# SOUTHERN PACIFIC COMPANY



# SAN JOAQUIN DIVISION SPECIAL INSTRUCTIONS

No. 5

AT 12:01 A. M.,
PACIFIC STANDARD TIME
SUPERSEDING SPECIAL INSTRUCTIONS No. 4

THESE INSTRUCTIONS CONSTITUTE A PART
OF THE TIMETABLE CURRENTLY IN
EFFECT

R. E. HALLAWELL, General Manager.

E. D. MOODY,
W. D. LAMPRECHT,
Assistant General Managers.

C. H. GRANT,
General Superintendent of
Transportation.

D. P. BOYKIN, Superintendent of Transportation.

W. E. EASTMAN, Superintendent.

⊙This symbol indicates change except on rating of engines pages, such changes are not so indicated.

ORULE A. The following rules have been revised. Revised pages have been printed covering these changes, and employes must have revised pages in their copy of Book of

Page Number	Rule Revised
17	7-A
19	
53	
104	
108	
126	
127	
130	
131	. 832 (cancelled)

RULE M. Employes are warned that it is dangerous to ride on top or side of cars while passing points where impaired clearance exists, and that they must protect themselves from injury. See list of impaired clearances on main track and siding.

There are numerous other structures with impaired clearance on yard and station tracks on the division, and employes must be familiar with their location and avoid personal injury.

RULE 10-J. Speed signs prescribing an increase in speed will not be installed on branches. Speed Restrictions tables will indicate permissible speeds between mile post locations named.

ORULE 14. The following paragraph has been added:

"Signs bearing the letter 'X', located one-fourth mile in advance of certain public crossings at grade, and signs bearing the letter 'W', located one-fourth mile in advance of certain tunnels and obscure curves, require engine whistle signal as prescribed by Rule 14(1). Absence of these signs, in advance of public crossings at grade, tunnels or obscure curves, does not relieve engineers from complying with Rule 14(1)."

**RULE 19.** AT&SFRy trains will use markers with yellow lens instead of green lens and yellow aspect will be considered the same as green aspect.

ORULE 20. All sections, except the last section, of AT&SFRy trains will display green flags in addition to green lights by day or night.

©RULE 21-B. AT&SFRy extra trains with engines not equipped with train indicators will display two white lights by day and by night, but are not required to display two white flags by day or by night for identification.

ORULE 35. First paragraph is revised to read:
"The following signals must be used by flagmen:
Day signals: A red flag, torpedoes and fusees.
Night signals: A white light, torpedoes and fusees."

 $\odot$ RULE 99-A. The following paragraph has been added:

"When protection is to be afforded for other than a train or engine and where conditions may interfere with the safe passage of trains or engines at normal speed, flagman must provide protection in accordance with second paragraph of Rule 99."

RULE 99-C. Will apply on Porterville line, and on all ranches.

#### ⊙RULE 102-A. Is revised to read:

"When part of a train is left on main track by night, or by day where the view is obscured, two torpedoes must be placed on the rail two rail-lengths apart, one-fourth mile in advance of the rear part of the train, to warn enginemen, and by night a white light must be placed on the front of the rear part of the train. When circumstances require, a flagman must protect engine when returning."

RULE 211. Form N train order may be issued to authorize lowering of train-order signal arm twice and its return to stop position as a calling-on signal, at stations where letter type indicator for display of letter "M" is not installed,

and such operation of the signal will be an indication to an approaching train that orders are to be delivered which will authorize movement to the next station at least, against and ahead of, all superior trains. Engineer must acknowledge this calling-on signal by sounding signal 14(b), and will proceed on main track to receive orders.

If train is delayed between the time of acknowledging the calling-on signal and receipt of train orders, protection by flagman against any superior train must be provided.

Operation of the signal in above manner is prohibited unless operator has received Form N train order, and provided time limit named in the order has not expired.

RULES 281 and 285. Movements against the current of traffic governed by semaphore type dwarf signals displaying "Proceed", Fig. E, Rule 281; or by light type dwarf signals displaying "Proceed not Exceeding Medium Speed", Fig. G, Rule 285, must be made with caution and position of switches observed.

# RULE 505. AUTOMATIC BLOCK SIGNAL SYSTEM

#### PUSH BUTTONS

Where signal protection is provided for movements from an adjacent track to main track, push buttons and lights are installed in box near each of the two signals, with time-release feature, to clear signals on one track when the control circuit on the other track is occupied.

Train on main track to let train on siding pass may clear signal on siding by pressing button bearing number of signal on siding until light appears. Train on siding to let train on main track pass should not pass Approach Circuit sign, but when necessary to do so, may clear signal on main track by pressing button bearing number of signal on main track. Further instructions posted inside push button box.

#### ELECTRIC SWITCH LOCKS

Where electric switch locks are installed, lock box door must not be opened if movement is to be made into a track leading from main track until engine or car is standing within 150 feet of the switch; or if movement is to be made from such track, or through a crossover to a main track, until block indicator indicates block clear on opposite track. Within CTC limits train dispatcher's permission must also be obtained before lock box door is opened.

After lock box door is opened lock lever cannot be moved to opposite position to release switch for hand throwing until indicator in lock box indicates UNLOCKED.

Lock lever must not be returned to locked position until all movements over the switch are completed, switch returned to normal position and locked. Within CTC limits train dispatcher must also be notified by telephone when completed.

When block indicators indicate "block occupied," instructions posted inside lock box for operation of push button to start time-release must be complied with if movement is to be made to main track while approach circuit is occupied by another train, in addition to providing flag protection when necessary.

Low type electric locks, such as are applied direct to lever of hub type switch stands, function as above except that the removal of the switch lock has the same effect as opening the lock box door. Instead of being equipped with an "unlocked" indicator, these locks have a pilot light that indicates by illumination when the lock is unlocked.

When pilot light will not illuminate to indicate electric lock is unlocked, push button on adjacent cast iron box, protected with cover and locked with switch lock, should be depressed to illuminate green light. After a time interval of from one to seven minutes pilot light on electric lock will be illuminated, indicating lock is unlocked.

Emergency lock release is applied to side of electric lock. It is to be used only in case of electric or mechanical failure, as indicated by failure of time release to function after several minutes. When necessary, break seal and operate emergency lock release by turning knob one-half turn to right. Train dispatcher must be notified immediately and movement made only after necessary flag protection is provided.

# SPECIAL INSTRUCTIONS—ALL SUBDIVISIONS

#### RULE 535. SPRING SWITCHES

Maximum speed for trailing movement when the spring is to be actuated, and maximum speed for facing movement with switch points in normal position, as indicated in Speed Restrictions tables must not be exceeded.

# RULE 605. INTERLOCKING

Trains and engines must not enter main track within interlocking limits where no signal governs such movement until permission has been obtained from signal operator, and must then run with caution not exceeding 12 MPH to the next signal.

#### CENTRALIZED TRAFFIC CONTROL

⊙RULE 772 (a). Is revised to read:

"Work limits and clock time limit must be obtained from the train dispatcher, and dual control switch machine must be placed in hand position and locked, whether switch is to be thrown or not, and it must not be again placed in motor position until switching or work has been completed. Signals governing movements within the limit specified by train dispatcher will then display stop indication, and signals may be passed without stopping. Protection by flagman will not be required in either direction within the work limit and time limit. All movements must be made with caution, and if work is not completed within the time limit specified, extension must be obtained from train dispatcher. If the track is cleared and selector lever restored to motor position and it is again desired to use the dual control switch or foul main track, new authorization must be obtained."

#### ORULE 774. Is revised to read:

"After permission is obtained from the train dispatcher, switch must be placed in hand position in the following manner:

(a) Unlock switch lock.

(b) Move selector lever from position marked 'Motor' to position marked 'Hand'.

(c) Operate hand-throw lever back and forth until switch points are seen to move with movement of lever, then line switch for route to be used and check points to see that they fit properly.

(d) After movements over switch have been completed, switch must be restored to position in which originally found, then restore selector lever to position marked 'motor' and secure with lock. The selector and switch levers must not be forced. They will move easily when properly in mesh, although some manipulation of first one and then the other may be necessary to get them in proper mesh."

## $\bigcirc$ RULE 776(b). Is revised to read:

"If desired movement requires that position of switch be changed, or if light on control machine is not illuminated (which would indicate that dual control switch is not locked), train dispatcher must not authorize movement except by requiring that switch machine be placed in hand position before the movement, and that it be returned to motor position after movement over the switch is completed. Dual control switch must be hand thrown for movement if required. Member of crew must notify train dispatcher when selector lever has been returned to motor position. Movement must not exceed restricted speed to the next signal."

## GENERAL REGULATIONS

RULE 821. Speed of equipment over inundated tracks must not exceed 3 MPH, and the depth of water above top of rail must not be more than the following:

RULE 827. Trainmen must remain with their train until it stops on designated track in yard.

Conductor will notify crew of heavy or restricted loads in train which require special attention and frequent inspection of journal boxes.

RULE 836. Cars shoved ahead of engine between stations on descending grade must be chained to the engine.

RULE 837. Switching movements on grades should be accomplished in a manner to prevent cars running out on main track. Whenever possible engine should be kept on the descending grade end of cars being handled, or switching moves made toward derail. Avoid as far as practicable leaving one car standing alone on grade.

ORULE 872. Second paragraph is cancelled.

#### AIR BRAKE RULES

RULE 2. Engineer operating diesel engine in passenger or freight service must have made required qualifying trips and have been instructed in use of dynamic brakes.

⊙RULE 3. On diesel engines of DP-5, 6, 8, 9, 10 and 11 classes the safety valve in the discharge pipe must be set at 185 pounds.

⊙RULE 13. Should all power units of a diesel engine running light or while handling train become inoperative on a grade, light engine or train, after stopping, must be immediately secured with hand brakes and engine wheels secured by blocking or chains.

#### **MISCELLANEOUS**

- 1. When necessary for freight trains of over 50 cars to make a short move to reach water or oil column, including that required to spot second engine of double header, engine must be cut off to spot at column.
  - 4. Pushing trains out of yards:
  - (a) Engines must not be placed behind a wooden underframe caboose or other wooden underframe equipment.
  - (b) Engines weighing more than 330,000 lbs. on the drivers must not be placed behind steel underframe cabooses.
    (c) Air must not be coupled through the pusher engine.
  - (d) Knuckle must not be removed, or closed, or cutting lever temporarily fastened in release position on a pusher engine, as means of preventing coupling being made.
  - 5. Helper service:
  - (a) Helper engines must not be placed behind wooden underframe cars or wooden underframe cabooses.
- (b) Engines weighing more than 330,000 lbs. on the drivers must not be placed behind steel underframe cabooses, except diesel engines of not more than two units may be placed behind steel underframe cabooses.

(c) Not more than one helper engine will be placed behind steel underframe cabooses.

One helper may be placed on head end, except that not more than one AC class engine, nor more than two engines of other classes may be placed on head-end of any freight train. When additional helpers are required, they will be placed back in train and cut in ahead of any cars of wooden frame construction, and when practicable should be placed behind a loaded car.

 $\odot$  Helper or doubleheader engines must not be placed on head-end of freight trains powered by DF-1 to 12 class engines.

• When steam engine is coupled next behind diesel engine on the head end of either a freight or passenger train, dynamic brakes must not be used.

OAir will be cut in on all helper engines, and engines must not be coupled or uncoupled when train is in motion.

When used as helpers in rear of train, AC class engines must not be coupled together, nor may more than two F, Mt, or heavier class, or more than three small classes be coupled together. If tonnage requires more power, additional helpers of not to exceed two coupled in each case, must be separated by at least four cars.

The use of SP class engines backing in helper service, should be avoided if possible. When necessary to use them, other helper power must not be used to shove on this class of engine.

⊙DF-1 to 12 class engines, consisting of four units when used as helpers, will be placed 15 cars ahead of caboose. With three units or less they may be placed next ahead of caboose and any wooden underframe cars.

Helpers must not be operated backing except in emerency, and in such case engines should not push through a backing engine if it can be avoided.

10. Flat cars loaded with poles or piling must not be spotted on tracks adjacent to main tracks without authority from chief train dispatcher who will protect by train order.

27. Should a passenger train, irrespective of the type of power being used, be stopped in a tunnel, air conditioned cars within the tunnel must immediately have the air conditioning systems, including ice engines and engine generators, shut off, fresh air intake shutters closed, and blower fans shut off.

Should a diesel-powered train be stopped with the engine in a tunnel and it is found that, in the case of a passenger train it cannot be moved within five minutes after stopping, and in case of a freight train it cannot be moved within a reasonable length of time, trainmen and enginemen must take necessary precautions to prevent movement. Independent brake and sufficient hand brakes must be immediately applied. Engine wheels must be secured by blocks and chains, and power plants and steam generators, if any, on diesel engine shut down.

OSPEED RESTRICTIONS FOR ENGINES: Maximum speed shown below is subject to further restrictions applicable to certain territories as shown in Speed Restrictions for Trains:

W.C. 1914	RUN! FORV	RUNNING BACK- WARD WITH	
NOMINAL CLASS	WITH TRAIN	LIGHT	TRAIN OR LIGHT
AC	60	55	25
C	40	40	30
DF-1 to 12, except	55	55	*30
Units 6191 to 6193, 6203, 6207, 6208, 6210,			
6214 to 6218, 6223 to 6228, 6232 to 6239,			
6242, 6249, 6342, 6343, 6347, 6349, 6356,			ļ
6362, 6372 to 6380, 6394, 6396, 6398, 6399,			
6402 to 6405, 6407, 6411 to 6423, 6426, 6440			
to 6449, 6452 to 6455, 6458 to 6461, 8080,			
8081, 8090, 8093, 8107, 8108, 8110, 8111,			
8114 to 8119, 8122 to 8125, 8139, 8143, 8144,		ļ	
8148 8149 8197 8199 8219 8225 8243.			
8148, 8149, 8197, 8199, 8219, 8225, 8243, 8262 to 8264, 8267, 8274, 8276, 8278 to 8286,			
8288 to 8297, 8299, 8300, 8302, 8303	65	55	*30
Units 6190, 6202, 6450, 6451, 6456, 6457,			
8091, 8092, 8102, 8103, 8106, 8109, 8298, 8301	70	55	*30
DF-100, 114 to 120	65	55	55
DF-101 to 112	60	55	55
DF-200 to 204	55	55	55
DF-300 to 304	65	55	55
DF-500, 501	65	55	55
DP	79	70	*30
DS-1, 4, 5	45	45	45
DS-2, 3, 6, 7, 8,	60	55	55
DS-100 to 108, 110, 111, 113 to 115, 117, 118	60	55	55
DS-109	65	55	55
DS-200, 201	35	35	35
F.,	50	50	30
GS	75	55	30
M	50	50	25
Mk-2, 4	40	40	30
Mk-5, 6, 7, 8, 9		50	30
Mk-11		35	30
Mt	75	55	30
P-1, 3, 4, 5 (T&NO), 6 (2453)	65	55	30
P-6 (2454, 2458), 8, 10	75	55 20	30 20
S, SÈ	20 55	55	30
SP		50	30
T-1, 23, 28, 31		55	30
T-32	1	40	30
TW		40	30
AT&SFRy.: Diesel (1 to 41, 51 to 78; 90, 168,	79	45	*30
300 to 341)		40	00
200 +0 270 400 +0 425 2600 +6	:	1	
200 to 279, 400 to 425, 2600 to 2606, 2650 to 2847)		45	*30
		. 10	, 00

\*When on head end of train or running light and engineer is in other than leading control cab in direction of movement

Steam engines operated in backward motion, and DF and DP class engines operated with engineer in other than the lead unit in direction of movement, must not exceed 30 MPH on curves and 20 MPH when approaching highway or street crossings at grade.

Steam engines coupled tender to tender must not exceed speed permitted same engines running light backward.

Maximum speed of engines under following conditions, running under own steam, or hauled in train:

When all weight has been removed from any 20 MPH 30 MPH one wheel of any pair of drivers..... 20 MPH 30 MPH When engine truck is removed..... When main rod only is removed..... When side rod only is removed ..... 30 MPH When both main and side rods are removed... 20 MPH

Dead or disabled engines, and equipment listed in timetable which requires movement at reduced speed must first be reported as ready to move to the chief train dispatcher, who will designate the train in which the engine or equipment is to be moved. Any such engine must not be handled in train until train-order designating maximum speed is issued.

Maximum speed of trains handling dead engines of S or SE class 20 MPH; other steam engines 40 MPH; and diesel engines the speed shown for same engine running forward light.

When a diesel locomotive is derailed, attempt to rerail it must not be made unless an officer or supervisor of the Mechanical Department (or in their absence other qualified officer) is

ODead locomotives, either steam or diesel, hauled in train and weighing 150,000 lbs. or more on the drivers should be placed with from 8 to 15 cars between it and engine handling train. If weight on drivers is less than 150,000 lbs., dead locomotives should be placed near rear of train. Dead road locomotives should be headed in direction of movement when possible.

Unless otherwise restricted, two dead road locomotives may be coupled together for movement. When necessary to separate them, or when an S or SE class and a road locomotive are moved dead in train, a steel underframe freight car must be placed between them, and S or SE class locomotive entrained with tender ahead.

Movement of foreign line engines, in service or dead in train, must not be authorized until provisions of current Line Clearance Circular have been complied with.

Pile drivers, locomotive cranes, steam shovels, etc., moving on own wheels should be placed in train as follows:

Not over 50,000 pounds.....With at least two cars behind it. 50,000 to not over 100,000 pounds....With at least three

cars behind it, 100,000 to not over 150,000 pounds....With at least five

cars behind it, 150,000 to not over 200,000 pounds....With at least ten cars ahead of it.

Over 200,000 pounds....With at least fifteen cars ahead

When train-order is received indicating that main track is out of service and that trains are to be detoured through a siding or other track, or over a shoofly, necessitating a reduction in normal train speed, signal 16(f) must be sounded on passenger trains one mile before reaching point where train must reduce speed, which must be acknowledged by whistle signal 14(g).

#### SPECIAL INSTRUCTIONS—ALL SUBDIVISIONS

MAXIMUM SPEED PERMITTED WITH CERTAIN EQUIPMENT	MPH MAIN TRACKS OTHER THAN BRANCHES	MPH MAIN TRACKS ON BRANCHES
Cars and loads with height, width or weight greater than maximum shown in Line Clearance Circular (when movement is authorized)  Double or triple loads Scale test cars	40 40 40 40 40* 35* 25	25 25 30 30 30* 20*
Power shovel on own wheels. Ditchers on own wheels, except:SPMW-4044	35* 35* 25*	20* 20* 20*
Car-top ditchers, if blocking and tie-down cables are removed.  K&J, Western, and Oliver, pedestal or center-		20*
hinged air-dump cars	35*	25*
With boom disconnected, heavy end forward With boom disconnected, light end forward. With boom in place, either end forward. Rotary snow plows.	35* 20* 25* 25	20* 15 15 15

\*These speeds must not be exceeded, and on curves where authorized speed is more than 15 MPH speed must be reduced to 5 MPH less than shown in timetable and on speed signs.

OTHER MAXIMUM SPEEDS	MPH Passen- Ger Trains	MPH FREIGHT AND MIXED TRAINS
<ul> <li>○ Foreign steel-wheel cars not equipped with high speed trucks</li> <li>○ Trains of deadhead equipment, with caboose</li> <li>○ Passenger trains, with caboose</li> <li>○ Engine and caboose only, except:</li></ul>	60 55 55 	55  55
Engine, flanger and caboose only, except: On curves Logs loaded on flat or logging cars, except: On curves Through truss bridges, tunnels, and passing stations		40 30 25 20

All cars handled in passenger trains must be equipped with steel-tired or all-steel wheels. Cars not so equipped must move in freight trains, passengers if any, to move on passenger

Passenger carrying cars, baggage, express and other headend cars, unless equipped with steel center sills and steel platforms must not be handled in passenger trains except on authority of Superintendent.

When foreign steel-tired or all-steel wheel cars are picked up at points where no car inspectors are on duty, conductor must contact train dispatcher to determine applicable speed restriction for the movement.

Freight cars must not be handled behind occupied passenger carrying cars, except in mixed trains in military or naval

Baggage, express, mail, refrigerator or other head-end cars must not be handled on rear of passenger trains unless trainmen can pass through them.

Mail apartment cars equipped with letter case should be operated with mail apartment to the rear whenever practicable.

In mixed trains the mail car must be operated in rear-end consist, followed only by passenger carrying cars or caboose.

When moving against current of traffic, or when movement is not protected by block signals, speed of passenger trains must not exceed 50 MPH, and speed of freight trains and light engines must not exceed 40 MPH, nor may speed exceed that applying to normal operation. Unless proceed signal received, or it is known that warning devices are operating, such trains and engines must stop approaching road crossings where automatic warning devices are installed, and may proceed after member of crew protects crossing.

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RULE 14(d). As specified below, --- o will be indication that flagman may return from west:

Fresno.....Trains on Pratton line. Famoso....Trains on Porterville line, Trains on AT&SFRy, Ducor..... Exeter.....Trains on Visalia Branch.

**RULE 14(e).** As specified below, ---- will be indication that flagman may return from east:

Fresno..... Trains on Porterville line and Clovis Branch, Porterville . Trains on Success Branch, Rossi . . . . Trains on Stratford Branch,

Goshen Jct. Trains on Visalia and Coalinga Branch,

Richgrove...Trains on Richgrove Branch.

RULE 21-C. In Bakersfield and Fresno indicators must be displayed to relief track.

RULE 93. Yard limits in which the provisions of Rule 93 will apply are established at the following stations:

	The F	ast MP
West M	· · · · · · · · · · · · · · · · · · ·	
206.04	Fresno (Pratton-Tulare line)	210.79
208.44	" (Biola-Porterville line)	208.15
199.07	" (Merced-Clovis line)	209.60
219.34	Selma	221.61
224.72	Kingsburg	226.41
238.09	Goshen Jct.	240.18
200.00	" (Visalia Branch)	246.08
	" (Coalinga Branch)	240.40
247.75	Tulare	251.18
280.01	Delano	281.55
291.37	Famoso	293.3 <b>2</b>
306.50	" (Porterville line)	
307.66	Bakersfield	321.09
301.00	" (McKittrick Branch)	315.67
	" (Oil City Branch)End of track	
219.01	Sanger	220.47
$\bigcirc 228.73$	Reedley	230.78
234.31	Dinuba	235.72
248.90	Ivanhoe	249.90
256.33	Exeter	257.96
262.09	" (Visalia Branch)	
263.40	Lindsay	265.00
267.90	Strathmore	269.00
274.28	Dowtowille	275.72
214.20	" (Success Branch) End of track	
⊙294.10	Dish grove	306.50
0294.10	Richgrove	500.00
255.43	Armona	256.83
251.88	Hanford	253.28
251.83	Visalia	254.05
294.82	Coalinga End of track	
	Huron	281.50
279.00		261.30
260.30	Lemoore End of track	
228.54	rriant thu of track	

⊙Fresno: Eastward first-class trains after passing Signal 2052, west of Tuolumne St. Fresno, must proceed with caution and be prepared to cross to westward main track on signal from yardman, green flag by day, green light by night, which will indicate protection has been provided for the movement.

Westward trains via Pratton line must receive signal from yardman at Divisadero St., green flag by day, green light by night.

When Signal 2046 on Pratton line, or Signal 2042 on eastward track displays stop indication train must stop, and after proceed signal received from yardman, green flag by day, green light by night, may then proceed as prescribed by Rules

Eastward trains via Pratton line to Fresno Yard may pass Signal 2068 on Pratton line displaying stop indication without stopping to enter west leg of wye, if wye switch is properly set and proceed signal received from yardman, white flag by day, white light by night, which will confer authority for movement to derail only.

Eastward trains via Pratton line to Fresno Yard must receive proceed signal from yardman, green flag by day, green light by night, before fouling eastward or westward main

Fresno Yard. Trains entering or leaving yard tracks must receive proceed signal from yardman, green flag by day, green light by night, except within limits of diverging route signals.

RULE 98. Railroad crossings at grade not interlocked: AT&SFRy, MP 228.04 east of Lacjac. STOP.

AT&SFRy, MP 243.61 west of Taurusa. STOP.

Yellow reflector buttons on One Mile signs, and red reflector buttons on Stop signs approaching above crossings serve as warning signals and do not require application of Rules 10-G or 10-H.

AT&SFRy, MP 253.21 east of Visalia. STOP and send flagman ahead who must ascertain that no movement is approaching on intersecting line before giving signal to proceed.

AT&SFRy, MP 275.66 east of Porterville, on Success Branch. STOP.

FIRy, MP 213.23 east of Las Palmas. STOP.

RULE 103-A. Trains and engines must stop and member of crew must protect traffic while moving over following streets and highways:

Fresno....... Clovis Branch, crossing on Cherry Ave.,

while switching.

Calwa North Ave., on drill track leading into
Producers Compress, while switching. Visalia..... Goshen Ave. on Creamery spur when making reverse movement.

Flood lights over Old Highway US 99 across Cotton Compress spur, Calwa, and over highway crossing spur track west of Jensen Ave., Fresno, are operated from switches located in box on power pole on main track side of highway. When these crossings are to be used trainman must close floodlight switch before cars foul the highway, and open the switch after completing use of the track.

Public Utilities Commission orders prohibit operation of train, engine, motor or car over the following crossings unless first brought to a stop and traffic on the highway protected by a member of the crew.

Selma.......Highway US 99, on Grant-Pacific rock spur, On spur from

Goldleaf ... Peach Ave., and Butler Ave.,

Lake St., while switching, 30th St. on McCarthy Tank spur, Armona . .

Highway US 99, on freight station spur. Crossing must be cleared as quickly as Bakersfield.

possible. If flashing light signals are not operating, member of crew must push button marked "START" in box on mast of crossing signal north side highway for southward movement, or in box on instrument case on south side highway for northward movement. If movement over highway is not to be made after signals start operating, signals can be stopped by nushing button marked "STOP". If pushing button marked "STOP". If flashing light signals fail to operate, movement over crossing must be protected by member of crew.

### SPECIAL INSTRUCTIONS—FRESNO SUBDIVISION

Public Utilities Commission orders also require the following protection for traffic: West Tulare. If train, engine or cars stand on siding

within 200 feet of county road crossing at Prosperity Ave., member of crew must protect traffic against movements on main track.

Tipton..... If train or engine stands within 100 feet of county road crossing to meet or be passed by a train, traffic must be protected by

member of crew, Radnor .... If trains, engines, or cars stand on siding, within 200 ft. of county road crossing MP 277.10, member of crew must protect traffic against movements on main track.

RULE 104. The normal position of rigid switches at the end of double track and at junctions is as follows:

Fresno Yard....End double track, for westward track, Pratton line, for eastward track, Fresno . . . . . Clovis Branch, for drill track, Fresno. Drill track, for Porterville line, Fresno. Goshen Jct.... Visalia Branch, for Tulare line, Coalinga Branch, for No. 3 siding, Goshen Jct.... Famoso..... Porterville line, for Tulare line, Oil City Branch, for siding, Oil Jct..... Oil Jet.... AT&SFRy, for Tulare line, Rossi . . . . . . . Stratford Branch, for siding, Exeter..... Visalia Branch, for siding, Exeter..... VERy, for Porterville line, Success Branch, for Porterville line, AT&SFRy, for Success Branch, Porterville . . . Porterville . . . . Ducor..... AT&SFRy, for siding, Richgrove Branch, for siding, Richgrove.... Gosford..... McKittrick Branch, for Sunset Ry. Derails in main track:

Goshen Jct.....On Visalia Branch, 250 feet east of junction switch,

On Success Branch, 310 feet east of junc-Porterville.... tion switch,

 $\bigcirc$ Worth..... On Success Branch at MP 278.35. Coalinga.....MP 295.70,
McKittrick....East wye switch is spring switch and

RULE 306. The following block signals equipped with triangular plate displaying the letter "P" have included in

serves as derail.

their control limits some special protective device. Interlocking signals are listed as P-I:

Eastwar Signal	Protection Signal
P-2482	Spring switch, west end siding, West Tulare ${P-2481 \choose P-2483}$
⊙ <b>P</b> -I <b>P</b> -I	Spring switch, east end siding, West Tulare . P-I
P-2598	Spring switch, west end siding, Tipton
$\left. egin{array}{l} \mathbf{P-2774} \\ \mathbf{P-2776} \end{array} \right\}$	Spring switch, east end siding, Radnor P-2775

# RULE 505. AUTOMATIC BLOCK SIGNAL

Famoso: Trains on Porterville line stopped by Signal 2926 must line junction switch to Tulare line before applying block signal rules to proceed.

Train on Porterville line main track to let eastward train on Tulare line main track pass, will, if Signal 2928 is displaying stop indication, operate push button in box on Signal 2928. Push button and light in box east end Porterville line main

Bakersfield: Eastward passenger trains may pass dwarf Signal 3132 displaying stop indication without stopping when necessary to clear Baker St. crossing but movements must be made with caution.

RULE 516. Overlap posts:

Cross......Westward trains, opposite fouling point east switch.

Westward trains, MP 250.20. ⊙Tulare... Prospero . . . Eastward trains, MP 303.40.

#### **RULE 535. SPRING SWITCHES**

Spring switches equipped with facing point locks are located as follows:

Location	Normal Position
West Tulare West end sidin	g Main track
West Tulare East end siding	
Tipton West end siding	g
Radnor East end siding	

Spring switches not equipped with facing point locks are located as follows:

Location				Normal Position
Fresno	Junction	switch, Clovis	Branch	Drill track
~ .				

Switch position indicator located at:

Fresno Yard . Spring switch leading from No. 1 drill track to Ice House lead west of Ashlan Ave. Spring switch, junction switch, Clovis Fresno . . . . Branch.

Bakersfield...Spring switch leading from back lead to inbound engine track.

Indicator does not indicate track occupancy. When indicator displays red aspect, or is not lighted, careful examination of switch must be made before passing over in eastward

#### RULE 605. INTERLOCKING

Biola Jct.: Limits extend on Merced line from 675 feet west of junction switch, and on Biola line from 575 feet west of junction switch, to 930 feet east of junction switch on Merced line, and to two unit signal 290 feet east of junction switch on No. 1 drill track.

Trains and engines stopped by signals will call signal operator at train-order office Muscatel by telephone and be governed by his instructions. Telephones and instructions for hand operation of dual control switches are located in battery house at junction switch and at derail on Biola line.

Two unit signal on No. 1 drill track. Upper unit governs movement to Merced line; lower unit to Biola line.

Fresno Tower: AT&SFRy Crossing. Whistle signals: For main track, — To or from spur track, o — —.

Sunmaid Tower: AT&SFRy Crossing. Whistle signals: For main track, —

Calwa Tower: AT&SFRy Crossing, and end double track. Whistle signals:

Eastward trains, — o —,

Westward trains, —, To or from Cotton Oil spur, o — o.

⊙Hanford: AT&SFRy crossing. Interlocking is part of AT&SFRy CTC system and operation over crossing is under control of AT&SFRy train dispatcher, Fresno. Telephone located in box at signals governing movement over crossing. Train stopped by signals at crossing must immediately contact AT&SFRy train dispatcher and inform him of arrival and

⊙West Tulare: AT&SFRy crossing, MP 249.70. Limits extend 1000 feet west of crossing to 550 feet east of crossing. No signal operators on duty. Signals normally in position for SP movements. When interlocking signals display stop indication Rule 663(c) will govern.

## SPECIAL INSTRUCTIONS—FRESNO SUBDIVISION

#### GENERAL REGULATIONS

ORULE 826. Fresno: Indicator lights above tracks at each end of PFE icing platform govern movement on those tracks as follows:

Green—Tracks may be used for train movements or switching. Yellow-Tracks may be entered, but cars or engines already on tracks must not be coupled to nor moved.

Red-Tracks must not be entered, and restricts any movement by trains, engines or cars on or out of ice platform tracks. Trains made up on these tracks must not depart until it has been ascertained that indicator displays green aspect.

Not lighted-Must be considered as displaying the most restrictive indication, and icing platform foreman must be contacted for instructions before entering

RULE 827. All passenger trains, except regular Nos. 55 and 56, must stop at Tulare, approaching at not to exceed 8 MPH to allow forward brakeman to detrain on station side where rear of train will stop. Brakeman will then make rolling inspection of train, then walk length of train on opposite side making standing inspection, giving careful attention to running gear and journal boxes, and entrain on station side.

#### AIR BRAKE RULES

RULE 17. Retaining valves will be turned up on freight trains as follows:

McKittrick to Lokern..... One valve for each 58 tons.

#### FREIGHT TRAINS

RULE 22. Terminal test outlined in this rule, after having been made at originating terminal on through freight trains, will not be made at intermediate terminal Fresno, except when cars are added to the consist. Instead, test will be made as outlined in Air Brake Rule 25-Rear end test. Changing crews, caboose, and/or engine, will not necessitate terminal test outlined under Air Brake Rule 22.

RULE 25. After terminal test outlined in Air Brake Rule 22 has been made at originating terminal, rear end test outlined in Air Brake Rule 25 will be made at intermediate terminal Fresno on freight trains moving through without cars being added to the consist or on which only crews, caboose, and/or engines may be changed. Under these conditions, rolling inspection by car inspectors will be made on freight trains arriving and leaving the intermediate terminal.

Rear end test on McKittrick Branch must be made in accordance with paragraph (c).

#### PASSENGER TRAINS

RULE 39. Leaving Bakersfield, running test must not be made until rear car has cleared Baker St.

#### **MISCELLANEOUS**

<b>10.</b> below:	Engines	listed must	not operate	on tracks shown	ı
Class of	Engine	Re	stricted Trac	ks	_
All, excep	ot: DS; S	ing Raisi	Calif. Fig C n Plant, et	r; Drill track serv- Frowers; Sunmaid tc.; Stewart-Nuss . Co. spur; Pearl	<b>i</b> 3

spur east of "M" St. All, except: DS; DF-

100 to 112; 114, 115; 200 to 204 ...... Fresno-Drill track serving Pacific Crate; Roma Wine and Rosenberg Bros.; Lacey Milling Co. spur.

Restricted Tracks Class of Engine

⊙All, except: DS; DF-100 to 112, 114, 115; 200 to 204; S.....

Fresno-Drill track serving Levi Iron & Metal, etc.; California State Highway spur; Fresno-Vendolator Co. tracks; Moore Engineering spur; Bisceglia Bros. spur; Peralta Winery spur; Kellner & Sons spur.

All, except: DS; DF-100 to 112, 114, 115;

100 to 112, 114, 126, 200 to 204; S; TW-8; T-23; M-4, 6.... Fresno—Rosenberg Bros. track No. 3; Producers Cotton Oil tracks; Sunmaid Raisin Plant Pearl St. track; Mid-State Horticultural spur; PCA canal track.

100 to 112, 114, 115; 200 to 204; S; TW; SE; T; M; C; P....Traver—Corral track. All, except: DS; DF-100 to 112, 114, 115;

All, except: DS; DF-

200 to 204; S; TW-8; SE-4; T-23, 28; M-4, 6; C-9, 10.....Bakersfield—McCarthy Tank & Steel

spur. Switching may be performed only during daylight hours, and cars and engines must stop before entering building. Associated Oil spur; Republic Supply spur.

All, except: DS; DF-100 to 112, 114, 115;

200 to 204; S..... Bakersfield — Lead tracks to Rio Grande Oil Co. and SP Freight House, etc.; Union Oil Co. spur.

All, except: DS; DF-100 to 112, 114, 115; 200 to 204; TW-8; T-23, 28; C-9, 10; M-4, 6; Mk-2, 4, 5, 6;

P-5. Lindsay—Tracks serving Shell Oil Co.;
Pacific Coast Fruit Distrs.; B. G. Rooke Packing Co.; Mid-State Chemical Supply Co.

All, except: DS...... Rector—Southern Calif. Edison Co. spur beyond fouling point.

All Glorietta—Spur, beyond road crossing.

Engines heavier than 200,000 pounds on drivers must not

operate on siding at Ivesta, nor on any yard and industry tracks between Fresno and Famoso on Porterville line and between Goshen Jct. and Exeter.

Cars must not be stored or left standing between MP 213.2 (FIRy crossing) Clovis Branch and a point 1200 feet east.

⊙11. Load limit (car and contents):

C = 2:	
Fresno-Bakersfield	
Fresno-Famoso via Porterville	.251,000 pounds
Porterville-Success	.169,000 pounds
Richgrove-Jovista	.210,000 pounds
Goshen JctExeter	.210,000 pounds
Rossi-Stratford	.210,000 pounds
Goshen JctCoalinga	.210,000 pounds
Fresno-Friant	.210,000 pounds
Kern JctMcKittrick	.210,000 pounds
Oil JctOil City	.210,000 pounds
Unless authorized by Superintendent, he	
ot be handled.	

- 26. Turntable at Friant must be secured by switch lock.
- 29. Employes operating over AT&SFRy and FIRy tracks will be governed by current book of rules, timetable and bulletins of AT&SFRy.

LOCATION OF OVERHEAD AND SIDE STRUCTURES NOT STANDARD CLEARANCE ON MAIN TRACK AND SIDINGS

MΡ	Location	Description
253.50	West of Lort	Kaweah River bridge—Side

# SPECIAL INSTRUCTIONS—FRESNO SUBDIVISION

OSPEED RESTRICTIONS FOR TRAINS: Maximum speed of trains in territory shown below is subject to further restrictions applicable to engines in the train as shown in SPEED RESTRICTIONS FOR ENGINES appearing on page 4, and MAXIMUM SPEED PERMITTED WITH CERTAIN EQUIPMENT and OTHER MAXIMUM SPEEDS appearing on page 5 of Special Instructions for All Subdivisions. Speed must be further reduced as prescribed by speed signs, except as specifically authorized by Special Instructions herein, or by timetable bulletin.

All trains must run carefully during and after heavy storms, particularly when the track is apt to be affected. When fog, storms or other conditions obscure track or signals, speed of trains must be so reduced as to permit strict observance of signals and INSURE SAFETY, REGARD-LESS OF TIME.

MP   MP   Column:   1   2   3   4   MP   MP   Column:   1   2   3   4				LI EN	GHT GINES				<b>~</b>		LIGHT ENGINES	
EASTWARD, FRESNO YARD TO BAKERSFIELD: 201.89 to 201.93 (thru turnout). 25 25 25 25 25 312.90 to 312.27 to 311.20 (Bakersfield). 20 20 20 20 20 20 20 311.20 to 311.00 to 311.00 to 310.07 (Kern River bridge) 50 30 30 30 30 311.20 to 311.00 to 310.07 (Kern River bridge) 50 30 30 30 30 311.20 to 311.00 to 310.07 (Kern River bridge) 50 30 30 30 30 310.07 to 311.20 to 311.00 to 310.07 (Kern River bridge) 50 30 30 30 30 310.07 to 204.50 70 55 50 30 30 30 30 311.20 to 311.00 to 310.07 (Kern River bridge) 50 30 30 30 310.07 to 205.93 (Fresno) 20 20 20 20 20 20 310.07 to 281.45 to 279.16 (Delano, 6 AM to 6 PM) 40 30 30 30 281.45 to 279.16 (Delano, 6 PM to 6 AM) 40 40 40 30 40 30 4220.44 to 221.30 (Selma, 5 AM to 11 PM) 45 40 40 30 4220.4 to 221.30 (Selma, 5 AM to 11 PM) 45 40 40 30 4220.4 to 221.30 (Selma, 11 PM to 5 AM) 70 55 50 30 4221.30 to 225.17 to 225.98 (Kingsburg) 45 30 30 30 4214.8 to 215.65 to 220.04 45 30 30 30 4225.19 to 225.17 to 225.98 (Kingsburg) 45 30 30 30 4225.98 (Kingsburg) 45 30 30 30 4225.98 to 249.21 (Tulare) 45 30 30 30 4225.98 (Kingsburg) 45 30 30 30	TERRITORY	PASSENGER TRAINS	FREIGHT AND MIXED	FORWARD	RUNNING BACKWARD	†ERRITORY		PASSENGER TRAINS	FREIGHT AND MIXED	FUNNING	RUNNING	
BAKERSFIELD: 201.89 to 201.93 (thru turnout) 25	MP MP Column:	1	2	3	4	MP	MP	Column:	1	2	3	4
311.00 to 311.20	BAKERSFIELD: 201.89 to 201.93 (thru turnout) 201.93 to 202.59  ★202.59 to 203.19 (Fresno) 203.19 to 204.50  ★204.50 to 205.93 (Fresno) 205.93 to 209.05 (end double track) 209.05 to 209.09 (thru turnout)  209.09 to 214.48  ★214.48 to 215.65 (Fowler, 6 AM to 9 PM) ★214.48 to 215.65 (Fowler, 9 PM to 6 AM) 215.65 to 220.04  ★220.04 to 221.30 (Selma, 5 AM to 11 PM) ★220.04 to 221.30 (Selma, 11 PM to 5 AM) 221.30 to 225.17  ★225.17 to 225.98 (Kingsburg) 225.98 to 249.21  ★249.21 to 250.73 (Tulare) 250.73 to 279.16 279.16 to 281.45 (Delano, 6 AM to 6 PM) 279.16 to 281.45 (Delano, 6 PM to 6 AM) 281.45 to 310.07 310.07 to 311.00 (Kern River bridge) 311.00 to 311.20 311.20 to 312.27 (Bakersfield)	50 20 50 20 50 35 70 45 70 45 70 45 70 45 70 45 70 70 45 70 70 45 70 70 45 70 70 45 70 70 45 70 70 45 70 70 70 45 70 70 70 70 70 70 70 70 70 70 70 70 70	30 20 30 30 30 30 30 55 40 55 55 55 30 40 55 55 30 40 55 55 30 20 20 20 20 20 20 20 20 20 20 20 20 20	30 20 30 30 30 30 50 40 50 40 50 50 30 40 50 50 40 50 20 30 30 50 50 40 50 50 50 50 50 50 50 50 50 50 50 50 50	30 20 30 20 30 30 30 30 30 30 30 30 30 30 30 30 30	WEST FRH 312.90 312.27 311.20 311.00 310.07 281.45 281.45 279.16 *250.73 249.21 *225.98 225.17 *221.30 *221.30 *221.30 *215.65 214.48 209.09 *205.93 204.50 *203.33	WARD ESNO Y to 312.2 to 311.2 to 311.2 to 311.0 to 310.0 to 279.1 to 279.1 to 225.9 to 225.9 to 225.1 to 220.0 to 215.6 to 214.4 to 209.0 to 205.93 to 204.5 to 204.5 to 202.3 to 204.5 to 203.3 to 202.3 to 202.3 to 204.5 to 202.3 to 204.5 to 204.5 to 204.5 to 202.7 to 204.5 to 204.5 to 202.7 to 204.5 to 203.3 to 203.3 to 203.3 to 203.5	, BAKERSFIELD TO ARD: 7. 0 (Bakersfield) 0. 7 (Kern River bridge) 5. 6 (Delano, 6 AM to 6 PM) 6 (Delano, 6 PM to 6 AM) 3. 1 (Tulare) 8 (Kingsburg) 4 (Selma, 5 AM to 11 PM) 4 (Selma, 11 PM to 5 AM) 5 (Fowler, 6 AM to 9 PM) 8 (Fowler, 9 PM to 6 AM) 9 (Fresno) 3 (Fresno)	35 20 35 50 70 40 40 70 20 70 45 70 70 45 70 70 50 50	20 20 20 30 35 55 30 40 55 55 40 55 55 30 40 55 30 40 55 30 40 55 30 55 30 55 30 55 30 55 30 55 55 30 55 55 30 55 55 30 55 55 55 55 55 55 55 55 55 55 55 55 55	20 20 20 30 30 40 50 50 30 40 50 50 50 30 40 40 50 50 30 40 50 50 30 50 50 50 50 50 50 50 50 50 50 50 50 50	20 20 20 30 30 30 30 30 30 30 30 30 30 30 30 30

\*Regulated by City ordinance. At Fowler, Selma, Kingsburg, and Delano, speed may be resumed after engine has passed last crossing within city limits in direction train is moving. During hours shown, speed within certain city limits as indicated in Speed Restrictions table must not

⊙Nos. 51 and 52 with DP class engine may run not to exceed 79 MPH where 70 MPH is authorized in Column 1.

Nos. 51 and 52 with P-7, 8, 10, GS or Mt class engine may run not to exceed 75 MPH where maximum speed of 70 MPH is authorized in

# SPECIAL INSTRUCTIONS—FRESNO SUBDIVISION

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©SPEED RESTRICTIONS FOR TRAINS: Maximum speed of trains in territory shown below is subject to further restrictions applicable to engines in the train as shown in SPEED RESTRICTIONS FOR ENGINES appearing on page 4, and MAXIMUM SPEED PERMITTED WITH CERTAIN EQUIPMENT and OTHER MAXIMUM SPEEDS appearing on page 5 of Special Instructions for All Subdivisions. Speed must be further reduced as prescribed by speed signs, except as specifically authorized by Special Instructions herein, or by timetable bulletin.

All trains must run carefully during and after heavy storms, particularly when the track is apt to be affected. When fog, storms or other conditions obscure track or signals, speed of trains must be so reduced as to permit strict observance of signals and INSURE SAFETY, REGARD-

	æ	LIGHT ENGINES		PASSENGER TRAINS	L	LIC	GHT SINES		
TERRITORY	PASSENGER TRAINS	FREIGHT AND MIXED	RUNNING	RUNNING	TERRITORY		FREIGHT AND MIXED	FORWARD	RUNNING
MP MP Column:	1	2	3	4	MP MP Column:	1	2	3	4
EASTWARD, FRESNO TO FAMOSO VIA PORTERVILLE:  ○★206.11 to 207.50 (Fresno)  ○207.50 to 218.54  ○218.54 to 220.30 (Sanger)  ○220.30 to 223.43  223.43 to 229.16  ★229.16 to 230.66 (Reedley, 5 AM to 11 PM)  ★229.16 to 230.66 (Reedley, 11 PM to 5 AM)  ○230.66 to 247.07  ○247.07 to 252.85	20 40 35 40 35 20 35 35 40	20 40 35 40 30 20 30 30 40	20 40 35 40 30 20 30 30 40	10 20 30 20 20 20 20 20 20 30	WESTWARD, FAMOSO TO FRESNO VIA PORTERVILLE:  ○310.06 to 308.67 (Famoso).  ○295.52 to 264.84  ★264.84 to 263.42 (Lindsay, 5 AM to 11 PM).  ★264.84 to 263.42 (Lindsay, 11 PM to 5 AM).  263.42 to 257.89  ★257.89 to 256.80 (Exeter, 5 AM to 11 PM).  ★257.89 to 256.80 (Exeter, 11 PM to 5 AM).  ○256.80 to 252.85	15 40 35 20 35 35 20 35 35	15 40 30 20 30 30 20 30 30	15 40 30 20 30 30 20 30 30 20	15 20 20 20 20 20 20 20 20 20 20
○252.85 to 256.80 ★256.80 to 257.89 (Exeter, 5 AM to 11 PM). ★256.80 to 257.89 (Exeter, 11 PM to 5 AM). 257.89 to 263.42 ★263.42 to 264.84 (Lindsay, 5 AM to 11 PM). ★263.42 to 264.84 (Lindsay, 11 PM to 5 AM). ○264.84 to 295.52 ○295.52 to 308.67. ○308.67 to 310.06 (Famoso).	35 20 35 35 20 35 35 40 15	30 20 30 30 20 30 30 40 15	30 20 30 30 20 30 30 40 15	20 20 20 20 20 20 20 20 20 20 15	$\begin{array}{c} \odot 252.85 \text{ to } 247.07 \\ \odot 247.07 \text{ to } 230.66 \\ \bigstar 230.66 \text{ to } 229.16 \text{ (Reedley, 5 AM to 11 PM)} \\ \bigstar 230.66 \text{ to } 229.16 \text{ (Reedley, 11 PM to 5 AM)} \\ 229.16 \text{ to } 223.43 \\ \odot 223.43 \text{ to } 220.30 \\ \odot 220.30 \text{ to } 218.54 \text{ (Sanger)} \\ \odot 218.54 \text{ to } 207.50 \\ \odot \bigstar 207.50 \text{ to } 206.11 \text{ (Fresno)} \\ \end{array}$	40 35 20 35 35 40 35 40 20	40 30 20 30 30 40 35 40 20	40 30 20 30 30 40 35 40 20	30 20 20 20 20 20 20 30 20 10
EASTWARD, PORTERVILLE TO SUCCESS: 275.04 to 275.15. 275.15 to 280.89. 280.89 to 281.56. 281.56 to 282.68.	10 15 10 15	10 15 10 15	10 15 10 15	10 15 10 15	WESTWARD, SUCCESS TO PORTERVILLE: 282.68 to 281.56	15 10 15 10	15 10 15 10	15 10 15 10	15 10 15 10
EASTWARD, RICHGROVE TO JOVISTA: 295.01 to 299.17	15	15	15	15	WESTWARD, JOVISTA TO RICHGROVE: 299.17 to 295.01	15	15	15	15
EASTWARD, GOSHEN JCT.  TO EXETER: 245.96 to 246.11 246.11 to 251.87  ★251.87 to 253.92 (Visalia) 253.92 to 255.00 255.00 to 255.38 255.38 to 262.72	40 15 40 30	20 30 15 30 20 30	20 30 15 30 20 30	15 15 15 15 15 15	WESTWARD, EXETER TO GOSHEN JCT.: 262.72 to 255.38. 255.38 to 255.00. 255.00 to 253.92 ★253.92 to 251.87 (Visalia). 251.87 to 246.11. 246.11 to 245.96.	15 40	30 20 30 15 30 20	30 20 30 15 30 20	15 15 15 15 15 15

\*Regulated by City ordinance. At Reedley, Exeter and Lindsay, speed may be resumed after engine has passed last crossing within city limits in direction train is moving. During hours shown, speed within certain city limits as indicated in Speed Restrictions table must not be exceeded.

⊙On Richgrove Branch, Visalia Branch and Porterville line between MP 223.43 and MP 247.07 and MP 252.85 and MP 295.52 maximum speed of trains as shown below must not be exceeded when handled by following engines, subject to further restrictions shown in Speed Restrictions table above:

ı	tions table above:
1	⊙DS-100, 102 to 108, 114 engs. 1300 to 1309; 1320 to 1402;
Į	1426 to 1441; 1492 to 1513
1	1910 to 1910 1409 to 1495 90 MPH
ļ	DS-101, 109 engs. 1310 to 1319; 1403 to 1425 20 MPH
ł	T-23 28 31 engs 2301 to 2310, 2312 to 236225 MPH

OP-4	engs. 2410, 2414 eng. 2454	20 MPH
Mk-7, 8, 9	engs. 3303 to 3307; 3310	to 3324 25 MPH

## SPECIAL INSTRUCTIONS—FRESNO SUBDIVISION

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⊙SPEED RESTRICTIONS FOR TRAINS: Maximum speed of trains in territory shown below is subject to further restrictions applicable to engines in the train as shown in SPEED RESTRICTIONS FOR ENGINES appearing on page 4, and MAXIMUM SPEED PERMITTED WITH CERTAIN EQUIPMENT and OTHER MAXIMUM SPEEDS appearing on page 5 of Special Instructions for All Subdivisions. Speed must be further reduced as prescribed by speed signs, except as specifically authorized by Special Instructions herein, or by timetable bulletin.

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			LI ENC	GHT SINES					LIC	GHT SINES
TERRITORY	PASSENGER TRAINS	FREIGHT AND MIXED	RUNNING	RUNNING	TERRITORY		TRAINS	FREIGHT AND MIXED	FORWARD	RUNNING BACKWARD
MP MP Column:	1	2	3	4	MP MP Colu	n:	1	2	3	4
EASTWARD, GOSHEN JCT. TO COALINGA: 239.53 to 256.48, except: with DS-101, 109 engs. 256.48 to 256.49 (Lake St.) 256.49 to 296.39, except: with DS-101, 109 engs.	25 20 20 25 20	25 20 20 25 20	25 20 20 25 20	15 15 15 15 15	WESTWARD, COALINGA TO GOSHEN JCT.: 296.39 to 256.49, except: with DS-101, 109 engs. 256.49 to 256.48 (Lake St.). 256.48 to 239.53, except: with DS-101, 109 engs.		25 20 20 25 20	25 20 20 25 20	25 20 20 25 20	15 15 15 15 15
EASTWARD, ROSSI TO STRATFORD: 263.44 to 271.69, except: with DS-101, 109; T-28, 31 engs with M-9, 11 engs	25 20 10	25 20 10	25 20 10	15 15 10	WESTWARD, STRATFORD TO ROS 271.69 to 263.44, except: with DS-101, 109; T-28, 31 engs with M-9, 11 engs.		25 20 10	25 20 10	25 20 10	15 15 10
EASTWARD, FRESNO TO FRIANT:  ★206.15 to 209.80  209.80 to 211.93, except:  with DS-101, 109 engs.  211.93 to 212.20  212.20 to 213.21, except:  with DS-101, 109 engs.  213.21 to 213.25 (over FIRy).  213.25 to 222.90, except:  with DS-101, 109 engs.  222.90 to 230.29	15 25 20 20 25 20 15 25 20 25 20	15 25 20 20 25 20 15 25 20 25 20	15 25 20 20 25 20 15 25 20 20	10 15 15 15 15 15 15 15 15 15	WESTWARD, FRIANT TO FRESNO: 230.29 to 222.90. 222.90 to 213.25, except: with DS-101, 109 engs. 213.25 to 213.21 (Over FIRy). 213.21 to 212.20, except: with DS-101, 109 engs. 212.20 to 211.93. 211.93 to 209.80, except. with DS-101, 109 engs. ★209.80 to 206.15.		20 25 20 15 25 20 20 25 20 25 20	20 25 20 15 25 20 20 25 20 15	20 25 20 15 25 20 20 25 20 15	15 15 15 15 15 15 15 15 15 15 15
EASTWARD, KERN JCT. TO McKITTRICK: 313.44 to 314.15 (street crossings). 314.15 to 360.14, except: with DS-101, 109 engs. 360.14 to 361.05, except: with DS-101, 109, T-28, 31; C; M-6, 8, 9, 11 engs.	15 25 20 25 25	15 25 20 25 10	15 25 20 25	15 15 15 15 15	WESTWARD, McKITTRICK TO KERN JCT.: 361.05 to 360.14, except: with DS-101, 109; T-28, 31; C; M-6, 8, 11 engs. * 360.14 to 314.15, exceptr. with DS-101, 109 engs. 314.15 to 313.44	), 	25 10 25 20 15	25 10 25 20 15	25 10 25 20 15	15 10 15 15 15
EASTWARD, OIL JCT. TO OIL CITY: 309.20 to 314.20.	10	10	10	10	WESTWARD, OIL CITY TO OIL JCT 314.20 to 309.20	:	10	10	10	10

#### \*Regulated by City ordinance.

On Coalinga Branch, between MP 239.53 and MP 256.48, and between MP 256.49 and MP 296.39, freight trains with DF-100 to 108, 110, 112 class engines may run not to exceed 30 MPH where maximum speed of 25 MPH is authorized in Column 2.

SPEED RESTRICTIONS FOR OTHER THAN MAIN TRACKS	With Caution Not Exceeding MPH
Through sidings, yard and other tracks, wye	s.
balloon tracks, crossovers and turnouts, excep-	t: 15
Through slip switches	. 10
Through turnouts on other than sidings	
On branches	. 10
Through all sidings, yard tracks and other	er
tracks with engine running backward	. 10
On wye and packing house tracks at Locans	s. 6
On spur leading from Pinedale, except:	20
On curves	

## SPECIAL INSTRUCTIONS—FRESNO SUBDIVISION

#### RATING OF ENGINES—In Units of 2000 Lbs. (Tons)

				- \			-	
NOMINAL CLASS	ENGINE NUMBERS	Bakersfield and Fresno via Goshen Jct.	Famoso and Fresno via Porterville	Friant to Fresno	Fresno to Friant Gosten Jct, and Exeter Richgrove and Jovista Oil Jct, and Oil City	Bakersfield to McKittrick	Coalinga to Goshen Jct. Rossi and Stratford Porterville and Success McKittrick to Bakersfield Goshen Jct. to Armona	Armona to Coalinga
DP-3 DP-4, 7 DP-5, 6 DP-8 to 10 DP-11	6017 6000 to 6004, 6018 6005 to 6016 6019 to 6033 6034 to 6045	9200 9450	7200 7400					
DF-1 to 12 DF-100 DF-101 to 108, 110, 112 DF-109, 111 DF-114, 116, 117, 118 DF-115, 119	6138 to 6461 5200 to 5202 5203 to 5249, 5253 to 5278, 5500 to 5502 5250 to 5252, 5503 to 5505 5279 to 5293, 5308 to 5335 5294 to 5307, 5336 to 5339	13875 3400 4900 5900 6725	10975 2900 4575  4650 5300	2600	3750 4325	1500	5000 5000 5100 5850	3500 3500 3500  3550 4150
DF-120 DF-200 to 204 DF-300 to 304 DF-500, 501	5340 to 5371 5100 to 5118 4600 to 4623, 4700 to 4703 4800 to 4815	1875 3000	1475 2300	850	1200	495	1625	1150
DS-1 to 8 DS-100 to 109, 111, 115 DS-110, 114, 118 DS-113, 117 DS-200, 201	1000 to 1032 1300 to 1441, 1464 to 1485, 1514 to 1528 1442 to 1463, 1492 to 1513, 1539 to 1550 1486 to 1491, 1529 to 1538 1900 to 1903	1375 2075 2975 1075	1175 1775 2275  850	670 1025 1525 490	950 ②1450 ②1850	315 500 740	①1175 ①1775 ①2525 · · · · · 925	900 1375 1775
M-4 M-6, 8 M-9 M-11 T-1 T-23 T-28, 31 T-32	1629 to 1713	2200 2575 2725 2850 1875 2700 2975 2975	1650 1900 2025 2100 1350 2000 2200 2250	955 1125 1175 1275 800 1175 1300	1150 1350 1450 1800 1000 1450 1600	535 640 680 710 450	1800 ①2150 ①2250 ①2350 ①575	1225 1450 1550 1725 1050 
P-1, 3 P-4 P-5 (T&NO) P-6 P-7 P-8, 10 P-8, 10	2411, 2431	2400 2650 2975 3150 3525 3525	2000 2175  2500 2625	1050 1150 	②1275 ②1400			
C-8, 9, 10 C-18 C-19 TW-8	2513 to 2598, 2700 to 2860. 3400, 3406. 3420, 3423, 3426.	3300 3025 3175 2850	2675 2450 2575 2250	1475 1375 1425 1300	$\begin{array}{c} 2100 \\ 1950 \\ 2025 \\ 1825 \end{array}$	825 775 800 675	2850 2625 2750 2275	1750
Mk-2, 4 Mk-5, 6 Mk-7, 8, 9 Mk-11	3203 to 3236. 3247 to 3275. 3303 to 3324. 3298.	3725 4175 4650 3225	3000 3400 3675 2800					
F-1 F-3, 4, 5 AC-4, 5 AC-6 to 12	3611 to 3652. 3653 to 3770. 4104 to 4122. 3801 to 3811, 4126 to 4294.	4775 5625 8675 9175		Following AT&SFRy engines may operate between Oil Jct. and Ducor: Diesels 2322 to 2397; 2650 to 2840.				2322 to
Mt-1, 3, 4, 5 GS-1, 2 GS-3, 4, 5, 6 GS-7, 8 SP-1, 2, 3	4300 to 4376. 4400 to 4415, 4470 to 4473. 4416 to 4469. 4475 to 4487. 5000 to 5047.	4425 4750 4950  6475		①DS-1 to 7; 100 to 111; M-6, 8, 9, 11; T-28 31 class not permitted to operate betwee Porterville and Success. ②DS-100 to 111; P-1 and P-4 class engs. no permitted to operate between Oil Jct. and Oil City.				

Ratings shown for nominal class DP-3 through 11 are applicable to 3-unit engines. To determine rating of engine with less than 3 units, divide published rating by 3 and multiply by number of units comprising the engine.

Ratings shown for nominal class DF-1 through 12 are applicable to 4-unit engines. To determine rating of engine with less than 4 units, divide published rating by 4 and multiply by number of units comprising the engine.

UNLESS AUTHORIZED BY SUPERINTENDENT, ENGINES WILL NOT BE PERMITTED TO OPERATE IN TERRITORIES WHERE NO RATING IS SHOWN IN ENGINE RATING TABLE.

#### SPECIAL INSTRUCTIONS—TEHACHAPI SUBDIVISION

RULE 104. The normal position of rigid switches at the end of double track and at junctions, is as follows:

Magunden . . . . . Arvin Branch, for eastward track, Mojave..... End of double track, for westward track, Mojave...... Owenyo Branch, for westward track.

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OMonolith: Trains entering center storage track, located between main tracks, at west end must line switches in the following order: Main track switch first; inside switch next; then derail. After train is in storage track, switches must be lined in the following order: Main track switch first: derail next; then inside switch.

RULE 306. The following block signals equipped with triangular plate bearing the letter "P" have included in their control limits some special protective device. Absolute signals

Eastward Westward Signal Protection Signal

P-3556 Slide detector fence between Tunnels 14 and 15. P-A

RULE 93. Yard limits in which the provisions of Rule 93 will apply, except within CTC limits, are established at the following stations: West MP East MP

RULE 14(e). As specified below — — — — will

RULE 21-C. In Bakersfield indicators must be dis-

indication that flagman may return from east:

Magunden..... Trains on Arvin Branch,

played to relief track.

Mojave..... Trains on Owenyo Branch.

 

 307.66
 Bakersfield
 321.09

 " (Arvin Branch)
 317.02

 317.02
 Arvin Branch
 To end of branch

 

Bakersfield: Trains entering or leaving yard tracks between Baker St. and Haley St., or between Mt. Vernon Ave. and Signal 3147 must receive proceed signal from yardman, green flag by day, green light by night.

Westward SP trains must not pass Signal 3147 at Mt. Vernon Ave. displaying stop indication, to enter yard, unless proceed signal received from yardman, green flag by day, green light by night.

OMojave: Eastward trains are authorized to move between Signal 3802 and Signals 3815 or 3817 by block signals whose indications will supersede the superiority of trains with the following exceptions:

Eastward trains, except first-class, must not pass Signal 3802 displaying proceed indication unless proceed signal received from yardman, green flag by day, green light by night.

Eastward trains may pass Signal 3802 displaying stop indication, without stopping, at restricted speed to continue on main track provided proceed signal received from yardman, green flag by day, green light by night or to enter yard tracks provided flashing white light is displayed on signal mast or proceed signal received from yardman, green flag by day, green light by night.

Westward trains leaving Mojave yard tracks must receive proceed signal from yardman, green flag by day, green light by

Following whistle signals will be sounded by eastward trains approaching Mojave:

SP passenger trains —, freight trains o — o, light engines

AT&SFRy passenger trains — o, freight trains — o —, light engines o

RULE 99-A. Flag protection to the rear is not required by westward freight trains stopping at Bena on westward main track, with rear of train standing between sign reading "End of CTC" and westward automatic Signal 3271 opposite fouling point at west end of siding.

RULE 103-A. Public Utilities Commission orders prohibit operation of train, engine, motor or car over the following crossings unless first brought to a stop and traffic on the highway protected by a member of the crew.

Arvin ..... Widmer Road, MP 332.60, while switching.

#### RULE 535. SPRING SWITCHES

Spring switches not equipped with facing point locks are

Location	Normal Position
BenaWest end siding	Westward track
Caliente West end westward siding.	Eastward siding
Caliente East end eastward siding	Westward siding
Bealville West end westward siding .	Eastward siding
Bealville East end eastward siding	Westward siding
Marcel West end westward siding.	Eastward siding
Marcel East end eastward siding.	Westward siding
TehachapiWest end No. 2 siding	Controlled siding
Summit East end siding	Eastward track

Switch position indicator located at: Bakersfield . . . . . Spring switch leading from back lead to inbound engine track.

Indicator does not indicate track occupancy. When indicator displays red aspect, or is not lighted, careful examination of switch must be made before passing over in eastward

#### RULE 605. INTERLOCKING

Kern Jct. Tower: AT&SFRy junction switch, McKittrick Branch junction switch, and end of double track. Whistle signals:

For main track, —, To or from McKittrick Branch, — o —, From SP to AT&SFRy main track, o — — Between main track and transfer track, o — o, To or from No. 1 track, o o — o.

Westward dwarf light signals at end of double track display green aspect for movement to SP single track, and yellow aspect for movement to AT&SFRy westward track, or to SP No. 1 track.

Eastward dwarf signal at west interlocking limit displays green aspect for movement to eastward track, and yellow aspect for movement against current of traffic to westward track.

## SPECIAL INSTRUCTIONS—TEHACHAPI SUBDIVISION

#### RULE 705. LETTER TYPE INDICATORS

Indicators	located as follows:	
Illum. On		Authorizes and requires
Letter Signal	Approaching	movement as follows
MD-3262	Bena	Proceed to CTC limit.
SD-3262	Bena	. Enter siding.
$M \dots 3273$	West end siding	
	Bena	Enter westward track and
		proceed to Bakersfield.

Train on siding Bena must not enter westward track until letter "M" on dwarf signal 3273 is illuminated, or permission received from train dispatcher.

When letter "S" is illuminated on mast of westward absolute signal at entrance to CTC at Tehachapi, it indicates that operator has released electric lock, and authorizes train, after stopping at absolute signal, to line switch at east end

RULE 760. CENTRALIZED TRAFFIC CONTROL Limits extend from end of double track Bena to end of double track Tehachapi.

Eastward trains stopped by absolute signal at Bena may recall flagman when flashing white light displayed on signal, and prepare to start when signal clears.

Signal line between MP 325.20 and MP 340.50 carries 2300 volts, and if blown down or knocked down must not be touched, and train dispatcher must be notified immediately.

⊙Eastward and westward signals on siding at middle crossovers at Rowen have call-on unit which, when flashing yellow authorizes a train on siding, after stopping, to proceed on siding but must expect to find siding occupied

Controlled siding at Tehachapi extends from west switch to fouling point just west of end of double track.

No. 2 siding at Tehachapi is not a controlled siding, and may be used by trains in either direction but has an electric lock on east switch which must be released by signal operator at Tehachapi before it can be hand-thrown.

OWestward absolute signal on westward track at entrance to CTC at Tehachapi has call-on unit which, when flashing yellow authorizes a train, after stopping, to pass signal to enter No. 2 siding, or track 3, but must expect to find tracks occupied.

Westward absolute signal at east end of Caliente has callon unit which may display flashing yellow light authorizing train to pass signal when making switching moves into house track after electric lock has been released and switches properly lined.

#### GENERAL REGULATIONS

RULE 824. Instructions for setting hand brakes:

Mojave: On eastward freight trains, engineer will stop train on receiving track with slack bunched on entire train. Set 10 hand brakes on head-end and 10 on rear-end, except on train powered by diesel engine train may be permitted to stand without hand brakes set if conductor has reached understanding with engineer that he or fireman (with not less than 2 years experience) will remain on the engine at all times to insure no undesired movement.

On westward freight trains, set 10 hand brakes on rear-end and 10 on head-end, except on train powered with diesel engine train may be permitted to stand with 10 brakes set on rear-end if conductor has reached understanding with engineer that he or fireman (with not less than 2 years experience) will remain on the engine at all times to insure no undesired movement.

RULE 825. Portable rail skids are hung on posts at lower end of sidings at:

Bealville Woodford Bena Walong Ilmon Cliff Tehachapi Rowen Marcel Summit Caliente Allard

When necessary to leave cars on any of these sidings permission must first be obtained from chief train dispatcher, after which rail skid must be placed on rail and leading wheel of first car in descending direction run onto the rail skid, and hand brakes set if brakes are operative, before engine is detached. Trains picking up cars from these sidings must remove rail skid and return it to proper post and lock it in place with switch

ORULE 827. When necessary to use retainers as prescribed by Rule 17, freight trains handled by diesel engines and using dynamic brakes need not stop, if in the judgment of conductor and engineer wheels are not overheating. When dynamic brakes are inoperative stops must be made as prescribed for trains handled by steam engines.

Freight trains handled by steam engine may make continuous run Tehachapi to Woodford, where stop of 10 mins. must be made. If stop made at Cable, Marcel or Walong for 10 mins., succeeding run may be made to Cliff, where stop of 10 mins. must be made. After 10 min. stop at Woodford, Rowen or Cliff, succeeding run may be made to Bena.

On freight trains between Ilmon and Mojave, a member of crew must observe track to rear of train for evidence of derailment or any other condition requiring immediate stopping

All passenger trains, except regular No. 56, must stop at Mojave, approaching at not to exceed 8 MPH to allow forward brakeman to detrain on station side where rear of train will stop. Brakeman will then make rolling inspection of train, then walk length of train on opposite side making standing inspection, giving careful attention to running gear and journal boxes, and entrain on station side.

Westward light steam engines equipped with tire coolers, except AC class, are not required to stop between Tehachapi and Caliente. AC class and other steam engines not equipped with tire coolers must stop sufficient length of time at some point between Cable and Bealville for engineer to make one inspection.

#### SPECIAL INSTRUCTIONS—TEHACHAPI SUBDIVISION

#### AIR BRAKE RULES

RULE 3. Brake pipe pressure for freight and mixed trains handled by diesel engine using dynamic brakes in retainer territory is 90 pounds and brake pipe pressure must not be permitted to drop below 70 pounds.

Main reservoir position of selector cock must be used on descending grades.

RULE 17. Retainers will be used on passenger trains handled by diesel engines as follows:

Eastward trains with two dynamic brakes working and not to exceed 1000 tons, or with three or more dynamic brakes working and not to exceed 1750 tons need not use retainers unless requested by engineer.

Westward trains with two dynamic brakes working and not to exceed 1000 tons, or with three or more dynamic brakes working and not to exceed 1750 tons need not use retainers unless requested by engineer.

Retainers will be used on passenger trains handled by steam engines as follows:

On eastward trains all retainers Cameron to Mojave, except when No. 52 has not to exceed three head-end cars and other trains have not to exceed two head-end cars, all accessible retainers will be used, unless more are requested by engineer. Retainers on head-end cars may be turned up at Tehachapi or Summit instead of Cameron.

On Westward trains all retainers Tehachapi to MP 337.10, except when No. 51 has not to exceed 3 head-end cars, and other trains have not to exceed two head-end cars, all accessible retainers will be used, unless more are requested by engineer. Retainers on head-end cars, except on regular No. 55, may be turned up at Mojave.

ORetainers will be used on freight trains handled by diesel engines with dynamic brakes in operation as follows:

Eastward trains, Cameron to Mojave, one retainer for each 100 tons in train:

Four dynamic brakes with over 3750 tons; Three dynamic brakes with over 3250 tons; Two dynamic brakes with over 1600 tons:

One dynamic brake with over 700 tons. Westward trains, Tehachapi to Caliente, one retainer for each 100 tons in train:

Four dynamic brakes with over 3750 tons: Three dynamic brakes with over 2800 tons; Two dynamic brakes with over 1400 tons; One dynamic brake with over 700 tons.

Additional retainers must be used if requested by engineer. Conductor must advise train dispatcher when retainers

Retainers will be used on freight trains handled by steam engines as follows:

One retainer on eastward trains Cameron to Mojave, and on westward trains Tehachapi to Caliente for each 50 tons in train. If not sufficient cars in train to make average of 50 tons per retainer, all retainers will be used

Westward trains may turn up retainers at west end of Tehachapi if not required to stop before entering CTC. Retainers may be turned down at Ilmon or Bena instead of Caliente. If retainers not turned down before reaching Bena, speed of 25 MPH must not be exceeded Ilmon to Bena.

#### FREIGHT TRAINS

RULE 22. Trainmen must not couple air hose on outgoing trains at Mojave, until train is made up and caboose on train. Coupling the caboose to rear of train will be considered as an indication that the train is made up and vardmen have completed their work. Yardmen must not perform switching on, or couple other cars to a train on which caboose has been attached, without instructions from the yardmaster, who will see that members of crew are notified in advance.

RULE 25. Rear end test will be made in accordance with Rule 25 (b); and in addition will be made by all trains that stop at Summit and Mojave; and by westward trains that stop

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Trains not required to stop at Summit must make running air brake test between siding switches, unless rear end test has been made at Tehachapi, Monolith or Eric. Trainmen will note reduction on caboose gage, and following build up in pressure when brakes are released, give proceed signal. Running test will be made as follows: Engineer will make reduction of approximately seven pounds, wait for slack to adjust itself, then add three pounds before releasing.

RULE 33. The maximum tonnage per operative brake Tehachapi to Caliente and Cameron to Mojave is 63 tons, except: trains handled by diesel engines with four dynamic brakes working, will not exceed 75 tons per operative brake. with three dynamic brakes working, not to exceed 70 tons per operative brake, with two dynamic brakes working, not to exceed 65 tons per operative brake.

If dynamic brake failure occurs while diesel engine is handling in excess of 63 tons per operative brake, train may proceed, if in judgment of conductor and engineer it is safe to do so, at speed not exceeding 15 MPH. Retainers must be used as prescribed by Rule 17.

#### PASSENGER TRAINS

ORULE 39. Running test must be made at Summit, unless running test has been made by westward trains at Eric or if eastward trains use train air brakes to make station stop at Tehachapi it will not be necessary to make running test at Summit.

#### TRAIN HANDLING

ORULE 60. On freight trains handled by diesel engine and using dynamic brakes, before entering or leaving a siding, turnout or crossover on descending grade between Tehachapi and Caliente, or turnout or crossover Mojave yard, dynamic braking force must be reduced to one-half of the maximum, and, if necessary, automatic brakes applied sufficiently so that speed of 15 MPH will not be exceeded while engine is moving between points 500 feet before reaching, and 1500 feet after passing, the turnout or crossover.

## **MISCELLANEOUS**

10. Engines listed must not operate on tracks shown below: Class of Engine Restricted Tracks F, Mt, GS, SP..... Bakersfield — Santa Fe Interchange east and west end of Cement plant.

Load limit (car and contents):

Unless authorized by Superintendent, heavier loads must not be handled

© SPEED RESTRICTIONS FOR TRAINS: Maximum speed of trains in territory shown below is subject to further restrictions applicable to engines in the train as shown in SPEED RESTRICTIONS FOR ENGINES appearing on page 4, and MAXIMUM SPEED PERMITTED WITH CERTAIN EQUIPMENT and OTHER MAXIMUM SPEEDS appearing on page 5 of Special Instructions for All Subdivisions. Speed must be further reduced as prescribed by speed signs, except as specifically authorized by Special Instructions herein, or by timetable bulletin.

All trains must run carefully during and after heavy storms, particularly when the track is apt to be affected. When fog, storms or other conditions obscure track or signals, speed of trains must be so reduced as to permit strict observance of signals and INSURE SAFETY, REGARD-

								[ 16	GHT			
		ec				GHT HNES			<b></b>	_	ENG	INES
	TERRITORY	PASSENGE	TRAINS	FREIGHT AND MIXED	RUNNING	RUNNING	TERRITORY		PASSENGER TRAINS	FREIGHT AND MIXED	RUNNING	RUNNING
MP	MP	Column:	1	2	3	4	MP MP	Column:	1	2	3	4
EASTV MOJ 312.90 313.60 AT& 313.80 314.60 325.60 326.00 327.96 328.10 331.00 359.50 360.60 368.74 371.40 380.00	WARD, BAKERSHAVE: to 313.60 (Bakersfie to 313.80 (Kern Jct SFRy trains. to 314.60	eld)), except:	220 335 10 335 600 440 550 335 550 225 50 660 50 30 115 30	20 20 10 20 50 40 40 30 40 40 40 40 20 15 20	20 20 10 20 50 40 40 20 40 40 20 40 20 15 20	20 20 10 20 30 30 30 30 30 30 30 30 30 30 30 30 30	380.00 to 371.40. 371.40 to 368.74 to 360.60. 368.74 to 360.60. 331.00 to 326.00. 326.00 to 325.60. © 325.60 to 314.60. 314.60 to 313.80.	MOJAVE TO LD:  (Kern Jct.), except:	30 30 50 60 25 50 40 60 35 15 10 20	30 30 40 20 40 40 50 20 15 10 20	20 30 40 40 320 40 40 50 20 15 10 20	20 30 30 30 15 30 30 20 15 10 20
317.06 324.22 324.41 329.76	WARD, MAGUND to 317.06 to 324.22 to 324.41 to 329.76 to 329.95 to 333.54		8 15 8 15 8 15	8 15 8 15 8 15	8 15 8 15 8 15	8 15 8 15 8 15	329.95 to 329.76 329.76 to 324.41 324.41 to 324.22 324.22 to 317.06	ARVIN TO MAGUNDEN:	15 8 15 8 15 8	15 8 15 8 15 8	15 8 15 8 15 8	15 8 15 8 15 8

⊙①Eastward passenger trains, not using retainers, may make maximum speed of 45 MPH from MP 371.40 to MP 380.00.

© DF class engines running light, with not less than two dynamic brakes working, may make maximum speed of 30 MPH from MP 371.40 to MP 380.00. AT&SFRy 2600 and 2700 series diesel engines without dynamic brakes must not exceed 20 MPH when running light MP 371.40 to MP 380.00.

⊙ ③DP, DF, P, Mt and GS engines; and AT&SFRy DE engines running light may make maximum speed of 25 MPH from MP 360.60 to MP 331.00, except AT&SFRy 2600 and 2700 series diesel engines without dynamic brakes must not exceed 20 MPH when running light MP 360.60 to MP 331.00.

AT&SFRy passenger trains with diesel engine on rear shoving in backward motion, may operate at passenger train speed, but must not exceed

⊙When four units of AT&SFRy diesel engines 2650 to 2847 in multiple unit control are operated in helper service, they must be placed in train so that they will be pulling approximately their tonnage on ascending grade.

SPEED RESTRICTIONS FOR OTHER NOTHAN MAIN TRACKS	Vith Caution of Exceeding MPH
Through sidings, yard and other tracks, wyes, balloon tracks, crossovers and turnouts, except: Through slip switches	15 10 10
Through turnouts on other than sidings On branches Through all sidings, yard tracks and other tracks with engine running backward	10

# SPECIAL INSTRUCTIONS—TEHACHAPI SUBDIVISION

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	RATING OF ENGINES—In	Units o	f 2000 L	bs. (Tor	15)
NOMINAL CLASS	ENGINE NUMBERS	Bakersfield to Mojave	Mojave to Bakersfield	Magunden and Arvin	
DP-3 DP-4, 7 DP-5, 6 DP-8 to 10 DP-11	6017 6000 to 6004, 6018. 6005 to 6016. 6019 to 6033. 6034 to 6045.	500 1550 1600	875 1700 1750		
DF-1 to 12 DF-100 DF-101 to 108, 110, 112 DF-109, 111 DF-114, 116, 117, 118 DF-120 DF-120 DF-200 to 204 DF-300 to 304 DF-500, 501	6138 to 6461 5200 to 5202 5203 to 5249, 5253 to 5278, 5500 to 5502 5250 to 5252, 5503 to 5505 5279 to 5293, 5308 to 5335 5294 to 5307, 5336 to 5339 5340 to 5371 5100 to 5118 4600 to 4623, 4700 to 4703 4800 to 4815	2800  850  1000 1250  350 500	3400 925 1100 1350 375 575	3550  1150	
DS-1 to 8 DS-100 to 109, 111, 115 DS-110, 114, 118 DS-113, 117 DS-200, 201	1000 to 1032 1300 to 1441, 1464 to 1485, 1514 to 1528 1442 to 1463, 1492 to 1513, 1539 to 1550 1486 to 1491, 1529 to 1538 1900 to 1903	240 ①375 505	265 ②420 550	900 1375 1750	
M-4 M-6, 8 M-9 M-11 T-1 T-23 T-28, 31 T-32	1629 to 1713 1721 to 1801, 1824, 1825 1805 to 1817, 1830 1833 to 1835 2248, 2252 2302, 2303, 2310 2312 to 2362 2365 to 2384	290 350 380 390 235 365 410 430	340 410 445 455 280 425 475 495	1150 1350 1450  1000 1450 1600 1800	
P-1, 3 P-4 P-5 (T&NO) P-6 P-7 P-8, 10 P-8, 10	2411, 2431	315 345 405 430 415 415	370 400  470 500 490 490	1275 1400	
C-8, 9, 10 C-18 C-19 TW-8	2513 to 2598, 2700 to 2860 3400, 3406. 3420, 3423, 3426. 2914.	450 435 445 385	525 500 525 455	2000 1850 1925 1475	
Mk-2, 4 Mk-5, 6 Mk-7, 8, 9 Mk-11	3203 to 3236. 3247 to 3275. 3303 to 3324. 3298.	525 600 650 490	600 675 750 575		
F-1 F-3, 4, 5 AC-4, 5 AC-6 to 12	3611 to 3652. 3653 to 3770. 4104 to 4122. 3801 to 3811, 4126 to 4294.	675 750 1250 1350	775 875 1450 1550		
Mt-1, 3, 4, 5 GS-1, 2 GS-3, 4, 5, 6 GS-7, 8 SP-1, 2, 3	4300 to 4376. 4400 to 4415, 4470 to 4473. 4416 to 4469. 4475 to 4487. 5000 to 5047.	600 600 625 900	675 700 725  1050		:

(i)Rating Bakersfield to Edison 900.

②Rating Edison to Bakersfield 4000.

Any AT&SFRy engine may operate between Kern Jct. and Mojave.

Ratings shown for nominal class DP-3 through 11 are applicable to 3-unit engines. To determine rating of engine with less than 3 units, divide published rating by 3 and multiply by number of units comprising the engine.

Ratings shown for nominal class DF-1 through 12 are applicable to 4-unit engines. To determine rating of engine with less than 4 units, divide published rating by 4 and multiply by number of units comprising the engine.

UNLESS AUTHORIZED BY SUPERINTENDENT, ENGINES WILL NOT BE PERMITTED TO OPERATE IN TERRITORIES WHERE NO RATING IS SHOWN IN ENGINE RATING TABLE.

RULE 10-J. Speed sign for westward trains at MP 461.80, reading 60-40 is located to left of track.

⊙Speed signs for eastward trains at MP 458.94, reading 60-35 is located to left of track.

RULE 14(e). As specified below, — — — — will be indication that flagman may return from east:

Mojave......Trains on Owenyo Branch.

RULE 21-B. Does not apply on Keeler Branch.

RULE 93. Yard limits in which the provisions of Rule 93 will apply are established at the following stations:

West M	1P E	ast MP
378.87	Mojave(Owenyo Branch)	382.43 381.60
404.40	Lancaster	405.85
419.73	Vincent	421.27
449.37	Saugus	451.64
448.17	Saugus(Santa Paula Branch)	
460.87	San Fernando	462.10
427.68	Searles	430.03
446.58	Inyokern	447.75
522.26	Owenyo	523.26
559.30	" (Keeler Branch)	560.45
574.79	Keeler	507.49
	Laws	507.49

Yard limit sign located to left of track: Eastward at Burbank Jct. at MP 471.20.

OMojave: Westward trains are authorized to move between Signals 3815 or 3817 and Signal 3802 by block signals whose indications will supersede the superiority of trains with the following exceptions:

Westward trains, except first-class, must not pass Signals 3815 or 3817 displaying proceed indication unless proceed signal received from yardman, yellow flag by day, yellow light by night or flashing white light is displayed on signal mast to pass Signal 3815; or green flag by day, green light by night or flashing white light is displayed on signal mast to pass Signal 3817.

Westward trains may pass Signals 3815 or 3817 displaying stop indication, without stopping, at restricted speed to continue on main track or enter yard tracks provided proceed signal is received from yardman, yellow flag by day, yellow light by night or flashing white light is displayed on signal mast to pass Signal 3815; or green flag by day, green light by night or flashing white light is displayed on signal mast to pass Signal 3817.

Trains en route AT&SFRy may pass Signal 3814 displaying stop indication, without stopping, at restricted speed provided proceed signal received from yardman, yellow flag by day, yellow light by night.

Trains and engines from Owenyo Branch may pass Signal 3800 displaying stop indication, without stopping, at restricted speed to enter yard tracks provided proceed signal received from yardman, green flag by day, green light by night.

Signal 3816 has a push button device under control of yardman for placing this signal in stop position, and yard engines must not pass this signal in stop position without first having definite understanding with yardman and be governed by his instructions before applying block signal rules to proceed.

Following whistle signals will be sounded by westward trains approaching Mojave:

SP passenger trains —, freight trains o — o, light engines

AT&SFRy passenger trains — o, freight trains — o —, light engines o — —.

RULE 103-A. Crossing wigwag at Sunland Blvd., Sun Valley, will not operate after train has stopped and crossing has been cut. It will be necessary for brakeman to protect highway traffic during reverse movement when train is recoupled.

RULE 104. The normal position of switches at the end of double track and at junctions is as follows:

Mojave ... End of double track, for westward track,
Mojave ... Owenyo Branch, for westward track,
Mojave ... AT&SFRy, for SP main track,
Saugus ... Santa Paula Branch, for westward siding,
Searles ... Trona Ry, for track 1.

Derails in main track:

Mojave.....230 feet east of junction switch on Owenyo

RULE 306. The following block signals equipped with triangular plate displaying the letter "P" have included in their control limits some special protective device:

Eastward Signal	_	Westward Signal
P-3938 P-4046	Spring switch, east end siding, Gloster Spring switch, east end siding, Ansel Spring switch, west end siding, Rosamond Spring switch, west end siding, Lancaster. Spring switch, east end siding, Lancaster. Spring switch, east end siding, Denis Spring switch, east end siding, Palmdale	P-3911  P-4057 P-4105 P-4143
P-4156	Spring switch, west end siding, Harold	
	Spring switch, east end siding, Harold	
⊙P-4248	Spring switch, west end siding, Paris	$\cdots$ $\left\{ \begin{array}{l} \mathbf{P-4247} \\ \mathbf{P-4249} \end{array} \right\}$
⊙P-4254 ⊙P-4256}	Spring switch, east end siding, Paris	P-4257
⊙P-4288	Spring switch, west end siding, Ravenna.	$\cdots \begin{cases} P-4287 \\ P-4289 \end{cases}$
P-4296 P-4298 ⊙P-4338 P-4346)	Spring switch, east end siding, Ravenna  Spring switch, west end siding, and slide detector fence middle of siding, Russ  Spring switch, east end siding, Russ, and sl	P-4337 P-4339
P-4348}	detector fence at MP 435	P-4347 P-4357
⊙ <b>P-4</b> 382	Spring switch, west end siding, Lang	$\cdots \begin{cases} \mathbf{P} - 4383 \\ \mathbf{P} - 4385 \end{cases}$
P-4392\ P-4394}	Spring switch, east end siding, Lang	(D 4495
⊙ <b>P-4426</b>	Spring switch, west end siding, Humphreys	S. (P-4425 P-4427
P-4434 P-4436	Spring switch, east end siding, Humphreys	
P-4466	Spring switch, west end siding, Honby Spring switch, east end siding, Honby Spring switch, east end siding, Newhall	P-4475 P-4541
P-4580	Spring switch, west end siding, Sylmar	···(P-4583
P-4610	Spring switch, west end siding, San Fernand	

# RULE 505. AUTOMATIC BLOCK SIGNAL SYSTEM

⊙ Saugus: Eastward siding is within block system limits. When dwarf signal at fouling point at west end of eastward siding displays stop indication, eastward trains entering siding may proceed expecting to find siding occupied.

**Burbank Jct.:** Trains stopped by Signal 4704 must call train-order operator and be governed by his instructions, before applying block signal rules to proceed.

RULE 516. Overlap posts:

Pacoima....... Westward trains, MP 463.30.

## RULE 535. SPRING SWITCHES

Spring switches equipped with facing point locks are located as follows:

Location		Normal Position
Gloster	.East end siding	Main track
Ansel	.East end siding	Main track
Rosamond	.West end siding	Main track
Lancaster	. West end siding	Main track
Lancaster	.East end siding	Main track
	.East end siding	
Palmdale	East end siding	Main track
Harold	.West end siding	Main track
Harold	.East end siding	Main track
	. West end siding	
Paris	.East end siding	Main track
Ravenna	. West end siding	Main track
	.East end siding	
Russ	. West end siding	Main track
Russ	.East end siding	Main track
Lang	.West end siding	Main track
Lang	.East end siding	Main track
Humphreys	. West end siding	Main track
Humphreys	East end siding	Main track
Honby	. West end siding	Main track
Honby	.East end siding	Main track
	.East end siding	
	.West end siding	
	.West end siding	
Consissor annitabase	, mat aguinmad with faci	na noint looka oro

Spring switches not equipped with facing point locks are located as follows:

Location Normal Position

Vincent.... West end westward siding... Eastward siding

Vincent.... East end eastward siding... Westward siding

#### RULE 605. INTERLOCKING

Vincent: West Zone.—Limits extend from signals located 50 feet west to 300 feet east of the power operated switch at west end of eastward siding.

East Zone.—Limits extend from signals located 50 feet east to 300 feet west of the power operated switch at east end of westward siding.

⊙Trains approaching Vincent and receiving signal indication per Rules 282, Fig. D or 285, Fig. E, are authorized to proceed on main track ahead of and against all trains to interlocking signal at opposite end of siding.

Saugus-Newhall: Limits extend from 265 feet west of east switch of westward siding Saugus to 265 feet east of west switch of siding Newhall.

When authorized by signal operator at Saugus to handthrow either switch, member of crew must remain with switch to return it to normal position, or arrange for another member of crew to do so, unless otherwise instructed by signal operator.

Burbank Jct.: Whistle signals:

To Mojave Subdivision, or to Los Angeles, —, To siding, o o o o o.

#### GENERAL REGULATIONS

RULE 824. Instructions for setting hand brakes.

Mojave: On eastward freight trains, engineer will stop train on receiving track with slack bunched on entire train. Set 10 hand brakes on head-end and 10 on rear-end, except on train powered by DF class engine train may be permitted to stand without hand brakes set if conductor has reached understanding with engineer that he or fireman (with not less than 2 years experience) will remain on the engine at all times to insure no undesired movement.

On westward freight trains, set 10 hand brakes on rear-end and 10 on head-end, except on train powered with DF class engine train may be permitted to stand with 10 brakes set on rear-end if conductor has reached understanding with engineer that he or fireman (with not less than 2 years experience) will remain on the engine at all times to insure no undesired movement.

RULE 825. Portable rail skids are hung on posts at lower end of sidings at:

Harold Vincent Ravenna Russ Newhall When necessary to leave cars on any of these sidings permission must first be obtained from chief train dispatcher, after which rail skid must be placed on rail and leading wheel of first car in descending direction run onto the rail skid, and hand brakes set if brakes are operative, before engine is detached. Trains picking up cars from these sidings must remove rail skid and return it to proper post and lock it in place with switch lock

RULE 827. On freight trains between Palmdale and San Fernando, and between Searles and Cantil, a member of crew must observe track to rear of train for evidence of derailment or any other condition requiring immediate stopping of train.

All passenger trains, except regular No. 55, must stop at Mojave, approaching at not to exceed 8 MPH to allow forward brakeman to detrain on station side where rear of train will stop. Brakeman will then make rolling inspection of train, then walk length of train on opposite side making standing inspection, giving careful attention to running gear and journal boxes, and entrain on station side.

#### AIR BRAKE RULES

RULE 3. Brake pipe pressure for freight and mixed trains handled by diesel engine using dynamic brakes in retainer territory is 90 pounds and brake pipe pressure must not be permitted to drop below 70 pounds.

Main reservoir position of selector cock must be used on descending grades.

RULE 17. Eastward passenger trains handled by steam engine, Vincent to Lang, with less than 75% graduated release equipment, will use at least 75% of retainers.

Westward passenger trains handled by steam engine, Vincent to Palmdale, with less than 75% graduated release equipment must not exceed 20 MPH, unless five retainers (or more if requested by engineer), are turned up, on the head end.

ORetainers will be used on freight trains handled by diesel engines with dynamic brakes in operation as follows:

Eastward trains Vincent to Lang, one retainer for each 125 tons in train:

Four dynamic brakes with over 3750 tons; Three dynamic brakes with over 3250 tons; Two dynamic brakes with over 1850 tons; One dynamic brake with over 900 tons.

Eastward trains Sylmar or San Fernando to Burbank Jct., one retainer for each 200 tons in train:

Three dynamic brakes with over 5250 tons; Two dynamic brakes with over 4250 tons; Two dynamic brakes with over 3250 tons;

One dynamic brake with over 1600 tons.

Additional retainers must be used if requested by engineer.

Retainers will be used on freight trains handled by diesel engines, class DF-114 and 115 only, with dynamic brakes in

operation as follows: Searles to Garlock, one retainer for each 150 tons in train:

Two dynamic brakes with over 5200 tons; One dynamic brake with over 2600 tons.

If retainers are not used Searles to Garlock, speed of 20 MPH must not be exceeded by westward trains Searles to MP 415.00. If dynamic brakes are inoperative, retainers will be used as prescribed by freight trains handled by steam engine.

Retainers will be used on freight trains handled by steam engines as follows:

One retainer for each 50 tons in train, Vincent to Lang; One retainer for each 200 tons in train of 45 cars or more, Sylmar or San Fernando to Burbank Jct.;

One retainer for each 75 tons in train, Searles to Garlock. Eastward trains may turn up retainers approaching Vincent, or at Harold instead of Vincent; or at Saugus or Newhall instead of Sylmar or San Fernando.

Trains with 20 or more cars of rock or sand Sun Valley to Los Angeles Yard must turn up one retainer for each 75 tons

in train; and continuous run may be made Sun Valley to Los Angeles Yard. If stop made east of Burbank Jct., retainers may be turned down if not required beyond.

Trains using retainers Searles to Garlock must not exceed OMPH.

#### FREIGHT TRAINS

RULE 22. Trainmen must not couple air hose on outgoing trains at Mojave, until train is made up and caboose on train. Coupling the caboose to rear of train will be considered as an indication that the train is made up and yardmen have completed their work. Yardmen must not perform switching on, or couple other cars to a train on which caboose has been attached, without instructions from the yardmaster, who will see that members of crew are notified in advance.

RULE 25. Rear end test will be made in accordance with Rule 25 (b); and in addition will be made by all trains that stop at Mojave, Vincent and Searles.

Trains not required to stop at Vincent or Searles must make running air brake test between siding switches. Trainmen will note reduction on caboose gage, and following build up in pressure when brakes are released, give proceed signal. Running test will be made as follows: Engineer will make reduction of approximately seven pounds, wait for slack to adjust itself, then add three pounds before releasing.

**RULE 33.** The maximum tonnage per operative brake between Searles and Garlock is 75 tons; and between Palmdale and Saugus is 63 tons.

Between Palmdale and Saugus, trains handled by DF class engines with four dynamic brakes working, will not exceed 75 tons per operative brake; with three dynamic brakes working not to exceed 70 tons per operative brake, or two dynamic brakes working, not to exceed 65 tons per operative brake. If dynamic brake failure occurs while handling in excess of 63 tons per operative brake, train may proceed if in judgment of conductor and engineer it is safe to do so, at speed not exceeding 15 MPH. Retainers must be used as prescribed by Rule 17.

#### PASSENGER TRAINS

RULE 39. Running test will be made at following points:

#### TRAIN HANDLING

©RULE 60. On freight trains handled by diesel engine and using dynamic brakes, before entering or leaving siding, turnout or crossover on descending grade between Palmdale and Burbank Jct., dynamic braking force must be reduced to one-half of the maximum and, if necessary, automatic brake applied sufficiently so that speed of 15 MPH will not be exceeded while engine is moving between points 500 feet before reaching, and 1500 feet after passing turnout or crossover.

# SPECIAL INSTRUCTIONS—MOJAVE SUBDIVISION

519.4

East of Lone Pine ... Owens River bridge ..... Side

10. Engines listed must not operate on tracks shown below:

⊙5. Steam helper engines on freight trains must be placed

**MISCELLANEOUS** 

in rear through Tunnel 25.

Class of Engine	Restricted Tracks
AC, Mt, GS, SP	San Fernando — Transfer track, beyond 300 feet from switch.
$\mathbf{All}\dots\dots\dots\dots\dots\dots$	Sun Valley — Consolidated Rock
	tracks, beyond 75 feet west of derail.
AC, Mt, GS, SP	Sun Valley-Union Supply track.
Mk, F, AC, Mt, GS, S	PAll stations between Mojave and
	Searles—Must not leave main
	track, except at Neuralia, Can-
	til, Rand, Garlock.
All	Inyokern-Must not go beyond
	200 feet west of east interchange
	track.

Blue light in Tunnel 25 marks location of box containing two knuckles, two air hose, and a wrench for emergency use.

Due to impaired overhead and side clearance, the spotting or switching of cars under the Narrow Gage high line at Owenyo is prohibited.

Engines equipped with pilot snow plow, except Mt and GS class, are prohibited from entering Los Angeles LAUPT, account impaired platform clearance.

⊙11. Load limit (car and contents):

Mojave-Burbank Jct.251,000 pounds⊙ Mojave-Owenyo251,000 poundsLaws-Keeler (Narrow Gage)65,000 pounds

Unless authorized by Superintendent, heavier loads must

- 17. Sanding of flues not permitted between Tunnels 18 and 19, or between east switch Russ and 1000 feet east of east switch Russ.
  - 26. Turntable at Laws must be secured by switch lock.
- ⊙29. Operation between MP 449.78 Saugus, and Burbank Jct., under the jurisdiction of Los Angeles Division. Train dispatching between Saugus and Burbank Jct. is under the jurisdiction of San Joaquin Division.

Employes operating in and out of Los Angeles LAUPT are required to have a copy of, and be conversant with current book of rules of LAUPT.

# SPECIAL INSTRUCTIONS—MOJAVE SUBDIVISION

OSPEED RESTRICTIONS FOR TRAINS: Maximum speed of trains in territory shown below is subject to further restrictions applicable to engines in the train as shown in SPEED RESTRICTIONS FOR ENGINES appearing on page 4, and MAXIMUM SPEED PERMITTED WITH CERTAIN EQUIPMENT and OTHER MAXIMUM SPEEDS appearing on page 5 of Special Instructions for All Subdivisions. Speed must be further reduced as prescribed by speed signs, except as specifically authorized by Special Instructions herein, or by timetable bulletin.

22

All trains must run carefully during and after heavy storms, particularly when the track is apt to be affected. When fog, storms or other conditions obscure track or signals, speed of trains must be so reduced as to permit strict observance of signals and INSURE SAFETY, REGARD-

LIGHT						1						3HT
	TERRITORY	PASSENGER TRAINS	FREIGHT AND MIXED		BACK WARD SELECT		TI	ERRITORY	PASSENGER TRAINS	FREIGHT AND MIXED	RUNNING FORWARD 32	RUNNING SE
MP	MP Column:	1	2	3	4	МР	MP	Column:	1	2		4
EASTWA BURBA 380.70 to 381.40 to 3 AT&SF 381.47 to 4 405.07 to 4 405.46 to 4 414.80 to 4 417.36 to 4 420.50 to 4 435.19 to 4 436.74 to 4 439.30 to 4 439.30 to 6	RD, MOJAVE TO (NK JCT.: 381.40. 381.47, except: Ry trains. 405.07. 405.46 (street crossings). 414.80. 414.80. 417.36. 420.50. 425.68. 435.19. 436.74. 438.17. 439.30. 442.13.	30 65 20 65 65 65 50 30 30 35 30 35 40 30	20 ①50 20 ①50 40 ①50 40 25 25 25 25 25 25 25 25 25 25	20 50 20 50 40 50 40 25 25 25 25 25 25 25 25 25 25 25 25 25	20 30 20 30 20 30 30 20 20 20 20 20 20 20 20 20 20 20 20 20	WESTY MOJ Thru B 461.90 ( 461.80 ( 458.94 ( 457.25 ( 456.25 ( while 450.60 ( 448.23 ( 446.22 ( 442.13 ( 439.30 ( 438.17 ( 436.74 (	WARD, AVE: urbank J to 461.90 to 461.80 to 458.94 to 457.25 to 450.60 e passing to 448.23 to 446.22 to 439.30 to 438.17 to 436.74 to 436.74	ct. interlocking	35 60 25 60 40 30 40 20 30 40 30 40 35 30 35	35 40 25 40 25 20 25 20 25 20 25 30 25 25 25 25 25 25 25 25 25 25 25 25 25	35 40 25 40 25 20 25 20 25 30 25 30 25 25 25 25 25 25 25 25 25 25 25 25 25	30 30 20 30 25 20 25 20 20 20 20 20 20 20 20
446.22 to	448.23	40 30	30 25	30 25	20 20	435.19 426.00	to 426.00 to 422.00		30 40	25 25	25	20
454.81 to 456.25 to 457.25 to 458.94 to 461.80 to 461.90 to	454.81 456.25 457.25 458.94 (Sylmar) 461.80 (San Fernando) 461.90 (street crossings) 471.49 (Burbank Jct.), except:	40 40 30 40 60 25 60 25	35 25 220 25 25 25 25 225 25 25	35 25 20 25 25 25 25 25 25 25	30 25 20 25 25 25 20 25 25 25	420.50 417.00 414.80 405.46 405.07 381.47	to 417.00 to 414.80 to 405.46 to 405.07 to 381.47 to 381.40	(street crossings) , except: ains (Mojave).	65 65 65 65 20	25 20 20 (150 40 (150 (150 20 30	25 20 20 50 40 50 50 20 30	20 20 20 30 20 30 30 20 30 20 30

①Applies to single engine trains only. If more than one engine in train, speed must not exceed 40 MPH.

© Eastward freight and mixed trains, not using retainers, may make maximum speed of 25 MPH from MP 456.25 to MP 457.25 and 35 MPH from MP 458.94 to MP 461.80 and MP 461.90 to MP 471.49.

Eastward passenger trains handled by diesel engine with three or more dynamic brakes operating, may run not to exceed 40 MPH from MP 422 to MP 426 (between Vincent and Acton).

Eastward freight trains, filling out at Mojave with over five loads, weighing in excess of 75 tons per car, will not exceed 25 MPH Mojave to

Westward freight and mixed trains handled by DF class engine, may run not to exceed 30 MPH from MP 417.36 to MP 414.80.

Maximum speed with DF light engine with not less than two dynamic brakes working:

# SPECIAL INSTRUCTIONS—MOJAVE SUBDIVISION

23

OSPEED RESTRICTIONS FOR TRAINS: Maximum speed of trains in territory shown below is subject to further restrictions applicable to engines in the train as shown in SPEED RESTRICTIONS FOR ENGINES appearing on page 4, and MAXIMUM SPEED PERMITTED WITH CERTAIN EQUIPMENT and OTHER MAXIMUM SPEEDS appearing on page 5 of Special Instructions for All Subdivisions. Speed must be further reduced as prescribed by speed signs, except as specifically authorized by Special Instructions herein, or by timetable bulletin.

All trains must run carefully during and after heavy storms, particularly when the track is apt to be affected. When fog, storms or other conditions obscure track or signals, speed of trains must be so reduced as to permit strict observance of signals and INSURE SAFETY, REGARD-LESS OF TIME.

		<u></u>		ENG	GHT BINES				6	_	ENG	INES
	TERRITORY	PASSENGER	FREIGHT AND MIXED	FORWARD	RUNNING		TERRITOR	Y	PASSENGER TRAINS	FREIGHT AND MIXED	FORWARD	RUNNING BACKWARD
MP	MP Column:	1	2	3	4	МР	МР	Column:	1	2	3	4
⊙380.09 to ⊙380.47 to	RD, MOJAVE TO OWENYO: 380.47. 522.55. 523.25 (Owenyo).	30	15 30 10	15 30 10	15 20 10	523.25  t 0.522.55  t	WARD, OWENY to 522.55 to 380.47 to 380.09		10 30 15	10 30 15	10 30 15	10 20 15
506.80 to 520.50 to 522.70 to 528.50 to 529.00 to 547.00 to 550.00 to	RD, LAWS TO KEELER: 520.50. 522.70. 528.50. 529.00. 547.00. 550.00. 557.00. 576.93.	25 30 15 30 25 30 25	30 25 30 15 30 25 30 25 30	20 20 20 15 20 20 20 20 20 20	15 15 15 15 15 15 15 15 15	576.93 t 557.00 t 552.00 t 550.00 t 547.00 t 529.00 t 528.50 t 522.70 t	0 552.00 0 550.00 0 547.00 0 529.00 0 528.50 0 522.70 0 520.50	R TO LAWS:	25 30 25 30 15	30 25 30 25 30 15 30 25 30	20 20 20 20 20 15 20 20 20	15 15 15 15 15 15 15 15

SPEED RESTRICTIONS FOR OTHER THAN MAIN TRACKS	With Caution Not Exceeding MPH
Through sidings, yard and other tracks, wye	s,
balloon tracks, crossovers and turnouts, excep-	t: 15
Through slip switches	. 10
Through turnouts on other than sidings	. 10
On branches	
Through all sidings, yard tracks and other	er
tracks with engine running backward	. 10

Between Mojave and Owenyo maximum speed of trains as shown below must not be exceeded when handled by following engines, subject to further restrictions shown in Speed Restrictions table above:

# SPECIAL INSTRUCTIONS—MOJAVE SUBDIVISION

# RATING OF ENGINES—In Units of 2000 Lbs. (Tons)

	MATING OF EACH			<del></del>	1		
NOMINAL CLASS	ENGINE NUMBERS	Mojave to Rosamond Rosamond and Lancaster	Lancaster to Saugus	Rosamond to Mojave	Saugus to Lancaster	Los Angeles to Saugus	Saugus to Los Angeles
DP-3	6017	3750	925	1900	925	1575	1200
DP-4, 7 DP-5, 6 DP-8 to 10	6005 to 6016	10000 10275	1775 1850	2900 2975	1775 1850	1900 1975	1900 1950
DP-11		17275	3500	4625	3400	4025	3900
DF-1 to 12 DF-100 DF-101 to 108, 110, 112 DF-109, 111 DF-114, 116, 117, 118	5250 to 5252, 5503 to 5305 5279 to 5293, 5308 to 5335 5204 to 5307 5336 to 5339	5000 5000 6500 7000	975 1450 1200 1425	1525 2250 1875 2225	975 1450 1175 1425	①1350 1550 1250 1250 1525	1350 1525 1300 1500
DF-115, 119 DF-120	5340 to 5371 5100 to 5118						
DF-200 to 204 DF-300 to 304 DF-500, 501	4600 to 4623, 4700 to 4703	3000	600	950	600	650	650
DS-1 to 8 DS-100 to 109, 111, 115 DS-110, 114, 118 DS-113, 117 DS-200, 201	1000 to 1032	1375 2075 3450	280 445 625	485 750 1000	280 445 580	300 490 660	300 490 655
M-4 M-6, 8 M-9 M-11 T-1	1629 to 1713 1721 to 1801, 1824, 1825 1805 to 1817, 1830 1833 to 1835	2075 2425 2550 2650 1725 2525	375 450 485 500 310 470	650 750 825 850 550 800	340 410 445 455 280 425	365 465 495 500 315 465	410 500 550 565 355 515
T-23 T-28, 31 T-32	2302, 2303, 2310 2312 to 2362 2365 to 2384	2775 2850	525 525	900 925	475 495	525 525	600
P-1, 3 P-4	2411, 2431	2300 2500	400 435	700 775	370 400	400 450	445 550
P-5 (T&NO) P-6 P-7 P-8, 10 P-8, 10	2410, 2410,	2825 3000 3125 3125	500 550 550 550	900 950 975 1025	470 500 490 490	500 550 550 550	575 625 625 625
C-8, 9, 10 C-18 C-19 TW-8	2513 to 2598, 2700 to 2860	2000	575 550 575 495	1000 925 950 850	525 500 525 455	600 550 550 490	650 600 625 525
Mk-2, 4 Mk-5, 6 Mk-7, 8, 9 Mk-11	3203 to 3236. 3247 to 3275. 3303 to 3324. 3298.	4275	625 750 825 625	1100 1250 1400 1050	600 675 750 575	650 725 825 600	700 800 925 675
F-1 F-3, 4, 5 AC-4, 5 AC-6 to 12	3611 to 3652 3653 to 3770 4104 to 4122 3801 to 3811, 4126 to 4294	4450 5975 8000	850 975 1600 1700	1450 1725 2650 2775	775 875 1450 1550	875 1125 1600 1700	975 1125 1750 1850
Mt-1, 3, 4 5 GS-1, 2	4300 to 4376	4175 4500	750 775 800	1300 1375 1450	675 700 725	775 800 825	875 900 925
GS-3, 4, 5, 6 GS-7, 8 SP-1, 2, 3	4416 to 4409 4475 to 4487 5000 to 5047		1175	1975	1050	1150	1250

(i)Rating Los Angeles to San Fernando 2250.

Ratings shown for nominal class DP-3 through 11 are applicable to 3-unit engines.

Right and a shown for nominal class DP-3 through 11 are applicable to 3-unit engines.

Redivide published rating by 3 and multiply by number of units comprising the engine.

Ratings shown for nominal class DF-1 through 12 are applicable to 4-unit engines.

divide published rating by 4 and multiply by number of units comprising the engine.

To determine rating of engine with less than 4 units, divide published rating by 4 and multiply by number of units comprising the engine.

UNLESS AUTHORIZED BY SUPERINTENDENT, ENGINES WILL NOT BE PERMITTED TO OPERATE IN TERRITORIES WHERE NO RATING IS SHOWN IN ENGINE RATING TABLE.

# SPECIAL INSTRUCTIONS—MOJAVE SUBDIVISION

25

# RATING OF ENGINES—In Units of 2000 Lbs. (Tons)

NOMINAL CLASS	ENGINE NUMBERS	Mojave to Searles	Searles to Owenyo	Owenyo to Searles	Searles to Mojave
DF-1 to 12	6138 to 6461	3800	3800	6400	6400
DF-100 DF-101 to 108, 110, 112	5200 to 5202	1500	1500	2525	2525
DF-109, 111 DF-114, 116, 117, 118	5250 to 5252, 5503 to 5505	1600	1600	2600	2600
DF-114, 110, 117, 116 DF-115, 119	5294 to 5307, 5336 to 5339	1825	1825	3050	3050
DF-120	5340 to 5371				
DF-200 to 204 DF-300 to 304	5100 to 5118	800	800	1300	1300
DF-500, 501	4800 to 4815				
DS-1 to 8	1000 to 1032	375	375	660	660
DS-100 to 109, 111, 115	1300 to 1441, 1464 to 1485, 1514 to 1528	585	585	1025	1025
DS-110, 114, 118	1442 to 1463, 1492 to 1513, 1539 to 1550	750	750	1300	1300
DS-113, 117 DS-200, 201	1486 to 1491, 1529 to 1538				
		485	485	850	850
M-4 M-6, 8	1629 to 1713 1721 to 1801, 1824, 1825	575	575	1000	1000
M-9	1805 to 1817, 1830	625	625	1075	1075
M-11	1833 to 1835	650	650	1125	$\begin{array}{c} 1125 \\ 725 \end{array}$
T-1	2248, 2252	415 600	$\frac{415}{600}$	$\begin{array}{c c} 725 \\ 1050 \end{array}$	1050
T-23	2302, 2303, 2310	675	675	1175	1175
T-28, 31 T-32	2312 to 2302	675	675	1200	1200
P-1, 3	2411, 2431				
P-4	2410, 2414				
P-5 (T&NO)	600 to 606				
P-6 P-7	2476 2477				
P-8, 10	2461 to 2473, 2478 to 2483	•			,
P-8, 10	2475, 2484 to 2491				
C-8, 9, 10	2513 to 2598, 2700 to 2860	850	850	1450	1450
C-18	3400, 3406 3420, 3423, 3426				
C-19 TW-8	2914	625	625	1100	1100
Mk-2, 4	3203 to 3236	950	1950	11850	1850
Mk-5, 6	3247 to 3275	1050			$\frac{2075}{1825}$
Mk-7, 8, 9 Mk-11	3303 to 3324	1175 775	2785	21350	1350
F-1	3611 to 3652				
F-3, 4, 5	3653 to 3770	1050			3750
AC-4, 5 AC-6 to 12	4104 to 4122	$\frac{1850}{1950}$			4000

UNLESS AUTHORIZED BY SUPERINTENDENT, ENGINES WILL NOT BE PERMITTED TO OPERATE IN TERRITORIES WHERE NO RATING IS SHOWN IN ENGINE RATING TABLE.

①Applies to engs. 3203, 3224, 3227, 3236 only. ②This engine must not operate east of MP 450.

Ratings shown for nominal class DP-3 through 11 are applicable to 3-unit engines.

divide published rating by 3 and multiply by number of units comprising the engine.

Ratings shown for nominal class DF-1 through 12 are applicable to 4-unit engines.

divide published rating by 4 and multiply by number of units comprising the engine.

To determine rating of engine with less than 4 units,