Northwestern District

## Oregon Division Special Instructions No. 16

## Effective Friday,

September 1, 1961

Superseding Special Instructions No. 15

Employes whose duties are in any way affected thereby, must have a copy of these instructions with them while on duty.
D. F. WENGERT, General Manager G. H. BAKER, Superintendent

## SPECIAL INSTRUCTIONS-ALL SUBDIVISION

 Rules, special instructions and super
notices also applies to engine herrerr.
 ignated, are not subiect to operating Rule 2, but they must, whily
on duty, have a reiliable railroad grade watch* which must not
 A railroad grade wath is one equipped with a leve
Assistant
Soperintendents of Safety and Courtesy

Assistant Terminal Supts.
Road Foremen of Engines

| Station Agent |
| :--- |
| Operatorg |

Operators
Outside Hostler Helpers
¢tExcept when assigned in offices where standard clock is located.) 2 (S). Train dispatchers need not use watch required by Rulo
2 of Consolidated Code of Operating Rules when assigne in unn gents and Operators assigned in offices where there is a stand rd clock must not wear wrist watch while on duty 2(T). At stations where there is no star sat clock, operator fter commenening each day's, work, but before making time com parisons with other employes.
7 (R). Employes on trains Sinnals engines which operate in terri-
tory where they are governed by the rules of another railroad, tory where they are governed by the rules of another railroad,
must provid themeselves with neesssary 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 train, tram hen wend be crew on hallper eninine
star from rellowing method
When it is not possible to relay signals, the following will be used
Whenread When ready to move, engineer on head end will make 15 -pound
automatic brake pipe reduction, return brake valve to running
nosith sosition and wait three minutes. Engineer on helper engine wil
start three minutes after his gauge shows brake pipe pressuru being restored.
$8(R)$. Yellow flags by day and yellow lights by night will be Proceed signais as will as stop signals given by swo tenders must be answere
8 (S). Electric lanterns may be used by
and operators for displaying yellow lights.
Reduce and Resume Speed Signs

 than indicated by the sign. Example: $60-40-25$ will indicate maxi-
mum speed of 60 MPH or streamline trains, 40 MPH for other
 that the Reduce Speed location has been passed
The entire train must pass over the designated location at tho specirite speed. restrictions will also be shown in time-table or
superintendent's bulletin.
( R ). In addition to locations Whistle Signals eng ine whistle mustbe sounded and bell rung apaproaching privat crossings when view of crossing is obscurd or whentit ang be seen
that persons or vehicles are approaching or in the vicinity of the that pers.
crosing.
17 (R). In territory where there is no joint operation with
unother railroad, Rule 17 (C) of the Consolidated Code of Oper-
uting Rules is modified to read "Oscillating white headlight on engines so equipped must be
 19 (R). On portions of the division where the ars tion of trains with another company, in complying with Operating
Rule 19 (A) at night when 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 to
display red light ${ }^{19}$ (S). Except between Portland and Seattle, where rear car 19 (S). Except between Portland and Seattle, where rear car
of a pasenger train is equipped with an oscillating red rear end
light on which an auxiliary marker is mounted, markers need light on which an auxiliary marker is mounted, markers need
not be displayed as required by Operating Rules 19, D-19, 19
and 19 (A) (B). When such train is clear of main track at night and rcar end protection is not required, the red rear end light must be
oxtinguished and the auxiliary marker must display green light
on oxtinguished and the auxiliary marker must display green light
lo rear. Rear trainman is responsible for proper display of the
uuxiliary marker as well as the rear end light. auxiliary marker as well as the rear end light. applied to cabooses and car booly type units is for emergency
use only and must be concealed except under following condy use onl
tions:
On cabooses so equipped, when electric markers fail at night,
and on units so equipped when rules require displa and marker lamps are not available, red reflectorized disc must be displayed to rear when train is on main track. When train is
clear of main track, except in CTC territory, red reflectorized
disc must be conceled When red reflectorized disc is displayed, red light prescribed by Rule 19 A) need not be displayed.
These instructions apply only on lines operated by the Union Pacific. Conditional Stops
28 (R). A white signal will be used to stan
99 (R). In moving from sliding or other track to a main track $99(R)$. In moving from siding or other trat a trainan must be th
except in yard limits or in CTC territory, a tr
rear of train and where conditions reuire, protection must be rear of train, and where condition
provided as prescribed by Rule 99 .
of "99 (F'). When an empploye alone, finds tract: ${ }^{\text {a }}$.
 or on the engieneer's side of the track, in both directions one-
eighth mile (oo feet) from the point of obstruction. After red
signals are placed he mol eighth are placed, he must go point of of obectioction. and place two
signals
torped ares torpedoes on rail one-half mile from red signal and an additional
set of two torpedoes one and one-half miles from red signal,
hen place torpedoes in same manner in When signals have have been in slaced, flagman must return to point of obstruction, where he must remain until relieved by another
flagman, except that if a train approaches he must go toward it and flas it with hand signals.
"During foggy or stormy weather and in vicinity of obscured
curves or heavy descending grades, or if other conditions malke
it nees cit neecessaray, he must ingrease the distance, placoing two tor-
pedos at every one-fourth mile beyond the second set of tor-
pedoes "On single trackl, or if more than one track is obstructed on
double track, he must go first in the direction from which the first train is expected and, in addition, in case more than one track is obstructed, he must place signals in same manner on all
tracles obstructed, tracks obstructed. On a heavy graie, if it is not known from
which direction a train is first expected, he must place signals
first against trains moving down grade. first against trains moving down grade.
"On double track, if only one track is "On double track, if only one track is obstructed, he must go
first against the current of traffic unless he has information
that a train will arrive first from the opposite direction first against the current of traffic unless he has information
that a train will arrive first from the opposite direction
(Continued on Page 3.)

99 (S) Continued
"If defect in track or bridge is such that it is considered safe
 the red signals, reading: "Train may proceed wh
flagman, but must move at restricted speed."

## Public Crossing

$103(\mathrm{R})$. At public crossings protected by automatic crossing
signals, bells or gates, when a train, engine, or switching mov signals, bells or gates, when a train, eng ine, or switching move-
ment has been delayed or stopped within 1500 feet of such cross-
ing, any further movement, either forward or reverse, toward the crossing must be made at restricted speed until it is determined
that the crossing signals are operating for sufficient time to stop
highey that the crossing signals are operating for sufficient time to stop
highway traffic. In case the crossing signals are not operating for
the movent highoy trantic. In case the crossing signals are not operating for
the movenent, crossing must be protected by a member of the
crew, unless a crossing watchman is on duty.

$$
\begin{aligned}
& \text { W, unless a crossing watchman is on duty. } \\
& \text { When a train, engine or switching moven }
\end{aligned}
$$

rew, unless a crossing watchman is on duty.
When a train, engine or switching movement is to be made
against the normal current of traffic over a public crossing proected by automatic crossing signals, bells or pates, a member of the crew.
on duty.

Riding Leading End of Engines
103 (S). Unless otherwise provided, in switching, when there
are no cars ahcad of the engine, a trainman and not more than
one) must ride on leading platform or side steps of engine in one) must ride on eading parg or
direction the engine is moving. EXCEPTION: Trainman need not ride on front of diesel switch
engine as required by this rule under the following conditions
When the switches to be passed over can be plainly seen to be propery lined;
Where the movement is over a public crossing protected by rossing watchman.

Switches
$104(\mathrm{R})$. Except where otherwise specified, No. 14 turnouts are
installed at all dual control switches in CTC territory. 104 (S). For movement through a spring switch where engine
does not precede the cars, switch must he operated by hand.

Train Order Signals
$200(\mathrm{R})$. Unless otherwise provided, when train order signal
indicates "Stop". (Rule 200 A$)$, trains must stop for orders unless clearance is received. not be kept burning at night in train orde
200 (S). Lights will not signals on branches when operators are not on duty, and trains
must be governed by the day indication of such signals. Train Orders
208 (R). Except at initial stations, when a train'я superiority
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
issued tit. the order must not be made complete to the train
which is being advanced until the operator has placed two torwhich is being advanced until the operator has placed two tor-
pedoes on the rail not less than 1000 feet from the train order
signal in the direction of the resticted train, and the train dis.
patcher has been notified that torpedoes have been placed. In adpatcher has been notified that torpedoes have been placed. In ad-
dition, the restricted train must be brought o atop by operator,
using red flag or red fusee, before the train dispatcher OK's the using, red flag or red fusee, before the train dispatcher OK's the
clearance.
$\underset{\substack{209 \\ \text { orderg. }}}{(R) \text {. Operators must not typewrite Union Pacific train }}$
Gcneral Description of Signals
On the Union Pacific, the home arm of semaphore signal is red
with \&aquane endy the the block signal arm has a white stripe,
the home interlocking arm has no stripe. The approach arm of a he hame interiocking arm has no stripe. .he approarh arm of a and interlockin
home signals.
Stop signals in CTC territory are marked by a plate bearing
the letter "A." the letter "A."
Unless otherwise indicated, where two or more home signals are Unless otherwise indicated, where two or more home signals are
located on the same matt, the upper signal will povern main route
and the lower signal or signals will govern diverging route or
routes.

240 ( R ). Slide Warning Indicator

| Rule | ASPECT |
| :---: | :---: |
| $240-\mathrm{R}$ | Fsichtor |
| SLIDE WARNING INDICATOR <br> (To apply to trains overned by fixed <br> signal to which connected) <br> ILLUMINATED |  |

NAME OF INDICATION - SLIDE WARNING When lock signal indicates Stop (Rule $240-A$ ) and illu-
minated "."" is displayed on slide warning indicalor, train or engine may, after stopping, moceed at restricted speed to next engine may, after stopping, proceed at rest rictead speed to next
signal without sending flagman aheud, , ut ceeping close loolout
for rocks or other onstructions, brolven, bent or danaged rail.

## Use of Sand

247 (R). In moving over CTC, dual control, remote or spring
switches, to avoid dcpositing heavy accumulation of sand on rail, automatic sanding device must be nullified passing fouling point.
When tonnage and gradient requires use of sand to avoid slipping,
hand send hand sanders may be used

## Centralized Traffic Control System

$267(\mathrm{R})$. Where movement is entirely in CTC territory, trains
need not receive Clearance Form A. A train or enginc must not enter CrC territory unless author-
ized by Clearance Form B o F Form C except for yard movements.
Cle Clearance Form C must be received to authorize track and time
limits in aceordance with Operating Rule 271. Clearance Form C must also be reccived to authorize a train or encine e proceed
from a Sotor indication as provided in Operating Rule 269 exeept
Rhen from a Stop indication as provided in operating Rule 269 except
when movement is leaving main track or leaving CTC territory or
for movement entirely within yard limits.
269 (R). In CTC territory, when flagging from a Stop signal in accordance with Rule 269 , train or engine must not pass next point
of communication except on signal indication or further authority of communication excee
from control operator.
275 (R). After passing a signal governing movement over a
dual control switch, if train or engine stops before entire movement has passed next opposing sirnal and it is necessary to make
a reversc movement, a momber of the crew must so advise dis-
patcher. Dispatcher must block switch and signal levers and nust not
change position of the switch, clear a signal for a conflicting vereally by a member of the crew that his train has backed clear of
the insulated joints at the signal.
After having made reverse movement under these circumAfter having made reverse move
stances, no forward movement may
indication or as provided by Rule 275 .

275 (S). When necessary to perform switching over dual control
switch as provided in Operating Rule 275 (A), first move, when possible, must be made on signal indication.
275 (T). When communication fails and it is necessary to band ond
be afforded in both directions when required, and switch must not
be operated until three minutes after selector lever has been



## Indication-Proceed pre ceeding 40 miles per hour.

453. Name--Clear.

Indication-Proceed


Rules
454. Automatic Cab Signal. System supplements automatic
Hock signals in governing the use of books, , hut doos not tupersede the superiority of trains, nor dispense with the observanco
of rules governing the use of automatic block or other signall and prescribed by Rule 456 .
455. . hen cab signal indication changes to a more restric
456. When a train is proceeding after having been stopped by tion, train may pab siged in achanges to a less restrictive indica-
after it bas moved its length beyond poith indication received
phere cab signal aither it Exception: Rule 456 does not apply when proceeding after
having been stopped by a flashing red light on a block signal. 156 (R). Automatic Cab Signal Rule 456 does not apply when a
train is proceeding after having been stopped by block signal governing movement through a block in which slide warning de-
tector fences are located. In such entor fences are located. In such case, movement through the
entire bock must be made at restricted speed regardless of the
fact that the cab signal changes to a less restrictive indication. 157. 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 When cab signal indication does not corresnond with block
signal indication for two consecutive blocks, cab signal may be
considered inoperative. If previous advice has been received from considered inoperative. If previous advice has been received from
train dispatcher or bv bulletin of inoperative cab signal within
dind train dispatcher or bv bulletin of inoperative cab signal within
designated limits, train must proceed within those limits in ac-
cordance with second and third praragraphs of Rule 458 . cordance with second and third paragraphs of Rule 458.
458. When a cab signal device becomes inoperative, train may
proced in 458. When a cab signal device becomes inoperative, train may
proceed in accordance with block signa indications but not ex-
ceeding 40 miles per hour to the next available point of communiceeding 40 miles per hour to the next available point of communi-
cation where report must be made to train dispatcher, who will
instruct as to cutting out cab signal devices and further movement of rain.
ment
When
 While so proceeding, if trian encounters a block signal display-
ing Stop or Stop-and-Proceed indication, or light not burning on
a block a block signal, train must stop. After stopping, train must wait
for changeof signal indication and if the signal does not hange
to a less restrictive indication within three minutes, it may be astor aless restrictive indication wind in three signal doses it mot change as-
sumed that the block signal is inoperative and the train may pro-
ceed complying with the block signal indication.
4n9. When necessary to use a non-equipped engine on a pas-
senger train, movement must be same as with engine with in-
而 onerative cab signal
graphs of Rule 458 .
460. When equipped engines are double-headed, all but leading
engine must have cab signal devices cut out 461 Win
461. When engineer takes charge of an equipped engine in cab
sitnai territory or enters cab signal territory, he must know that
cab signal devices are cut in. cab signal devicese are cut in.
Operative tests must be made by engineer before entering cab Operative tests must be made by engineer before entering cab 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 of cut-out nosition is prohibited when operating within
cab signal territory except when authorized.
When seals on cab signal devices are broken, or found broken When seals on cab signal devices are brol
or missing, report must be made promptly.
463. Cab signals will not indicate conditions ahead when the
engine is:
(a) Moving against the current of traffic.
(b) Pushing cars.
(b) Pushing cars.
(c) Not equipped for backward running and is running back-
ward. 464. If the cab warning whistle sounds longer than 6 seconds,
the fireman, or a t trainman in the cab, must gotot the engineer immediately 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 comchanges to
plied with. Block Signals
509 (R). Referring to Operating Rule 509 ;
signals are in service

509 (R) Continued
when a train is stopped by a Stop indication. flagman must be sent
ahead unless traek aheaid is scen to be clear through to the next cear signal. Train or engine must wait ten minutes after a flag man has started and may then proce
ing flagman to the next Clear signal
Flagman may be picked up if a point is reached from which
track ahead can be seen to be clear through to the next Clear
509 (S). Where lower quadrant semaphore type signals are in service, a train or engine proceeding under the tre provisions of
Onerating Rule S-509 must proceed at restricted speed to the next
Clear signal Clear signal.
509 (T). When a slide warning device plug is found pulled or
controler onerated but no obstruction on or damage to track is
found the nlua must be replaced if practicable or controller reontroller operated but no obstruction on or damage to track is
found, the pluy must be replaced, if practicable, or controller reset by denressing "Re-set" button, and conducter must make re-
port to train dispatcher from first stop or first open telegraph
office.
office.
f10 (R). If a block signnal fails to display its most restrictive
indication when a block is occupied or when a switch connected indication when a block is occupied or when a switch connected
with watometic block signal system is changed from its normal
position, it must be regarded as displaying a Stop indication. A with automatic 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 sto all
mind member of the crew must be left at signal and he must stop all
trains movin in the direction governed by that signal and inform
them of false-clear indication. Flareman must remain there until them of false-clear indication. Flagman must remain there unt
celicved by an employe of Signal Department or by instructions cliceved by an emplo
fom propcr of ficer.
A train or engine with no brakrman must place a red flag in
center of track opposite the signal; then in hoth directions l lace two tornerdons one-half mile from red signal and two torpedoes ne and one-half miles from red signa In all cases, train dispatche
able point of communication.
512 (R). Trainmen must observe indication displayed by track $\Lambda$ switch must not be opened to permit a movement to man $\Lambda$ switch must not be opened to permit a movement to a main
rack when Occupied indication is displayed, unless the movemen sproperly protected.
Indication displayed by track occupancy indicator is not author y for a train or engine movement. 5114 (R). In complying with Oncrating Rule 514, on single track,
outside of vart limisis, a flagman must the sent ahead unless track seen to be clear to next signal ard that signal is displayin
lear indicatio
611 (R). At interlocking stations where there is also a train
order signal, train order signal must indicate Stop until after terlocking signal has been changed to permit a train to procee 663 (R). In complying with last paragraph of Rule 663 , move-
ment must be made an seeseribed hy Rule 509 on single track or as
prescribed by Rule 240 - ${ }^{2}$. rescribed by Rule $240-B$ on double track.
702 (R). Employes Actions Wbile nom Duty not sleep while on duty
Passengers on Freight Trains
711 (R). The following passengers only may be carried
Persions in charge of live stock or other freight when pro
vided with proper transportation:
vided whes of Union Panspportation;
Employes of Union Pacific Railroad with annual pass when
traveling on company business requiring use of freight
trains
trains;
ther per
tic
ther persons with annual or trip pass only when endorsed
"Good on Freight Trains";
Passengers holding revenue tickets with permit issued by
superintendent. Agents and conductors must notify passengers, stockmen, mes-
engers and caretakers that they must ride in the place provided sengers and caretakers that they must ride in the place provide
for them and must not get on or off caboose, drover cars or other cars while train is in motion, and that in all cases the train will be stopped at designated points for this purpose.

Exchanging Signals and Inspection of Train
713 (R). Where Operating Rule 713 or Special Instructions re-
quires a trainman te be stationed on rear of train in position to
quires a trainman to be stationed on rear of train in position to
ive 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 he must be on rear platform or in rear door, or if rear car is a
business, dining or observation car, he must be on front thatform
of rear car or rear platform of car next ahead, and top half of of rear car or rear. plat or orm of car next ahead, and top half of
vestibuld door must be onen.
713 (S). When stop is made by a passenger train due to some condition affecting the equipment of that train, a thorough in-
spection of the train must be trate ${ }_{7} 73$ (T). Leaving designated inspection points, a trainman must
be at head end of train and make careful inspection of train as it
 nated 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 starts.
713
( U$)$ 713 ( U ) . In complying with the third paragraph of Operating
Rule 713 (C), when starting from initial station and intermediate Rule
stops, freeight when trans must not exceed a s staeed of 6 . MPH for the the
first train length or until proceed signal is received from trainfirst train length or until proceed signal
man. 713 ( V ) On freight car wheels, flat spots two and one-half
inches longer, or if there are two or more adjoining spots each
twh inchen
 turbine or disesel locomotives two inches or longer, are condem-
nable and when discovered in train, conductor or engineer must
immediately renort to train dispatcher and be governed by his nable and when discovered in train, conductor or engineer must
immeldiately report to train dispatcher and be governed by his
instructions. instructions.
713 (W). As soon as hot box is detected, train must he stopped
and no attemnt made to tun to next siding to set out car without
making an inspection before proceeding making an inspection before proceeding.
When a car is set out account
cxtringuished. Dirt, gravel or snow must, all fire in hox must be
at back end over top of dust ruard ratainer on top of box ar back end over top of dust yuard retainer opening. If dry chem-
ical fire extinguisher available, contents of one bar should be
thrown thrown into journal box and lid contents of one one bag shonld be fre extinguished, and any remaining fire therein extinguishell. Pad lubricator must Conductor must make thorough inspection of car body before and after attention
danger of fire.

> High and Wide Cars ndine

714 (X). Trains handling cars or loads of excess height or in
excess of i2 excess and where overhead or side clearance is dor close clear-
ances and
ment ment must be stopped and adequate protection provided.
Cars of ex switched with except in placing them in and taking them out of trains. In switching movements such cars must not be cut off
while in motion, but must be shoved to a stop. No one will be permitted to ride on top of such cars
Loads of excess width must not be stored on nor moved over
yard tracks where clearance is insufficient unless there is an in tervening track between trains or crars containing loare is an of excess
ters.
width. No one will be permitted to ride on the side of sueh cars. Unless otherwise instructed, cars of excess width or height must be handled in head end of train.
Trains handling wide loads
Trains handling wide loads must obtain meeting or passing
order with other trains handling wide loads at stations where they
will have a track between them. When a train w whicheen thanding a wide load is notified by train
order of another train handling a wide load, the train dispatcher order of another train handling a wide load, the train dispatcher must be notified so that meeting or passing point can be arranged.
Crews of trains receiving notice of wide load in other trains
must inspect their train for open or swinging doors or anything must inspect their train for open or
projecting beyond normal clearance.

nust not be permitted to stand over open flammable commodities stop is made with such cars standing over open flame heater flat. If 726 (S). Cabooses, out cars or stoves with fire burning, must be placed in yards or at stations
where the danger of fire is minimized to where the danger of fire is minimized to the greatest extent
practicalole. Such cars must not be left unattended on bridges
for extended periods of time.

 tions and instructions governing the handling of them.

Placards on Cars
BE 589 (b). A car requiring car ceartificates and " Explosives,"
Dangerous," "Dangerous.Radioactive Material", "Poison Ga
 Gas, or "antion-Residual Phosphorus" placards under the pro-
visions of this part shall on be transorted unless such freight
car is at all times placarded and certificated as required. Platcar is at all times placarded and certificated as required. Plaw-
ards and car certit facates lost in transit shall be reppaced at nexxt
and ards and car certit facates lost in transit shall
nspection point and those not required shal
next terminal wherere the train sis classifified.
BE 589 (b). (1) At points where trains are inspected, cars
placarded "Explosive", and adjacent cars shall be inspected; placarded Explosives" and adjacent cars shall he inspected;
such cars shall continue in movement olly when inspection
shows them to be in condition for safe transportation. Switching Cars Containing Explosives, Poison Gas, or Flammablo
Poison Gas or Placarded Trailers on Flat Cars
 carded "Explosives", "Soison Gas," "Dangerous," or "Dangerous-
Radioactive Material" shall not be cut off while in motionol
car moving under its own momentum shall be allowed to strike car moving under its own momentum shall be allowed to strike
any car placarded "Explosives," reoison fas," or "Flammable
Poison Gas," or any flat car carrying a trailer placarded "E:xplosives," "Poison Gas"" "Dangerous," or "Dangerous-Radioac-
tive Material," nor shall any such car be coupled into with more orce than is necessary to complete the coupling.
BE 589 (c). (1) When transporting a car placarded "Explo-
sives" in terminals, yards, side tracks, or sidings, such cars shall si separated from, the engine by at least one non-placarded car.
BE 589 (c). (2) Closed cars placarded "Explosives" shall have
doors closed before they are moved.
Switching of Cars Containing Dangerous Articles
BE 589 (d) In switching operations where use of hand
is necessary, a placarded loaded tank care ouse of hand braktes
cludes a placarded loaded tank car shall not be cut off unth m-
mcludes a placarded loaded tank car shall not be cut off until the
preceding car or cars clear the ladder track and the draft con-
taining the placarded loaded tank car, or a placarded loaded tank taining the placarded loaded tank car, or a placarded loaded tank
car shall in turn clear the ladder before another car is allowed
to follow. car shall
to follow
BE 589 (d). (l) In switching operations where hand brakes
are used, it shall he determined by trial that a car placarded are used, it shall he determined by trial that a car placarded
"Dangerous" or that a car occupied by a rider in a draft con-
taining a car placarded "Danerous" has its hand brakes in
proper working condition before it is cut off ore it is cut
Placement of Freight Cars Containing Expl
BE 589 (e). Cars placarded "Explosives", shall be so placed
hat they will be safe from all probable danger of fire. that they will be safe from all probable danger of fire. Freight
cars placarded "Explosives" shall not be placed under bridges
or overhead hichway crossings nor in or alongside of passenger or overhead highway crossings nor in or alongside of passenger
sheds or stations except for loading or unloading purposes. Notice to Crews of Cars Containing Explosives in Freight Trains
BE 589 (f). At all terminals or other places where trains are
made up by crews other than road crew accompanying the out-
hound made up by crews other than road crew accompanying the out-
bound movement of cars, the railroad shall execute a consectitively numbered notice showing the location in the freight train
or mixed train of every car placarded "Explosives. A copy of
such notice shall be delivered to the train and engine crew and opy thereof showing delivery to the train and engine crew shal
be kept on file by the raiload at each point where such notice is given. At points where train or engine crews are changed, the

Position in Freight Train or Mixed Train of Cars

than the sixteenth car from both the engine or occupied caboose, (1) When the length of freight train or mixed train will not
permit permit it t
the train. (2) When transported in a freight train made up in "blocks"
or classifications, a car placarded ""Xplosives" shall be placed
near the middle of the "block" near the middle of the "block" or classification in which moving,
but not nearer than the sixth car from both the engine or oc-
cupied caboose. (3) When transported in a freight train or a mixed train performing pickup and/ ors both the engine or occupied caboose, ex-
than the second car from bial cept as provided in paragraph (1) of this section.

Separating Cars Placarded "Explosives" From Other
BE 589 (h). In a freight train or a mixed train either standing
or during transportation thereof, a car placarded "Explosives" or during transportation than
must not be handled next

1. Occupied passenger car; except as provided in . Occupied combination car; except as provided in paragraph 3. Any car placarded "Dangerous" or "Dangerous-Radioactive
2. Engine. Elacarded "Poison Gas" or "Flammable Poison 6. Wooden under frame car (except on narrow gauge rail7. Loads) fadat car, excent that cars, carrying trailers or conulation in this chapter may be coupled to each other. (Note: Flat cars equipped with permanently attached ends of rigid
construction shall be considered as open-top cars. See sub-
3. paragraph (8) of this parararaph.)
car ends or when any of the ladro
ends is liable to shift so as to protrude Car equipped with automatic refriperation or any other ap-
paratus utilizing an open-flame light or an internal compuation engine in ins operation.
Car containine lighted heater
4. Car containing lighted heaters, stoves or lanterns.
5. Car loaded with live animals or fowl, occupied by an at-
6. $\begin{aligned} & \text { tendant. } \\ & \text { Ocupied caboose except as provided in paragraph (1) of }\end{aligned}$
the Position in Train of Loaded Placarded Tank Car
BE 589 (i). In a freight train or a mixed train, except consisting entirely of placarded loaded tank cars and as pro-
vided in paragraph (j) of this section, a placarded loaded tank vided in pararraph (j) of this section, a placarded loaded tank
car shall when the liength of the train permits, be not nearer
than the sixth car from the engine occupied cabose Beng 589 (i) (1) When the length of the freight train or mixed
BE train will not permit it to he so placed, it shall be not nearer
than the second car from the engine, occupied caboose or pas-
senger car senger car.
BE 589,
in "nick in "pickup" or "setof"" service, a placarded loaded tank ear shall
be not nearer than the second car from the

Separating Loaded Tank Cars Placarded "Dangerous" BE 589 (j) In a freight train or mixed train either standing or
during transportation thereof, a placarded loaded tank car must

1. Occupled passenger car, other than cars oceunied by gas
 2. Occupied combination car, other than cars occitpied by gas
2. Anylers and arthorized personnel accompanying shipment.
3. Any car placarded "Explosives,"
4. Fngine or occupied caboose, (except when train consists
only of placarded loaded tank cars).

Fngine or occupied caboose, (except when train consists
only of placarded loaded tank cars).
(Continued on Page 7.)

## 727 (R) Continued

5. Any.," car placarded "Poison Gas" or "Flammable Poiso
6. Wooden under-frame car (except on narrow gauge rail
roads).
7. Loaded flat car, other than specially equipped cars in trailer-on-flat-car service or flat cars loaded with tructs
or trailer bodice which are secured by means of a device
designed and permanently installed for that purpose and designed and permanently instalted or or that purpose and
of a type generamly. acceptel for handing in interchange
between railroads. (Note. Flat cars equipped with permabetween railroads. (Note: Jiat cars equipped with perma-
nently attached ends of rigid construction shall be consid
ered as open-top cars. See subparagraph (8) of this paraered as open-top cars. See subparagraph ( 8 ) of this para-
graph.) Open-top car when any of the lading protrudes beyond the
car ends or when any of the lading extending above the ends. Cauipped with automatic refrigeration or any other ap-
8. Car equipped with automatic refrigeration or any other ap
paratus utilizing an open-flame light or an internal com-
bustion engine in its operation.

Duation engine in its operation.
10. Cart containing lighted heaters, stoves, or lanterns, except
when occupied by gas handlers or autloorized personnel ac-
companying shipment.
11. Car loaded with live animals or fowl, occupied by an at-
tendant.
Position in Freight Train or Mixed Train, of Cars Placarde
"Poison Gas," "Flammable Poison Gas," or Containing
Poison Liquids, Class A.
BE 589 (lc). In freight train or mixe train either standing or
during transportation therroof, a car placarded "Poison Gas," Luring transportation thereof, a car placarded ""oison Gas,
"Flam orable Poison Gas" or ortaining poison liquids, class
shall not be next to other freight cars placarded "Explosives shall mot be next to other freight cars placarded "Explosives
or cars placarded "Dangerous." Position in Freight Train or Mixed Train of Cars Placarde
"Explosives" or "Poison Gas, or Both, and Cars Placarred Flammable Poison Gas" When Accompanied by Cars
Carrying Guards or Gas Handling Crews

 when the car occupied by guards or gas handling crews is
equipped with a lighted heater or stove it shall be the fourth
car behind a car or cars requiring "Explosives" placards.
Cars Containing Explosives, Poison Gas, or Flammable Poison
Gas and Tanks Cars Placarded "Dangerous" in Passenger
 or flammable oroison, gas, and tanlc arar requiring "Dangerous"
placards shall not be transported in a passenger train. Such car may be transported in mixed trains but only at such times and
between such points that freight train service is not in operation BE 589 ( m ) (1). Cars containing explosives, class A, poison
gases or liquids, class A, or flammable poison gas, and tankt curs
 placarded Dangerous shall not be trunsported next to occup pied
cabooses or carr carving passengers in mixed trains, except as
provided in paragraph (l) of this section.
BE $589(\mathrm{~m})$. (2) When a car containing explosives, Class B,
r dangerous articles other than explosives requiring labels (not or dangerous articles other than explosives requiring labels (not
including Class A poison gases or liquids) is moved in a mixed
train and such car is not ocupied by an employe of the carrier
placards must be applied to the car as required by this part.
Position in Train of Cars Containing Class D Poison
BE $589(\mathrm{n})$. In a freight train or mixed train either stand BE 589 (n). In a freight train or mixed train eit her standing
or during transportation thereof, a car placarded "Dangerousded "Ex Material must not be handled next to cars plac-
film.

> Empty Tank Cars nust not be mived

Empty tank cars must not be moved from stations unless dome cover and all outlet eaps have been replaced and wrenched
tight, shipping tags and cards removed from car and "Danger.
ous" placards removed or replaced by "Dangerous-Empty" ous" placards removed or replaced by "Dangerous-Empty"
placards.

734 (R). Power Power Transmission wires carrying 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.

## 741 (R). Helper lingines

741 (R). Helper engine on passenker train must be coupled
ahead of road engine. Fassenger trains must not be pushed from
the crar exxent in case of emerergency or other unusual circum-
stances and then tor no Stancess and then for no greatier distance or than in nee nessanary.
On freight trains when engine consisting of not more thed on thead end of train, helper
ahead of caboose and when train be cut in in
Speci ndes cars desimnat in ahead of caboose and when train includes cars designated in
Special Instructions 806 ( R ), helper engine must be cut in ahead
of them Hem.
Helper engine consisting of more than three units must be cut
in head of the tonnage for all units in excess of three units. When neecsssary to use seond helper engine, helpere nengine con-
sisting of the larger number of units must be cut in ahead of the
tonnage of the rear hclper.
Handling. Derricks
805 (R). When handing dertick 90009 there must be at least
five cars between derrick and loconotive, or between derrick and any cars weighing more chan 240,000 pounds gross.
Position of Cars in Trains
806 (R). Cars designated below must be handled in rear of nd next to caboose in the order named:
Drover cars, occupied or unoccupied;
Wooden underframe cars;
Any car unsafe to be handled in head end of train;
Cars with emergency couplers;
Cars taged "Handle Only at Rear End of Train"
806 (S). Does not apply on Fifth Suldivision. See Special Instructions 10s9. 1 ) page 18 .
Except on Train No. 12, , 1 Iat cars 65 feet or more in length
used in rail trailer service, loaded or empty, must be entrained on rear of train but ahead of cars listed in Special Instruction
$806(R)$. When helper engine is used at rear of train, helper must $806($ RR). When helper engine is
be cut in ahead of such flat cars.
806 .
806 (' C ). Snow plows handled in freight trains must be placed
behind cabose and must have air brakes operative and must be securely chained to caboosc, except when equipliped wh
at both ends, they may be handlecl ahead of caloose
806 (U). Open top cars containing pumice, earth, chips, sand, entrained not less than ten car's, number of cars permicting, ahead
of caboose, to avoid this material tlying and of cabore, cusing injuries. In addition, cars cuntaining any of the
trave or commodities should be separated by three cars, number of
abo cars permitting, to avoid the various commodities contaminating
each other, and not less than thrce cars, number of cars permit-
ting, ahead of open top cars containing machinery. $806(\mathrm{~V})$ ) When
806 (V). Wherr movement is entirely over the lines of the
Union Pacific Railroad, outfit cars may be handled in head end
of train.
Cenc must be exercised to insure that outfit cars which are Care must be exercised to insure that outfit cars which are
stencilled or tageded for handing only on rear of traiin, or which
under other provisios of Special Instructions 806 (R) must be handled at rear of train, are so handled
806 (W) Restrictions contrixined in Operating Rulc 806 (A)
moliviting handling of open top cars loaded with certain types prohibiting handling of open top cars loadded with certain types
of lading next to engine or caboose do not apply to trailers on
flat cars.

Diesel Units Dead in Train
 nion Pacific road-switcher units of Alco, Balidwin or Fair-
banks-Morse type, to be moved dead in tran m must be separated
from each other and from the engine by not less than fin fron each other and from the engine by not less than five cars
and must beentrained not more thlan so cars behind the ontrol
unit. Waybill instructios must be carefully checked and unless modifed in writing must be complied with. In the absence of inn-
structions relative to speed, a speed of 5 MPH must not be
erceeded witt exceeded with yard-switcc
type units dead in train.

Cars Partly Loaded or Unloaded 810 (R). All persons are prohibited from riding in cars whil
being switched, which are in the process of being loaded or un-
loaded. Part loads will not be switched unless loaded. Part loads will not be switched unless properly brinen
down or properly braced to prevent contents falling and beink
damaged. Before switching with or moving cars which are in thu amage Before switching with or moving cars which are in tho
process of loading or unloading, persons working in or about the
cars must be notified and trainmen and yardmen must see that are are not switched with until cars are vacated. When such cars are moved, they mus
otherwise directed.
810 (S). In terminal yards, road engines, trains rents approaching leads, must stop before fouling lead unless is know that switches are propery lined and lead is clear.
Before a train starts out of yard track, brakeman will preced
the movement to a point where it is known route is clear. movement to a point where it is known route is clear.
810 (T). Extreme care must be used in counling to flat cars
ontaining rail trailers or op op top cars loaded with motor
ohicles. They must not be switched with unnecessarily. In vehicles. They must not be switched with unnecessarily. In
switching operations such cars m must not te cut off while in mo-
tion and allowed to strike other cars, nor may other cars be cut tion and allowed to strike other cars, nor may other cars be cu
tf while in motion and allowed to strike such cars. Running switches must not be made with flat cars. containing
ail trailers or open top cars loaded with motor vehicles. Securing Cars
813 (R). Each passenger unit with cont
ochain whecl block for emergency use.
When necessary to set out a car or a unit ween terminals, in addition to applying hand hassenges as rain quired by the rules, wheels must be blocked using these chai

821 (R.) Engines must not be moved over live rails of track
cales 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 platform of track Cars to be weighed must be stopped on scales and uncoupled at
both ends while being weighed, except on scales equipped with automatic weighing device.
Cars must not be violenty stopped by impact, sudden applica Ho of brakes or by blocking wheils. After cars are weig hed, the
must not be moved over live rails if possible to avoid it. Whe making impact with cars on scales, speed must not exceed. 2 MPI
and 4 MPH must not be exceeded over sales in any case. Cars on live rail must not be moved by other cars or enginee
noving on dead rail, or vice versa. Cars must not he moved over
cale with one truck on live rail and other truck on dead rail Handling Cabooses
82 (R). Caboose track switches must be kept lined and locked
or runing llad, except when moving in or out of caboose tracks Extrome care must be used in coupling to cabooses and in switch-
ng with them and they must not be switched with unnecessarily.
cabooses must not be Caby with them and they must not be cut off train white in motion and in issaritch.
ing operationt must not be cut off while in motion and allowed to
in ing operationis must not be cut off while in motion and allowed to
strike other cars, nor may other cars be cut off while in motion
and and allowed to strike a cahoose.
Before coulling to caboose on caboose tracks, supply employes

824 (R). When coupling an engine or cars to passenger equipis made. coupling to cars standing on grade, slack must bo stretched and it must be known that air brakes are fully charge
before releasing hand brakes.
After coupling a tight lock coupler to any coupler, it must b After coupling a tight lock coupler to any coupler,
seen that knuckle is securely locked in closed position. When coupling other type coupler to tiight lock coupler, knucklo
on tight lock coupler must be closed and knuckle on other coupler on tight lock coupler must be closed and knuckle on other coupler
must be open, to be closed by impact of car.

After cars are coupled, tight lock couplers must be inspected to
Bee that tell-tale hole is visible just below bottom of coupler head Bee that tell-tale hole is
and that
$920(\mathrm{R})$. Referring to Operating Rule 920 and to Air Brake
Rule $1001(\mathrm{~A})$ : At terminals where mechanical forces are employed, the Me-
chanical Department will be responsible for knowing, when an curine is seto out fort serviliee that it it in in food working, when and
is adequately furnished with fuel, water, sand and other supplies Mcluding flagging equipment and signal anpliances. Enginemen
vill not be required to make inspection of engine at such points, iwin not be required to make inspection of engine at such points,
cxcept for inspecting and testing air brakes as required by Spe-
cial Instruction Engine crews will leave roundhouse or designated track promptIy when engine is available.
$y 22(\pi)$. Engineers musut permit any unauthorized person 922 ( R$)$. Engineers must not permit any unauthorized person
to hancle the locomotive. The fireman, when competent may
handle the locomotive when in road freight service under the Tanale the locomotive when in road freight service under the
close supervision of the engineer, the engineer being responsible.
The fireman must not be permitted to handle the locomotive in yard service or in road passenger service, except in case of 922 (S). Rear view mirror of engines so equipped must not be
used for observing conditions or hand signals in making backup or switching movements or in making couplings.
922 ( T ). Locomotive must not be left without a man in charge, except at designated places and under authorized conditions. Loco-
motives must not be left standing so they will block or foul admotives must
jacent tracks.
When locomotive coupled to cars is left unattended, hand brakes
must be set on not less than ten cars, or on all cars in must be set on not less than ten cars, or
motive 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 remed handle must be placed in neutral position anition, generatorer, fineswith pulled and hand brake set on each unit, and it must be
snown that there is the required brake cylinder pressure. 928 (R). On locomotive equipped with
928 (R). On locomotive equipped 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 each trip, by using watch to make time check between mile posts.
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 specd is constant be-
then should me exests, and, when possible, speed should be 30 MPH
tween mile por
or over or over.
When check indicates speedometer is not registering correctly,
wire report must be made to train dispatcher. 928 (S). When standing at ins Locomotives yards and at engineers must get on ground and inspect both sides of their
locomotive. This applies to both passenger and freight trains, and to any type of locomotive. Units in Multiple
928 (T). Diesel units operated in in multele
$(1400$ ) , F-9 intermixed with F-7
(500), GP-7 or GP-9 units mast be positioned with an $(1400)$, F-9 (500), GP-7 or GP-9 units mast be positioned with an
$\mathrm{F}-7 \mathrm{or}$ ( GP , operating as control unit. Short time ratings of con-
trol unit must not be exceeded.

Shutting Down Engines of Diesel Locomotives
(R). When diesel switch locomotive is to be ide of 30 minntes, engine must be locomotive dis to be idle in excess motines must be shut down. Exeception: 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 to be placed over exhaust stacks. turbine and its auxiliary engine are shut dive are shut down, or turbine and its auxiliary engine are shut down, air brakes must
be fully applied and, in addition, front and rear of a traction

929 ( R ) Continued.
wheel must be blocked, hand brake applied on each unit, and suf-
ficient hand brakes must be applied throughout the train to pre vent movement should air brakes leak off.
During freezing weather, when diesel During freezing weather, when diesel engines are shut down,
cooling water must be drained to winter level and, if necessary o 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 ituations where the exhaust gases are being carried away from
he train by air currents, or where proximity to tunnel openin would make it unnecessary to shut off these engines. Safety of
passengers and members of the crew must be the first considera passe
tion.
$930(R)$. Doors of high voltage cabinets $m$ adjustments must not be attempted nor made in high voltag adjustments must not be attempted nor made in high voltage
cabinets of diesel locomotives until engine has first been isolated
and stopped and units have come to a atop.
930 ( S . When a locomotive consisting of two or more units without cars, if unit at teach end is equigped with contween station
motive must be operated from leading unit in direction of move motive must be operated from leading unit in direction
ment unless the movement is protected by a trainman.
${ }^{930}$ (T). When diesel units are operating with less than ful more of the motors at any time enroute, train dispatcher must be notified at first stop or first open telegraph of fice.
930 (U). When necessary to break seals on equipment and con-
trol lockers on diesel road units, notation must be made on en ginecr's work report with explanation of necessity for breakin gineals.
seal
and
930 (V). On diesel and turbine locomotives in road service, not more than five men must ride in control cab.
Unauthorized persons, including deadhead train and engine
men, must not occupy cab of trailing unit of diesel locomotive men, must n
any train.
930 ( W )
930 (W). On diesel locomotives, side and end dors of engine
9oms must be kept closed while the locomotives are moving. 930 (X). Care must be exercised to avoid excessive use of emer-
ney electric heaters are provided to temporarily keep cabs warm in deplete the batteries in a matter of two hours or 1ess, which would result in failure of all units. Enginemen should beart this in mind
and not use these clectric heaters excessively and deplete the hatteries. Under no circumstances shall a derailed locomotive be pulled back on the rails by its own power; as
equipment may result if this is attempted.
Track Restrictions
934 (R). Fighty-five-foot trailer flat cars must not be handled on curves of 16 dearrees exceept as follows:
Where movement is authorized by an officer, these cars may be
hndled on curves of more than 16 degrees but not uxceeding 20 handled on curves of more than 16 degrees but not exxeeding 20
degrees at speel not exceding 4 miles per hour. A member of
drew must watch movenent closely, preparet ot pive sto signal
if any indication of failure to safely negotiate the curve. Par-
in creve must watch movement closely, prepared to pive stop signal
if any indication of failure to safely negotiate the curve. Par-
ticular attention must be given to ateral movenent of coupier, as
tcitian critical point of movemunt on curve develops when coupler ap-
proaches maximum lateral movement permitted by coupler opening.
Overhing at end of these cars is greater than on other cars and
clearances must be watched closely when handling on curves in
exess as (S). Pile driver 900321 weighing 222,200 pounds, may be
exceess of 11 degrees
9ndled on all branch lines except between Hooper Jct. and Conhanded on annel Branch.
nell on Con ex ${ }^{\text {Whandling pile }}$. driver 900321 , or a car weighing 200,000
pounds gross over Bridge 17.23 at Riparia, there must be at least pounds gross over Bridge 17.23 at Riparia, there must be at least
four cars between such car or pile driver and engine or betweenn
such car or pile driver and any car weighing more than 160,000
pounds gross.

When handling derrick 900309 there must be at least five cars between derrick and 240,00 ive, or betwee
weighing more than 240,00 pound gross.

1001 (R). Engineer Air Brakes
gine ho use or from spot track that adequate air pressure is being
maintained A.pplication and release teat of equidement is functioning properly. and in addition to noting brake cylinder pressure on gauge, visual
inspection ust be made to know that brakes apply when inde-
pendent brake valve is is in application position. Hand brakes must pendent brake valve is in application position. Hand brakes must
be released on all units before engine is moved. When operating a light engine, running test of independent
brake must be made immediately after movement is started. When brake must be made immediately after movement is started. When
back-up movement of a light engine is protected by an employee back-up movement of a light engine is protected by an employee
using back-up hose, running test of brakes must be made with
back-u hoseimmedin Engines must be stopped before moving onto a turn able and Engines must be stopped before moving onto a turn-table, and
before entering enginehouse or servicing facilities where elevated tracks or pits are used.
At locations where
At locations where units are cut into or out of a locomotive, it
must be known that air brale hoses are coupled, that air is cut in
and that brakes are operating properly on all units before any and that brakes are operating properly on all units before any
movement is made. At terminals where hostler relieves inconing engineer, brakes
must be tested with indlependent brake valve immediately after ocomotive is detached from train to insure that brakes are operating properly
Novemen
Movement of locomotives at engin chouses, servicing or mainte-
nance facilities must not exceed 5 miles 1005 (R). Air Brake Rule 1005, standard brake pipe pressures, Class of Service
Freight, mixed trains and branch line passenger trains....... 90 $1024(\pi)$. Air brake compunies have modified bralke pipe cutWith old type valve, when necessary to change from "freight"
Wervice position to "cut-oue test, it is necessary to move thorugh "pas-
bralke pipe leekage
senger" senger" position. This is also true when changing from "cut-out"
position to "freight" Wosition to "reight position.
With the modified value, change from "freight" position to
"cut-out" position, or the reverse, is made without going through passenger position.
Engineers on locomotives equipped with 26-L type bralce
equipment must determine which type valve is on that purticular equipment must determine which type volve is on that perticular
unit, mand be certain that brake p pipe cut-off valve is in "freight
position before moving train, unless operating in passenger
 must be operated at a saffespeed, using sand where necessary to
muercome slippery condition caused by calcium chloride solution 1037 (R). Referring to Air Brake Rules 10s7, 10s7-A, 10s7-B
and 1037-E: When applying bralkes for malking ordinary slowlowns or stops, the air gauge must be observed for measuring
rcductions and the initial reduction should be 6 from yo, 7 from reductions and the intizal reduction should be 6 from 70,7 from
9o and 8 from 110 pounds as indicated by equalizing reservoir 1039 (R). Air Brake Rule 1039 (F) does not apply on 5 or 6
unit locomotive if dynanaic brake is operative on 4 leading units. 1066 (R). As required by Air Brake Rules 1064, 1066, 1066 (C) and 1066 (F), when ne bssary to cut out brakes on passenger car
entiut pment due ot sticking brakes or defective brake rigging, cut-
out cock in brake cylinder pipe must be closed Cutout cock in brake pipe branch pipe to control valve must be
used only in the event of defect causing undesired emergency
plic used only in the event of defect causing undesired emergency ap-
plication or any other defect in pipe or valve that is causing ex-
cessive loss of brake pipe pressure.

## SPECIAL INSTRUCTIONS-FIRST AND SECOND SUBDIVISIONS

Use of Engine Whistle
In (S). Within the city limits of Pendelton, it it is unlawful to
sound engine whistle except to signal flagman or to prevent accisound engine whistle except to
dent not otherwise avoidable.

Switch Light
27 (R). Switch lights will not be used on branches ehown below Joseph Branch;
Trains and engines mnst approach facing point switches on
these branches prepared to stop if switch is not in normal posithese
tion.
$83(\mathrm{R})$. Conductors of the following trains may register by
LaGirande -Nos. 105 and 106;
Hinkle
Flag Protection
99 (T). Trains may be relieved from protecting against fol-
owing extrat trains by Train Order Form Z only on the following owing extra

Joseph Branch;
Pilot Rock Branch.
99 (U). In territory shown below, when main track is im-
passable or before obstructing or in any way rendering it in passable or unsafe and there are not enough men to provide flag
protection as prescribed by Rule og (E) and perforr the work,
protection as prescribed by Rule 99 (
must be provided, after rotection as prescribed by Rule 99 ( $F$ ) must be provided, after
which all memters of the gang may assist in the work. Foreman nust maintain lookout for trains and if a train approaches, ho Joseph Branch;
Pilot Rock Branch.

Unusual Conditions
Unusual (R). At Pilot Rock, trains anditions engines must move at re-
tricted speed, keeping a lookout for cars on or foul of main track
west of derail.
103 (T). Trainmang need not ride on leading platform or side
ther
At LaGrande over Firs Street and Greenwood Street;
Where through movement is made between Rieth and Pendleton.
Public Crossings
103 (U). At Baker, street crossings at Campbell and Auburn
Streets must not be blocked in excess of five minutes by freight Streets.
trains. 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
$104(\mathrm{R})$. No. 14 turn-outs are installed at all dual contro
switches in CiC territory except:
Hilgare! -Siding switches.
Meachum-West switch to sidin
Switches between Tracks 1 and 2 at eas
and west end;
and west end;

- iding switches;
Guncan -West switch to sidin
Rieth -Switch to Pilot Rock Branch.
104 (T). Switches will be set normally at:
La Grande: Joseph Branch switch - for drill track,
Switch to north side lead and roundhouse-for drill track;
h, east leg of wyo-for wye;

Joseph, switch at stem of wye-for east leg of wye;
Hinkle,
track; junction switch, Umatilla Branch-for running
track;
Hinkle, wye switches--for running track;
Hinkle, wye switches--for running
Hinkle, switch at stem of wye-
for east leg of wye
Main Track Derail
104 (U). Main track derails are located at the following points: Pilot Rock $\quad \left\lvert\, \begin{aligned} & \text { Derail will be set in derailing posi- } \\ & \text { tion at all times except }\end{aligned}\right.$ $\left.\begin{array}{l}\text { (1500 feet west of west switch } \\ \text { to new set out track) }\end{array}\right\} \begin{aligned} & \text { movement being made over track } \\ & \text { at point where derail located. }\end{aligned}$

$$
\begin{aligned}
& \text { Switching at La Grand } \\
& \text { rande. when switching }
\end{aligned}
$$

104 (V). At La Grande, when switching min track switch bust made on east end of
be operated by hand.

> Centralized Traffic Control System

267 (S). At Encina, Telocaset and Kamela, Clearance Form B
need not be reecived by light engine leaving those stations, but need not be received by light engine leaving tho
movement must be governed by signal indication.
267 (T). CTC Stop signals located as follows are designated as
"starting signals":
Huntington-M.P. 389.3 and 389.8.
Baker
-M.P. 341.7 and 342.4.
La Grande -M.P. 289.7 and 290.2.
Hinkle -M.P. 185.0.
When stopped by a "starting signal," member 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 instructions. Margman dispatcher or operator but movement must be made at
do so by
restricted speed and Operating Rule 269 must be complied with. 268 (R). At Pendleton, trains from Pendleton Branch to exten268 (R). At Pendleton, trains from
sion of Track 6 , must oftain pernissio
La Grande before passing Signal 2165.
268 (S). At Hinkle trains or engines must not enter main
track at hand operated switch between eastward signal at M. P. 185.0 and "Begin CTC" sign at M.P. 187.5 without permission from dispatcher at La Grande, and must wait three minutes after
switch is lined before fouling main track Inspection of Trains
713 (X). In addition to inspection required by other rules, all passenger trains, including streamline trains
cunning inspection on the following curves:

First SubdivisionM.P. 363 and M.P. 364.5 -single curve; M.P. 326.5 and M.P. $327.5-$ single curve;

Second Subdivision-
M.P. 281.5 and M.P. 282 -single curve;
M.P. 257.2 and M.P. 257.8 -single curve;
M.P. 197.8 to M.P. 198.6 M.P. 197.8 to M.P. 198.6 -reverse curves
M.P. $191.6 \quad$-single curve.

After rear trainman has completed inspection on the above
curves, if everything is all right, he must give hand signal to procurves, if everything is all right, he must give hand signal to pro-
ceed; , 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.

714 (R). There are close clenrances above and at, the side of main siacks ar follows, and in addition thereto, at platforms and other
siructires alove and at the side of indusliry, stock and other tracker
See Operating Rule M)

934 (T). On
934 (T). On tracks listed below, only engines of types show
nay be used: (Note following are classified as DE-Switch en gines:
Alco road-switch units Nos. $1280-1295 ; 1000$ HP unit
 1877.)

| Location | Track | Rngine <br> Permitted |
| :---: | :---: | :---: |
| Pendleton $\ldots \ldots \ldots$ | Harris Mill <br> Log Track | DE-switch |

Passenger type units Nos. 900 to 999 , inclusive, must not be
operated on Pilot Rock or Joseph Branches.

Air Brake Rules
 grades as follows:
Encina -westward and eastward $\begin{array}{ll}\text { Telocaset } & \text {-westward and enstward } \\ \text { Kamela } & \text {-westward and eastward. }\end{array}$

1043 (R). Inspection required by Air Brake Rule 1043 (D) (re-
vised March 1, 1958) must be made on all trains at La Grande. 1044 (R). Brake pipe test, as prescrined in Air Brake Rule 1044,
must be made on all freight trains before descending grade Enmust be made on all freitht trains before descending grade En-
cina eastward and westward, Kamela eastward and westward, except train No. 126 when handling 30 cars or less. Train No. 126, when length of train does not exceed 30 cars, will
make running air test as prescribed by Air Brake Rule 1035 before
descending make running arr test as prescribed by Air Brake Rule 1036 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.
1045 (R). Retaining valves must be used on trains handled with
diesel locomotives with dynamic brake not in operation or when not equipped with wressure maintaining feature when descending
grades, as follows: grades, as follows: Freight trains descending grades between Encina and Durkee
and between Hilpard and Huron must use one operative retaining valve for each fifity tons of train mut in in one oase lesat than enetaining
of all retaining valves in train. If engineer find it difficult to of all retaining valves in train. If engineer finds it difficult to
control train or to recharge train, he will request train crew to turn up aditional retaining valves necessary to insure safe con-
trol of train stopping train if neesasary train, stopping train if necessary.
Bet ween Telocaset and Union Jct., and between Huron and Dun-
can, on trains averaging to exceed fifty gross tons per car, or can, on trains averaging to exceed fifty gross tons per car, or
trains handled by engines having one air compressor, one-half of all retaining valves must be used.
Retaining valves must be used consecutively from head end of
train.
When retaining valves are used, freight and mixed trains will
use five minutes moving first mile after turning up retaing use five minutes moving first mile after turning up retaining
valves, four minutes moving second mile and three minutes movvalaves, four minutes moving second mile and three minutes mov-
ing each mile thereafter, except where slower speed is other wise
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 oprrative, trains
will be handled on descending grades between Durkee and Huron
without the use of retaining valves will be handled on deseending grades
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

1045 (S) Continue
equipped with dynamic brake in operation without pressure main
taining feature: (a) Westward between Kamela and Huron and eastward
tween Kamela and Hilgard:

(d) If due to any condition engineer or conductor considers a
particulartrain cannot be safely handled beyond Huron or Oxman as prescribed in Paragraphs (a) and (b) of this rule without use
of retaining valves, trains must be stopped and remain standing
ten minutes at Huron or Oxman to cool wheels and inspect train (e) When use of retaining valves is required, these valves must be used consecutively from head end of train.
(f) Additional retaining valves must be used in arcordance
with provisions of Air Brake Rule 1045 (B) when in the judg-
ment of the engineer or conductor use thereof is necessary. (g) Conductor must advise engineer number of cars, , total ton-
nage, average tons per operative brake, and location of loads and empties in train.
(h) When retaining valves are used, freight and mixed trains
will use five minutes moving first mile after turning up retaining walves, four minutes moving second mile and three minutes mov-
ing each mile thereafter, except where slower speed is otherwise
rescrided

1045 (T). Freight trains handled with diesel locomotives with dynamic brake not in operation must stop and remain standing lowing points when
yond these points:

Oxman -Eastward;
M.P. 279 -Eastward;
Meacham—Westward;
Huron -Westward
When eastward freight trains stop at Motanic and remain
standing ten minutes stop need not be made at M.P. 279 to cool
wheels and inspect train.

SPECIAL INSTRUCTIONS-THIRD AND FOURTH SUBDIVISIONS

| UMATILLA, CONDON, HEPPNER, <br> Where Time Applies <br> 5. (R). At Biggs, time shown in time-table schedules and in train orders applies at the end of double track. <br> At The Dalles, time shown in time-table schedules and in train orders for first class trains applies at the passenger station. <br> Switch Lights | Identification of Trains <br> 87 ( R ). On double track, westward trains between The Dalles and Crates and eastward trains between The Dalles and Biggs, must make necessary identification of all trains met or passed. <br> Movements in Yards <br> 93 (R). Yard limits include territory shown: <br> Troutdale -on Kenton Line only. |
| :---: | :---: |
| 27 (R). Switch lights will not be used on branches shown below: Umatilla Heppner <br> Condon Grass Valley <br> Trains and engines must approach facing point switches on these branches prepared to stop if switch is not in normal position | 93 (S). At points shown below, trains and engines may move against the current of traffic within yard limits without being preceded by a flagman, except when a first-class train is due or when view is obscured: <br> The Dalles <br> Flag Protection |
| tion. <br> Train Registering Exceptions <br> $83(R)$. Conductors of the following trains may register by register ticket per Operating Rule 83 (A): <br> Hinkle -Nos. 105 and 106; <br> The Dalles - Nos. 105, 106, 17, 18, 11 and 12. | Flag Protection <br> 99 (T). Trains may be relieved from protecting against following extra trains by Train Order Form Z only on the following branch lines: <br> Umatilla Branch; Hepper Branch; <br> Condon Branch; <br> Heppner Branch; <br> Grass Valley Branch. |
| Clearances <br> 83 (S). Clearance Form A must be received as follows: St. Johns Jct.-All eastward trains via Kenton; The Dalles -All trains enroute Bend Branch must receive SP\&S clearance. | 99 ( $U$ ). In territory shown below when main track is impassable or before obstructing or in any way rendering it impassable or unsafe and there are not enough men to provide flag protection as prescribed by Rule $99(E)$ and perform the work, proteetion as prescribed by Rule 99 (F) must be provided, after which (Continued on page 13.) |

## 9 (U). Continued

all members of the gang may assist in the work. Foreman must
maintain lookout for trains and if a train arproaches, he must mo tovard it and flag it with hand signals:

Grass Valley Branch; Condon Branch;
Heppner Branch; 99 (V). At Hood River and The Dalles, when passenger train
tops at passenger station, engineer will not sonnd whistle for stops at passenger station, engineer wir not sonnd whister for
flagman toprotect rear of train, but in foggy or stormy weather,
when ready to proceed, flagman must he recalled by engine when re
whistle.
whistle.
These instructions do not relieve conductor or flagma These instructions do not relieve conductor or flagman of the
responsibility of protecting as required by the rules. 99 (W). 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 on curves and where view is obscureed, look-
ond proaching and moving on curves and where view is obscured, 1 ook-
ng out carefully at all points for track cars and men working on
rack without far protection. Speed on curves must be such as to be able to stop within one-half the distance track is seen to be lear and whistle signal 14 (1) must be sounded frequently:

Umatilla Branch;
Heppner Branch; $\qquad$ Grass Valley Branch
103 (V). At The Dalles, public crossings must not be blocked longer than 10 minutes. When a train is to be delayed getting in

104 (T). Switches will be set normally at:
Hinkle, junction switch, Umatilla Branch-for running track Hinkle, wye ewitches-for running track;
for east leg of Wh 3
rlington, Condon Branch switch--for Condon Branch.
200 (T). At Biggs: When train order signal for eastward trains
indicates stop, eastward trains must stop before any part of train or engine passes Automatic Block Sip Sal 1003 , unless proceed
gig nal with aselow flar by day or yellow light by si nal with yellow flag by day or yellow light by night is received
from operator.
267 (T). CTC Stop signals located as follows are
starting signals": Hincle-M. 185.0
When stopped by a "tsirting signal," member of crew must
communicate with dispatcher or operator and be governed by his instrunctions. Fith dispan need not be sent ahcad unless instructed
inst do so by dispatcher
to do to do so by dispatcher or operator but movement must be made
at restricted speed and Operating Rule 269 must be complied
with. ( $)$. At Hinlcle trains or engines must not enter main
track at at hend operated switch between eastward signal at $M$. track at hand operated, switch between eastward signal at M.P.
185.0 and "Begin CTC" sign at M.P. 187 .5 without permission from dispatther at La Grrunde, and must wait three minutes after
switch is lined before fouling main track.
Remote Control Switch

Remote Control Switches
275 (U). Remote as control switches are located as follows: (See

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

 

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

passenger yard. Operator, Hinkle

280 (R). Crossover and Junction switches at Oregon Trunk Jct., are equiped with electric locks and are controlled by Oper
ator at The Dalles.
Simal A 95.1 has sidin. indicator. (See Rule 240 ). ator at The Dalles.
Signal A 95.1 has siding indicator. (See Rule 240 L.$)$
When this signal displays red-over-illuminated S . it When this signal displays red-over-illuminated S, it indicates
that Oregon Trunk Jct. switch and crossover to westward main
track are unlocked and crew member may hand operate switches that Oregon Trunk Jct. switch and crossover to westward main
track are unlocked and crew member may hand operate switches
to enter westward main track. to enter westward main track.
and signal A A5.1 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, ocated at cross-over 605 (A) Rontes Through Interlocking
605 (R). At Troutdale, upper unit of interlocking signal, lo-
cated just east of the junction switch, governs westward movecated just east of tha iunction switch, governs westward move-
ments via Graham and the lower unit governs westward move-
ments via Kenton line. ments via Kenton line
When lower unis displays $\Lambda$ Approach indication ( (Rule 2 $240-F$ ),
movement is authorized on Kenton Line main track. When lower movement displays restricting indication (Rule 240-H), movement is authorized into Kenton Line siding
Proced indication of interlockin
junction switch will authorize eastward trains from Kenton Line
to proceed to train order of fice.
Inspection of Trains
passenger Itrains, including ingection required by other rules, all
close running inspection on the following curves: se running ingpection on the following curves:
Third Subdivision-

$$
\begin{aligned}
& \begin{array}{ll}
\text { M.P. } 180.1 & \\
\text { M.P. } 159.9 \text { to M.P. } 161.4 & \begin{array}{l}
\text {-single curve; } \\
\text {-reverse curves; } \\
\text {-single curve; }
\end{array}
\end{array} \\
& \text { P. } 1238.2 \text { to M.P. } 130.0 \text {-single curves, } \\
& \text { M.P. } 68.8 \text { to M.P. } 69.2 \text {-reverse curves; }
\end{aligned}
$$

$\begin{array}{ll}\text { M.P. } 68.8 \text { to M.P. } 69.2 & \text {-reverse curves; } \\ \text { M.P. } 49.3 \text { to M.P. } 49.7 & \text {-reverse curves; } \\ \text { M.P. } 14.9 \text { to M.P. } 15.9 & \text {-reverse curves. }\end{array}$
After rear trainman has completed inspection on the above
urves, if everything is all right, he must cive hand signal to proced; this sirynalng must he acknowledged by two long sounds of
cold If anything unuuual is detected, train must be stopped and walk-
ing inspection of train must be made before procceding. 713 (Y). Westward trains must stop and trainmen must inspect 713 (). Westward trains must stop and train
rain at Barnett, Grass Valley and Thornberry
714 (R). There are close clearances
main tracks as follows, and in addition thereto, at at the side of other structures above and at the side of industry, stock and other

| Location | Structure or obstruction |
| :---: | :---: |
| At All Stations | Mail Cranes. |
| Thlird Subdlvision |  |
| M.P. 188.49 | Bridgo |
| M.P. 114.3. |  |
| Fourth Subdivslon M.P. $6940 . \ldots$ |  |
| M. P. 63.38 .40 | Bridqo |
| MP 81.03 |  |
| M P 3990 | Bridro |
| M.P. 32.15 | Bridgo. |
| M.P. 31.85 |  |
| M.P. 29.65 | Bridgo. |
| M.P. 26.01 | ${ }^{\text {Bridgo }}$ |
| M.P. 15.82 | Bridyo |
| M.P. 15.4 | Overhad bridgo |
| M.P. 10.3 | Underpas:s ha |
| M.P. 8.5 | Underpass handrails ....i. |
| M.P. 5.43 | Overheadbridge (N.L.L.82nd A |
| M.P. 5.01 | Over fiead bridro (N.E.E.74th Ave, |
| M.P. 4.5 | Turnoa (Peningalla jet.). |
| M.P. 4.14 | Ovorhead bridgo (N.T. |
| M.P. 3.8 | Overheadhridge (N. |
| M.P. ${ }_{2} .85$ | Overieat bridge (N.E.E.37th A |
| M.P. 0.43 (Willamelto Pivor) | Briate |
| Portland. ................ | Depot umbrella ahed |
| Umatilla Branch | Bridgo. |

Clearance of
engrine or car
is close at-


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

Track Restrictions
934 (T). Passenger type units numbers 900 to 999, inclusive,
must not he operated on Umatilla, Heppner, Condon and Grass Cars weighing in excess of 240,000 pounds not permitted on
Condon and Heppner Branches.

$$
\begin{gathered}
\text { Air Brake Rules } \\
\text { test as }
\end{gathered}
$$

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 bet ween Barnett and Rock Creek and on Grass alley Branch between Kiondike and Biggs and this test
must also be made at intermediate points on these grades either ascending or descending, whenever engine is changed, cars picked
up or set out, air hose parted, angle cock turned or when train has por set out, air hose parted, angle coc

1045 (U)
as
Con Br valges must be used.
Grass Vall M.P. 33 and Moranch, all trains on descending grades between valves must be used on all cars. Between Klondike and Biggs, retaining valves on all cars must be used in maximum pressure
position. On engines not equipped with pressure maintaining feature or dynamic brakes inoperative, retaining valves on all cars must be sise on descending grades between Moro and Hay Canyon.
Retaining valves must be used consecutively from head end of
Whain.
When retaining valves are used, freight and mixed trainss will
use five minutes moving first mile after turning up retaining use five minutes moving first mile after turning up retaining
valves, four minutes moving second mile and three minutes movvaly each mile thereafter, except where slower speed is otherwise
ing
prescribed Conductor must advise engineer number of cars, total tonnage,
average tons per operative brake, and location of loads and empties
in traim.

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
receiving or discharking passencers, and must not cross $H$ High receiving or discharging passengers, and must not cross High
Shed at passenger station unless proceed signal is received from
station 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 crew when passag
is safe to proceed.
Interlocking at south end of freight and passenger yards gov-
erns all trains and engines entering or leaving yards. When the home signal indicates Stop, the following whistle signals will be used to call for desired route: (When conditions
are favorable. hand or lantern signals should be used instead of


When the home signal indicates Proceed, the whistle signa
must not be sounded. 93 (U). Two parallel tracks between East Portland and Albina re designated as:
Running track 1-track nearest river;
Running track 2--track farther from rim
These tracks are signalled for movement in both directions
ephones are installed at following locations:
Sivect Tenders Building Randolph St.;
Crossover at Clark St.;
Crossover at Clark St.; Elevator;
Glosover at Iock Elevator, Dock near track 1.
Trains and engines moving from East Portland to Albina may
nter Running tracks 1 or 2 on proper interlocking signal indication. ${ }_{\text {Trains or engines moving from Albina to East Portland may }}$ enter Running tracks 1 or 2 on receipt of proceed signal given
with yellow flag or yellow light by switchtender at Harding Street, Albina. Unless such proceed signal is received, trains and
engines must stop clear of switches and cross-overs at Harding engines must stop cl
and Randolph streets
Engines leaving Running track 1 or 2 at any industry between
Albina and East Portland must report by telephone to operator Abina and East Portland must report by telephone to operator
East Portland after running track is clear and switch is prop-
erly lined. crly lined.
A train
ack 2 at any intermest not enter Running track 1 or Running rack to the other without location, or crosssision from operator at East

Normal position of all switches on these tracks between Albina
and East Portland is for the running tracks.
Switchtender at Switchtendel at Albina must not give proceed signal to a train without first securing permission from operator at East Port-
land, nor may land, nor may operator at East Portland clear interlocking signal
for a train or engine which is to enter these tracks without first notifying switchtender at Operator East Portland and switchtender Albina will arrange
for movement of trains or engines on right hand track in direc for movement of trains or engines on right hand track in direc-
tion of their movement, except in emergency or for movement which requires that track to the left be used.
Operator East Portland will maintain a re
Operator East Portland will maintain a record on prescribed
form showing occupancy of Running tracks 1 and 2 and oper-
ators' transfer must ators' shawinge occupancy of Running tracks 1 and 2 and oper-
cleared these tracks when trandensers or engines which have not
ceatea

Railroad Crossings and Junctions
98 (R). Trains and engines must be governed by the following


$$
\begin{aligned}
& \text { Riding Leading End of Engines } \\
& \text { nmen need not ride on leading }
\end{aligned}
$$

103 (T). Trainmen need nitot ride on leading platform or side
Rteps of engineover crossings Albina Terminal Area.
Handling Cars A head of Engine 103 (W). Cars, except business cars equipped with spotlight,
must not be shoved ahead of engines through tunnel between St. must not be shoved a head of
Interlocking
605 (S). To indicate the route to be used through interlocking,
the following whistle signals will be used: At East Portland:
For Portlan
For Albina


Continued on page 15.)

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
11 and 2,3 and 4,5 and 6 and 7 and 9 and 10 from interlocking
signals to point 100 feet north of the crossing. 714 (V). Cars or loads of excessive height or width must not
be placed under shed on Rip tracks 1 , 2 or 3 , under loud shifter or inside Frreight House, Albinu.
Track Restrictions

934 (T). On tracks listed below, only engines of types shown
may be used: (Note-following are classified as DE-Switch engines: Alco
road-switch units Nos. $1280-1295 ; 1000 \mathrm{HP}$ units Nos. $1000-$ road-switch units Nos. $1280-129.5 ; 1000$ HP units Nos. 1000 .
1095, 1100-1198, $1200-1210,1300-1304,1800-1865$ and 1870-1877.)

| Location | Track | Engine Permitted |
| :---: | :---: | :---: |
| East Portland | Canada Dry | DE-Switch |
| East Portland | Doernbecher's |  |
| Kenton | Smithwick Spur |  |
| Kenton | Sunshine Biscuit |  |
| Albina | Swan Island |  |
|  | Trackage |  |
| St. Johns | Willamette Tug and Barge Spurs on River Side |  |
| Terminal No. 4 | Various spurs |  |
| Oregon Ship Yard | Various spurs and |  |
| Union Carbide | cross-overs ${ }_{\text {cher }}$ |  |
|  | cross-overs |  |

934 (V). Referring to Special Instruction 934 (R), All SubdiAt the following locations, 8 -foot rail trailer flat cars may be
handled on curves in excess of 16 degrees as provided therein: Between Albina and east end of Steel Bridge, Portland;
Between East Portland and east end of Steel Bridge, Portland. Air Brake Rules
1043 (R). Inspection required by Air Brake Rule 1043 (D) (re-
vised March 1, 1958) must be made on all trains at Albina.

## SPECIAL INSTRUCTIONS-FIFTH SUBDIVISION

## 促

27 (R). Switch lights will not be used on branch shown below Olympia Branch.
Trains and engines must approach facing point switches on this
83 (R). Conductars of the following trains may register $83(\mathrm{R})$. Conductors of the following tran
Begister ticket per Operating Rule 83 (Aver-All trains;
Blat Black River-All trains;
Reservation-All west ward trains.
At Argo only trains which origina
At Argo, only trains which originate or terminate in UP yard at that station will register.
At Centralia, Grays Harbor Branch trains originating or
terminating at Blakeslee Jct. must register in UP train terminating at Blakeslee Jet. must register in UP train
register At NP telegraph office. D-83 (R). Information required by Opera
83 (S). Clearance Form A must be received as follows: Black River-all westward trains.
Argo -all eastward trains.
Centralia -all westward Grays
originating at Blakestor branch trains
Northern Pacific clearancee must be receiveed ast. follows:
Reservation -all eastward second-class and extra trains passing through Tacoma;
Tacoma, McCarver Street
-all eastward second-class and extra trains
eastward second-class and extra train
originating at Tacoma.
83 (T). Trains are not required to receive a clearance as per
Operating Rule $83(\mathrm{~B})$ as follows: Seattle-eastward trains. Clearance received at Argo by
an eastward train confers same authority on
Movements in $\mathbf{Y a r d s}$
93 (R). Yard limits include territory shown:
and N. P. yard limit sign at Myrtle St. west
of Aberd Aberden depot.
-From yard limit sign near switch at at
stem of Wye East Olyminia to and including Olympia.
93 (V). At Seattle Union Station, trains and engines on eastward 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 engines must be governed by the following
at the railroad crossings and junctions indicated. 98 (R). Trains and engines must be governed by the following
at the railroad crossings and junctions indicated.

| Location | Raliroad Crossed or Junction With | $\begin{array}{\|l\|} \hline \text { Trains } \\ \text { Which Have } \\ \text { Precedenco } \end{array}$ | How Governad |
| :---: | :---: | :---: | :---: |
| Holsing Jet. | C.M.St.P. \&P. | (i. P. | Automatic hlock signala. |
| South Aberdeun. (Donovan Mill) | N. P. | N. P. | Stup signs. |
| Olympia. (Jelf cuson and 7th Sts.) | N. P. | U. P. | Stop signs. |
| Tacama. (1)empsey Mill Spur) | N. P. | N. P. | Step signs. |
| Tacoma. Tilewater. | N. P. |  | Semi-automatic interlocking. Suecial Instruction 98 (S) |
| Scatte, (Duwamish Avo. and Fast Markinal Way.) | $\begin{aligned} & \text { G. N. S. P.\& P. } \\ & \text { C. M. } \end{aligned}$ | $\begin{aligned} & \text { G. N. } \\ & \text { C.M. St. } \\ & \text { P. \& P. } \end{aligned}$ | Stop Signs |
| Seattle, (liast Marginal Way Way it Sprikano sti.) | N. r. | N. P. | Stop Signs |
| Seattle. (Kailruad Ave. and Atlantic st) | $\begin{aligned} & \hline \text { G.N. } \\ & \text { N.P. P. P. \& P. } \\ & \text { C.M.St. } \end{aligned}$ | $\begin{aligned} & \hline \text { C.N. } \\ & \text { N.P. } \\ & \text { C.M.St.P.\&P. } \end{aligned}$ | Stop Sisins |

98 (S). At N.P. Crossing, Tacoma-Tidewater, when stopped by
semi-automatic 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-
piration of time interval, indicator lamp will light to indicate time
interval piration of hame expired. If signal does not then change to permit
interval or angine to proceed, member of crew will signal engineer to
train er train or engine to proceed, member of crew will signal engineer to
proceed if no train or engine is approaching on conflicting routes.
See proceed if no train or eng
See operating rule 672.

## Drawbridge

98 (T). Trains and engines after stopping at stop signs must
not proced 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 proced signal from bridqe tender must be gover proceed by signal from brition of derail tender, und in addition
derail located 125 feated 28 feet east, and ing certain hours each day of trawstle spanding to drawbridge. Dur-
traffic and derails will be set in derailing position. If nor river
necessary traffic and derails will be set in derailing position. If nexessary
for train or engine to use drawbridge during such hours, notify
Agent Montesano or dispatcher to call drawbridge operator. 98 (U). At Tacoma, all trains and engines after stopping at
stop signs must not proceed onto draw span of bridge at Tacoma ston they have called for, received and acknowledged proceed
until thal from bridge tender signal from bridge tender
Flag Protection
99 (U) In territory shown below when main track is impass-
able or before obstructing or in any way rendering it impassable
 tion as prescribed by Rule 99 ( ) and perform the wort, protec-
tion as prescribed by Rule 99 ( $F$ ) must be provided, after which
cilt members of the cll members of the gang may assist in the work. Forcman must
maintain lookout for trains and if a train approaches, he must maintain loot onent flor tra wins and if a train approaches, he must
go toward it tand flag it with hand signals:
Olympia Branch. Olympia Branch; Grays Harbor Branch.
99 (W). On following branches between 6 A.M. and 6 P.M. daily 99 (W). 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 approaching and moving on curves and where view is obscured, look-
ing out carefully at all points for track cars and men working on ing out carefully at all points for track cars and men work
track without flag protection. Speed on curves must be such as
to be alle to stop within one-half the distance track is seen to be toack althout trop within one-half the distance track is seen to
to bear and whistle signal 14 (1) must be sounded frequently: Olympia Branch;
Grays Harbor Branch.
101 (S). Seattle, at Rail-Barge Dock located 12th Ave. S.W.
and Massachusetts Ave., on Harbor Island, employes must not ride on sides, ends or tops of cars while being moved on or off
barkes. from where impaired clearance signs are posted near edge
of Massachuetts Ave.
Clearance is very close on all tracks approaching barge apron
Clearance is very close on all tracks approaching barge apron
and on the barges proper, and no movements will be permitted and on the barges proper, and no movements will be permitted
with any equipment standing on adjacent tracks west of crossover.
All cars must All cars must have air cut in and operative when moving on or
off barges and all moves must be made slowly and with extreme off barges and all moves must be made slowly and with extreme
care. Permission must be received from Supervisor in charge of
Pier Pier 16 before any movement is made on or off barges.
Engines are not permitted on apron of barge slip, and must hold Engines are not permitted on apron of barge sl
onto enough cars to keep engine off apron of slip.

Riding Leading End of Engines
103 (T). Trainmen need not ride on leading platform or side steps of engine over crossings as follows:
At Seattle, over Spokane Street, Harbor Island, Alaskan Way,
between Argo and Seattle Passenger station or local yard, and At Seattle, over Spokane Street, Harbor sland, Alaskan ay,
between Argo and Seattle Passenger station or local yard, and
along East Marginal Way. Movements at Olympia
103 (X). At Olympia, City Ordinance relating to the movement
of railroad trains and railroad traffic provides for the following of railroad trains and railroad traffic provides for the following:

1. No car or cars are to be kicked or dropped over any street
. grade crossing, or along any tracks extending along any streets
or immediately adjacent to any streets.

103 (X) Continued
2. All switch movements over crossings, unless protected by 3. No locomotive, railroad car or cars may be left unattended 4. No street or street crossing may be blocked to vehicula traffic for more than 5 minutes at any time
blocked to vehicular
5. Not more than 3 consecutive street intersections may be
locked by any moving train at any given time.
6. Not more than 2 consecutive street intersections may be
locked by any standing train at any time.
7. No switch move may exceed a speed of 5 MPH at any inter
section within the City of Olympia.
8. When switch movements across grade crossing have been crossing may not be made until all accumulated vehicular traffic rossing may not be made until all accumulated ve
$t$ the crossing shall have cleared the intersection.
9. Switch movements of engine and 5 cars only may be moved
arross the following crossings between the hours of $7: 30$ A.M. and 8:15 A.M... 11150 A.M. .and 12:20 P.M., $12: 40$ P.M. and $1: 05$
P.M., 3:25 P.M. and 3:45 P.M. and between 4:50 P.M. and 5:30
$\begin{array}{ll}\text { East Union A venue } & \begin{array}{l}\text { Columbia Street a } \\ \text { Legion Way } \\ \text { Lest Seventh } \\ \text { East Fourth Avenue }\end{array} \\ \text { East State Avenue }\end{array}$
$\begin{array}{ll}\text { East Union Avenue } & \begin{array}{l}\text { Columbia Street a } \\ \text { West Seventh } \\ \text { Legion Way } \\ \text { East Fourth Avenue }\end{array} \\ \text { East State Avenue }\end{array}$
10. No public road or street crossing may be blocked to ve-
hicular traffic by any standing engine, car or train during the
hours prescribed in pararaph
11. No car may be left standing on any track within 25 feet of
a street right-of-way-line, except on spurs or sidings serving Thdustries.
The items listed above are in addition to any other requlations governing railroad tr
ries a heavy penalty.

Public Crossings
103 (Y). At Fifteenth Street, Tacoma, all trains and engines
must stop and a member of the crew must be sent ahead to act as crossing watchman.
104 (T). Switches will Switches
TTa. Switches will be set normally at:
Taboma Jct., junction switch for C. M. St. P. \& P.;
Aberdeen, switch at end of double track - for eastward trains,
South Montesano, wye switch on Montesano Branch-for
west ler of wye
Helsing Jct., junction switch-for U. P. main track;
At Tacoma, when cross-over switches from Northe
cific double track to U. P. drawbridge line are handled
by trainmen, all such switches must be returned to
normal position after movement is completed.
301 (R). Movements on Olympia Bra:ach are governed by Staff
system.
Sorgle staff will be used, located in staff box at Mechanical
Foremants Office, Olympia. Trains or engines must secure this Foreman's Office, Olympia. Trains or engines must secure this
Staff before using Olympia Branch east of Union Avenue, City of staff before using Olympia Branch east of Union Avenue, City of
Olympia, and must retain staff until movement is completed
Trains or engines must not move from East Olympia to To TumTrains or engines must not move from East Olympia to Tum-
water Yard or Olympia w without having staff in their nossession.
When such movement is necessary, dispatcher will instruct how water Yard or Olympia without having staff in their possession.
When Such movement is necessary, dispatcher will instruct how
staff will be obtained.
staff will be obtained.
After movements are completed, staff must be placed in staff
box and securely locked.

| Interlocking |
| :---: | :--- |
| 605 (S). To indicate the route to be used through interlocking, |, \(\begin{aligned} \& Seattle <br>

\& Seattle following whistle signals will be used:\end{aligned}\)




Close Clearances
$714(\mathrm{R})$. 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

714 (W). Employes are warned that overhead clearances to
trolley wires and side clearances to supporting poles are close at trolkey wires and side clearances to supporting poles are close at
locations shown below. Trolley wires must ont be touched and

careful lookout must be kept for low and broken wires. careful lookout must be kept for low and broken wires. | Station | Location |
| :--- | :--- |

## Black Rive Argo-Soart

Argo yard lead and betwoon Argo and Soaitio C. M. St. P. \& P.
 714 (X). At Olympia, account insuf ficent clacarance betwoen
N. P. connection scale track and maint 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 mair track if trains or enfinen are moving on ocach track No. No main track if
934 ( $T$ ). On tracks listed below, only engines of types shown may be used:


| Location | Track | Heaviest Engine |
| :---: | :---: | :---: |
| Seattle | Various Spurs along 5th |  |

Seattle
Seattle
Seattle
Seattle

$$
\begin{aligned}
& \text { Various Spurs along 5th } \\
& \text { Avenue } \\
& \text { Aarious Spurs along East } \\
& \text { Marginal Way } \\
& \text { Various Spurs on 11 th } \\
& \text { Ave. } \\
& \text { Vario. W. Wh. } \\
& \text { Way Spurs on Alaskan } \\
& \text { Various Front St. Spurs } \\
& \text { Grays Harbor Chair Spur }
\end{aligned}
$$

SPECIAL INSTRUCTIONS-SIXTH SUBDIVISION
YAKIMA SUNNYSIDE SPEANE-TEKO PLEASANT YALIEY WALLULA, MUSCOW CONNELL, TEKOA-AYER, POMEROY, TUCANNON, PENDLETON, DAYTON, WALLACE, AND SIERRA NEVADA BRANCHES Use of Engine Whistle
14 (T). Within the city limits of Spokane, Pendleton and Pomoroy, it is unlawful to soond engine whistle exceett to signal flagwise avoidable.
At Walla Walla, the use of the engine whistle at the public rossings at West Cherry west of Mill Creek Bridge, is
cident not otherwise avoidable.

Switch Lights
27 (R). Switch lights will not be used on branches shown below.
Po. Switch
Pomeroy,
Dayton
Daytorn,
Sierra Nevada
Sid
Tucannon,

> Connell, Wallace, Peasant Valley, Pendleton.

Trains and engines must approach facing point switches on
hese branches prepared to stop if switch is not in normal position.
Train Registering Exceptions
$83(\mathrm{R})$. Conductors of the following trains may register by N. P. Crossing, Spokane-all G. N. A. trains;
Natill

Marengo
Wallula
Clearances
(S). Clearance Form A must be received as follows: Ayer Crossing-All west ward Sixth Subdivision trains Dishman -All westward Spokane-Tekoan Branch train Walla Walla-All trains; $\begin{gathered}\text { originating at East Spokan }\end{gathered}$ Wallula -All eastward Wallula Branch trains;
Wallula -All eastward Yakima Branch trains.
83 (T). Trains need not receive Clearance Form A as required

| Erating Rule |  |
| :---: | :---: |
| Hooper Jct., | Richland Jct. |
| Tucannon, | Seltice |
| Starbuck, | Moscow, |

When train order signal indicates Proceed trains need not re Manito-Trains 382 and 388;

Railroad Crossings and Junctions
98 (R). Trains and engines must be governed by the following

| Location | Railroad Crossed or Junctlon With | $\begin{aligned} & \text { Tralns } \\ & \text { Which Hzeve } \\ & \text { Precedence } \end{aligned}$ | How Governed |
| :---: | :---: | :---: | :---: |
| Marongo. <br> (M.1'. 306.6 ) | C. M. St. P. AP. |  | Automatic block signals. |
| Spokane. N. P. Croseing (M.P. 16.3.5) | N. P. |  | Interlocking. |
| SpokanoG. N. Crossing | G. N. |  | Automatic Interlocking. |
| Manito. (M.P. 143.7) | C.M. St. P. \& P. |  | Automatic block signals. Special Instructions 98(V). |
| Farmington. | N. P. | $\begin{array}{\|c\|} \hline \text { U. P., except } \\ \text { passenger } \\ \text { traing have } \\ \text { povecdnce } \\ \text { ovor iroight } \\ \text { trains. } \\ \hline \end{array}$ | Gate set against |
| Garfield. (M.P. 95.4) | N.P. | U. P. | Stop signs. |
| Collax. (M.P. 77.3) | G. N. | U. P. | Gate and automatic interlocking signals. Gato sot against G . N . |
| Oakognale. (M.P. 39.68) | G. N. | U. P. | Stop signs. |
| Oakesdalo. (M.P. 39 65) | N. P. | N. P. | Stop gigns. |
| $\begin{aligned} & \text { Thornton. } \\ & \text { (M.P. 30.6) } \end{aligned}$ | G. N. | U. P. | Gate. |
| Riparia.(M.P. 17.1) | N. P. | U. P. | Gate set agrainst N. P. |
| Walla Walla. (M.P. 47.2) | N. P. | U. P. | Stop signe. |
| Walla Walla. (M.P. 46.6) | W. W. v. | U. P. | Gate. |
| Langdon (M.P. 44.2) | W. w. v. | U. P. | Gato. |
| Milton. (M.P. 36.2) | w. w. v. | U. P. | Gato. |
| Parker. (M.P. 91.3) | N. P. |  | Avtomatic Interlocking. |


| 98 (R) Continued. |  |  |  |
| :---: | :---: | :---: | :---: |
| Location | Railroad Crossed or Junction With. | Trains <br> Which Have Precedence | How Governed |
| Donald (M.P. 899.35) | $\begin{array}{\|l\|} \hline \text { N. P (gauntlet } \\ \text { track). } \end{array}$ |  | Autumatic Interlocking Spocial Instructiou $672(\mathrm{R})$. |
| Garrott. (M.P. 28.7) | w. w. v. | U. P. | Gate. |
| Dayton. (M.P. 12.09) | N. P. | U. P. | Stip signs. |
| Dayton. (M.P) 13.11) | N. P. | U. P. | Stop wigrs. |
| Pullman. (M.P. 19.3) | N. P. | U. P. | Stop signs. |
| Wallace. (M.P. 80.4) | N. P. | U. P. | Stup signe. |
| Wallace. (M.P. 80.6) | N. P. | U. P. | Stop signs. |
| Plummer Jct. (M.1. 16.2) | C. M. St. P. \& P. |  | Special Instructions 98 (W) |

98 (V). At Manito, junction switch will be lined normally for movement fron
Block Signal
C.M.St.P.\&P.
98 (W.At Plummer Jct. movement from Union Pacific connec-
ion to C.M.S.P.\&P. main track in governed by dwarf signal at earance point on U.P. connection. When illuminated " S " is dis played, switch may be ilined. If signal then displays proceed indi-
cation, movement may be made to C.M.S.P.\&P. main track. Drawbridges
98 ( X ). At drawbridge, MP 23.45 Wallace Branch, after stop-
ping at stop sign, train must not proceed until proceed signal is ing at stop sign, train must not proceed until proceed signal is
 properly closed and locked, and give proceed signal when safe to
proceed.
98 (Y):At M.P. 17.23, Tekoa-Ayer Branch, trains must stop be-
fore passing over drawbridge and may then proceed if draw span ore passing over d.
s seen to be closed.

## Flag Protection

99 ( T ). Trains may be relieved from protecting against follow
ing extra trains by train order Form Z , only on the followin nes:
Connell Branch bet ween Hooper Jct. and Connell
Dayton Branch between Dayton and Turner;
Pomeroy Branch;
Moscow Branch;
Pleasant V alley Branch;
Pendleton Branch between Walla Walla and Alto
99 (U). In territory shown below when main track is impass
able or before obstructing or in any way rendering it impassable ble or bef ore obstructing or in any way rendering it impassable
or unsafe and there are not enough men to provide flag protec
 tection as prescribed by Rule 99 (F) must be provided, after
which all members of the gang mayassist in the worl. Forema
must maintain looko must maintain lookoout for trains and it a train approaches, $h$

Pendleton Branch;
Dayton Branch, between Turner and Dayton Jct. and
between Waitsburg Jct and Bolles.
between Waitsburg Jct. and Bolles;
Connell Branch;
Sunnyside Branch;
Wallulda Branch, between Zangar Jct. and Walla Walla;
Wallace Branch.between Plummer Jct. and Burtie;
Sleasant Valley Branch,

Tekoa-Ayer Branch
Tucannon Branch;
Spokane-Telkoa Branch
99 (W). On following branches between 6 A.M. and 6 P.M. daily,
a speed of 10 MPH must not be proaching and moving on curves and where view is obscured,
looking out looking out carefully at all points for track cars and men working to be able to stop within one-half the distance track is seen to
clear
co
Dayto

Dayton Branch;
Tucannon Branch);
Hooper Jct. to Conneli (o
Alto to Bolles (on
Hooper Jct.to Connell (on
Connell Branch)

Public Crossinga
103 (Z). The following will govern trains and engines at the

| Location | Instructions |
| :---: | :---: |
| Spokano-Medelia and Washington Stroet | All enginas using switcling tracks must stop claar or crogsing and momber of crow will aicartiin that flashing light signals ulv operating and bells ringing before procooding ovor crossing. Cars must not be left within 30 foot on oither side of crossing. |
| Spokano-Division Streat. | Unless absolutely nocessary, movements across street must not be mudo betweon 6:00 AM and 8:00 AM 1:30 AM and 1:30 PM. 5:00 PM and 7:00 PM. Be twcen 6:00 AM and midnight, the number of move monts across the stroet is limited to twenty. and the street must not be crossed when to do so would interrupt traffic. |
| Tekoa-County road at junction swith'h to Mcłłoldrick's Spur | Flagman must be on ground aud stop traffic hefore movemont is mado ovor the crossing. |

- 

04 (T). Switches will be set normally at
Hinkle-W We switches- for running track;
Hinkle-Switch at stem of wye for east leg of wye; Fairfield-switch to G.N. connection on siding-for G.N.
Hooper Jct. (Connell Branch)-for linevia Park Seltice-for rine via Colfax;
Winona-for line via Colfax;
Lacrosse - Connell Branch switc
Tucannon-for line via Pataha; Riparia-Junction switch-for movement to Camas Prairie;
Walla Walla - East wye switch Pendleton Branch - for Pendleton Branch;
Wye switch Wallula Branch-for movement to east leg
Yakima, Walnut Street-for main switching lead. 104 (U). Main track derails are located at the following points:

Derail will be set in derailing posi-
tion only when cars are left stand-
Dayton
(100 feet
(100
ing on nuain track above lit.
$(150$ eet east of wepot
cannery





 engine estoped by an interlocking signal must comply with oper-
ating Rule 672 . If signal does not change its indication after one mintute flap protection must he provided for movement between
home signals governing mauntlet track. ing gauntlet track.
714 (R). There are close clearances above and at the side of
main tracks as follows, and in addition thereto, at platforms and ther structures above and at the side of industry, stock and othe racks. (See Operating Rule M.

| Location |  | Structure or obstruction | Clearance of engine or car is ciose at- |
| :---: | :---: | :---: | :---: |
| M.P. 98.03 |  | Bridgo | Side. |
| M.P. 115.79 |  | Overboad | Top. |
|  |  | Bride. ${ }^{\text {Buerla brige }}$ | Top. |
|  |  |  |  |
|  |  | Overbead bridge | Sido. |
| M.P. 163.56 |  | Bridgo. Bridgo | Side ${ }^{\text {Tidep }}$ and side. |
|  |  | Markot Street bridgo | Top and side. |
| Spokene |  | Division Street bridge |  |
| Spokano. |  | Tunnol. weastward track | Top and side. |
| Moscow Brancls |  |  |  |
| M.P. 8.54 _. |  | Bridgo. | Top and side. |
| M.P. 18.77 |  |  |  |
| M.P. 18.97 . ${ }^{\text {M.P. } 19.28 .}$ |  |  | Top and side. |
|  |  | Overhead brid |  |
| Wallace Branch |  |  |  |
| M.P. 0.14. |  | Bridge Brideo | Top and side. |
| M.P. 23.45 |  |  | T'op and side. |
| M.P. 55.56 . |  | Bridge |  |
| M.P. ${ }_{\text {M. }}$ S6.01. |  | Bridge Bridyo | Top and side. |
| M.P. ${ }^{31.48 .}$ |  | Bridge Bridgo | lop and side. |
| ${ }_{M}^{\text {M.P. }}$. 64.03. |  | Bridge | Side. |
|  |  | Bridga |  |
| Pleasant Valley Branch |  |  | Top and side. |
| Pleasant Valley branchM.P. $1.51 . . . . . . . . . ~$ |  |  |  |
| M.P. 41.21 . |  | Overhead bridgo | $\begin{aligned} & \text { Top and } \\ & \text { Top. } \end{aligned}$ |
|  |  |  |  |
| Pendieton Branch |  | Bridge |  |
| M.P. ${ }^{36.86 .}$ |  | ${ }^{\text {Bridge }}$ Overhad bridge | Top and sido. |
| Wallual Branch |  |  |  |
| Waluia ${ }^{\text {a }}$ BranchM.P. 10.01.M.P. 11.32. |  | Overheerd bridge | Top and sid |
|  |  | Bridge | Sido. |
| Connell Branch |  |  |  |
| M.P. 15.13. |  | Overhead bridg | Top and sido. |
| 934 (T). On tracks listed below, only engines of types shown may be used: |  |  |  |
| (Notc-Following are classified as DE-Switch engines: Alco road-switch units Nos. 1280-129.5; 1000 HIP units Nos. 1000-1095, 1100-1198, 1200-1210, 1800-1804, 1800-1865 and 1870-1877.) |  |  |  |
| Location |  | Name of Track | Engines Permitted |
| Walla Walla .. | Pacific | ruit Spur |  |
| Walla Walla . | Walla | alla Gardeners Spur |  |
| Walla Walla | ${ }^{\text {Pacific }}$ | Supply Co-op. | DE-Switch |
| Walla Walla . |  | alla Cannery |  |
| Walla Walla . Walla Walla . | $\begin{array}{\|l\|l} \hline \text { Jefferso } \\ \text { Mill Spu } \end{array}$ | n St. Connection Libbys. |  |

Passenger type diesel locomotives number 900 to 999
are not permitted to operate on any Branches except:
Wallula Branch; ${ }^{2}$
Tekoa-Ayer Branch;
Connell Branch Branch; between Hooper Jct. and La Crosse;
Sonnell Branch Tekoa Branch;
Wallace Branch;
Wallace Branch;
Moscow Branch.

934 （U）．Referring to Special Instructions 934 （R），All Sub－
divisions： divisions：
At the following locations， 85 foot trailer flat cars may be
handled on curves in excess of 16 decrees an srovided therein： handled on curves in excess of 16 degrees as provided t
Walla Walla，track serving rail trailer facilities．
934 （Y）．When handing 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 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 between such car or
160,000 pounds gross．

## ir Brake Pules

1035 （R）．Running test as prescribed in Air Brake Rules 1035，
1035 （A），， 035 （B）and 1035 （C）must be made before descending ades as follows： Spokane－Tekoa Branch－eastward trains at Darknell

Tekoa－Ayer Branch－westward trains at Jerita
Pendleton Branch－eastward trains at Weston；
1035 （S）．At Spokane Union Station，passenger trains will mak

044 （R）Brake pipe test as prescribed in Air Brake Rule 1044 must be made on all freight trains before descending grade Wes－ fax，P Barret，Relief to Starbuck，Alto to Menoken，Crest to Col－ Branch end of track to Bradley，
1045 （U）．Retaining valves must be used on descending grades On all trains Crest to Colfax，Relief to Starbuck，Weston to Barrett，Burke to Wallace and Sierra Nevada Branch end of track
to Bradley，all retaining valves must be used on frey，hht trains descending mustades be usicad．to Chester and Dark－
nell to Rockford and on freight and mixed trains Jerita to Hay Alto o o Menoken，Turner to Dayton，maixed trains Jeraminta no to to ex，
ceed fifty gross tons per car，may be handled without the ceed firty gross tons per car，may be handled without the use of
retaining valves．On trains averaging to exceed fifty gross tons per car，one half of all retaining valves must be used． train．
When retaining valves are used，freight 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 ing each mile
prescribed．

## rating of diesel locomotives in freight service in tons of 2000 pounds

 Total weight of train exclusive of locomotive，which the diferent classes of locomotives will haul in each direction bet weenstations named，under favorable weather conditions．Rating shown is for single unit．If more than one unit，rating of com

| ${ }_{\text {I }}^{\text {a Comotive }}$ | NUMBERS | First subdivision |  |  |  |  |  |  |  |  |  |  |  |  | SECOND Subdivision |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \stackrel{8}{8} \text { 品 } \\ & \text { yay } \end{aligned}$ |  |  |  |
| EMD－GP9－F9 | 130 to 349 500 to 542 B | 1780 | 840 | 3440 | 1780 | 3010 |  | 900 | 1220 | 2480 | 123 | Carar limit |  |  | 1810 |  | 830 | 3010 | 1640 | 920 | Car limit |  |
| EMD－GP7 |  | 1700 | 830 | 3390 | 710 | 35 |  | 970 | 1180 | 2450 | 1220 | Cartimit |  |  | 179 |  | 800 | 3550 | 1620 | $8: 30$ | Car limit |  |
| EMD－Cli＇－2 | $00_{0} 7$ | 1690 | 790 | 3230 | 1690 | 3390 |  | 49 | 1170 | 2350 | 1170 | Carlin |  |  | 1720 |  | 790 | 3390 | 1550 | 880 | Car limit |  |
| EMD－SD | 400 to 4 | 2740 | 1290 | 5290 | 2710 | 5550 |  | 8800 | 1900 | 320 | 1900 | Car lim |  |  | 2790 |  | 1280 | 555 | 2520 | 1420 | Carrimit |  |
| емd | 1000 to 1095 | 1100 | 560 | 3000 | 1250 | 3000 |  | 000 | 890 | 2250 | 890 | Car limit |  |  | 1100 |  | 500 | 3000 | 1100 | 500 | Cur |  |
| emp | 1800 to 1824 | 1300 | 590 | 3250 | 1300 | 3250 |  | 000 | 980 | 3250 | 960 | Cur linit |  |  | 1300 |  | 590 | 3250 | 1300 | 590 | Curli | limit |
| GE－U251 | 625 to 028 | 1930 | 920 | 3880 | 1930 | 3850 |  | 370 | 1340 | 2670 | 1340 | Carlimit |  |  | 1960 |  | 10 | 3850 | 1770 | 020 | Carlimit |  |
| Alco DI $\sim 640$ | 675 to 678 | 1890 | 900 | 3020 | 189 | 3790 |  | ${ }^{20}$ | 1310 | 26.40 | 1310 |  |  |  | 1930 |  | 890 | 3790 | 1740 | ${ }^{920}$ | Carlim |  |
|  |  | THIRD SUBDIVISİON |  |  |  |  |  | Fourth subdivision |  |  |  |  |  |  |  | FIfTH BUBDIVİİN |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| EMD－GP9－F9 |  | 4000 | 4500 | 3740 | 520 | 0 |  | 00 |  | 5200 | 3200 | 1900 |  | 4300 | 4000 | 1000 |  | 2200 | 4500 | 4750 | 1900 | 5000 |
| EMD－GP7－F7 |  | 3860 | 4320 | 3010 | 55 | 2600 |  |  | 500 | 550 | 3140 | 1730 |  | 4150 | 3930 |  | 4250 | 1990 | 4320 | 1000 | 1500 |  |
| EMD－GP－20 | 700 to | 3020 | 4040 | 3390 | 499 | 2550 |  |  | 2910 | 4990 | 2960 | 1640 |  | 3890 | 3690 |  | 4040 |  | 4040 |  | 1480 |  |
| EMD－SD－24 | 400 to 414 | 5950 | 6650 | 5550 | 820 | 4160 |  |  | 4780 | 8200 | 4830 | 2670 |  | 6400 | 6050 |  | 6050 |  | 606 | 0100 | 2400 |  |
| emd | 1000 to 1095 | 2000 | 3000 | 2200 | 330 | 1900 |  |  | 3000 | 4000 | 3000 | 1250 |  | $\left\|\frac{3000}{3200}\right\|$ | $\frac{3000}{3200}$ |  | 3500 1800 |  | 3500 |  | 1650 |  |
| EmD | 1800 kc 1824 | 2200 | 3200 | 2400 | 350 | $\|$2100 <br> 290 <br> 10 |  |  | 3200 | 4360 | 3200 |  |  | $\begin{array}{c\|c} \hline \frac{3700}{4550} & \frac{19}{45} \\ \hline 4520 & 21 \\ \hline 45 \end{array}$ |  |  | 3700 3700 <br> 4590 4270 <br> 4520 4200 |  |  |
| $\mathrm{GE}^{\text {GE－U25B }}$ | 625 to 628 | 4120 | 4590 | 38 |  |  |  |  | 0｜ $29110\|\mid 3320$ | 5670 | 3360 | 1880 4.20 |  |  |  |  | $\frac{3200}{4190}$ |  |  |  |
| Alco DL， 640 | 675 to 078 | 4050 | 4520 | 3790 |  | $580 \mid 2$ | ， |  | 3200 | 5580 |  |  |  |  | 4130 |  |  |  |  |  |
|  |  | SIXTH SUBDIVIIIION |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | 諸 |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { s. } \\ & \text { 気感 } \end{aligned}$ |  |  |  |
| EmD－GP9－F9 | 130 to 319 500 to 542 B | 2070 |  | 6900 | 4250 |  | 6900 |  |  | 4320 |  | 670 |  |  |  | 4780 | 3090 |  | 4320 |  | 2670 |  | Car limit |  |
| EMD－G P7－F7 | （100 to 129 | 2300 |  | 5970 | 3070 |  | 5970 |  |  | 4250 |  | 2000 |  |  | 3050 |  | 4250 |  | 2300 |  | Car limit |  |
| EMD－G1－20 | 700 to 729 | 2550 |  | 6490 | 4040 |  | 6490 |  |  | 4040 |  | 2550 |  |  | 2910 |  |  | $\begin{aligned} & 1040 \\ & \hline 1050 \end{aligned}$ | 2550 |  | Cur linit |  |
| EMD－SD－24 | 100 to 444 | 4160 |  | 10860 |  | 6050 |  | 10800 |  | 6050 |  | 100 | $\begin{array}{\|l\|} \hline 1470 \\ \hline 7370 \\ \hline \end{array}$ |  |  | 60 |  |  | 4160 |  | Cur limit |  |
| EmD | 1000 to 1095 | 1900 |  | 3500 | 3200 |  | 3500 |  |  | 3300 |  | 1900 | $\frac{2900}{3100}$ |  | 1900 |  |  | 35003700 | 1900 |  | Car limit |  |
| EmD | 1800 to 1824 | 2150 |  | 3700 |  | 3400 |  | 3700 |  | 3500 |  | 0 |  |  |  | 00 |  |  | 21002910 |  | ${ }_{\text {Carlimit }}$ |  |
| GE－U25B | 025 to 028 | 2910 |  | 7370 | 4590 |  | 7370 |  |  | 4590 | 2910 |  | 5070 <br> 4990 |  | 3320 |  |  | $\frac{4590}{4520}$ |  |  |  |  |
| Alcar Di－640 | 075 to 078 | 2800 |  | 7200 |  | 4520 |  | 7280 |  | 4520 |  | 880 |  |  |  | 60 |  |  |  | 80 | Car | limit |
| FM | 1300 to 1304 | 1900 |  | 3500 |  | 320 |  | 3500 |  | 3300 |  | 190 |  | 2：000 |  | 00 |  | 3500 |  | 000 | Car | limit |
| FM | 1325 to 1329 | 2820 |  | 0820 |  | 4180 |  | 0820 |  | 4180 |  | 2620 |  | 4830 |  | 90 |  | 4180 |  | 220 | Car | limit |
| FM | 1340 to 1342 | 2980 |  | 7780 |  | 4750 |  | 7780 |  | 4750 |  | 2980 |  | 5270 |  | 10 |  | 4750 |  | 980 | Carli | limit |
| FM | 1300 to 1370 | 0 |  | 6020 |  | 4100 |  | 6020 |  | 4100 |  | 2580 |  | 4530 |  | 50 |  | 4100 |  | 2580 | Car li | limit |

rating of diesel locomotives in friaght service in tons of 2000 pounds


rating of diesel locomotives in freight service in tons of 2000 pounds
 bined units will borerer

|  |  | yakima branch |  |  |  |  |  |  |  |  | ${ }_{\text {WRALLILA }}^{\text {WRA }}$ |  |  |  | pendleton branch |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\frac{H_{1}^{2}}{\frac{1}{1}}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { ? } 8 \text { 品 } \\ & \text { 管 } \end{aligned}$ |  |  |
| EMD－GP9－F9 |  | 4000 | 3500 |  | 3500 |  | 500 |  | 4000 |  | 1700 |  | 00 |  | 500 | 13.50 | 1200 | 950 | 1750 | 750 | 3700 |
| EMD－G1P7－F7 | ${ }_{4}^{1000}$ to 129.1496 | 4000 | 3500 |  | 3500 |  | 500 |  | 4000 |  | 1700 |  | 000 |  | 1500 | 1350 | 120 | 950 | 1750 | 750 | 3500 |
| EmD | 1000 to 1095 | 330 | 3300 |  | 3300 |  | 300 |  | 33 |  | 1450 |  | 850 |  | 100 | 1150 | 10 | 750 | 1400 | 775 | $\overline{3500}$ |
| EMD | 1800 to 1824 | 3200 | 3200 |  | 3300 |  | 20 |  | 3200 |  | 1550 |  | 00 |  | 400 | 1250 | 1125 | 800 | 1400 | 850 | 3750 |
| FM | 1300 to 1304 | 3500 | 3000 |  | 3000 |  | 000 |  | 3500 |  | 1450 |  | 00 |  | 1800 | 1425 | 1250 | 975 | 1550 | 800 | 3500 |
| FM | 1325 to 1329 | 4000 | 3500 |  | 3500 |  | 500 |  | 4000 |  | 1400 |  | 00 |  | 1700 | 1550 | 1350 | 950 | 1650 | 875 | 3500 |
| FM | 1340 to 1342 | 4200 | 3700 |  | 3700 |  | 300 |  | 4200 |  | 1400 | 30 | 000 |  | 1900 | 1750 | 1550 | 1150 | 1850 | 1000 | 3500 |
| r＇m | 1360 to 1370 | 4000 | 3500 |  | 3500 |  | 500 |  | 4000 |  | 1600 |  | 00 |  | 700 | 1550 | 1350 | 950 | 1650 | 875 | 3500 |
|  |  | TETKOA－AYER BRANCH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | $\frac{3 y_{8}^{3}}{83}$ |  |  |  |  | $\stackrel{\stackrel{8}{4}}{\substack{4 \\ 4 \\ \hline}}$ |  | $\begin{aligned} & 34 . \\ & \text { 韋 } \end{aligned}$ |  |  |  | $\begin{aligned} & \left.\begin{array}{l} 2 \\ 3 \\ y_{3} \end{array}\right\} \end{aligned}$ |  |  |  |  |  |  |
| EMD－GP9－F9 | － $\begin{array}{r}130 \\ 500 \text { to } 349 \\ \hline\end{array}$ | 1700 | 4000 | ${ }^{625}$ |  |  | 180 |  | 5000 |  | 4000 |  | 1300 |  | 1000 |  | 850 | 750 | 1350 | 300 | 1450 |
| EMD－GP7－F7 | 1400 to 129 | 1700 | 4000 | 600 |  |  | 190 |  | 5000 |  | 4000 |  | 1350 |  | 1000 |  | 800 | 1750 | 1350 | 2300 | 1400 |
| EMD | 1000 to 1095 | 1200 | 3500 | 400 |  |  | 150 |  | 400 |  | 3200 |  | 11 |  | 700 |  | 500 | 100 | 1000 | 2000 | 1150 |
| EMD | 1800 ¢ 1824 | 1300 | 3700 | 450 |  |  | 165 |  | 5000 |  | 3400 |  | 1250 |  | 750 |  | 650 | 1550 | 1100 | 2200 | 1250 |
| FM | 1300 to 1304 | 1450 | 3500 | 525 |  |  | 170 |  | 5000 |  | 3500 |  | 1300 |  | 900 |  | 750 | 1850 | 1250 | 2250 | 1350 |
| FM | 1325 to 1329 | 1700 | 4000 | 750 |  |  | 190 |  | 5000 |  | 4000 |  | 1350 |  | 1000 |  | 950 | 1850 | 1350 | 2300 | 1400 |
| FM | 1340 to 1342 | 1900 | 1000 | 8.50 |  |  | 210 |  | 5000 |  | 4000 |  | 1450 |  | 1200 |  | 100 | 000 | 1450 | 2600 | 1600 |
| FM | 1360to 1370 | 1700 | 4000 | 750 |  |  | 190 |  | 5000 |  | 4000 |  | 1350 |  | 1000 |  | 950 | 1850 | 1350 | 2300 | 1400 |
|  |  | plensant valley blanch |  |  |  |  |  | dayton branch |  |  |  |  |  |  | pomeroy branch |  |  |  |  | $\begin{aligned} & \text { MOSCOW } \\ & \text { BRANCH } \end{aligned}$ |  |
|  |  |  |  |  |  |  | 部虺 |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { sad } \\ & \text { bide } \\ & \text { aid } \\ & \text { aick } \end{aligned}$ |  | $\frac{y_{1}^{4}}{\frac{y y}{4}}$ |  |  |
| EMD－GP9－F9 | 130 to 349 500 to 542 B | 1780 | 3500 | 1575 | 1400 |  | 350 | 1800 |  | 80 |  | 1500 |  | 2000 |  | 1500 | 2500 | 1000 | 400 |  |  |
| EMD－GF7－F7 | $\begin{gathered} 100 \text { to } 129 \\ 1400 \text { to } 1496 \end{gathered}$ | 1750 | 3500 | 1550 | 1400 |  | 350 | 1650 |  | 850 |  | 1550 |  | 2100 |  | 1550 | 2550 | 1100 | 400 |  |  |
| EMD | 1000 to 1095 | 1400 | 3000 | 1150 | 950 |  | 00 | 160 |  | 875 |  | 875 |  | 3000 |  | 00 | 3500 | 350 | 300 | 1200 | 3500 |
| EmD | 1800 to 1824 | 1550 | 3200 | 1250 | 1025 |  | 00 | 1600 |  | 875 |  | 875 |  | 3000 |  | 1350 | 3500 | 3500 | 490 | 1300 | 3700 |
| FM | 1300 to 1304 | 1600 | 3000 | 1410 | 1130 |  | 20 | 2000 |  | 1150 |  | 1150 |  | 3350 |  | 1400 | 3500 | 3500 | gon | 1700 | 3600 |
| FM | 1325 to 1329 | 1700 | 3000 | 1550 | 1400 |  | 350 | 2000 |  | 1150 |  | 1150 |  | 3350 |  | 1100 | 3500 | 3500 | 600 | 2200 | 3500 |
| FM | 1340 to 1312 | 1900 | 3500 | 1750 | 1600 |  | 00 | 2000 |  | 1150 |  | 1150 |  | 3350 |  | 1400 | 3.500 | $\overline{3500}$ | 600 | 2400 | 3500 |
| FM | 1360 to 1370 | 1700 | 3000 | 1550 | 1400 |  | 350 | 1675 |  | 1000 |  | 1000 |  | 3000 |  | 1400 | 3500 | $\stackrel{3}{3500}$ | 600 | 2200 | 3500 |

## RATING OF DIESEL LOCOMOTIVES IN FREIGHT SERVICE IN TONS OF 2000 POUNDS

otations named, under favorable weather conditions. Rating shown is for single unit. If more than one unit, rating of

|  |  | Sporane-tekoa branch |  |  |  |  |  | wallace branci |  |  |  |  |  |  |  | \| Connell brancil |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| EMD-GP9-T9 | ( $\begin{gathered}130 \text { to } 349 \\ 500 \text { to } 542 \mathrm{~B}\end{gathered}$ | 1750 | 1130 | 1650 | 2200 | 1435 | 4000 | 2250 | 1900 | 1900 | 500 | 150 | no0 | 3000 | 1000 | 3700 | 1200 | 1300 |
| EMD--GP7-F7 | (100 to 129, | 1720 | 1100 | 1600 | 2100 | 1400 | 4000 | 2200 | 1850 | 1850 | 475 | 425 | 870 | 3000 | 960 | 3700 | 1200 | 1300 |
| EMD | 100010109 | 1175 | 750 | 104 | 2000 | 964 | 3500 | 178 | 1300 | 1200 | 275 | 226 | 750 | 250 | 550 | 3500 | 1100 | 200 |
| EmD | 1800 to 1824 | 1275 | 825 | 1140 | 2150 | 1050 | 3700 | 1850 | 1750 | 1300 | 300 | 275 | 750 | 270 | 600 | 3700 | 1200 | 130 |
| FM | 1300 to 1304 | 1175 | 750 | 1050 | 2030 | 950 | 3500 | 2000 | 1500 | 1400 | 375 | 350 | 750 | 2500 | 775 | 3500 | 1200 | 1300 |
| FM | 1325 to 1329 | 1750 | 1180 | 1580 | 2250 | 1300 | 4000 | 2300 | 1850 | 1850 | 475 | 425 | 870 | 3000 | 700 | 3500 | 1200 | 1300 |
| ram | 1340 to 1342 | 2000 | 1360 | 1810 | 2550 | 1560 | -4000 | 2200 | 1850 | 1850 | 475 | 125 | 870 | 3000 | 900 | 3500 | 1200 | 130 |
| FM | 1300 ¢ 1370 | 1700 | 1180 | 1570 | 2170 | 1350 | 40011 | 2200 | 1850 | 18.50 | 475 | 425 | 800 | 3000 | 870 | 3500 | 1200 | 1300 |

