## SPECIAL INSTRUCTIONS-ALL SUBDIVISIONS

Note.-Referring to note on page 19 of Consolidated Code of
Operating Rules: The term "conductor" as used in Operating Rules, special instructions and supe
notices also applies to engine herders.
Railroad Watches
ignated, are not subject to 0 operating Rule 2 but they may be deson duty, have a reliable railroad grade watch* which must not


Assistant Superintendents of of
Terminal Superintendents
Trminmasters
Assistant Terminal Supts.
Road Foremen of Engines

- Station Agents

Operators
Outside Hostler Helpers
( $\uparrow$ Except when assigned in offices where standard clock is located.) 2 (S). Train dispatchers need not use watch requived by Rule of fice where there is a standard clock Train Dispatchers, Station
Alyenta a nod Operators assigned in offices where there is $a$ stand Agents and Operators assigned in of fices where the
arll clock must not wear wrist watch while on duty.
2 (T). At stations where there is no standard clock, operators
must compare time with the train dispatcher as soon as practicable must compare time with the traind dispatcher as soon as paracticable
after commencing each day's work, but before making time comafter commencing each day's
parisons with other employes
7 (R). Employes on trains and engines which operate in territory where they are governed by the rules of another railroad
must provide themselves with necessary signal equipment to fully comply with such rules
7. (S). When starting trains with diesel helper on rear end of
train, trainmen will be stationed in a position to relay signals to
stand start from head end to crew on helper enginc.
When it is not possible to relay signals, the follow will be used:
When ready to move, engineer on head end will make a 15 -pound
automatic brake pipe reduction, rcturn brake valve to rundin automatic brake pipe reduction, retuln brake valve to running
position and wait three minutes. Engineer on helper engine will
posit start three min
being restored.
8 (R). Yellow flags by day and yellow lights by night will be used by switchtenders and herders.
Proceed signals as well as stop signals given by switchtenders
must be answered. 8 (S). Electric lanterns may bo used by switchtenders, herders and operators for displaying yellow lights.

$$
\begin{aligned}
& \text { Reduce and Resume Speed Signs } \\
& 10 \text { (R). Reduced Speed sign shoving by figures } \\
& \text { speed permitted, placed on engineer's side of track, }
\end{aligned}
$$

seed permittud, placed on engineer's side of track, indicates that
the track 250 , the track 2500 feet distant is in cond sition of for a speck, indicates not that
than indicated by the sign. Example: $60-40-25$ will indicate maxi-
the than indicated by the sign. Example: $60-40-25$ will indicate maxi-
mum speed of 60 MPHT for streammine trains, 40 MPI for other
passenger
 Resume Speed sign placed on enginecr's side of track, indicates
that the Reduce Speed location has been passed.
The entire train must pass over the designated location at the The entire train must pass over the designated location at the
specified speed. specified speed.
Such speed .estrictions will also be shown in time-table or
superintendent's bulletin. superintendent's bulletin.
Engine Whistle Signals
14 ( R ). In addition to Iocations 1 isted bin Operating Rule 14 (1),
engine whistle must be sounded and bell rung approaching private crossings when view of crossing is obscured or when it can be seen
that persons or vehicles are approaching or in the vicinity of the that pers.
crossing.

Markers and Rear End Lights
Markers and Rear End Lights
19 (R). On portions of the division where there is no joint opera-
tion of trains with another company, in complying with Operating

Rule 19 (A) at night when a red light is not available, a marker
lamp must be securely fastened to rear end of rear car so as display red light to rear
19 (S). Except between Portland and Seattle, when rear car
of a passenger train is equipped with an oscillating red rear ent

 and 19 (B). When such train is clear of main track at night and
race end protection is not required. the red rear end light must
be extinguished and the auxiliary merler must display green light be extinguished and the auxiliary marlier must display green light
to renr. Rear trinman is responile for proper display of the
auxiliary marler an well as the rear end light.
$19(T)$. Reflectorized emergen cy markers on electrically lighted
19 (T). Reflectorized emergency markers on electrically lighted
cabooses will be used only in case of failure of electric power or
failure of electric markers at night
 reflectorized markers must be displayed showing red to rear and
green to foront when train is on main track. When train is clear of green to front when train is on main track. When train is clear of
main tracke excpt in CCT Cerritory, reflectorized markers mus
be removed and concealed ere
Conditional Stops
28 (R). A white signal will be used to stop designated trains at
conditional stops shown in time-table.
Flag Protection
99 (R). In moving from siding or other track to a main track,
xccept in yard limits or in CTC territory, a trainman must bit except in yard imits or in Cre territory, a trainman must
at rear of train, and where contitions. reguire, protection mus
be provided as prescribed by Rule 99 .
103 (R). At public crossings protected
103 (R). At public crossings protected by automatic crossing
signals, bells or gates. when a train, engine, or switchinr move ment has been deayed or stopped within 1500 feet of such cross
ing, any further movement, either forward or reverse, toward th ing, any further movement, ether forward or reverse, toward he
crossing must be made at restricted speed until is is determined
that the crossing signals are operating for sufficient time to stop
hithey traffic so hat the crossing signals are operating for sufficient time to stop
highway traffic. In case the crossing signals are not operating for
the movement, crossing must be protected by a member of the the movement, crossing must be protected by a member of th
crew unless a crossing watchman in on duty.
When a train, engine or switching movement is to be mad Wgainst the normal current of traffic over a public crossing pro tected by antomatic crossing signals, bells or gates, a member of
the crew must protect the crossing, unless a crossing watchman is on duty.

Riding Leading End of Engines
103 (S). Unless othing Leadise provided in switching, when there
re no cars ahead of the engine, a trainman (and not more the ne) must ride on leading platform or side steps of engine in EXCE PTION: Trainman need not ride on front of diesel switch When the switches to be passed over can be plainly seen to be properly $i$ ined;
Where the m
Where the movement is over a public erossing protected by
a crossing watchman.
$104(R)$. Except where otherwise specified, No. 14 turnout
are installed at alt dual control switches in CTC territonyt are $i$
10
10
101 (S). For movement through a spring switch whire engine
does not precede the cars, switch must be operated by hand. Train Order Signals
200 (R). Unless otherwise Order Signals
indicates "when train order signal Indicates "Stop" (Rule 200A), trains must stop for orders unles
clearance is received. 200 (S). Lights will not be kept hnnning at night in train order
signals on branches when operators are not on duty a and trains
must be governed by the day indication of such signals. (I2) Train Orders
208 (II). Except at initial stations, when a train's superiority
is restricted for an opposing train at the point where the order is is restricted for an opposing train at the point where the order is
issned to it the order must not be made complete to the train
which is being advanced until the operator has placed two tor
pedoes on the rail not less than 1000 fect from the train order
signal in the direction of the restricted train, and the train dis-
dat patcher dition, the restricted train must be brought to a stop by operator,
using red flag or red fusee, before the train dispatcher OK's the
cleanance using red
clearance.
$209(R)$.
$\underset{\text { orders. }}{209}(\mathrm{R})$. Operators must not typewrite Union Pacific train
On the Union Ganeral Description of Signals
On the Union Pacific, the home arm of semaphore signal is
rell with a square end: the home blocls signal arm has a white ret with a spuare endi the home oock signal arm has a whouch
stripe, the heme interiocking arnh has on stripe The approach
arm of a semaphore signal is yellow with forked end and for arm of a semaphore signal is yellow with forked end and for
both block and interlocling has a black stripe. All color light
signals are home signals. Stop signals in CTC territory are marked by a plate bearing
the letter "A." the letter "A."
Unless otherw Unless otherwise indicated, where two or more home signals are
located on the snnue muct, the upper signal will govern main route nnnt the
routes.

## Use of Sand

247 (R). In moving over CTC, dual control, remote or spring
switches, to avoid deposiling heavy accumulation of sand on rail, anlomuticic sanding device must be nullif ied passing fouling point.
When tonage and gradient renuires use of sand to uvoid slip-
ping hrind sanders nuay be used When tonnage and gradient renu
ping, hand sanders maty be used.

Centralized Traffic Control System
267 ( $R$ ). Where movement is entirely in CTC territory, trains
need not receive Clearance Form A. At train or engine must not enter CTC territory unless author-
ized by Cleerrinuce Forms B or Form C except for yard movements.


 269 (R). In CTC territory, when flagging from a Stop signal in of communication except on signal indication or further authority from control operator.
275 (R). After passing a signal governing movement over a
rlual control switch, if train or engine stops before entive movethat control switch, if train or engine stops bef ore entire move
ment has passed next opposing signal and it is necessary to malke a reverse movement, a member of the crew must so advise dis-
patcher. Dispatcher must block switch and signal levers and must not
change position of the switch, clear a signal for a confliction change position of the switch, clear a sinnal for a conflicting
movement, or remove marker blocks unti he has been alvised movement, or remove marker blocks until he has ine
worbally by a member o the crcw that his train has backed clear
of the insulated joints at the signal. After having made reverse movement under these circum-
stances, no forward movenent may be made except on signal
indication or rus rrovided by Rule ays stances, no forward movement may
indication or tss movided by Rule 275
275 (S). When necessary to perform switching over dual control
witch as provided in Operating Rule 275 (A), first move, when switch as provided in perating Rule
possihle, must be made on signal indication.
275 (T). When communication fails and it is necessary to hand operate remote control or dual control switches, protection must
be afforded in both directions when required, and switch must not be operated until three minutes after sclector lever has been
be on
placed in be operated until three
placed in IIAND position.
automatic cab signal system rules
Note.-Automatic Cab Signal System Rules will be used only
in ACS territory specified in the time-table or in special instruc-
tions.

Note-In the following illustrations: $\mathrm{R}-$ Red.
$\mathrm{G}-\mathrm{Yellow}$
$\mathrm{G}-\mathrm{Green}$
151. Name-Restricting


Indication-Proceed at restricted speed.
152. Name-Advance Approach.


Indication-Procced prepared to pass next signal at not ex 153. Name-Clear.


Indication-Proceed.
451. Rules block. signalsmatic in Caberning Signal System supplements automatic sede the superiority of trains, nor dispense, with the observance rules whenever and wherever they may be required, except as prescribed by Rule 456 .
455. When cab signal indication changes to a more restric-
ive indication, engineer must acknowledge with acknowledging
456. When a train is proceeding after having been stopped by tion, train may proceed in accordance with indication received
after it has moved its length beyond point where cab signal
chen Exception: Rule 456 does not apply when proceeding after
chaving been stopped by a flashing red light on a block signal. 456 (R). Automatic Cab Signal Rule 456 does not apply when a
train is proceeding after having been stopped by ablock signal
governing movement through a block in which slide warning de-
 457. When cab signal indication does not correspond with block
signal indication, engineer must be governed by the most restrictive indication displayed by either signal, and must report
the fact to train dispatcher from first available point of communication, giving signal number and engine number.
When cab signal indication does not correspond with block
signal indication for two consecutive blocks, cab signal may be signal indication for two consecutive blocks, cab signal may be
considered inoperative. .f previous advice has been reeevived from
train dispatcher or bv bulletin of inoperative cab signal within train dispatcher or bv bulletin of inoperative cab signal within
designated limits train must proceed within those limitits in ac-
cordance with second and third paragraphs of Rule 458 . 158. When a cab signal device bagran 458. When a cab signal device becomes inoperative, train may
proceed in accordance with block signal indications but not ex-
ceeding 40 miles per hour to the next available point of communi ceeding 40 miles per hour to the next available point of ocmmuni.
cation where report must be made to train dispatcher. who will
instruct as to cutting out cab signal devices and further movement of train
When cab signal devices have been cut out, train may proceed
in acordance with block signal indications but not exceeding 79
miles per hour and as much slower as rules or in accordance with block signal indications but not exceeding 79
miles per hour and as much slower as rules or conditions require.
While so proceeding if train encounters a block sign display While so proceeding, if train encounters a block signal display-
ing Stop or Stop-and-Proceed indication, or light not burning on inn Ston or Stop-and-Proceed indication, or light not burning on
a block signal, train must stop. After stoppingt train must wait
for change of signal indication and if the signa does not change
to alosg for change of signal indication and if the signal does not change
to a less restrictive indication within three minutes. it may boas-
sumed that the block signal is inoperative and the train may pro ceed complying with the block signal indication 459. When necessary to use a non-equipped engine on a pas-
senger train, movement must be same as with engine with in operative cab signal in accordance with second and third para-
graphs of Rule 458. 460. When equipped engines are double-headed, all but leading
engine must have cab signal devices cut out. 461. When engineer takes charge of an equipped engine in cab
signal territory or enters cab signal territory, he must know that signal territory or enters cut in.
cab signal devies are cer
Operative tests must be made by engineer before entering cab Operative tests
signal territory.
462. Cab signal devices must not be cut out while in cab signal territory without authority.
On an equipped engine with three-position acknowledging de-
vice, use of cut-out position is prohibited when operating within vice, use or cut-out position is pronibited when operating within
cab signal territory, except when authorized.
When seals on cab simal devices are broken, or found hroken
or or missing, report must be made promptly.
463. Cab signals will not indicate conditions ahead when the 463. Cab signals will not indicate conditio
engine is:
(a) Moving against the current of traffic.
(b) Pushing cars
(c) Not equipped for backward running and is running backward.
464. If the cab warning whistle sounds longer than 6 seconds,
the fireman, or a trainman in the cab, must go to the engineer imthe fireman, or a trainman in the cab, must go to the engineer im-
mediately and ascertain cause, and when conditions require, must
take immediate action to stop train. 465. If cab signal whistle fails to sound when cab signal
changes to a more restrictive indication, Rule 458 must be complied with.
when a train is stopped by a Stop indication, flagman must be sent
aheead unless track alhead is seen to be clear throgugh the exext clear

sigh signal. Train or engine must wait ten minutes after a flagman has
started and may then proced at restricted speed following flagstarted and may then proceed.
man to the next Clear signal.
Flagman may be picked up if a point is reached from which
trick alead can be seen to be clenv through to the next Clear
signal. 509 (S). Where lower quadrant semaphore type signals are in
service, a train or engine proceeding under the provisions of service, a train or engine proceeding under the provisions of
Operating Rule $S$ S-50 must proceed at restricted speed to the
next Clear signal. next Clear signal.
509 (T). When 509 (T). When a slide warning device plug is found pulled or
controller operated but no obstruction on or damage to track is found, the plug must be replaced, if practicable, or controller reset by depressing "Re-set", button, and conducter must make re-
port to train dispatcher from first stop or first open telcgraph
office. port
office.
sio
510 (R). If a block signal fails to display its most restrictive
indication when a block is occupied or when a switch connected
with automatic block signal sust with a aitomatic block signal system is changed from its normal
position, it must be regarded as displaying a Stop indication. A
member of the crew must be left at signal and he must stop all tranins moving in the direction governed by that signal and inform
them of false-clear indication. Flagman must remin there until them of false-clear indication. Flagman must remain there unt
relieved by an enploye of Signal Department or by instructions
from proper of ficer. rom proper of ficer.
A train or engine with no bralkeman must place a red flag in
center of track opposite the signal; then in both divections place
two torped eenter of track opposite the signal; then in both directions place
two toppedoes one-halt mile from red signal and two torpedoes
one and one-half miles from red signal. In all casss, train dispatcher must be notified from first avail able point of communication.
$512(\mathrm{R})$. Trainmen must observe indication displayed by track
occupancy indicators before changing derail or main track switch. occupancy indicators before changing derail or main track switch.
A switch must not be opened ot permit a movement to a main
track when Occupied indication is displayed, unless the movement is properly protected
Indication display Ity for a train or engine movement.
 less trackl is seen to be clear. to next signal and that signal is
displaying Clear indication. 611 (R). At interlocking. stations where there is also a train
order simnal, train order signal must indicate Stop until after interlocking signal has been changed to permit a train to proceed.
663 (R). In complying with last paragraph of Rule 66, , move-
ment must be 663 (R). In complying with last paragraph
ment must be made as prescrived by Rule 509
as prescribed by Rule 260 ob on double track.
702 (R). Employes Must not sleep while on duty
Passengers on Freight Trains
$711(\mathrm{R})$. The following passengers only may be carried on
freight trains between stations at which the trains stop:
Persons in charge of live stock or other freight when pro-
vided with proper transportation;

Employes of Union Pacific Railroad with annual pass when
traveling on company business requiring use of freight
trains;
Other persons with annual or trip pass only when endorsed
Other persons with annual or trip pass only when endorsed
"Good on Freight Trains";
Passengers holding revenue tickets with permit issued by
superintendent. superintendent. sengers and caretakers that they must ride in the place provided
for them, and must not get on or off caboose, drover cars or other sengers and caretasers hat on or off caboose, drover cars or or ther
for them, and must not get onile tran in in motion and that in all cases the train will
cars
be stopped at designated points for this purpose.

Exchanging Signals and Inspection of Trains
713 ( R ). Where Operating Rule 713 or Special Instructions re
guires a trainman to be stationed on rear of train in position quires a trainman to be stationed on rear of train in position to
give or receive signals, on freight trains he must be on rear plat-
form of caboose; on passenger trains, including streamline trains,
he must be on rear platform or in rear door, or if rear car is a Susiness, dining or observation car, he must be on front platform
of rear car or rear platform of car next ahead, and top half of vestivule door must be open.
73 . S . When stop is made by a passenger train due to some
condition affecting the equipment of that train, $\mathbf{a}$ thorough incondition affecting the equipment of that train, a thorough in-
spection of the train must be made before proceeding. 713 (T). Leaving designated inspection points, a trainman must
be at head end of train and make careful inspection of train as it pulls by, piving particular attention to brake equipment.
In addition to a thoo ourh inspection of freight trains at
all designated inspection points, such walking and roll-by inspection as
time will permit must be made at all stops. Walking inspection
will continue until entire train is inspected or until movement
${ }_{713}$ (U). in complying with the third paragraph of Operatin Rule 1.3. (C) when starting from initial station and intermediate
stops. freiyt trains must not exceell a specd of G MPH for the
first train length or until proceed signal is received from trainstops, freight trains must not exceed a specd of $\sigma$ MPH for the
first train length or until proceed signal is received from train-
man. 713 (V). On freight car wheels, flat spots two and one-half
Inches or lonyer, or if there are two or more adjoining spots
in each two inclies or longer, on passenger car more one inch or longer
lind on turtine or liesel locomotives two inches or longer and on turline or diesel locomotives two inches or longer, are
condlemnatle and when discovered in train, conductor or engineer
mist immediatcly report to train dispatchcr and be governed by
lis instruetiims. 713 ( W ). As soon as hot box is detected, train must be stopped
and no utlimpt made to run to next siding to set out car without Muring the inspection bef fre proceeding.
When ch calis set out acourt hot box, all fire in box must be
extinguished. Dirt, gravel or snow must be pluced on top of box extinguished. Dirt, gravel or snow must be pluced on top of box
ut buck end over opo of dust guard retainer opening. If ry ch chen-
ical fire extinguisher available, contents of one bag should be
 after which all packing must be removed from waste packced box
and any remaining fire therein extinguished. Pad lubricator must
be removed when practicable. Journal box lid must be left closed. be removed when practicable. Journal box lid must be left closed
Condluctor Must male thorough inspection of car body before and
after altention is given to hot box to insure there is no further Conductor must
after altention
danger of fire.

High and Wide Cars
714 (X). Trains handling cars or loads of cxess height or in
excess of i2 feet in width must keep close lookout for close clearances and where overhcad or side clearance is doubtful, move-
ment must be stopped and adequate protection provided. ment must be stopped and adequate protection provided.
Cars of excess height, as per stencil or placard, must not he
switched with except in placing them in and taking them out of Cars of excess height, alacer then in and taking them out of
switched with except in placing them in ars must not be cut off
trains In switching movement such cars
while in mioh but must be shoved to a stop. No one will be pertrains. In switching movements such cars must not be cut off
while in motion, but must be shoved to a stop. No one will be per-
mitted to ride on top of such cars. mitted to ride on top of such cars.
Loads of excess width must not be stored on nor moved over
yard tracks where clearance is is insufficient, unless there is in inyard tracks where clearance is insufficient, unless there of excess
tervening track between trains or cars containing loads one
widh. No one will be permitted to tide on the side of such cars. width. No one will be permitted to ride on the side of such cars.
Unless otherwise instructed, cars of excess width or height must be handled in head ind of of train. ca
Trains handing wide loads
Trains handing wide loads must obtain moeting or passing
order with other trains handling wide loads at stations where they will have a track between them.
When a train which is handli
order of a a roinher which is handling a wide load is notified by train
ording a wide load, the train dispatcher must be notified so that meeting or passing point can be arranged.
Crews of trains reeeiving notice of wide load in other trains Crews of trains receiving notice of wide load in other trains
must inspect their train for open or swinging doors or anything
projecting beyond normal clearance.

Open Flame Switch Heaters
726 (S). Cars loade with explosives or flammable commodities
must not be permitted to to stand over open flame switch heater. If must not be permitted to stand over open flame switch heater. If
stop is made with such cars standing over open flame heater, flame
must be extinguished.
LIandling of Explosives or Other Dangerous Articles
727 (R). Trainmen, enginemen, yardmen, agents and other employees who in any way handle or care for explosives and other
dangerous articles must familiarize themselves with the regula-
tions and instructions governing the handling of them. BE 689 (b) A car Placards on Cars "Dangerous," "A car requiring car certificates and "Explosives,", or "Caution-Residual Phosphorous" placards under the provi-
sions of this part shall not be transported unless such freight car
is at all tis is at all times placarded and certificicated as required. Placards
and car certificates lost in transit shall ter eplaceed at next inspec-
tion point and those not required shall be removed. and car certificates lost in transit shall be replaced at next inspec-
tion point and those not required shall be removed.
BE 589 (b). (1) At points where trains are ins. BE 689 (b). (1) At points where trains are inspected, cars pla-
carded "Explosives" and adjacent cars shall be inspected; such carded "Explosives" and adjacent cars shall be inspected; such
cars shall continue in movement only when inspection shows them
to be in condition for safe transportation. to be in condition for safe transportation.

## Switching Cors Contoining Explosives or Pois

BEV 589 (c). A car placarded "Explosives" or placarded "Poison
Grus" or any flat cars carrying a placarded trailer shall not be cut of while in motion. No car moving under its own monentur
shall be allowed to strike any car placarded "Explosives" or placurted "Poison Gas" or any far par car carrying a p placarded
trailer nor shall any such car be coupled into with more force thaller nor shall any such car be coupled into with more force
than is neecessary to complete the coupling. BE 589 (c). (1) When transporting a car placarded "Explo-
sive" in terminals, yards, side track, or sidings, such cars shall
be separated from the engine by at least one non-placarded car. sives" in terminals, yards, side tracks, or sidings, such cars shal
be separated from the engine by at least one non-placarded car. BE 589 (c). (2) Closed cars placar
doors closed before they are moved.

BE 589 (d) In switchin oretion
BE 689 (d). In switching operations where use of hand brakes is
necessary, a placarded loaded tank car, or a draft which includes a
placarded loaded tank car shall not be cut off until the preced car or cars clear the ladder track and the draft containing the placar or cars clear the ladder track and the draft containing the pla-
carded loaded tank car, or a placarded loaded tank car shall in
turn clear the ladder before another car is allowed to follow. BE 589 (d). (1) In suritching operations where hand brakes are
turd
used it shall be determined by trial that a car rlacarded "Dangeruns" or that a car occupied by a rider in a draft containing a car
placarded "D placarded "Dangerous" has
condition before it is cut off.

Placement of Freight Cars Contoining Explosives
In Yards, on Sidings, or Sidetracks
In Yards, on sidings, or sidetracks
BE 689 (e). Cars placarded "Explosives" shall be so placed that
they will be safe from all probable danger of fire. Freight cars placarded "Explosives" shall not be placed under bridges or over-
head highway crossings nor in or along side of passenger sheds or
stations except for loading or unloading purposes.

Notice to Crews of Cors Con
BE 589 (f). At all treight frains or mixed froins other places where trains are
made up by crews other than road crews accompanying the outmound movement of cars, the railroad shall execute a consecutively numbered notice showing the location in the freieght train
or mixed train of every car placarded "Explosives." A copy of such or mixed train of every car placardca cepposives. cew and a copy
notice shall be delivered to the train and enkine crew
thereof showing delivery to the train and engine crew shall be kept hereot showing delivery to the train and enginc crew shall be e ept
on file by the railroad at each point where such notice is given. At on file by the railroad at each point whire such notice is given
points other than torminall where train or engine crews
changed, the notice shall be transferred from crew to crew.

Position in froight Troin or Mixed Troin of cars Contioining Explosives
BE 589 ( (g). In a freight train or a mixed train either standing or during transportation thereof, a car placarded "Explosives"
hall, when length of train permits, be placed not nearer than the sixth car from both the engine or occupied caboose, except:
(1) When the length of freight train or mixed train will not
permit it to be so placed, it shall be placed near the middle of the train.
(2). When transported in a freight train made up in "blocks" or
classifications, a car placarded "Explosives" shall be placed near the middle of the "block" or classification in which moving, but
not nearer than the sixth car from both the engine or occupied
caboose
 than the second car from both the engine or occu
cept as provided in paragraph (1) of this section.

BE 589 (h). In a freight train or mixed train either standing or during transportation not be handled next to:
Occupied passenger car, except as provided in paragraph Occupied combination car, except as provided in paragrap
. (l) of this section. "Dangerous" or "Dangerous-Radioactive Materials.
Engine.
. Any car placarded "Poison Gas,"
6. Wooden underf rame car (except on narrow gauge railroads),
7. Loaded flat car, except that cars carrying trailers or containers ylacarded "Explosives" as authorized by the regulations in
this clanter nay be coupled to each other. (Note: Flat cars
equipped with permanent equipped with permanently attached ends of ripid construc-
tion shall be considered as open-top cars. See suh-paragraph (8) of this paragraph.)
Open-top car when any
open-top car when any of the lading protrudes beyond the car
ends or when any of the lacling extending above the car ends is liable to shift so as to protrude beyond the car ends.
Car equipped with automatic refriceration or any other apCar equipped with automatic refrigeration or any other ap-
paratus utilizing an open flame light or an internal combus
tion engine in its operation. Car containing lighted heaters, stoves, or lanterns.
Car loaded with live animals or fowl, occupied by an
12. Occupied caboose except as provided in paragraph (l) of this
section.

Position in Train of Loaded Placarded Tank Car BE 589 (i). In a freight train or mixed train, except a train con-
sisting entirely of placarded loaded tank cars and as provided in paragraph ( j ) of this section, a placarded loaded tank car shall
when the length of the train permits, be not nearer than the sixth when trom the engine, occupied caboose or passenger car.
car 589 (i). (1) When the
BE 589 (i). (1) When the length of the freight train or mixed
train will not permit tit to be so placed, it shall be not nearer than
the second car from the encine occupied caboose or passenger car
 not nearer than the second car from both engine or occupied caboose.

## Separating Loaded Tank Cars Placarded "Dangerous" from Other Cars in Train

BE 589 ( j ). In a freight train or mixed train either standing or
during transportation thereof, a placarded loaded tank car must ot be handled next to:

1. Occupied passenger car, other than gas handlers accompany
ing shipment.
2. Occupied combination car, other than gas handlers accompa-
3. Any car placarded "Explosives."

Lank cars).
5. Any car liacarded "Poison Gas."
Wooden underftr
6. Wooden underframe car (except on narrow gauge railroads).
7. Loadded flat car. (Note: Flat cars enuipped with permanently Loaded flat car. (Note: Fiat cars equipped with permanently
attached ends of rigid construction shall be considered a npen-top cars. See sub-paragraph (8) of this paragraph.)
Open-top car when any of the lading protrudes beyond the Open-top car when any of the lading protrudes beyond the
art end or when any of the lading extending above the car
ends is liable to solitit so as to protrude beyond the car ends. ends is liable to slift so so to to protride beyond the car ends.
9. Car equipled with automatic refrigeration or any other appa-
ratus utilizing an open flame light or an internal combustion
engine in its operation.
11. Car containing lighted heaters, stoves or lanterns.
Caraded with live animals or fowl, occupied by an at 12. Occupied

Occupied caboose (
carded loaded cars).

Posiltlon in Friolght Troin or Mixed Train of Cars Placarde
",Poison Gas" or containing Poison Liquids class A BE 589 (k). In a freight train or mixed train either standing or
during transportation thereof, a car placarded "Poison Gas" or containing poison liquids, Class A, shall not be next to other
freight cars placarded "Explosives" or cars placarded "Dangerfreip
ous.'

## Position

"Polson Gas" or Both, When Accompanied by Co
BE 589 (1). A car requiring "Explosives" or "Poison Gas" pla-
cards, or both, shall be next to and ahead of the car occupied by cards, or botif, shan be next co and ahead or the car occupied
the guards or gas handling crews acompanying such car; excent
that when the car occupied by guards or gas handling crews is that when the car occupied by guards or gas handling crews is
equipned with a lighted heater or stove it shall be the fourth car
behind a car or cars requiring "Explosives" placards.

Cors Containing Explosives or Poison Gas and Tank Cars
Plocarded "Dangerous" in Passenger or Mixed Trains
 ported in a passengel train. suak cars may be transported in mixed trains but only at such times between sucl points that
freight train service is not in operation. BE 589 (m). (1) Cars containing explosives, Class A, poison
gases or liquids, Class A, and tank cars placarded "Dangerous" gases or liquids, Class A, and tank cars placarded "Dangerous"
shall not be transported next to occupied cabooses or cars carrying passengers in mixed trains except as provided in paragraph (1) of this section.
BE $529(\mathrm{~m})$. (2) When a car containing explosives, Class B, or
dangerous articles other than explosives requiring labels (not indangerous articles other than explosives requiring labels ( not in-
cluding Class A poison gases orlinuilss is moved in amixed train
and such car is not occupied by an employe of the carrier, placards and such car is not occupied by an employe of the ca
must be applied to the car as required by this part.

BE 589 (n). In a freight train or a mixed train either standing or during transportation thereof, a car placarded "Dangerousg
Radiocactive Material" must not be handled next to cars placarded "Explosives" or next to carl not be ments of undeveloped film.

Empty tank cars must not be moved from stations unless dome
cover and all outlet caps have been replaced and wrenched tight, shipping tafs and cards removed from car and "Dangerous" ${ }^{\text {Dla- }}$
cards removed or replaced by "Dangerous-Empty" placards.

> Power Tramsmission Wires

734 (R). Power transmission wires carrying 2300 volt circuit
are located on top arms of signal pole lines and on top arms of
joint telegraph and signal pole lines. joint telegraph and signal pole lines.
741 (R). Helper engine on passenger train must be coupled
aherat of rorde engine. Passenger trins must not be mishled from
the rear except in ase se ahe rear except in case of emergency or orther unusuant circtm-
thtances auxl then for no greater distance than is necessary.
stan stances aud then for no greater distance than in necessary.
On freiglt trains when not used on lead end of train, helper
engine consisting of not more than three units must be cut in engine consisting of not more than three units must be cut in
alhead of caboose and when train incluples cars designated in
Special Special
of them. Helper engine consisting of more than three units must be cut
in alead of the tonnage for all units in excess of three units. in aliear of he tonnage for all units in excess of three units.
Wisen neeessary to use second helper engine, helper engine con-
sisting of the lurger number of units must be cut in alueud of the sisting of the lurger number
tonnul:ye of the rear helper.

## Handling Derricks

80.5 ( 2 ). When handling der rick 900.309 there must be at least
five cars between dervick and locomotive, or between derrick and uny car weighing more than 240,000 pounds groos.s.
806 (R). Cars designated below must be handled in rear of in and next to cabosese in the order named
Drover cars, occupied or unoccupied;
Wooden underframe cars;

Scale test cars;
Curs car wilh eme to be handled in head end of train; 806( (S). Except on Train No. 12at, flat cars train. feet or more
in length used in rail trailer service, loaded or eqmpty, must be
 rain, , ulper must be cut in alhead of succh flat cars. 806 (T). Snow plows handled in freight trains nust be placed
belind calioose and must luvee air brakes operative andl must be securely chained to caboose, except when equipped with d
bar at both ends, they may be handled aluead of caboose. 806 (U). Open top cars containing puanice, earth, chips, sand
slack coal or other com nodities that will blow off cars, should be of calloose, to avooid this matericl flying and obstructing, vilue od


mitting, ali.atal of open top cars contuining machinery.
80G (V) Where movement is entirely over the lines of the
Union Pacaific Railroud, out fit cars may be luundled in head end of train. must be exercised to insure that outf it cars which are
Ctare
stencilled or tanged for lhenclling only on rear of train, or which stencilled or tagged for hunilling only on rcar of train, or which
under other provisions of Special Instructions 806 (R) must be
lundle,l lat rear of train

> Cars Partly Loaded or Unloaded 810 (R). All persons are prohbited from ridli

Bn (R). All persons aritly Loaded or Unlibited from rided loaded. Part loads will not be switched unless properly broken
down or properly braced to prevent contents fallimg and being
down damaged. Before switching with or moving cars which are in the
process of loading or unloading, persons working in or about the
cars process of loading or unloading, persons working in or about the
cars must be notified and trainmen and yardmen must see that cars are not switched with until cars are vacated. When such cars
are moved, they nust be returned to their former location unless
otherwise directed.
810 (S). In terminall $\begin{gathered}\text { Moverds, roadd and Yard Tres Tracks }\end{gathered}$

 Before a trrin strerts out of yard track, brakeman will precede
the movernent to it point where it is lenown route is clectr. She movernent to a point wring Cars
813 (R). Each passenger unit with con
813 (R). Each passenger unit with control cab is provided with
two chuirin wheel llococks for emergency use
When necessary to set out a caror a 1 nnit from a When necessarty to set out a car or a a unit from a passenger train
between terninals, in addition to applying hand brales as rebetween terminals, in addition to applying hand brakes as re
mired by the rulles, wheels must be bloclied using these clain wheel blocls.
Track Scales
821 (R.) Engines must not be moved over live rails of track
scales and when moved over dead rails of track scales, a speed of 5 MPH must not be exceeded.
Sanders must not be used over track scales and engines or cars
must not stand on dead rail over scale deck or platiorm of track must not stand on dead rail over scale deck or platform of track
scales.
Cars to be weighed must be stopped on scales and uncoupled Cars to be weighed must be stopped on scales and uncoupled at
both ends while being weighed, except on scales equipped with
buto automatic weighing device,
Cars must not be violently stopped by impact, sudden applica-
tion of brakes or by blocking wheels. After cars are weighed, they tion of brakes or by blocking wheels. After cars are weiched, they
must not be moved over live rails if possible to avoid it. When
making impact with cars on scales, speed must not exceed 2 MPH making impact with cars on scales, speed must not exceed
and 4 MPH must not be exceeded over scales in any case.
Cars on live rail must not be moved by other cars or Cars on live rail must not be moved by other cars or engines
moving dead rial, or vice evers... Cars must not be moved. over
scale with one truck on live rail and other truck on dead rail.

Handling Cabooses
ack switclues. must be
822 (R). Caboose

Extreme care must be used in coupling to aboses and in switch-
ing with them and they must not be swithell with unnecesssrily.
Col Caboses must not be cout oft train whiilc in mutition and inswitcl.
ing operations must not be cut off while in mol ion and allowed to
 and allowed to strike a caboose.
Before coupling to caboose on
Bef ore coupling to caboose on caboose tracks, supply employes
on or about cabooses inust be warned.
823 ( R ). Trains handling drover car car
engine at the rear. If it becomes necessary, in mi emergency to
clear main track by use of an the clear main track by use of an engine at rear of of train, the drover
cars must first cars, except in handling to or from trains.

$$
\begin{aligned}
& \text { Coupling Passenger Cars } \\
& \text { oupling an engine or cars }
\end{aligned}
$$

824 ( $R$ ). When coupling an engine or cars to passenger equipis made.
After coupling to cars standing on grade, slank must be
stretched and it must be known that air brakes are fully charged Stretched anding mand brakes.
before releasinler to any coupler, it must be
After coupling a tight lock corple After coupling a tight lock conpler to any coupler, it must be
seen that knuckle is securely locked in closed position. When coupling other type coupler to tight lock coupler, knuckle
on tight lock coupler must be closed and knuckle on otler coupler
must be open, to be closed by impact of car. must be open, to be closed by impact of car.
After cars are coupled, tight lock couplers must be inspected to
. After cars are coupled, tight lock couplers must be inspected to
see that tell-tale hole is isishbe just below bottom of coupler head
and that knuckle is locked. ,
,
Engine Service
Operating Rul
chanical Department will be responsible for knpowind, the Hhe-
engine is set an
is engine is set out for service, that tit it in in good worliing 'order and
is andeguately furnishled with fuel, water, sand and other supplies,
inder
 excent for insplecting and testing air bralkes as reipnired hy Spe-
cial Instruction $1001(R)$.
Engine crews will leave roundloouse or designated track promptcial nsitruction 1001 (R).
922 (R). Referring to Operating Rule 922: Engineers must not
permit any unauthorized person to handle the locomotive. The fireman, when competent, may handle the locomotive when in
road freight and yard service under the supervision of the enroad freight and yard service under the supervision of the en
gineer the engineer being responsibe. .he fireman must not be
permitted to handle the locomotive when in road passenger servpermitted to handle the locomotive when in road passenger serv-
ice, except in emergency. ce, ex2 (S) Remergen
 or switcling movements or in making couplings.

Leaving Locomotives Unattended
922 ( T ). Locomotive must not he hert without a man in charge,
except at designated places and under authorized conditions. Locomotives must not be left standing so they will block or foul ad
jacent tracks. When locomotive coupled to cars is left unat tended, hand brakes
must be set on not less than ten cars, or on all cars in case locomotive is coupled to only ten cars or less.
When a diesel or turbine locomotive is left unattended, reverse
handle must be placed in neutral position and handle removed, in handle must be placed in neutral position and handle removed, in-
dependent brake set in full application position, enenerator field
switch pulled and hand brake set on eoch unit, and it must be
known that there is the required brake cylinder pressure.

928 (R). On locomotive equipeneders with speedometer, engineer
must verify accuracy of speedometer not less than twice during each trip, by using watch to make time check between mile posts.
First check will be made at first opportunity after departure First check will be made at first opportunity after departure
from point where engineer takes charge of locomotive. Care
should be exercised to make check while speed is constant beshould be exercised to make check while speed is constant bee
tween mile posts, and, when possible, speed should be 30 MPH

When check indicates speedometcr is not registering correctly,
wire report must be made to train dispateher. Inspecting Locomotives
$\begin{aligned} & 928 \text { (S). When standing at inspection points, and when stopped }\end{aligned}$
in yards and at points between terminals where time will permit, in yards and at points between terminals where time will permit,
engineers must get on ground and inspect hoth sides of their locomotive. This applies to both passenger and freight trains, and
to any type of locomotive.

Units in Multiple
operated in
$928(T)$ Diesel units operated in multiple intermixed with $F-\gamma$
$(1400), F-9(500)$, GP-Y or GP-9 units must be positioned with an (1400), $F-9$ (500), GP-7 or GP-9 units must be positioned with an
$F-9$ or $G P-9$, operating as control unit. Slort time ratings of control unit must not le exceeded.

Shutting Down Engines of Diesel Locomotives $929(R)$. When diesel switch locomotive is to be idle in excess
of 30 minutes, engine must be shut down. When diesel road locomotive is to be idle for one hour at initial or intermediate stations,
enkines must be shut down. Exxeption: In such cases, engines must not be shut down when
outside temperature is below 35 degrees. When diesel engines are shut down at terminals when a heavy
rain is falling, enginemen will call on mechanical forces for covers rain is falining, enginemen will call
to be placed over exhaust stacks.
999 (S). Wher engineso of diesel locomotive are shut down, or
turbine and its auxiliary engine are shut down, air brakes must turbine and its auxiliary engine are shut down, air brakes must
be fully applied and, in addition, front and rear of a traction wheel must be blocked, hand brake applied on cach unit, and suf-
ficient hand brakes must be applied throughout the train to preficient hand brakes must be applied thro
vent movement should air brakes leak off.
During freezing weather, when diesel engines are shut down,
cooling water must be drained to winter level and, if necessiry
to prevent damage to engine, must be drained completely. 929 (T). When a diesel or turbine locomotive is stopped in a tunnel under conditions preventing prompt movement, engines
must be promptly shut off.
Local conditions must be carefully considered, as there may be situations where the exhaust gases are being carried away from
the train by air currents, or where proximity to tunnel opening the train by air currents, or where proximity to tunnel opening
would make it unnecessary to shut off these engines. Safcty of
passengers and members of the crew must be the first considerapasse
tion.
Dicsel Locomotives
9.30 (R). Doors of high voltage cabincts must not be opened and adjustments must not be attempted nor made in high voltage
cabinets of diesel locomotive until ngine has first been isolated
and stoped ind uits hoves and stopped and units have come to a stop.
$930(S)$. When a loconotive consisting of two or more units is
to be moved in yarlds, around engineliouses, or between stations
witlo without cars, if zunit at each end is equipiped with control cab, looo-
motive murst be operated from leading unit in direction of move motive must be operated from leading unit in direction
ment unless the movement is protected ly is lrainman.
930 (T). When diesel units are operating with less than full
complement of motors or when it is necessary to cut out one or complement of motors or when it is necessary to cut out one or
more of the motors at any time enroute, train dispatcher must
be notified at first stop or first open telegraph office. 930 (U). When necessary to break seals on equipment and con-
rol lockers on dicsel road units, notation must be made on engineer's work report with explanation of necessity for breaking
seals. gineers.
seals.
930 (V). On diesel and turbine locomotives in road service, not more than five men must ride in control cah.
Unauthorized persons, including deadhead train and engine
men, must not occupy cab of trailing unit of diesel locomotive on men, must
any train.
930 (W). On diesel locomotives, side and end doors of engine
rooms must be kept closed while the locomotives are moving. 930 (X). Care must be excrised to avoid excessive use of emer-
ency electric heaters in cabs of diesel units so equipped. These clectric heaters are provided to temporarily keep cabs warm in
event of engine shutdown or failure, but their use will completely deplete the batteries in a matter of two hours or less, which would
result in failure of all units. Enginemen should bear this in mind and not use
batteries.

930 (Y). Under no circunstances shall a derailed locomot ive be
palled buck on the rails by its own power as serious damage to the
equipment equipment may resalt if this is attempted.
930 (Z). Applications of a device identified as Paxton-Mitchell
ngine Protector are being progressively made to Fairbanks Morse passenger units and EMD fressight and made to Fasengror units, in-
cluding all units of the GP- 9 type. The purnose of this device is cluding all units of the GP-9 9 type. The purpose of this device is to
automaticaly shut down the engie in the event of abnormal
crankcase pressure being, built up should some defective crankcase pressure being built up should some defective condition develop in pistons or liners. Should this occur, the alarm bell in
the cab will sound low oil ilhht will burn, and red light located on
the engine protecto will the engine protector will light up.
Whenever an engine stops and the cause is not definitely known enginemen must not attempt to start the engine without observng the pressure detector to know that the red light in not burning
if the red lipht on the pressure detector is burning the engig If the red lipht on the pressure detector is burning, the engine
solation switch must be placed in "Off") position without attemptna to start the engine and report made at terminal for meOn EMD locomotives, the detector is located at the front end
of the engine dircecty under layshaft hand throttle arm. On FM passenger units the detector is locat
engine opposite vertical drive shaft.

## ${ }_{n}^{934(R) \text {. Eighty-five-frat trailer flut car car }}$ <br> Curves in excecss of 16 docqraces exccept cars mollowst not be handled Where movement is authorized ly an of fice Where movenent is authorized ly an onf ficer, thesese cars may be handled on curves of more than 16 degrees but egr-ees at speed not exccecding \& melies per hour. hox meceing 20 rrew must watch movement closely, prepared to gove stop signal if any indication of failure to safely negotiate the curve. Particular ittention must be given to lateral novement of coupler, as critical point of movencent on curve develops when coupler ap-

 proachesopening.
Overinan Overhang at end of these curs is greater than on other cars and Overhang at end of these curs is greater than on other cars and
clearances must ble watched closely when handling on curves in 934 (S). Pile driver 900321 weighing 222,200 pounds, may be
handled on all branch lines except between Hooper Jct. and Con-
nell on Connell Branch. ncll on Connell Branch.
When handling pile driver 900321, or a car weighing 200,000
pounds gross over Bridge 17.23 at Riparia, there must be at least four cars between such car or pile driver and engine or between
such car or pile driver and any car weighing more than 160000 such car or p .
pounds gross. When handling derrick 900309 there must be at least five cars
between derrick and locomotive, or between derrick and any car
weivhin between derrick and locomotive, or betwe
weighing more than 240,000 pounds gross.
1001 (R). Engineer must inow Brakes beforo gine house or from spot tracks that adequate air pressurc is being maintained and that air brake equipment is functioning properly.
Apllication and release test of independent brake must be made and in addition to noting bralke cylinder pressure on gauge, visual
inspection must be made to know lluat brakes apply when independent brake valve is in application position. Hand bralkes must
le released on all units before engine is moved. be released on all units bef ore engine is moved.
When operating a lighte engine, running test bralce must he made imnelliately after movenent is started. When
 back-2lp lose immediately a ter back-up novement is sitarted.
Engines must be stopped before moving onto a turn-table and Lngines must be stopped bef ore moning onto a turn-tathle, and
before entering enginelouse or servicing facilities where elevated
tracles trackseo or pits are used.
At locutions where uni
At locations where units are cut into or out of a locomotive, it
must be lonow that air brake hoses are ecoupled, that air iv cut in
and that bralces are operating properly on all units before an and that trankes are operating properly on all units before any
moventent is made. At terminals where hostler relieves incoming engineer, bralkes
uist be tested with independent bralce valve immediately after must be tested with independent bralee valve immediately after
locomotive is detaclied fronu trucin to insure that bralces are oper-
atinu properly locomotive is
atima properl?
Movement
Movement of locomotives at enginelouses, serviei
nance facilities must not exceed 5 miles per hour.

1005 (R). Air Brake Rule 1005, standard brake pipe pressures,
is amended to read as follows:
Class of Service Freight, mixed trains and brancll line passenger trains...... 90
Main line passenger trains......................... 110 $1030(\mathrm{R})$. Where Sperry rail-detector car is working when
temperature is below freezing, trains, engines and track cars must be operated at a safe speed, using sand where necessary to
overcome slippery condition caused by calcium chloride solution
by rail car.

## SPECIAL INSTRUCTIONS-FIRST AND SECOND SUBDIVISIONS <br> AND SECOND SUBDIVISIONS

Use of Engine Whistle
14 (S). Within the city limits of Pendleton, it is unlawful to sounnt engine whistle except to signal flagman or to prevent ac-
sident not otherwise avoidalle.

(R). Switch lights will not be used on branches shown below: Joseph Branch;
Pilot Rock Branch
Trains and engines must approach facing point switches on
these branches prepared to stop if switch is not in normal posi-
Train Reristeriny Exceptions
83 (R). Conductors of the following trains muy register by Lafrande Nos. 105 and 106 ;
Hinkle - Nos. 105 and 10G.

Flag Protection
99. (S). Trains may he relieved from protecting against fol-
lowing extra trains by Train Order Form Z only on the following Joseph Brancb;
Pilot Rock Branch

> Unusual Conditions
$101(\mathrm{R})$. At Pilot Rock, trains and engines must move at re-
tricted speed, kecping a lookout for cars on or foul of main track stricted speed,
west of derail.

Riding Leading End of Engines
103 (T). Trainman necd

Puhlic Crossings

103 (U). At Baker, Ptreet crossings at Camphell and Auburn
Streets must not be blocked in excess of five minutes by frcight
${ }_{103}$ (V). At Barnhart, when movements to or from ballast pit are made over public crossing, a member of the crew must be sta-
tioned on each side of track at the crossing to stop highway traffic.

Switches
104 (R). No. 14 turn-outs are installed at nll dual control switches in CTC territory except siding
Duncan, and west siding switch at Gibbon.
104 (T). Switches will be set normally at:
La Grande: Joseph Branch switch-for drill track, $\begin{aligned} & \text { Switth to north side lead and roundhouse-for } \\ & \text { Swith tor }\end{aligned}$ Joseph, main track switch; east leg of wye-for wye;
Joseph, switch at stem of wye-for east leg of wye;
Enterprise, west switch of cross-over between main track
and house track-for house track;
Hinkle, junction switch, Umatilla Branch-for running
Hinkle, wye switches-for running track.
1039 (S). Air Brake Rule 1093 ( $F$ ) does not apply on 5 or
unit locomotive if dynnemict brake is operative on 4 leadiding units. $1066(R)$. As required by Air Bradee Rules 1064 , 1066, 1066 (C)
and 1066 (F), whicn necessary to cut out bralces on passenger crar
 Cutout cock in in brake pipe branch pipe to control valve must be
used only in the event of defect causing undesived energencu used ony in the event of defect cansing undesiried emergency ap
plicttion or any other defect in pipe or valve that is causing ex
cessive loss of brake pipe pressurc.

104 (U). Main track derails are Derails 1500 fect west of west switch $\left\{\begin{array}{c}\text { Derail will be set in derailing posi- } \\ \text { tion at all til times except when } \\ \text { movement being made over then }\end{array}\right.$ 104 (V). At La Grande, while switching movements are being,
nade on east end of drill lead, derail and main power switch will be hand operated.

Centralizecl Traffic Control System
267 (S). At Encina, Telocaset and Kamela, Clearance Form B
need not be received by light engine leaving those stations, but ovement must be governed by signal indication
267 (T). CTC Stop signals located as follows are desimnted
Huntington-M.P. 389.3 and 989.8
Baker -M.P. 341.7 and 342.4
a Grande -M.P. 289.7 and 290.2
When stopped by a "starting signal", members of crew must
communicate with dispatcher or operator and be governed by his instructions. Flagman need not be sent ahead unless instructed to do so by dispatcher or operator but movement must be made at
restricted speed and Operating Rule 269 must be complied with 268 (R). At Pendleton, trains from Pendleton Branch to exten-
sion of Track 6, must obtain permission from train dispatcher at La Grande before passing Signal 2165 .

Inspection of Trains
713 ( $X$ ). In addition to inspection required by other rules, all
passenger trains, including streamline trains, must be given close passenger trains, includinng streamine t train
running inspection on the following curves.

First Subdivision-
M.P. 363 and M.P. 364.5 -single curve; M.P. 302.4 and M.P. 303 -single curve

Second Subdivision-
M.P. 281.5 and M.P. 282 -single curve; M.P. 255.2 and M.P. 257.8 -single curve.
M.P. 197.8 to M.P. 198.6 -reverse curves; M.P.191.6 -single curve.

After rear trainman has completed inspection on the above
curves. if everything is all right, he must give hand signal to proceed; this signal must be acknowledged by two long sounds of
engine whistle. If anything unusual is detected, train must be stopped and
walking inspection of train must be made before proceeding.

##  

## 



Close Clearances

| 714 (IR). There tracks as follow (Sce Operating I | Cloge Clearances <br> e clearances above and <br> addition thereto, at plat he side of industry, stock <br> he side | he side: of mai orme and othe ad other tracke. |
| :---: | :---: | :---: |
| Location | Structure or obstruction | Clearance of englne or car is close at- |
| At all stations | Mail cranos | Side. |
| First Sublivilion |  |  |
| M.P. 388.40............. Bridge ..................... Side. |  |  |
| M.P. 3887.75 | ${ }_{\text {Brabe }}^{\substack{\text { Bridge } \\ \text { Bridze }}}$ | Sido. |
| M.P. $387.36 \ldots \ldots . . . . . . .$. Bridge ................... Side |  |  |
|  |  |  |
| MP. 385.19 | Bridge |  |
| M.P. 385.02 . . . $\ldots$........ ${ }^{\text {a }}$ Bridge |  |  |
| Lime | Over |  |
| M.P. 38442.............. Bridge ..................... Side. |  |  |
| M.P. 383.12. ............. Bridge..................... Side. |  |  |
| M.P. 381.90 | Overha | Top. |
| M.P. 3x1.66.............. Bridge ..................... Side. |  |  |
| M.P. 380.44. ............. ${ }^{\text {Bridge .................... Sido. }}$ |  |  |
|  |  |  |
| M.P. 379.62 .............. Bridgo ........................ Side. |  |  |
|  |  |  |
|  |  |  |
| M.P. 377.15.............. Bridge ....................... Side. |  |  |
| M.P. 376.84 | Bridgo | Sido. |
|  |  |  |
| M.P. 37562 | Bridg 0 |  |
| M.P. 374.80.............. Bridge ..................... Side. |  |  |
| M.P. 374.52 | Bridg | Sido. |
| M.P. 373.90 .............. Bridge ...................... Sido. | Bridge | Side |
| M. 37300 ............. Bridge ..................... Side. |  |  |
|  |  |  |
| ${ }^{\text {M.P }}$ | Brid | do |
| M.P. 366.74 ............ ${ }^{\text {b }}$ Bridge ................... S. Sido. | ${ }^{\text {Bridge }}$ Bride | Side. |
| North Powder ........... Two ovorhead bridges. ........ Top and Sido. |  |  |
| M.P. 312.07 | Overheid bridge. |  |
| Second Subdilvion |  |  |
|  |  |  |
| M. P. 252.52 |  |  |
|  |  |  |
|  |  |  |
| M.P. 230.57............. Bridge .................... Sido. |  |  |
|  |  |  |
|  |  |  |
| M.P. 205.84.............. Bridge..................... Side. |  |  |
|  |  |  |
|  | M.P. 198226 ............. Bridgo ................... Sido. | Sido. |
| losepll Branch |  |  |
| M.P 248............... Bridgo..................... Side. |  |  |
| Pilol Rock Branch M.P. 0.16 | Bridgo | Top and Sillo. |

714 (S). At La Grande, look out for close clearance on Tracks 4
and 5, which have less clearance than othertracks in yard.

813 (S): Between Chaining Cars to Rail out on sidings on Hrade where there are no derails, in addition to
setting hand brakes ard setting, hand brakes and blocking wheels, cars must be chained
to rail.

Track Restrictions
934(T). Engines heavier than indicated below must not oo on
tracls named:


Passenger type units Nos. 900 to 999, inclusive, must not be
operated on Pilot Rocl or Joseph Branches.
 the west thitch and to the first 450 feet from the east switch. Be
tween these points, track may be used for empty cars, but not
louded cars. loaded cars.

Air Brake Rules
1035 (R). Running test as prescribed in Air Brake Rules 1035,
1035 (A), 1035 (B) and 1035 (C) must be made before descending
grades as follows:
$\begin{array}{ll}\text { Encina } & \text {-westward and eastward; } \\ \text { Telocaset } & \text {-westward and eastward; }\end{array}$
Telocaset
-westward and eastward;
1043 (R). Inspection required by Air Brake Rule 1048 (D) (re-
vised March 1, 1958) must be made on all trains at La Grande. 1044 (R). Brake pipe test, as prescribed in Air Brake Rule 1044,
must be made on all freight trains before descending grade Enmust be made on all freight trains before descending grade En-
cina eastward and westward, Kamela eastward and westward,
except traind 12.126 when handling 30 cars or less. Train No. 126 , when length of train doses not exceecd 30 cars, will
make running air test as prescribed by Air Brake Rule 1035 before make running air test as prescribed by Air Brake Rule 1035 before
descending grades at Kamela and Encina. Conductors and train-
men must know that proper brake pipe pressure is maintained as men must know that proper brake pipe pressure is maintaine
indicated by the caboose gauge after air brake test is made.
1015 (R). Retaining valves must be used on trains handled with
diesel locomotives with dynamic brake not in operation or when diese equapmot wives with dynamic brake not in operation or when
not equiped wressure maintaining feature when discending
brades, as follows: grades, as follows:
Freight trains descending grades between Encina and Durkee
and between Hilgard and Huron must use one operative retaining and between Hilgard and Huron must use one operative retaining
valve for each fifty tons of train but in no case less than one-half
of all retaining valves in train. If engineer finds it difficult to of all retaining valves in train. If engineer finds it dirficult to
control train or to recharge train, he will request train crew to
turn un additional retaining valves necessary to insure safe conturn up additional retaining valves neces
trol of train, stopping train if necessary.
trol of train, stopping train if necessary.
Between Telocaset and Union Jet., and between Huron and Duncan, on trains averaging to exceed fifty gross tons per car, or
trains handled by engines having one air compressor, one-half of trains handled by engines having one air compressor, one-half of
all retaining dalves must be used. Retaining valves must be used train.
When When retaining valves are used, freipht and mixed trains will
use five minutes moving first mile after turning up retaining valves, four minutes moving second mile and three minutes mov-
ing each mile thereafter, excent where slower speed is otherwise
prescribed. prescribed.
1045 (S). On locomotives equipped with pressure maintaining
feature and dynamic brakes, both of which are operative, trains feature and dynamic brakes, both of which are opcrative, trains
will be handlcd on dcscending grades between Durkee and Huron
without the use of retaining valves. without the use of retaining valves. Following will govern the use of retaining valves on freight
trains when handled on descending grades by diesel locomotives equipped with dynamic brake in operation without pressure main-
taining feature
(a) Westward between Kamela and Huron and eastward be-
tween Kamela and Hilgard:

(d) If due to any condition engineer or conllictor on onsiders a
particular train cannot be safely handled beyoul llurom or Oxman as prescribed in Paragraphs (a) and (b) of thls rule without use
of retaining valves, trains must be stopped null remain standing
t ent of retaining valves, trains must be stopped null wimain standing
ten minutes at Huron or Oxman to cool wheclu und inspect train (e) When use of retaining valves is required, thews valves must
be used consecutively from head end of train. (f) Additional retaining valves must be uneel in accordance
with provisions of Air Brake Rule 1045 (13) when in the judgwith provisions of Air Brake Rule 1045 (13) when in the judg
ment of the engineer or conductor use thereof lit nuce:ssury. (g) Conductor must advise engineer number w' curs, total ton-
nagc, average tons per operative brake, and locan ion oil loads and empties in train.
(h) When retaining valves are used, freight nuld mixed trains
will use five minutes moving first mile
 ing each mile thereafter, except where slower Hpeed la otherwise
prescribed.
1015. (T). Freight trains handled with diesel locolinetives with
dynamic brake not in operation must stop and rimminin standing ten minutes to allow wheels to cool and inspect (ruin it, the fol lowing points when retaining valves are required tw lin used be ond these points:

Oxman -Eastward
M.P. 279 -Eastward

Meacham-Westward
Huron -Westward
When eastward freight trains stop at Motanic nud remin
standing ten minutes stop need not be made at M.1. whecls and inspect train.

## SPECIAL INSTRUCTIONS-THIRD AND FOURTH SUBDIVISIONS

## umatille, c

5. (R). At Biggs, time shown in time-table schedules and in train orderers applies at the end of do ouble track.
At The shown in time-table schedules and in train
orders for first class trains a At The Dalles, time shown in time-table schedules andin train
orders for first class trains applics at the passenger station.
27 (R). Switch lights will not be used on branches shown below: $\begin{array}{ll}\text { Condon } & \text { Heppner } \\ \text { Grass Valley }\end{array}$ Trains and engines must approach facing point switches on
these branches prepared to stop if switch is not in normal posithese
tion.
$83(R)$. Conductors of the following trains
$(R)$. Conductors of the following trains may register by
ister ticket per Operating Rule 83 (A): $\begin{array}{ll}\text { Finkle } \\ \text { The Dalles } & \text {-Nos. } 105, \text { and 106; } \\ \text {-Nos. 105, 106, } 17,18,11 \text { and } 18 .\end{array}$

rective SP\&S clearance.

87 (R). On double track ification of Trains
and Crates and eastward trains between The Dalles and ligks, must make necessary identification of all trains met or pusssel
93 (R). Yard limits include territory show
Troutdale
Oregon Trunk Jct.-on Bend Branch only;
93 (S). At points shown below, trains and engines may move receded by a flagm of traffic within yard limits without beink when view is obscured:

Flag Protectio
99 ( S ). Trains may be relieved from protecting against follow
extra trains by Train Order Form Z only on the following
$\begin{array}{ll}\text { Unch lines: } \\ \text { Umatilla Branch; } \\ \text { Hepper Branch; } & \text { Condon Branch; } \\ \text { Grass Valley Branch. }\end{array}$
99 (T). At Hood River and The Dalles. when pansenger train
tops at passenger station, engineer will' not sound whistle for
stops at passenger station, engineer will. not sound whistle for
flagman to protect rear of train, but in foggy or stormy weather,
when ready to proceed, flagman must be recalled by engine
whistle. whistle.
These instructions do not relieve conductor or flagman of the
responsibility of protecting as required by the rules. 99 (U). On following branches between 6 A.M. and 6 P.M. daily,
a speed of 10 MPH must not be exceeded by all extra trains ap-
proaching and moving co proaching and moving on curves and where view is obscured, look-
ing out carefully at all points for track cars and men working on
ing track without flag protection. Speed on cur es must be such as to
be able to stop within one-harf the distance track is seen to be
clear and $\begin{array}{ll}\text { Cear and whistle signal 14 (1) must be sounded frequently: } \\ \text { Umatila Branch; } & \text { Condon Branhch; } \\ \text { Heppner Branch; } & \text { Grass Valley Branch. }\end{array}$
Public Crossings
103 (W). At The Dalles, public crossings must not be blocked
longer than 10 minutes. When a train is to be delayed getting in longer than y minutes.
or out of the yard crossing mast be cut immediately.
At Bridal Veil, in switching tracks serving lumber company novement over the two ramp crossings must be preceded by a

104 (T). Switches Switches
Hinkle, junction switch, Umatilla Branch-for running track;
Hinkle, wye switches--for running track;
Arlington, Condon Branch switch-for Condon Branch.

> Train Order Signals : When train order signa

200 (T). At Biggs: When train order signal for eastward trains or entine passes Automatic Block Sipnal 1030, unless proceed
signal with yellow flag by day or yellow light by night is received signal with yel
from operator.
$\begin{gathered}\text { Remote Control Switches } \\ 275 \text { (U). Remote control switches are located as follows: (See }\end{gathered}$

Rules 275 and 275 A). \begin{tabular}{|l|l|}
\hline Location \& Under control of <br>
\hline

 

$\begin{array}{c}\text { Troutdale, junction switch to freight line } \\
\text { and east switch of siding on Kenton Line. }\end{array}$ \& Operator, Troutdale
\end{tabular} Hinkle, main track switch at west end of Operator, Hinkle

Electric Locked Switches
ver and Junction switches
280 (R). Crossover and Junction switches at Oregon Trunk
Jct., are equipped with electric locks and are controlled by OperJct., are equipped w.
ator at The Dalles.
Signal A 95.1 has siding indicator. (See Rule 240 L .)
that Oregon Trunk Jet. switch and crossover to westward main track are unlocked and crew m
When switches are lined for movement to Westward main track,
and signal A 95.1 displays proceed indication it is authority to proceed to The Dalles on westward main track without receiving clearance.
Member of crew on trains to and from Bend branch must request Operator at The Dalles via telephone, located at cross-over
switches, to unlock switches and must be governed by Rule 280.

$$
\begin{aligned}
& \text { Routes Through Interlocking }
\end{aligned}
$$

605 (R). At Troutdale, upper unit of interlocking signal, lo-
cated just eats of the junction switch,
moverns west ward movements via Graham and the lower unit governs westward move-
ments via Kentom line. When lower unit displays a green light, movement is authorized
on Kenton Line main track. When lower unit displays a lunar light, movement is authorized into Kenton Line siding.
Proceed indication of interlocking signal located just west of Proceed indication of interlocking signal located just west of
junction switch will authorize eastward trains from Kenton Line junction switch will authorize ea
to proceed to train order office.
713 (X). In addition to inspection requir
running inspection on the followinine trains Third Subdivision-
 $\begin{array}{ll}\text { M.P. } 68.8 \text { to M.P. } 69.2 & \text {-reverse curves; } \\ \text { M.P. } 4.3 .3 \text { o M.P. } 49.7 & \text { 二reverse curves; } \\ \text { M.P. } 14.9 \text { to M.P. } 15.9 & \text {-reverse curves. }\end{array}$ After rear trainman has completed inspection on the above
curves, if everything is all right, he must give hand signal to pro ceed; this signal must be acknowledged by two long sounds of
engine whitite engine whistle.
If anything unual is detected, train must be stopped and walk-
ing inspection of train must be made hefore proceeding ing inspection 713 (Y). Westward trains must stop and trainmen must inspect
ind train at Barnett, Grass Valley, Thornberry and Madras. 714 (R). There are close clearances Cleanance
main tracks as follows, and in addition thereto, at at thatforms and other structures above and at the side of industry, stock and other
tracks. (See Operating Rule M.) trac

| Location | Structure or obstructlon | Clearance of engine or car is close at- |
| :---: | :---: | :---: |
| At All Stations, | Mail Cranes | Side. |
| Third Subulvision |  |  |
| M.P. 148.49 | Bridge | Side. |
|  |  |  |
| Fourth Subdrlision M.P. 6.90 .1 | Bridge |  |
| M.P. 03.32 | Bridge | Side. |
| M.P. 61.03 | Bridge | Side. |
| M.P. 39.90 |  |  |
| M.P. 32.15 | Bridge | Side. |
| MPP 2.65 | Bride |  |
| ${ }^{1.1}$ | Brage |  |
| ${ }_{M P} \mathrm{P}$ P 26.01 | Bridge | Side |
| M.P. 15.4. | Overhead bridge | Top. |
| M.P. 10.3 | Underpass handrails | Side. |
| M.P.8.5 | Underpa | Side. |
| M.P. 5.43 | Overhoadbridge (N.E. 82 n d |  |
| M.P. 5.01 | Overhead bridge (N.E. 7 7th | Top. |
| M.P. 4.65 | Overhead bridge (N.E. Hallogy). | Top. |
|  | Overheadrridre (N.E.60th Avc.) | Top and sid |
| M.P. 3.8 . | Overhead bridge (N.E. 53 rd A | Top and sic |
| M.P. 2.86 . | Overhead bridge (N.E. 37th Ave.) | ${ }_{\text {Top. }}$ |
| M.P. 0.43 (Willamette River) |  |  |
| Portland. .............. | Depot umbrella shcd. | Top and side. |
| Umatilla Branch M.P. 10.67 | Bridgo | Side. |

714 (T). On Grass a alley Branch, employes must not ride on the side of cars or engines while moving in trains, as there arc a num-
ber of places on this branch where clearance is impaired by nar-
row cuts.

Track Restrictions 934 (T). Passenger type units numbers 900 to 999, inclusive,
must not be operated Valley Branches. Cars weighing in excess of 240,000 pounds not permitted on
Condon and Heppner Branches. Air Brake Rules 1044 (R). Brake pipe test as prescribed in Air Brake Rule 1044
must be made on all freight and mixed trains before descending
grade on Condon Branch betwee grade on Condon Branch between Barnett and Rock Creek and on
Grass Valley Branch between Klondike and Biggs and this test Grass Valley Branch between Klondike and Biggs and this test
must also be made at intermediate points on thesc grades either
up or set out, air hose parted angle cock turned or when train has anding for 30 minutes or more.
1045 (U). Retaining valves must be used on descending grades Condon: Branch, all trains, M.P. 35 to Arlington, all retaining
valves must be used. Ces must be used.
Grass Valley Branch, all trains on descending grades between M.P. 33 and Moro and between Sandon and Hay Canyon, retaining
valves must be used on all cars. Between Klondike and Biggs, revalves must be used on all cars. Between Klondike and Biggs, re-
taining valves on all cars must be used in maximum pressure position. On engines not equipped with pressure maintaining fea-
ture or dynamic brakes inoperative, retaining valves on all cars
must be used on descending grades between Moro and Hay Canyon
Bend Branch, all trains, M.P. 100 to South Jct., averaging in excess of 65 gross tons per operative brake, one-half of the re-
taining valves must be used. Retaining valves must be used consecutively from head end of
train. When retaining valves are used, freipht and mixed trains will
use five minutes moving first mile after turning up retaining valves, four minutes moving second mile and three minutes mov-
ing each mile thereafter, except where slower speed is otherwise prescribed.
Conductor must advise engineer number of cars, total tonnage, Conductor must advise engineer number of cars, total tonnage,
average tons per operative brake, and location of loads and empties
in train.

## SPECIAL INSTRUCTIONS-ALBINA TERMINAL AREA

Movements in Yards
93 ( T ). The following instructions govern while using track Trains and engines using tracks 1 to 10 inclusive, Portland
Union Station, must move at restricted speed when passing a train eceiving or discharging passengers, and must not cross Haigh Shed at passenger station unless proceed signal is received from
station master or his assistant or preceded by a member of the crew when passage over the High Shed is seen to be clear and it
is safe to proceed. Interlocking at south end of freight and passenger yards governs all trains and engines entering or leaving yards.
When the home signal indicates Stop, the following whistle sinnals will be used to call for desired route: (Wheng conditions
are favorable, hand or lantern signals sbould be used instead of sire favorable, hand or lantern signals sbould be used instead of
whistle signals.)

When the home signal indicates Proceed, the whistle signal must not be sounded. 93 (U). Two parallel tracks between East
are desimated as:
Running track 1-traclc nearest river;
lese tracks are signalled for movement in both directions. Telephonoess are installed at for fow owng locations:
Switch Tenders Building Randolph St.;

Trains and engines noving from East Portlund to Albina may
enter Running tracks 1 or 2 on proper interlocking signal indica-
Trains or engines moving from Albina to East Portland mayy
Thter Running tracks 1 or 2 on rececipt of proceed signal given with
on enter Running tracks 1 or 2 on receipt of proceeed signang laiven with
yellow flag or yellow light by switchtender at Harding Street, Albina. Unless such proceed signal is received, trains and en-
gines must top clear of switches and cross-overs at Harding and
Randolph streets Enginest leavoing. Running track 1 or 2 at any industry between.
Albina and East Portland must report by telephone to operaten Albina and East Portland must report by telephone to operator
East Portland after Running track is clear and switch is properly
lined A train or engine must not enter Running track 1 or Running
track 2 at any intermediate location, or cross from one running
 Ornal Operating Rule 513 weill apply
and East Portland is for the running tracks. Switchtender at Albina must not give proceed signal to a train
or ergine movig beyond Albina Avenue to enter running tracks
without first securing permission frou with out first secur ing permisision from operator at Eat Eat Portland,
nor may operato at East Portland clear interlocking signal for 1
no nor may operator at East Portland clear interlockling signal for at
train or engine which is to move beyond interlocking limits to
enter these tracks without first notif fing switchtender at Allinaa. for movement of trains or engines on right hand track in direction
of their movement, except in emergency or for movement which of their movement. except in emergency or for movement which
requires that track to the left be used.
Operator East Portland will maintain a record on Operator East Portland will maintain a record on prescribed,
form showing occupancy of Running tracks 1 and 2 and operators form showing occupancy of Running tracks 1 and 2 and operators'
transifr must include trains or engines which have not cleared
these tracs these tracks when tr
Railroad Crossings and Junctions
98 (R). Trains and engines must be governed by the following
at the railroad crossings and junctions indicated.

| Location | Railioad Crossed or Junction With | $\begin{array}{\|c\|} \hline \text { Trainn } \\ \text { Whlch Have } \\ \text { Precedence } \end{array}$ | How Geverned |
| :---: | :---: | :---: | :---: |
| East Portland. (S.E. Second Ave. between S.E. Main and S.E. Madison Sts.) | S. P. \& S. | U. P. | Stop signs. |
| Peninsula Jct. (M.P. 5.8 Kenton Line) | $\begin{aligned} & \text { Seattle main } \\ & \text { track. } \end{aligned}$ |  | Special Instruction 605 ( U ). |

Riding Leading End of Engines
103 (T). Trainmen need not ride on leading plat
steps of engine over crossings Albina Terminal Area.
103 (X). Cars, except business cars equipped with spotlight must not be shoved head of engines through tunnel between St.
$605(\mathrm{~S})$. To indicate the Interlocking
route to
rignals will be used:


For East Side Freight Terminalo-
At St. Jorkns Jet.:
For North Portland Jct............ $=$ o
For Kenton ................... For Kenton....
At Peninsula Jct.:
As westward
whistling wostst and and microphonese located approximately
one-half mile in advance of home ing pate

Kenton Line and North Portland Jct. Line, envinera will sound whistle signals as follows
For tunnel and to Albina. . . . $\qquad$ At the following locations, 8J-foot rail trailer flat cars may be
hanclled on curves in excess of 16 degrees as provided therein: Between Albina and east end of Steel Bridge, Portlandi
Between East Portland and eust end of Steel Bridye, Porth 934 (T). Engines heavier than indicated below must not go on
tracks named: tracks named:
605 (T). Movement of trains and engines between St. Johns Jct.
and Peninsula Jct. is governed by interlocking which is operated from St. Johns Jct. At St. Johns Jct., when a green light or green flag is displayed
by operator to train or engine leaving Albina via yard lead, it will indicate that route is lined and switch at east portal or ot unnel is
in proper position for movement via North Portland Jct. When in in proper position for movement via North Portland Jct. When in-
terlocking signal indicates that route is lined for movement through tunnel and a green flag or green light signar is nomed iss-
played, it indicates that switch at east portal of tunnel will be played, it indicates that switch
lined for movement to Kenton.
When a train or engine is stopped by interlocking signal at junc-
tion of North Portland and Kenton Lines, member of crew must tion of North Portland and Kenton Lines, member of crew must
immediately notify operator at St. Johns Jct. If operator is unable immedarety notify operator at St. Johns Jct. If operator is unable
to clear signal, he must communicate with train dispatcher who may authorize flagman to precede the train or engine, examine
route and report to operator at St. Johns Jct. if track is clear, route and report to operator at St. Johns Jct. if track is clear,
operator will then authorize tram or engine to proceed at re-
stricted speed. stricted speed.
A member of crew must obtain authority from operator at St. limists and before hand-operating electrically contronlled switch ant
junction of North Portland and Kenton Lines. After using electrically controlled switch, it must be restored to position in which it
was found and operator at St. Johns. Jct, notified was found and operator at St. Johns Jct. notified.
605 (U). Movement over railroad crossing with Seattle main
track M.P. 5.8, iust west of Peninsula J ct., is governed by color
light signals. Electric lock derails are light signals. Electric lock derails are in une. Trains or engines
must obtain authority from operator at St. Johns Jct. for movemust obtain authorty from operator at stis Johns jct. for move-
ment over this and operator will release electric lock for
operation operation of derails. After movement is completed, derails must
be restored to normal position and locked with switch lock and be restored to nor
operator notified.
605 (V). When eastward interlocking signal located on canti-
lever at M.P. 3.3, Kenton Line, displays Stop indication, permislever at M.P. 3.3, Kenton Line, displays Stop indication, permis-
sion must be obtained from operator at St. Johns Jct. before
proceeding. proceeding.
Close Clearances

714 (R). There are close clearances above and at the side of
main tracks as follows, and in addition thereto, at platforms and other structures above and at the side of industry, stock and other tracks. (See Operating Rule M.)

| Location | Structure or obstruation | $\begin{aligned} & \text { Clearance of of } \\ & \text { y ongine or car } \\ & \text { is close ot } \end{aligned}$ |
| :---: | :---: | :---: |
| At all stations | Mail cranes. | Side. |
| M.P. 15.82 | Bridge......... Overhead bridg | Side. |
| M.P. 15.4 | Overhead bridgo | Top. |
| M.P. 8.5 | Undorpass handrrils, | Side. |
| M.P. 5.43. | Overhead bridgo (N.E.82ıid Ave.) | Top. |
| M.P. 5.01 | Overhand bridge (N.E. 7thin Ave.) | Top. |
| M.P. 4.65 | Overhaed bridgu (N.E.E.Halsey).. | ${ }_{\text {Top }}^{\text {Top and sido. }}$ |
| ${ }_{\text {M.P. }}^{\text {M.P. }}$ 4.14. |  | Top and ide. |
| M.P. 3.8 | Overhead bridgo (N.F. 53rd Ave.) | Top nnd sido. |
| M.P. ${ }^{\text {M. } 2.56,}$ | Overhead bridge (N.F. 37t A Ave.) Overhad bridgo (N.F. 33rd Ave), |  |
| M.P. 0.43 (Willamoto River) | Bidgo....i.go ............. | Side. |
| Portland. | Depot umbrolla shod . . . . . . . | Top and side. |

714 (U). At south end of Union Station, Portland, clearance is
very close and will not clear a man on side of car between tracks
 to point 100 feet north of the crossing.
993 (S). Referring to Special Intruction 934 ( $R$ ), All Subdi-

## SPECIAL INSTRUCTIONS-FIFTH SUBDIVISION

27 (R). Switch lights will nitch Lights be used on branch shown below: Trains and engines must approach facing point switches on this
branch prepared to stop if switch is not in normal position.

| Train Rexistering Exceptions |
| :--- |


Black River-All trains;
Reservation-All westward trains;
Seattle
-CMStP\&\& first-class trains
At Argo, only trains which originate or terminate in UP
yard at that station will register.
At Centralia, Grays Harbor Branch
terminating at Blakeslee Jct. must register in UP train
D-83 (R). Information required by Operating Rule D-83 need
be received at:
Argo, by west ward trains and engines.
$83 \begin{gathered}\text { Clearances } \\ \text { Black River-all westward trains. } \\ \text { Slatent }\end{gathered}$
Argo
Centralia -all eastward trains.
Centralia -all westward Grays Harbor branch trains
originating at Blakeslee Jct.
Northern Pacific
Reservation -all
ance must be recived as follows:
Reservation -all eastward second-class and extra trains
passing through Tacoma;
Tacoma, McCarver Street th
-all eastward second-class and extra trains
$83(\mathrm{~T})$. Trains are not required to receive a clearance as per
Seattle-eastward trains. Clearance received at Argo by
an eastward train confers same authority on
Fifth Subdivision as when received at Seattle;
Argo
-westward CMStP\&P nassenger trains.
(R). Yard limits include territory shown
(R). Yard limits include territory shown
Aberdeen-between yard limit sign just east of Cosmopolis
and N... yard linnuit sign at Myrcle St. west
of Aberdeen depot. 93 (V). At Seattle Union Station, trains and engines on east-
ward main track must stop clear of Signal 1827 -A when waiting
for eastward trains that are to use crossover from Tracks 7 and 12 . Railroad Crossings and Junctions
98 (R). Trains and enginess must be governed by the following
at the railroad crossings and junctions indicated.

| Locatlon | Rallioad Crossed, or Junctlon WIth |  | How Governed |
| :---: | :---: | :---: | :---: |
| Holsing Jet. | C.M.st.P.e.p | V. P. | Automatic thock signais. |
| Snuth Abordeen. (Donovan Mill) | N. P. | N. P. | Stop signe. |
| Olympia. (.loffersum and 7th Sts. | N. P. | U. P. | Stup signe. |
| Tacoma. (Dempsey Mill Spur) | N. P. | N. P. | Stop gigns. |
| Tacoma. Tidowater. | N. P. |  | Somi-antomatic interlocking. |
| Seallle. (Duwamish Ave. and East Markinal Way.) |  | $\begin{gathered} \text { G. } \bar{N} \\ \text { C.M.St. } \\ P \cdot M \cdot S P . \end{gathered}$ | Stop Signs |
| Seattle, (East <br> Miarginal $D$ ay <br> \& Spokare St.) |  | N.P. | Stop Signs |
| Soattlo. (Railroad Ave. and Atlantic St.) | $\begin{aligned} & \hline \text { G.N. } \\ & \text { N. P. St. P. \& P } \end{aligned}$ |  | Stop signs, and gignala fron watchman. |

98 (S). At N.P. Crossing, Tacoma-Tidewater, when stopped by
semi-atomatic interlocking signal and no conflicting movement is evident, a member of crew must go to the crossing, push time
release push-button, hold for five seconds then release. At ex release push-button, hnld for five secondsil then release. At ex
piration of time interval, indicator lamp will light to indicate time interval has expired. If signal does not then change to permit
in rain or engine to proceed member of crew will signal engineer to rain or engine to proceed, member of crew will signal engineer to
proceed if no train or engine is approaching on conflicting routes. Drawbridges
13 (T). Trains and engines after stopping at stop signs must
not proceed onto draw span of bridge between Montesano and not proceed onto draw span of bridge between Montesano and
South Montesano until they have called for, received and ac-
knowledged proceed signal from bridge tender, and in addition must be governeed by position of derail located 128 feet east, and must be governed by position of derail located 128 feet east, an ing certain hours each day draw span will be left open for rive
traffic and derails will be set in derailing position. If necessar or train or engine to use drawbridge during such hours, notify gent Montesano or 98 (U). At Tacoma, all trains and engines after stopping at
top signs must not proceed onto draw span of bridge at Tacoma ntil they have called for, received and acknowledged procee signal from bridge te
Flag Protection
99 (U). On following branches between 6 A.M. and 6 P.M. daily
a speed of 10 MPH must not be exceedcd by all extra trains ap a speed of 10 MPH must not be exceeded by all extra trains ap noaching canefully at al al points for track cars and men working on
rack without flag protection. Speed on curves must be such as rack without flag protection. Speed on curves must be such as clear and whistle signal 14 (I) must be sounded frequently:

Olympia Branch;
Grays Harbor Branch.
101 (S). Seattle, at Unusunl Conditions
nil Maysachusetts, Ave., on Harhor Islunnl, employes must no rile on, sides, ends or tops of curs while being moved on or of
burtegs, rom where impuriveld celetrence signs are posted near utrges, foin where inp Masschusetts Ave.
Clearunce is very clos.
Clearunce is very close on all trucks approuching barge upron
anil on the brarges proper, and no movements will be permitted
witt o nt
 All lars must have air rut in and ouperative when moving on or
off barges and all moves must be nande slowly and with extreme care. Permission must be received from Supervisor in charge of
Pier 16 before any movement is made on or off barges Engines are not permitted on apron of barge slip, and must hold
Ent onto enough cars to keep engine off apron of slip.

Riding Leading End of Engines
103 (T). Trainmen need not
 between Argo and Seattle
along East Marginal Way.
$103(Y)$. At Olympia, City Ordinance rel
f railronal trains and railroud traffic provides for the movemen

1. No car or cars are to
th 1. No car or cars are to be kicked or llopped over any stree
rade crossing

2. All switch movements over crossings, unless protected bu 3. No locomotive, riilroad be protected by flagmen. om any muin truck having a grade of $1 \%$ or more. truffic for moret or than street crossing may be blocked to vehicular at any time.
3. Not more blocked by any moving train at any aiven time. insections may be B. Not more than 2 consecuative street intersections may be
blocked ln any standing train at any time.
4. No switch move may exceed a speed of 5 MPH at any inter-
section within the City of Olympia. 8. When switching movements across grade crossing have
been completed and the crossing cleared, reverse movement across been completed and ne crossing cleareat, reverse movement across
such crosing may not ou made until all accumulated vehicular
traffic at the crossing shall have cleared the intersection. 9. Switch movements of engine and 5 cars only may be moved
across the following crossings between the hours of $7: 80$ A.M
 $\stackrel{P}{P . M \text {. }}{ }^{\text {P. }}$

## East Union Avenue LegionWay <br> Columbia Street at West Seventh <br> Legion Way East Fourth Avenue Wast State Avenue

10. No public road or street crossing may be blocked to ve-
hicular traffic by any standing engine, car or train during the
 The items listed above are in addition to any other regulation verning railroad trafic ef fect at Olympia, and violation car governing railronaltra
ries a heavy penalty.
Public Crossings
$103(2)$. At Fifteenth Street, Tacoma, all trains and engines
must stop and a member of the crew must be sent ahead to act must stop and a membe
as crossing watchman.

## Switches

104 (T). Switches will be set normally a Aberdeen, switch at end of double track-for eastward trains;
South Montesano, wye switch on Montesano Branch-fo west leg of wye;
Helsing Jct., juncti At Tacoma, when cross-over switches from Northern Pa cific double track to U. P. drawbridge line are handled
by trainmen, all such switches must be returned to by trainmen, all such switches must be re
normal position after movement is completed.

Staff System
301 (R). Movements on Olympia Branch are governed by Staff system.
Single staff will be used, located in staff box near yard limit
sign, Olympia. Trains or engines must secure this staff hefore sign, Olympia. Trains or engines must secure this staff hefore
using Olympia Branch main track outside of yeard limits, and must retain staff until movement is completed. Trains or engines must not move from East Olympia to Olympia
without having staff in their possession. When such movement is
netest necessary, dispatcher will instruct tow staff will be obtained. After movements are completed, staff must be placed in staf
box and securely locked.

Interlocking
605 (S). To indicate the route to be used through interlocking,
the following whistle signals will be used: For Seattle
For yard lead $\ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots=-$
From Seattle to Pacific Coast R. R....
 Close Clearances
714 (R). There close clearances above and at the side of main
tracks as follows, and in addition thereto, at platforms and other structures above and at the side of industry, stock and other structures above and at the sid
tracks. (See Operating Rule M.)
clearance ol
ngrine or car
is close
close Side. Top and sido.


N14 (X). At Olympia, account insufficient clearance between
N. P. connection scale track and main track, trains or engines must not attempt to pass on main track if trains or engines are
moving on connection. At Aberdeen, account insufficient clearance between coach
track No. 1 just east of passenger station and main track at turnout, trains and engines must not attempt to pass on main track if
trains or encines are moving on coach track No. 934 (T). Engines heavier than indicated must not go on tracks
 934 ( U). Cars weighing in excess of 210,000 pounds not per-
mitted on Stuck River Bridge, Fleischman Yeast Co. spur at ${ }_{934}$ (V). At Olympia, track serving rail trailer facilities contains eurve of 20 degreas. 8.5 foot rail trailer flat curs must not be
handled on this trackage. handled on this trackage.

## SPECIAL INSTRUCTIONS-SIXTH SUBDIVISION

Y 1 KIMA, SUNNYSIDE, SPOKANE-TEKOA, PLEASANT V $\operatorname{LLLEY}$, WLLLULA, MOSGO, CONNELL, TEKOA-AYER
14 (T). Within the ecity limits of Spokane, Pendleton and Pom
eroy, it is unlawful to sound engine whistle except to signal flag man or interlocking signalman, or to prevent accident not other wise avoidable
At Walla, the use of the engine whistle at the public
arosing crossings at West Cherry Street and Gardeners Association jus
west of Mill Creek Bridge, is prohibited except to prevent ac west of mill Creek Bridge, is
cident not otherwise avoidable.

## Switch Lights

27 (U). Switch lights will not be used on branches shown below

Pomeroy
Dayton,
Dayton,
$\begin{aligned} & \text { Sierra Nevad } \\ & \text { Tucannon, }\end{aligned}$
Tucannon,
Moscow,

Connell

Trains and engines must approach facing point switches on
these branches prepared to stop if switch is not in normal position.


Ayer -All trains:
Ayer Crossing-All west ward Sixth Subdivision trains
Dishman -All westward Spokane-Tekoa Branch trains Whe originating at East Spokane
Wallula -All eastward Wallula Branch trains;
Wallula -All eastward Yakima Branch trains.
83 (T). Trains need not receive Clearance Form A as required
by operating Rule 83 (B) at:
$\begin{array}{ll}\text { East Spokane, } & \text { Bolles, } \\ \text { Hooper Jct., } & \text { Richland Jct. }\end{array}$
When there is no operator on duty, trains are not required to
reccive a clearance as per Operating Rule 83 (B) as follows:
Moscow,
Starbuck,
Starbuck,
La Crosse,
Moscow.
Colfax.
When train order signal indicates Proceed trains need not re-
ceive clearance as per Operating Rule 83 (B) as follows:
Dayton-Train 365;
Manito二Trans 382 and 388;
Tekoa -All trains.
Train Registering Exception
83 (R). Conductors of the following trains may register by
register ticket, per Operating Rule $83(A)$, when operator on duty:
N. P. Crossing, Spokane-all G. N. trains;
Marengo
-all U. P. trains;
$\begin{array}{ll}\text { Manito } \\ \text { Wallula } & \text {-all trains; } \\ \text {-all trains. }\end{array}$
Movements in Yards
$93(\mathrm{~W})$. At Spokane Union Station, no switchtenders are em-
ployed between 12:30 A.M. and 8:30 A.M. During hours switchtenders not on duty, movements through
Spokane Union Station must be made on No. 5 track, unless
otherwise instructed otherwise instructed.
All trains and engines must proceed carefully, examining route
and switches to know they are properly lined before movement a and switches to know they are properly lined before movement
is made. and switch
is made.
During
Will be poverned hours switchtenders are on duty all trains and engine Will be roverned by signals from switchtenders.
93 (X). Tracks of U. P. and N. P. within yarr limits at Zillah,
Attalia and Huntsville are used jointly by trains and engines of Attalia and Huntsville are used jointly by trains and engines of
both companies for switching purposes, being governed by Oper-
atiny Rule 93 both companie
ating Rule 93 .
Railroad Crossings and Junctions
98 (R). Trans and engines must be governed by the following
at the railroad crossings and junctions indicated:

| Location | Raliroad Crossed, or Junction With |  | How Governed |
| :---: | :---: | :---: | :---: |
| Marengo. (M.P. 306.4) | C. M. St. P. \& P |  | Special Instruction 98 (V). |
| $\underset{\substack{\text { Spokane. N. P. Cross- } \\ \text { ing (M.P. 183.5) }}}{ }$ | N. P. |  | Interlocking. |
| Spoknne G. N. Crossing | G. N . |  | Automatic Interlocking. |
| Manito. (M.P. 143.4) | C. M. St. P. \& P. |  | Automatic block signals. Special Instructions $98(W)$. |
| Farmington. (M.P. 103.2) | N. P. | U. P., oxceopt paspenger traing have precedence overfricht trains. | Gate sot against N. P. |
| Garfeld. (M.P. 95.3) | N. P. | U. P. | Stop signs. |
| Coliax (M.P. 77.1) | G. N. | U. P. | Gate and automatic intorlocking signals. Gato set against G . N . |
| Oakardale. (M.P. 39.75) | G. N. | U. P. | Stop signs. |
| Oakesdale. (M.P. 39.73) | N.P. | N. P. | Stop signe. |
| Thomton. (M.P. 30.67) | G. N. | U. P. | Gate. |
| Riparia. (M.P. 17.3) | N. P. | U. P., | Gate sot against N. P. |
| Walla Walla. <br> (M.P. 47.9) | N. P. | U. P. | Stup signs. |
| Willa Walla. (M.P. 47.3) | w. W. v. | U. P. | Gato. |
| Langdon (M.P. 44.2) | W. W v. | U. P. | Gato. |
| Milton. (M.P. 37.0) | W. W. V. | U. P. | Gate. |
| Parker. (M.P. 91.3) | N. P. |  | Automatic Interlocking. |
| Donald. (M.P. 89.35) | N. P (gauntlet track). |  | Automatic Interlocking Special Instruction 672 (R). |
| Garrott. (M.P. 28.7) | W. W. v. | U. P. | Gato. |
| Dayton. (M.P. 13.10) | N. P. | U. P. | Stop signs. |
| Dayton. (M.P. 13.11) | N. P. | U. P. | Stop signs. |
| Pullman. (M.P. 19.3) | N. P. | U. P. | Stop signs. |
| Wallace. (M.P. 80.4) | N. P. | U. P. | Stap signe. |
| Wallace. (M.P. 80.6) | N. P. | U. P. | Stop signs. |
| Plummer Jct. (M.P. 16.2) | C. M. St. P. \& P. |  | Special Instructions 98 ( X ). |


 ${ }^{93}$ (W) At Manito, junction switcl will $p$ e lined nor mally for
 9s. (X). At Plummer Jet. movement from Union Pacific con-
ecction to C.M.St.P.\&P. main track is soverned by dwarf signal

98 (Y) At drawbridge, Drawbridges
ping at stop sign, train must not proceed untir pronch, after stop-

98 (Z).At M.P. 17.23, Tekoa-Ayer Branch, trains must stop be-
fore passing over drawbridge and then proceed if draw span is Flag Protection
 Connell Branch between Hooper Jct. and Connell;
Dayton Branch between Dayton and Turner; Pomeroy Branch,
Pleasant Valley Branch;
Pendleton Branch between Walla Walla and Alt
99 (U). On following branches between 6 A.M. and 6 P . M. daily speed of 10 MPHIll must not be exweeded by all extra trains app. oking out carefully a all points for track cars and men workin on track without flag protection. Soped on curves must be such as
obe able to stop within one-half the distance track is seen to be and whistle signal 14 (1) must be sounded frequently



| Localton | Instrucllons |
| :---: | :---: |
| Spokane-Medelia and Washington Street. |  <br>  |
| Spokano-Divsion Stroot. | Unles aboolutuly nocesasary movements aros, strost <br>  tween 6:00 AM and midnight, the number of move monts across the street is limited to twenty, and the street must not bo crossed when te do so would inter- rupt traffic. |
| Tolsoa-County road at McGoldrick's Spur. | Flagyan must be on ground and stop traffic before movement is made over the crossing. |



Hooper Jct. (Connell Branch)-for line via Park; Winona-for line via Colfax;
Tucannon-for line via Pataha; -for Connell Branch;
Walla Walla - East wy switch Pendleton Branch - for Pendleton Branch;
Wye switch Wallula Branch-for movement to east Ieg Yakima, Walnut Street-_for main switching lead. $104(W)$. At East Spok Mne, spring switch equipped with facing
point lock is installed in main tracle at west end of yurd. Spring switch installed on for wawkee connection, efuipped
with switch indicating signal for eastward movements. When this signal displays green, switch points are lined for movement on Union Pacific track. When signal displays yellow, switcis lined
for eastward movement on Milwaulce track. If this sional displays rev, switch points must be examined to know switcol is lined for movement to be made.
Westward movements
Westward novements through either of these spring switches
will be boverned by westward dwarf signal located near west end
of Union Pacific rumning track and between thet track of Union Pacific running track and between that track cond main
trackl, controlled lyy Operator at Disliman. Before malking move-
ments from U.P. running track to main tracls crews must secure
 permission from Operator at Dishman by tele phone. Milwaukee
crewsmustobtain this permission before leaving Milwalkee yard.

Main Track Derails
104 (U). Main track derails are located at the following points:

| I'omeroy (M.P. 29.65) (M.P. 29.01) | Derail will be sct in derailing position only when cars are left standing on main track above it |
| :---: | :---: |
| Dayton <br> (100 feet cast of depot) ( 150 fect east of weat switch to cannery track) |  |
| McAdam (500 feet west of weyt switch) | Derail will be set in derailing position only when cars are apotted to foul the main track, or when the warehouse track switches are betso as to permit loaders to drop cars west onto main track. |
| Wacota <br> ( $5(\mathrm{~K})$ fect west of wcst switch) |  |
| Fister <br> (5)() feet west of west swi |  |
| Sulphur <br> (500 fect west of west switch) |  |
| Wallace (M.P. 81.13) | Spring switch point act in derailing porition at all times and must be |
| Gem <br> (M.P. 84) | Derail will be set in derailing position ouly while switching is bcingdone above il. |
| 3Trike |  |
|  | Derail must be set in derailing pouition at all times when not being инед. |
| (M.T. 86.4) |  |
| Sierra Nevada Spur | Springswitch point must be set in dorailing position at all times exceptwhen changed for descending movement. ment. |
| ( 300 feet east of refinery track вwitch) |  |
| Sierra Nevada Spur | Derail will be bet in derailing posi-tion only when cars are left standing on main track above it. |
| (weat of No. 1 track awitch at zinc plant) |  | 268 (S). At Pendleton, trains from Pendleton Branch to exten-

sion of Track 6 , must obtain permission from train dispatcher at La Grate 267 (V). Clearance Form B need not be received for
in CTC territory between Wallula Jct. and Villard Jct. 269 (R). When Stop indication is displayed on either of the fol-
.
man must be sent aheead
made atrestricted speed
Eastwat
Eastward stop signal governing movement from joint track
from Y Eastward sima branch to Villard Junction; east end of Wallula, governing movement to Sixth Sub-
division main track;
Westward stop signals governing movement over Yakima
junction switch.
Remote Control Signals

275 (V). On Spokane-Tele Control Bignals Branch, train and engine move-
ments between remote controlled signals located at N. P. Crossing, at east and
west west encls of Easted Signals located at N. P. Crossing, at at east end of sidiny at Dishman.
Indications of sucl signals will supersede the superiority of trains between these points. When one of these remote controlled
signall divplays Stop indication, member of crew must communi-
cate with cate with operator and be governed by his instructions.
$T$ rains and engines must not enter main track at $E$ ast $S$ pokane Trains and engines must not enter main track at East Sporane
or at east twitch Dislman witlout permisision from operator,
except that when illuminated letter "S" is displayed on dwarf
Sind signal at east end of East Spolkane or at east switch Dishman,
switcl may be irned for main track and movement then maule ac-
cording to dwarf signal indication

$$
301 \text { (S) Movomontc Staff System }
$$

301 (S). Movements of trains and ensines on the Govermme trackage between Richland Junction engines on the Government
imit sign on Govern) and yard
Iornment trackage at M.P. 43.8, are governed by staff system.
Divided staff, lettered "A " and "B", will be nsed and staff boxes
are located at Richland Junction and at M.P. 43.8. When only one train movement is to obe made in the staff limits,
dispatcher will notify the crew and that crew must have both dispatcher, will notify the crew and that crew must have both
staffs "A" "B. ${ }^{\text {" }}$ in their possession and retain them for the round trip.
When tw
When two trains are to be run in these limits, the first train
must not enter the staff limits until it has been ascertained that
both staffs are in box at both staffs are in box at that point, and has takens staff "A" for
their movenent. Second train entering staff limits must have
staff "N" inttein staff ""B. in thenir pocsons ion.
After moving through the staff limits, both staffs must be left After moving through the staff limits, both staffs must be left
in staff box. Staff box must be left locked at all times. in staff box. Staft box must be tert locker at all times.
Conductor of train which is to move, or has moved, hrough the
staff limits, must register his train on train register at Richland
Junction, and indicate staff used, either "A" or "B" or both Junction, and indicate staff used, either "A" or "B" or both.
Train or engine movements on Government trackage from end
of staff system into interchange yard and wye at North Richland of staff system in to interchange yard and wye at North Richland
will be governed by yard limit rules and instructions issued by
Government dispatcher When two trains are run the first train Government dispatcher. When two trains are run, the first train
arriving at interchange yard must remain at that point until the arriving at interchang
second train arrives.

Slide Detector Signals
50
detector signals, designated by triangular number plates are
serve service. When signal displays Stop indication, train must stop be-
fore passing and may then proced opposite end of protected territory, at looking out for damaged rail
or obstruction, and wire report must te made to or obstruction, and
and superintendent.

Routes Through Interlocking
$605(R)$. To indicate the route to be used
the following whistle signals will be used:
For Spokane Union Station..............o. or
For old yard

663 (U). At Columbia River Bridge, M.P. 7.44, Yakima Branch,
when a train is slopped by semi-atotomatic interlocking sirnal a when a train in slopped by semi-automatic interlocking signal, a
flagman must be sent to drawbridge to give proceed signal if de-
rail and draw span are rail and draw span are eroperly closed. Two long sounds of engine
whistle must be sounded bef ore proceeding, and movement must
be made at restricted speed.

672 (R). At Yakima River Bridge, M.P. 89.35. Yakima Branch, nd must approach gauntlet track at restricted speed. A train or
ngine stopped by an interlocking signal must conply with Operting Rule 672 . If signal does not change its indication after on iome signals provection must be provide gauntlet track.

Close Clearances
ain tracks as follows, and in addition theret and at the side of ther structures above a nd at the side of industry, stock and other

| Location | Structure or obstruction | Clearance of engine or car Is close at-dillose |
| :---: | :---: | :---: |
| At All Stutions. | Mail Cranes. | Side. |
| SIxth Subdivislon |  |  |
| M.P. 199.93. | Bridge | Sido. |
| M.P. 220.5 | ${ }^{\text {Bridge }}$ Tunel ${ }^{\text {or }}$ | Side. |
| M.P. 235.02 | Tunnel No .8 | and |
| M.P. 242.4 | Tunnel No. 9. | Top and side. |
| M.P. 275.1 | Tunnel No. 10. | Top and sido. |
| M.P. 275.5 | Tunnel No. 11 | Top and sido. |
| M.P. 276.0 | Tunnel No. 12 | Top and sido. |
| M.P. 276.3 | Tunnel No. 13. | Top and side. |
| M.P. 276.5 | Tunnol No. 14. | , |
| M.P. 278.36 | Overhaad bridge | Top and sido. |
| M.P. 288.78 | Tunnol No. 15 |  |
| M.P. 282.1 | Tunnel No. 16. | Top and side. |
| M.P. 294.4 | Tunnel No. 17. | Top and side. |
| M.P. 305.62 | Overhead bridge | Top and gide. |
| ${ }^{\text {Marango }}$ P250 | Oil tank gpout. | Top and side. |
| M.P. 329.46 | Overhead bric | Top and |
| M.P. 337.20 | Overhaad bridgo. | Top and side. |
| M.P. 352.13 | Bridge |  |
| M.P. 353.57 | Overhaad bridge | Top. |
| M.P. 353.94 | Overhead brid |  |
| M.P. 357.48 | Overhead bridg | Top and gid Top and sid |
| M.P. 363.76 | Overhaed bridgo | Side. |
| Spokano. | Umbrella sheds | de. |
| Yaklma Branch |  |  |
| M.P. 7.44 | Bridgo | Top and side. |
| M.P. 11.52 | Bridg |  |
| M.P. 14.16 | Overhead | Top and 9 it |
| ${ }_{\text {M.P. }}{ }^{\text {M }}$ 24.35 | Brige |  |
| M.P. 35.89 | Bridge |  |
| M.P. 53.36 | Brid |  |
| M.P. 56.83 | Bridge | do. |
| M.P. 58.03 |  | Sidd. |
| M.P. 88.19 |  |  |
| M.P. ${ }^{\text {Pr }}$ | Brige | Sido. |
| MP 7330 | Bridg | Side |
| M.P. 89.35 | Bridgo | Top and side. |
| Union Gap | Overbead bridge |  |
| Yakima, First Avonuo and C Street. . . . . . | Traffic light. | Top. |
| Tekoa-Ayer Branch |  |  |
| M.P. 17.23 |  |  |
| M.P. 19.96 |  |  |
| M.P. 26.73 |  |  |
| M.P. 77.23 | Brid | an |
| M.P. 90.27 | Bridge | Top and sid |
| MP. 93.01 | Bridgo |  |
| MP. 98.03 | Bridgo. | Sido. |
| M.P. 112.97 | Overhead bridge |  |
| M.P. 115.79 |  |  |
| M.P. 115.86 | Overhead | Top. |



Total weight of train exclusive of locomotive，which the different classes of locomotives will haulin each direction between stations named，under favorable weather conditions．Rating shown is for single Unit．If more than one Unit，rating of combined Units will govern．

| TYPE OF LOCOMOTIVE | NUMBERS <br> （Incluaive） | CONDON BRANCH |  |  |  |  |  |  |  |  | grass valley branch |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 3 5 蕃 0.0 |  |  |  |  |  |  | $\begin{aligned} & 3 \\ & \text { 3 } \\ & \text { an } \\ & y \\ & y \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  |
| EMD－GP9－F9 | $\begin{aligned} & 130 \text { to } 244 \\ & 500 \text { to } 542 \mathrm{~B} \end{aligned}$ | 3500 | 800 | 1650 | 3300 | 800 | 600 | 850 | 600 | 1200 | 525 | 875 | 1400 | 850 | 900 | 1400 | 1200 | 3000 | 1000 | 3000 |
| EMD－GP7－F7 | $\begin{array}{rll} 1400 & \text { to } & 1496 \\ 100 & \text { to } & 129 \end{array}$ | 3100 | 650 | 1450 | 3100 | 650 | 450 | 755 | 1000 | 1000 | 475 | 800 | 1000 | 750 | 775 | 1200 | 1100 | 3500 | 850 | 3000 |
| EMD | 1000 to 1095 | 3000 | 600 | 1500 | 3000 | 600 | $4: 50$ | 600 | 450 | 1100 | 325 | 450 | 1100 | 425 | 650 | 800 | 850 | 3000 | 650 | 3000 |
| EMD | 1800 to 1824 | 3200 | 700 | 1700 | 3200 | 650 | 500 | 650 | 500 | 1200 | 375 | 500 | 1200 | 500 | 700 | 1000 | 1050 | 3200 | 750 | 3200 |
|  |  | SIXTH SLBDIVISION |  |  |  |  |  |  |  |  |  |  | SPOKANE－TEKOA BRANCH |  |  |  |  |  |  |  |
|  |  | 3 0 0.8 0.0 0.0 0.0 |  |  |  | $\begin{aligned} & s \\ & 0 \end{aligned}$ |  |  |  |  |  |  | Ex |  |  |  |  |  |  |  |
| EMD－GP9－F9 | $\begin{aligned} & 130 \text { to } 244 \\ & 500 \text { ty } 542 \mathrm{~B} \end{aligned}$ | 2670 | 6900 | 4250 | 6900 | 4320 | 2670 | 4780 | 3090 | 4320 | 2070 | Car limit | 117 |  | 1650 | O200 | － 1435 | 4000 |  |  |
| EMD－GP7－F7 | $\begin{gathered} 100 \text { to } 129 \\ 1400 \text { to } 1496 \end{gathered}$ | 2300 | 5970 | 3670 | 5970 | 4250 | 2600 | 4700 | 3050 | 4250 | 2300 | Cur limit | 17 | 110 | 1600 | 2100 | 0 1400 | 4000 |  |  |
| EMD | 1000 to 1095 | 1900 | 3500 | 3200 | 3500 | 3300 | 1900 | 2900 | 1900 | 3500 | 1900 | Car limit | t 117 |  | O 1042 | 2000 | $0{ }^{264}$ | 435 |  |  |
| EMD | 1800 to 1824 | 2150 | 3700 | 3400 | 3700 | 3500 | 2100 | 3100 | 2200 | 3700 | 2100 | Car limit | 12 |  | 51140 | － 2150 | 0 1050 | － 3700 |  |  |
| FM | 1300 to 1304 | 1900 | 3500 | 3200 | 3500 | 3300 | 1900 | 2900 | 1900 | 3500 | 1900 | Car limit | t 11 |  | 01050 | － 2000 | － 950 | － 3500 |  |  |
| FM | 1325 to 1329 | 2620 | 6820 | 4180 | 6820 | 4180 | ${ }^{2620}$ | 4630 | 2990 | 4180 | 2620 | Car limit | t 17 | －11 | －1580 | 2250 | 01390 | － 4000 |  |  |
| FM | 1340 to 1342 | 2950 | 7780 | 4750 | 7760 | 4750 | 2980 | 5270 | 3410 | 4750 | 2980 | Car limit | t 20 | 0 | O 1510 | － 2550 | $0-1560$ | － 4000 |  |  |
| F3 | 1300 to 1370 | 25s0 | 6620 | 4100 | 66：0 | 4100 | 2550 | 4530 | 2950 | 4100 | 2580 | Car limit | t 17 |  | 0 1570 | 2170 | O 1350 | 0 4000 |  |  |
|  |  | TEKOA－AYER BRANCH |  |  |  |  |  |  |  |  |  |  |  |  |  | Pleasant valley branch |  |  |  |  |
|  |  |  | $\begin{aligned} & \text { ox } \\ & \text { 关会 } \\ & \text { eve } \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| EMD－GP9－F9 | $\begin{aligned} & 130 \text { to } 244 \\ & 500 \text { to } 542 \mathrm{~B} \end{aligned}$ | 1700 | 4000 | 625 | 4000 | 1900 | 5000 | 4000 | 1400 | 1000 | 1850 | 1750 | 1350 | 2300 | 1450 | 1780 | 3500 | 1575 | 1400 | 2350 |
| EMD－GP7－F7 | $\begin{array}{\|c\|c\|} \hline 100 \text { to } 129 \\ 1400 \text { to } 1496 \end{array}$ | 1700 | 4000 | 600 | 4000 | 1900 | 5000 | 4000 | 1350 | 1000 | 1800 | 1750 | 1350 | 2300 | 1400 | 1750 | 3500 | 1550 | 1400 | 2350 |
| EMD | 1000 to 1095 | 1200 | 3500 | 400 | 3500 | 1500 | 4000 | 3200 | 1150 | 700 | 1500 | 1400 | 1000 | 2000 | 1150 | 1400 | 3000 | 1150 | 950 | 1900 |
| EMD | 1800 to 1824 | 1300 | 3700 | 450 | 3700 | 1650 | 5000 | 3400 | 1250 | 750 | 1650 | 1550 | 1100 | 2200 | 1250 | 1550 | 3200 | 1250 | 1025 | 2100 |
| FM | 1300 to 1304 | 1450 | 3500 | 525 | 3500 | 1700 | 5000 | 3500 | 1300 | 900 | 1750 | 1650 | 1250 | 2250 | 1350 | 1600 | 3000 | 1410 | 1130 | 2200 |
| FM | 1325 to 1329 | 1700 | 4000 | 750 | 4000 | 1900 | 5000 | 4000 | 1350 | 1000 | 1950 | 1850 | 1350 | 2300 | 1400 | 1700 | 3000 | 1550 | 1400 | 2350 |
| FM | 1340 to 1342 | 1000 | 4000 | 850 | 4000 | 2100 | 5000 | 4000 | 1450 | 1200 | 2100 | 2000 | 1450 | 2600 | 1600 | 1900 | 35．50 | 1750 | 1600 | 2500 |
| FM | 1360 to 1370 | 1700 | 4000 | 750 | 4000 | 1900 | 5000 | 4000 | 1350 | 1000 | 1950 | 1850 | 1350 | 2300 | 1400 | 1700 | 3000 | 1550 | 1400 | 2350 |



