley	S	EE and WE siding	30
Rheem	S	EE and WE siding	30

At Sando, westward train on main track meeting eastward train must not pass preliminary board until Signal 11503 assumes stop position; westward train on siding must occupy spotting section two minutes with switch reversed, after which Signal 11505 will clear if main track unoccupied.

At Glen Frazer, westward train finding Signal 11731 or Signal 11733 in stop position may obtain proceed signal if route is clear by inserting switch key in governing signal box and turning to right. Westward train on auxiliary siding will find Signal 11735 in stop position and may obtain proceed signal if route is clear by lining switch for main track.

At Christie, eastward train on main track to meet westward train, must not pass preliminary board in advance of Signal 11752 until westward train has entered siding. Eastward train on siding must remain west of spotting section until ready to depart. Spotting section designated by sign near dwarf Signal 11754. Eastward train, when ready to proceed, must occupy spotting section between sign and dwarf signal; signal will clear in 45 seconds if main track is clear between west end of Glen Frazer and Signal 11782 at east end of Collier. If train is occupying section of main track between east end of Christie and Signal 11782 at east end of Collier, the signal will not clear before two and one-half minutes.

Train failing to secure proceed indication on Signals 11731, 11733, 11735, 11752 or 11754 through procedure indicated above will be preceded through tunnel by flagman and train will not enter tunnel until flagman reaches opposite end of tunnel, calls on phone and notifies dispatcher and conductor (latter will listen in on phone at portal of tunnel from which flagman started) that route is clear. Flagman will specify "This is Flagman (giving name) of Train No. (giving number of train) and the route is clear." Conductor will acknowledge this information and train will proceed through tunnel at restricted speed. Booth telephones located at each portal of tunnel.

Night signals will be displayed through all tunnels between Maltby and Christie.

### LENGTH OF STEMS OF WYES

Location	Feet
Calwa	Visalia District
Mormon	2610
Stockton	1450

### STATIONS OR TRACKS NOT SHOWN IN SCHEDULE

Location	Mile Posts	Car Capacity	Switch Connection	Location	Mile Posts	Car Capacity	Switch Connection
Trigo	1014.3	40	East & West	Woodsbro	1125.5	54	East & West
Tuttle	1050.7	54	East & West	Werner	1138.8	23	East & West
Kadota	1052.1	22	East & West	Du Pont	1147.6	58	East & West
Pritchard	1058.9	20	East	Bridgehead	1148.4	16	East & West
Winton	1065.4	18	East & West	East Antioch	1149.2	127	East & West
Cortez	1074.6	15	East & West	Zee	1149.7	64	East & West
Hughson	1085.8	38	East & West	Nichols	1161.3	15	East
Claus	1092.8	42	East & West	Monsanto	1165.8	44	East & West
Oakdale Spur	1095.6	6.5 miles	East	Muir	1170.6	..	East
Burnham	1112.5	34	East & West	Herpoco	1180.4	..	West
Rockwell	1114.8	13	East & West	San Pablo	1187.8	11	East & West

### RAILROAD CROSSINGS AT GRADE AND INTERLOCKING

Location	Tracks Governed	Rule	Whistle Signal in Addition to Rule 14(Z)
Calwa	1.6 West S. P. Porterville branch.	TCS.	{ Main line to Town lead — 0 — S. P. North transfer 00 — S. P. South transfer 000 — W. P. main track connection 0 — Town lead thru plant — 0
Fresno	0.4 East S. P. Friant branch.	TCS.	
Oakdale	S. P. Oakdale branch.	98 (A), 98 (B).	
Stockton Tower	W. P. and S. P. main tracks and transfer tracks.	Interlocking.	
Stockton	1.0 West Main track and siding.	Interlocking.	
Orwood	0.8 East Drawbridge and siding.	Interlocking.	
Pittsburg	0.9 East Lead to Columbia Steel over S. N.	98 (A), 98 (B) and Bulletin Instructions.	
Pittsburg	0.2 West Lead to Johns Manville over S. N.	98 (A), 98 (B), and Bulletin Instructions.	
Pittsburg	0.9 West Lead to P. G. & E. plant over S. N. main track.	Stop. Gate. Bulletin Instructions.	

# 6 VALLEY DIVISION

# PORTERVILLE-OROSI DISTRICT

Capacity of Sidings In 50 ft. Cars	Ruling Grade Ascending— Feet Per Mile	TIME TABLE NO. 16 June 15, 1968		Mile Post	Ruling Grade Ascending Feet Per Mile	Communications Turn Tables and Wyes
		WESTWARD	EASTWARD			
Yard		STATIONS				
		TCS	BAKERSFIELD	116.0		C-R-T
			2.5		0.0	
29	13.3		LANDCO YL	113.5	51.5	B-Y
28	0.0		OIL JUNCTION YL	110.7		B
			38.8			
			DUCOR YL	71.9		C
48	52.8		5.9	52.8		
			ULTRA	66.0		B
			7.0			
			PORTERVILLE JCT. YL	59.0		
			S. P. Crossing			
42	0.0		0.8		33.2	
			PORTERVILLE YL	58.2		C-Y
32	52.8		6.3	52.8		B
			STRATHMORE JCT.	51.9		
			1.1		0.0	
28	31.1		MIRADOR	50.8		
			1.1		31.4	
52	3.1		LINDSAY YL	46.7		C
			3.1		34.8	
16	5.0		LUCCA	43.6		
			0.6		0.0	
12	0.0		SIDES	43.0		
			3.8		0.0	
40	15.8		EXETER YL	39.2		C
			0.3		0.0	
			Visalia Elect. Crossing	38.9		
16	15.8		2.2		5.3	
			VENIDA	36.7		
16	0.0		2.7		5.3	
			FANE	34.0		B
			2.8		8.9	
			HILLMAID	31.2		
			0.1		30.8	
			Visalia Elect. Crossing	31.1		
16	20.8		1.0		30.8	
			REDBANKS	30.1		B
10	0.0		1.8		20.8	
			CAIRNS	28.3		
			1.4		17.4	
18	0.0		RAYO	26.9		
			1.4		17.4	
32	0.0		SEVILLE	23.8		
			2.2		10.8	
			WYETH YL	20.6		B-Y
66	0.0		1.6		26.8	
			CUTLER YL			C
			1.6		0.0	
			WYETH YL	20.6		B-Y
24	14.4		2.7		0.0	
			OROSI YL	18.6		B
42	30.3		4.1		15.2	
			ORANGE COVE YL	12.2		C
			5.9		10.6	
23	16.2		NAVALENCIA YL	6.3		
			6.3		31.7	
22	25.3		MINKLER YL	0.0		Y
			(116.0)			

Rule 93: Yard limits are located at:  
 Landco to Oil Jct.  
 Ducor (Santa Fe tracks only)  
 Porterville to and including Porterville Jct.  
 Lindsay  
 Exeter  
 Cutler to and including Wyeth  
 Wyeth to and including Minkler via Orosi

Normal position of junction switches:  
 Wyeth for Porterville-Orosi District  
 Minkler for Wahtoke District

### LENGTH OF STEMS OF WYES:

Location	Feet
Landco	1300
Minkler	Porterville-Orosi District
Wyeth	1.6 Miles
Porterville	1143

### STATIONS OR TRACKS NOT SHOWN IN SCHEDULE

Location	Mile Post	Car Capacity	Switch Connection
Wimp	22.2	5	East
Twin Buttes	25.3	9	West
Woodlake Spur	33.5	2.2 miles	West
Winco	32.4	15	East & West
West Venida	36.1	11	West
Matchin	37.3	10	East
List	40.6	20	West
Sierra Heights	48.5	13	East
Gillette	50.4	52	East
Strathmore Spur	52.0	1.2 miles	East
Euclid	54.3	22	West
Mosian	54.5	23	East
Lumer	60.9	6	East
Sunland Spur	61.4	1 mile	West
Magnolia	61.9	14	East

### RAILROAD CROSSINGS AT GRADE AND INTERLOCKINGS

Location	Tracks Governed	Rules
Hillmaid . . . . 0.1 West	Visalia Elec.	98 (A), 98 (B).
Exeter . . . . . 0.3 West	Visalia Elec.	98 (A), 98 (B).
Porterville . . . . 0.8 East	S. P. Success branch.	98 (A), 98 (B).

### MAXIMUM AUTHORIZED SPEED FOR TRAINS

LOCATION	Psgr. and Light	MPH	Fr.
PORTERVILLE-OROSI DISTRICT	40	40	
Track M.P. 0.0 to 12.0	10	10	
Track M.P. 12.0 to Cutler	25	25	
Woodlake Spur	10	10	
Exeter M.P. 39.1 to 39.6	20	20	
Lindsay M.P. 46.1 to 47.1	20	20	
Strathmore Spur	15	15	
Sunland Spur	15	15	
2 Curves M.P. 61.5 to 62.1	30	30	
Between Porterville and Ducor	40	30	
Between Oil Junction and Landco	20	20	

Movements between Bakersfield and Landco will be made under Rule 261 (TCS) on First District.

No switch lights between Ducor and Minkler.

Southern Pacific time table and rules govern between Oil Junction and Ducor.

### SWITCHES—MAXIMUM AUTHORIZED SPEED

Maximum speed permitted through all yard and roundhouse turnouts and crossovers 10 MPH; all main track turnouts and crossovers 15 MPH except for spring and power controlled switches and crossovers at following locations:

"I"—Interlocked Switch. "ESL"—Electric Switch Lock.  
 "S"—Spring Switch. "EE"—East End.  
 "WE"—West End.

Station	Type	Location	MPH
Landco	S	Stem of wye	10
	S	EE siding	15

# VISALIA AND WAHTOKE DISTRICTS

## VISALIA DISTRICT

Communications Turn Tables and Wyes	Capacity of Sidings in 50 ft. Cars	Rating Grade Ascending— Feet Per Mile	TIME TABLE NO. 16 June 15, 1968		Mile Post	Rating Grade Ascending— Feet Per Mile
			WESTWARD	EASTWARD		
			STATIONS			
C-R-Y	Yard		CORCORAN	YL	0.3	
		28.5	4.1			0.0
B	16	13.2	WAUKENA		4.4	0.0
	32	16.6	5.6			0.0
			PAIGE		10.0	0.0
			5.0			0.0
C	24	13.9	S. P. Crossing TULARE	YL	15.0	0.0
	52	5.3	5.2			0.0
			LOMA		20.2	0.0
			5.0			0.0
C	46	0.0	VISALIA	YL	25.2	16.2
	28	11.6	S. P. Crossing PERAL		31.8	0.0
			6.6			0.0
			S. P. Crossing CALGRO		33.3	0.0
			2.9		36.2	0.0
B		10.6	2.3		38.5	15.9
C	66	0.0	CUTLER	YL	38.5	0.0
			3.2			0.0
C	32	0.0	SULTANA		41.7	13.2
			3.4			0.0
C	52	9.3	DINUBA		45.1	0.0
			3.7			0.0
C-Y	Yard	14.6	REEDLEY	YL	48.8	0.0
			1.9			0.0
			S. P. Crossing LAC JAC		50.7	0.0
			0.3		51.0	0.0
			2.4			0.0
C	68	5.3	PARLIER	YL	53.4	0.0
			1.4			0.0
			MILEY		54.8	2.5
			3.7			7.9
C	52	1.1	DEL REY	YL	58.5	8.5
			3.4			8.5
			CASTY		61.9	10.6
			2.5			10.6
			LONE STAR	YL	64.4	
			2.0			
			OCILE		66.4	
			2.5			
C-R T-Y	Yard	0.0	CALWA	YL	68.9	
			(68.6)			

## WAHTOKE DISTRICT

Communications Turn Tables and Wyes	Capacity of Sidings in 50 ft. Cars	Rating Grade Ascending— Feet Per Mile	TIME TABLE NO. 16 June 15, 1968		Mile Post	Rating Grade Ascending— Feet Per Mile
			WESTWARD	EASTWARD		
			STATIONS			
Y	22	0.0	MINKLER		9.7	31.7
	76	0.0	1.9			0.0
	17	0.0	CELLA		7.8	0.0
	32	33.2	2.5			0.0
			WAHTOKE		5.3	0.0
			1.4			0.0
			RADWIN		3.9	41.4
			3.9			
C-Y	Yard	0.0	REEDLEY		0.0	
			(10.1)			

Yard limits MP 10.1 to Reedley, inclusive.  
Main track ends at MP 10 + 336'; just east of Minkler.  
No switch lights on Wahtoke District.

## MAXIMUM AUTHORIZED SPEED FOR TRAINS

LOCATION	Psg. and Light	MPH	Fr.
<b>VISALIA DISTRICT</b>			
Corcoran to Visalia		30	30
Visalia to Calwa		40	40
Tulare M.P. 14.3 to 15.9		20	20
Visalia M.P. 24.5 to 26.0		15	15
Reedley M.P. 48.2 to 49.5		20	20
Parlier M.P. 53.1 to 53.6		24	24
Del Rey M.P. 58.4 to 58.8		24	24
<b>WAHTOKE DISTRICT</b>		25	25

Maximum speed permitted through all yard and roundhouse turnouts and crossovers 10 MPH; all main track turnouts and crossovers 15 MPH.

### Normal position of junction switches:

- Corcoran for First District siding
- Cutler for Visalia District
- Reedley for Visalia District
- Minkler for Wahtoke District

### Length of stems of wyes:

- Corcoran . . . . . Visalia District
- Calwa . . . . . Visalia District
- Reedley . . . . . Wahtoke District
- Minkler . . . Porterville-Orosi District

### Rule 93: Yard limits are located at:

- Cutler to and including Wyeth
- Reedley
- Wahtoke District
- Parlier
- Del Rey
- Lone Star
- Visalia
- Tulare
- Corcoran (Visalia District only)
- Calwa (Visalia District only)

## STATIONS OR TRACKS NOT SHOWN IN SCHEDULE

### VISALIA DISTRICT

Location	Mile Posts	Car Capacity	Switch Connection
Higby	22.1	12	East & West
Tokay	42.3	25	East & West
Enson	43.9	14	East
Mattei Spur	65.2	2.2 miles	West

## RAILROAD CROSSINGS AT GRADE AND INTERLOCKINGS

Location	Tracks Governed	Rules
Tulare	S. P. main track.	Interlocking. Bulletin Instructions.
Visalia	S. P. Visalia branch.	98 (A), 98 (B).
Peral . . . . 1.5 West	S. P. Porterville branch.	98 (A), 98 (B).
Lac Jac . . . 0.3 East	S. P. Porterville branch.	98 (A), 98 (B).

At Cutler and Corcoran on Visalia District, trains may register by Form 903 during hours these offices are open.

# 8 VALLEY DIVISION

# LATON AND ARVIN DISTRICTS

## LATON DISTRICT

Capacity of Sidings in 50 ft. Cars	Ruling Grade Ascending — Feet Per Mile	WESTWARD ↓	TIME TABLE	EASTWARD ↑	Mile Post	Ruling Grade Ascending — Feet Per Mile	Communications Turn Tables and Wyes
			NO. 16 June 15, 1968				
			STATIONS				
57			LATON		0.0		B-Y
	0.0		5.6 CLINT		5.6	10.4	
7	0.0		4.0 GEFFORD		9.8	0.0	
10	0.0		6.0 SHILLING		15.8	0.0	
16	0.0		1.8 LANARE		17.4	0.0	Y
11			(17.4)				

No switch lights on Laton District.  
Yard limits Laton to Lanare, inclusive.  
Normal position junction switch Laton for First District siding.

## ARVIN DISTRICT

Capacity of Sidings in 50 ft. Cars	Ruling Grade Ascending — Feet Per Mile	WESTWARD ↓	TIME TABLE	EASTWARD ↑	Mile Post	Ruling Grade Ascending — Feet Per Mile	Communications Turn Tables and Wyes
			NO. 16 June 15, 1968				
			STATIONS				
100			ARVIN		338.1		B
	42.2		4.3 DI GIORGIO		328.8	37.0	B-Y
87	0.0		2.0 RIBIER		326.8	42.2	
54	0.0		2.2 LAMONT		324.6	43.3	B
	0.0		1.1 WEST LAMONT		323.5	43.3	
	0.0		6.6 ALGOSO		316.9	43.3	
	0.0		0.3 MAGUNDEN		316.6	43.3	B
			(16.5)				

No switch lights on Arvin District.  
Yard limits Arvin to Magunden, inclusive.

## MAXIMUM AUTHORIZED SPEED FOR TRAINS

LOCATION	MPH	
	Psg. and Light	Frt.
ARVIN DISTRICT .....	25	25
Curve M.P. 316.7 to 317.1 .....	10	10
Curve M.P. 329.7 to 329.9 .....	10	10
LATON DISTRICT .....	15	15

Maximum speed permitted through all yard and roundhouse turnouts and crossovers 10 MPH; all main track turnouts and crossovers 15 MPH.

## STATIONS OR TRACKS NOT SHOWN IN SCHEDULE

### ARVIN DISTRICT

Location	Mile Posts	Car Capacity	Switch Connection
Lonsmith .....	318.0	7	East & West
Harpertown .....	321.1	20	East & West
Patch .....	325.9	15	East

## LENGTH OF STEM OF WYES

Laton .....	337 Ft.
Di Giorgio .....	500 Ft.



Capacity of Sidings in 30 ft. Cars	Ruling Grade Ascending Feet Per Mile	WESTWARD ↓	TIME TABLE	EASTWARD ↑	Mile Post	Ruling Grade Ascending Feet Per Mile	Communications Turn Tables and Wyes
			NO. 16 June 15, 1968				
Yard	66	20	STATIONS	Yard	0.0	39.6	C-R T-Y
	64.4		RICHMOND		0.0	39.6	C-R T-Y
	22.7		4.5 EL CERRITO		4.5	31.7	B
	0.0		3.5 BERKELEY		8.0	0.0	C
	0.0		1.9 S. P. Crossing		9.9	79.4	
Yard			1.0 OAKLAND 40th and San Pablo		10.9		C-R-Y
			(10.9)				

Engine bell must ring continuously while moving between Richmond and Oakland.

Train and engine movements between Richmond and Oakland will be made in accordance with Rule 105.

**MAXIMUM AUTHORIZED SPEED FOR TRAINS**

LOCATION	Psg. and Light	MPH
		Frts.
OAKLAND DISTRICT .....	20	20
Track M.P. 0.0 to 10.2 .....	20	20
Track M.P. 10.2 to 10.8 .....	15	15
Track M.P. 10.8 to 10.9 .....	5	5

Maximum speed permitted through all yard and roundhouse turnouts and crossovers 10 MPH; all main track turnouts and crossovers 15 MPH.

**RAILROAD CROSSING AT GRADE AND INTERLOCKINGS**

Location	Tracks Governed	Rules
Berkeley ..... 1.9 West	S. P. Berkeley branch.	When home signal indicates STOP be governed by Rules 98 (A), 98 (B).
Oakland ..... 0.7 West	AT&SF, S. P., O. T. Ry., single slip switch crossings.	Bulletin Instructions.
Oakland ..... 1.1 West	S. P. West Oakland connection.	98 (A), 98 (B).

**STATIONS OR TRACKS NOT SHOWN IN SCHEDULE**

Location	Mile Posts	Car Capacity	Switch Connection
Malott .....	4.0	8	East & West
Fairmount Avenue .....	5.7	11	East

**LENGTH OF STEMS OF WYES:**

Oakland (new) .....	1800 ft.
Oakland (old) .....	320 ft.
Richmond .....	Oakland District

# 10 VALLEY DIVISION

# OIL CITY AND FRESNO INTERURBAN DISTRICTS

## FRESNO INTERURBAN DISTRICT

Capacity of Sidings in 50 ft. Cars	Ruling Grade Ascending— Feet Per Mile	WESTWARD ↓	TIME TABLE NO. 16 June 15, 1968		Mile Post	Ruling Grade Ascending— Feet Per Mile
			STATIONS	EASTWARD ↑		
			HAMMOND		0.0	
7	0.0		2.0 CINCOTTA		2.0	0.0
6	0.0		0.4 BARTONETTE		2.4	0.0
24	0.0		2.6 CAMEO S. P. Crossing		5.0	0.0
6	0.0		2.2 BURNES		7.2	0.0
24	0.0		5.8 FAIRVIEW		13.0	0.0
7	42.2		1.2 BIG BUNCH		14.2	10.6
14	15.3		1.0 ZEDIKER		15.2	8.4
10	9.5		0.5 RIVERBEND		15.7	0.0
4	31.7		1.0 ELK		16.7	42.2
	10.6		0.2 BELMONT AVE.		16.9	0.0
			(16.9)			

No switch lights on Fresno Interurban District.  
Booth phone at Hammond.  
Yard limits Hammond to Belmont Ave., inclusive.

Normal position of junction switches:  
Hammond for Second District siding.  
Cameo for Fresno Interurban District.

### MAXIMUM AUTHORIZED SPEED FOR TRAINS

LOCATION	Pgr. and Light	MPH	Frt.
FRESNO INTERURBAN DISTRICT	15	15	15
OIL CITY DISTRICT	20	20	20

Maximum speed permitted through all yard and roundhouse turnouts and crossovers 10 MPH; all main track turnouts and crossovers 15 MPH.

### RAILROAD CROSSING AT GRADE AND INTERLOCKINGS

Location	Tracks Governed	Rules
Cameo	S. P. Friant branch.	98 (A), 98 (B).

### STATIONS OR TRACKS NOT SHOWN IN SCHEDULE

Location	Mile Posts	Car Capacity	Switch Connection
Hammer Field Spur	4.9	1 Mile	East

## OIL CITY DISTRICT

Capacity of Sidings in 50 ft. Cars	Ruling Grade Ascending— Feet Per Mile	WESTWARD ↓	TIME TABLE NO. 16 June 15, 1968		Mile Post	Ruling Grade Ascending— Feet Per Mile	Communications Turn Tables and Wyes
			STATIONS	EASTWARD ↑			
38	21.1		OIL JUNCTION		308.6	0.0	B-Y
28	10.5		2.2 SEGURO		310.8	0.0	
24	10.5		0.8 MALTHA		311.6	0.0	
Yard	52.8		2.1 OIL CITY		313.7	42.2	
			(5.1)				

No switch lights on Oil City District.  
Yard limits Oil Junction to Oil City, inclusive.

## SPECIAL RULES

1. Rule S-72: Except as otherwise provided, all eastward trains are superior to westward trains of the same class.

2. Rule 2: Standard clocks are located at Barstow (telegraph office and roundhouse), Bakersfield (telegraph office and roundhouse), Calwa (telegraph office and roundhouse), Fresno, Riverbank, Mormon (telegraph office and roundhouse), Pittsburg, Richmond (telegraph office and roundhouse).

Rule 3: Crews of Southern Pacific and Sacramento Northern trains, having complied with their Companies' time regulations, may proceed over joint track.

Southern Pacific trains using joint track on Fresno Interurban District and between Ducor and Porterville Jct. and Sacramento Northern trains using joint track between Stockton Tower and Pittsburg will be governed by A.T.&S.F. time table and Rules, Operating Department.

3. Within traffic control system limits, where maximum speed exceeds 20 MPH, a train or engine must not clear the main track through a hand-thrown switch, not electrically locked, for the purpose of meeting, passing or being passed by another train or engine.

4. Rule 80: Bulletin books are located at Barstow, Bakersfield, Ducor, Calwa, Fresno, Riverbank, Mormon, Pittsburg, Richmond, and San Francisco (China Basin).

5. Rules 83 and 83 (A): Bakersfield, Southern Pacific register will be maintained to comply with Southern Pacific Rule 83-C, reflecting information on Kern Jct. register, but will not be used for registration.

6. Rule 104 (E) is amended: All sidings having hand-thrown derails will have derail locked off rail, except when engines or cars are left unattended on siding.

7. Rule 761: Following is list of structures:

Mile Post	Location	Description
746.5	Barstow viaduct over passenger yard tracks and house tracks 1 to 4, inclusive	
888.5	Bridge 888.5	Highway Bridge
888.8	Bridge 888.75	Highway Bridge
1096.7	Bridge 1096.719	Truss Bridge
1166.4	Bridge 1166.47	S. P. Bridge
1166.5	Bridge 1166.48	Highway Bridge
1169.3	Bridge 1169.3	Highway Bridge
1170.2	Between Maltby and Muir	Tunnel No. 1
1171.0	Between Muir and Glen Frazer	Tunnel No. 2
1173.6	Between Glen Frazer and Christie	Tunnel No. 3
1183.1	Bridge 1183.1-A	Road Bridge
1190.5	Between Richmond and Ferry Point	Tunnel No. 5

## VALLEY DIVISION 11

### SPEED REGULATIONS

8. Derricks, cranes, pile drivers, spreaders\* and similar machinery moving on their own running gear must not be moved in trains except on authority of trainmaster, and trains handling such equipment must not exceed speeds indicated below:

District	Pile Drivers AT-199452 AT-199453 AT-199454 AT-199455 AT-199720	Wrecking Derricks	Other Machines Including Derrick 199775
	MPH	MPH	MPH
Mojave, First, Second	45	40	30
Oakland, Porterville-Orosi and Visalia	20	20	20
Any point on all other Districts	15	15	15

\*Trains handling spreaders with wings folded and fastened must not exceed 45 MPH.

Trains handling scale test cars AT 199913, AT 199914, or AT 199915 must not exceed 50 MPH.

Pile drivers must be handled in train next to engine.

9. Rule 817: Equipment listed below must not be moved through water above top of rail greater than the depths and not in excess of the speeds shown:

### MAXIMUM DEPTH OF WATER THROUGH WHICH EQUIPMENT MAY BE OPERATED AND MAXIMUM SPEEDS IN SUCH OPERATION

Types of Equipment	Maximum Depth Above Top of Rail (Inches)	Maximum Speed in Tow (MPH)	Maximum Speed Under Own Power (MPH)
Diesel Locomotives: 80-87, 350-359, 400-405, 602-611, 800-849, 1600-1615, 2099-2161 ...	3	5	5
55-78, 650-653, 2310-2321, 3001-3019	4	5	5
16-48, 99, 100-108, 200-344, 500-564, 625-633, 700-751, 900-979, 1100-1174, 1200-1284, 1300-1460, 1500-1537, 1700-1719, 1800-1889, 1900-1939, 2200-2299, 2303-2304, 2322-2399, 2403-2441, 2650-2893	5	5	5
Diesel-Electric Motor Cars	3	5	5
Passenger Cars: Roller Bearings	8	5	0
Friction Bearings	12	5	0

### MAXIMUM SPEED OF LOCOMOTIVES AND MOTOR CARS

Diesel Locomotives and Motor Cars	Forward	Light	Backing or When Not Controlled From Lead Unit	Dead In Train
	Miles Per Hour	Miles Per Hour	Miles Per Hour	Miles Per Hour
16-48, 55-78, 80-87, 100-108, 300-314	100	90	45	90
325-344	90	90	45	90
350-359	90	90	*45	90
400-405, 1900-1939	90	90	45	90
1100-1174, 1800-1889	80	80	*45	80
200-289	70	70	45	70
99, 602-611, 700-751, 800-849, 900-979, 1200-1284, 1300-1460, 1600-1615, 1700-1719, 2099, 2101-2161, 2650-2893, 3001-3019	70	70	*45	70
500-564, 625-633, 650-653, 1500-1537, 2200-2299, 2303-2399, 2403-2441	45	45	45	45
RDC 191, 192	85	85	50	85
M-160, M-190	80	65	25	75

\*NOTE: Forward speed applies when backing handling train controlled from leading unit.

**SPEED TABLE—FOR INFORMATION ONLY**

Time Per Mile		Miles Per Hour	Time Per Mile		Miles Per Hour	Time Per Mile		Miles Per Hour
Min.	Sec.		Min.	Sec.		Min.	Sec.	
..	36	100	..	58	62.1	1	40	36.0
..	37	97.3	..	59	61.0	1	42	35.3
..	38	94.7	1	..	60.0	1	44	34.6
..	39	92.3	1	02	58.0	1	46	34.0
..	40	90.0	1	04	56.2	1	48	33.3
..	41	87.8	1	06	54.5	1	50	32.7
..	42	85.7	1	08	52.9	1	52	32.1
..	43	83.7	1	10	51.4	1	54	31.6
..	44	81.8	1	12	50.0	1	56	31.0
..	45	80.0	1	14	48.6	1	58	30.5
..	46	78.3	1	16	47.4	2	..	30.0
..	47	76.6	1	18	46.1	2	05	28.8
..	48	75.0	1	20	45.0	2	10	27.7
..	49	73.5	1	22	43.9	2	15	26.7
..	50	72.0	1	24	42.9	2	30	24.0
..	51	70.6	1	26	41.9	2	45	21.8
..	52	69.2	1	28	40.9	3	..	20.0
..	53	67.9	1	30	40.0	3	30	17.1
..	54	66.6	1	32	39.1	4	..	15.0
..	55	65.5	1	34	38.3	5	..	12.0
..	56	64.2	1	36	37.5	6	..	10.0
..	57	63.2	1	38	36.8	12	..	5.0

**SURGEONS OF THE SANTA FE COAST LINES HOSPITAL ASSOCIATION**

DR. LAWRENCE CHAFFIN, CHIEF SURGEON  
Los Angeles, Calif.

DR. A. L. KIEFER, ASSISTANT CHIEF SURGEON  
Los Angeles, Calif.

DR. L. E. WALTER, ASSISTANT CHIEF SURGEON  
Los Angeles, Calif.

A. J. STROBEL, GENERAL WATCH INSPECTOR  
Topeka, Kansas

R. W. WELLS, ASST. GENERAL WATCH INSPECTOR  
San Bernardino, Calif.

For name and address of local surgeons and local watch inspectors, refer to bulletin book.

**CONDITIONAL STOPS SHOWN WILL BE MADE ONLY FOR REVENUE PASSENGERS**

The term "beyond" refers to regular, flag or conditional stops authorized herein.

Train	Stops at Stations	To Receive Passengers For	To Discharge Passengers From
1	Grants	North of Barstow	Clovis and beyond
	Edwards		Belen and beyond
2	Edwards	Belen and beyond	
	Holbrook	Clovis and beyond	
	Grants	Clovis and beyond	North of Barstow
17	Flagstaff	San Bernardino and beyond	Albuquerque and beyond
	Kingman	San Bernardino and beyond	Newton and beyond
18	Kingman	Newton and beyond	San Bernardino and beyond
	Flagstaff	Albuquerque and beyond	San Bernardino and beyond
23	Laguna		Belen and beyond
73, 75, 77	Pico Rivera		Oceanside and beyond
73	San Juan Capistrano	Los Angeles	
73	Orange	Los Angeles	Oceanside and beyond
74	Orange, San Juan Capistrano and Encinitas		San Bernardino and beyond
77	Orange	Los Angeles	
76	San Clemente		Los Angeles
75, 77	Encinitas	Los Angeles	
74, 76, 78	Pico Rivera	Oceanside and beyond	
76, 78	San Juan Capistrano		Los Angeles
76	Encinitas		Los Angeles

**AVOID DAMAGE—SWITCH CUSTOMERS' CARS CAREFULLY**

Damage to freight or car can be avoided by always keeping coupling speed within the safe range—NOT OVER 4 MILES PER HOUR—A BRISK WALK.

*Handle freight carefully and keep our customers.*

**IT'S EVERYBODY'S JOB ON THE SANTA FE!**

Attendants accompanying live-stock or other shipments, may be carried on the train handling shipments of which they are in charge, when provided proper transportation.