$$
\begin{aligned}
& \text { Total weight of train exclusive of locomotive, which the difforont classes of locomotives will haul in each direction between } \\
& \text { stations named, under favorable weather conditions. Rating shown is for single unit. If more than one unit, rating of com- } \\
& \text { hinad unita will conarn. }
\end{aligned}
$$



Union Pacific Raliroad Company Northwestern District Oregon Division SPOKANE INTERNATIONAL railroad company

## Special

 Instructions No. 18Effective Thursday June 1, 1967

Superseding Special Instructions No. 17

Employes whose duties are in any way affected thereby, must have a copy of these instructions with them while on duty

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G. H. BAKER,
w. J. Fox,
General Superintendent
W. G. JOHNSON Superintendent
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## SPECIAL INSTRUCTIONS-ALL SUBDIVISIONS

## Railroad Watche

2 (R). Referring to Rule 2 of the Consolidated Code of Oper
ating Rules, the following will govern: Employes listed below must, while on duty, have and use "
reliable railroad grade watch** which must not vary more thni 30 seconds from correct time.

Msployes in train, engine or yard service.
Assitant Superintendents of Safety and Courtesy
Trainmasters
Assistant Terminal Superintendents
Astan
Noad Foremen of Engines
Road Foremen
Station Agents
Outside Hostler Helpers
Such other employes as may be designated
Except when assigned in offices where
located.) a railrod assigned in offices where standard clock in with a lever set, or a wrist watch of approved type) Wrist watches approved under this rule are:
Bal1 "Official Railroad Standard" Model 1604B, 21 jewel, si\% 13 ligne;
Bulova "Ac
Bulova "Accutron-Railroad Approved" model;
Elgin ".B. W. Raymond" model, 23 jow
Hamilton electric Modd" model, 23 jowel, size "Ras $13 / 0$
$3(R)$. At stations where there is no standard clock, operatorn must compare time with the train dispatcher as soon as practicahli,
after commencing each day's work, but before making time com after commencing each day's
parisons with other employes

Signale
7 (R). When starting trains with helper on rear end of traill
and it is not possible to relay signals, the following method will be used: $\begin{aligned} & \text { Wheady to move, engineer on head end will make a } 15 \text {-pound }\end{aligned}$ automatic brake pipe reduction, return brake valve to runnin position and wait three minutes. Engineer on helper engine wif
start three minutes after his gauge shows brake pipe pressur
8 (R). Yellow flags by day and yellow lights by night will bo used by switchtenders and herders.
Proceed signals as well as stop signals given by switchtendors must be answered.

Reduce and Resume Speed Sign
$12(R)$. Reduced Speed sign showing by figures the maximum
speed permitted, placed on engineer's side of track, indicates that speed permitted, placed on enkineer's side of track, indicates that
the track 2500 fect distant is in condition for a speed of not mor-
than indicated by the sign. Example: $60-25$ will indicate than indicated by the sign. Example: $60-25$ will indicate maxi-
mun1 speed of 60 MPH for passenger trains, 25 MPH for freight trains.
Resume Speed sign placed on engineer's side of track, indicatos
that the Reduce Speed location has been passed. that the Reduce Speed location bas been passed.
The entire train must pass over the designated location at the The entire train must pass over the designated location at the
specified speed.
Such speed restrictions will also be shown in time-table or
superintendent's bulletin.

Engine Whistle Signals
15 (R). In addition to locations Slisted in Operating Rule 15 (1),
engine whistle mnst be sounded and bell rung approaching privalic crossings when view of crossing is obscured or when it can be seen that pe
the crossing.

## Tri Radial Lights

17 (R). Revolving amber light on locomotive so equipped must
be burning both day and night On road congines when engine is moving, except on trailing units in multiple consists; in multiple consists;
On yard engines when moving in a street and when approach-
ing and passing over any public or private crossing

19 (R). Union Paci/ic trains will display the following types of (a) Marker lamps, unlighted ly day, lighted by night; or,
(b) Cupola-mounted marker lights, on cabooses so equipped, (c) Soscillating rca rear end light; o
(d) On
(d) On branch lines and on truins or cnroutc to or from branch 19 (S). Red reflectorized disc with hinged cover; applied to Whist be concealed except when its use is required to comply with minst
liule 19 (A)
93 ( $R$ ). Unless othovemise authorized, a train or engine nurust
 ment. Flag Protection
99 (K). Maintenance of Way Rule e9 ( F ) reads as follows:
When an employe alone, finds track or bridge unsafe for train Wh normal speed, he must immediately place a red flag by day or a red light by night between the rails of the track, or on the
cingineers side of the thack, in both directions one-e.ighth mile
( 660 feet) trom the point of obstruction. After red signals 'ngineer's side of the track, in both directions one-eighth mile
( 660 feete trom the point of obstruction. Atter red signals are
placed, he must go in one direction and place two torpedoes on rail one-half mile from red signal and an ard atitional set of of two
lorpedoes one and one-half miles from red signal, then place lorpedoes in same manner in opposite direction. When signals
lave been placed, flagman must return to point of obstruction have been placed, flagman must return to opint of obstruction
where he must remain until relieved by another flagman, excep hat if a train approaches he must go toward it and flag it wit "During foggy or stormy weather and in vicinity of obscured curves or heavy descending grades, or if other conditions mak
it necessary, he must increase the distance, placing two torpedoes it necessary, he must increase the distance, placing two torpedoe
at every onc-fourth mile beyond the second set of torpedoes.
"On single track, or if more than one track is obstructed "On single track, 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 rist train is expected and, in addition, in case more than one racks obstructed. On a heavy grade, if it is not known from
which direction a train is first first against trains moving down expected,
first against the current of traffic unless he has onled, he must go train will arrive first from the opposite direction.

Public Crossings
103 (R). When a train, engine or switching movement is to be automatic crossing sig of the cre
is on duty

Switches
Switches
104 (R). Except where otherwise specified, No. 14 104 (S). For movement through a spring switch where engine 212 (R). Timc in body Train Orders
212 (R). Time in body of train orders must be stated in words
nd figures. In transmitting and repeating train orders, time nust be spelled and then pronounced, example: " $t$-w-o $t-e-7$ 215 (R). Except at initial stations, when a train's superiority
is restricted for an opposing train at the point where the order is
ind issued to it, the order must not be made complete to the train pedoes on the rail not less than the operator has placed two tor
signal in the direction from the train ordesignal in the direction of the restricted train, and the train dis-
patcher has been notified that torpedoes have heen placed. In ad-
亩 dition, the restricted train must be brought to a stop by operator,
using red flag or red fnsee, before the train dispatcher OK's the
clearance. ment has passed next opposing signal and it is necessary to make a reverse move
operator. Control operator must block signal levers and must not change
position of the switch, clear a signal for a conflicting movement, or remove marker blocks until he has been advised verbally by a member of the crew that his train has backed clear of the insulated
joints at the sirnal joints at the signal.
After having mat
After, having made reverse movement under these circum-
stances, no forward movement may be made except on signal
indication or authority from control onato 275 (S). When necessary to perform switching over dual control
switch as provided in Operating Rule 275 (A), first move, when must be made on signal indication.
275 (T). When communication fails and it is neccssarv to hanc operater remote control or dual control switches, switch must not
be operated until five minutes after selector lever has been placed
in HAND position.
aUtomatic cab signal system rules Note--Automatic Cab Signal System Rules will be used only
in ACS territory specified in the time-table or in special instrucin

Aspects
ote-In the following illustrations R-Red
Y- Yellow
G-Green
451. Name-Restricting


Indication-Proceed at restricted speod


Indication-Proceed prepared to pass next signal at not ex-
ceeding 40 miles per hour.


Rulen
454. Automatic Cab Signal Syatem supplements automatic
block signals in governing the use of blocks, but does not supersede the superiority of trains, nor dispense with the not soervaparee
of rules governing the use of automatic block or other signals and rulus whenever and wherever they may be required, except a
prescribed by Rule 456 . 45. When cab signal indication changes to a more restric.
tive indication, engineer must acknowledge with acknowledging 456.
456. When a train is proceeding after having been stopped by
block signal, if cab signal changes toa a less restrictive indicaa block trin may proceed in accordance with indication reeciled
after it has moved its length beyond point where cab signa after it has moved its length beyond point where cab signal
changed.
Excention: Rule 456 docs not apply when proceeding after
hexe been stopped by a flashing red light on a block signal. 456 (R). Automatic Cab Signal Rule 456 does not apply when a
train is proceeding after having been stopped by a block signa governing movement through a block in which slide warning de
tector fences are located. In such case, movement through the tector fences are located. In such case, movement through the
entire block must be made at restricted opeed regardless of the
fact that the cab signal changes to a less restrictive indication. 457. When cab signal indication dose not correspond with block
signal indication, engineer must be governed by the most resigna, Wnication, engineee
strictive indication displayed by either signal, and must repor
the fact to train dispatcher from flrst available point of com the fact to train dispatcher from frast available point of com-
munication, giving signal number and engine number.
When cab signal indication does not correspond with block When cab signal indication does not correspond with block
signal indication for two consecutive blocks, cab signal may be
considered inoperative. If previous advice has been received from consin dispatcher or by bulletin of invoperative cab signal wrom
traithin
designated limits train designated limits, train must proceed withine those limits
cordance with second and third paragraphs of Rule 458 .
 ceeding 40 miles per hour to the next available point of communi
cation where report must be made to train dispatcher, who wil instruct as to cutting out cab signal devices and further move
ment ment of train.
When cab signal devices have been cut out, train may proceed
in accordance with block signal indications but not exceeding 79

 tor a less restrictive indication within three minutes, it may be as
sumed that the block signal is inoperative and the train may pro sumed that the biock signal is inoperative and the
ceed complying with the block signal indication.
459. When necessary to use a non-equipped engine on a pas
senger train, movement must be same as with engine with inoperative cab signal
graphs of Rule 458.
460. When equipped engines are double-headed, all but leading
461. When engineer takes charge of an equipped engine in cab ab signal devices are cut in. Operative tests must be made by engineer before entering cab
signal territory. Cab signal devices must not he cut out while in cab signal 462. Cab signal devices must not he cut out while in cab signal
territory without authority.
On territory without authority.
On an equipped engine with three-position acknowledging de-
vice, use of cut-out position is prohibited when operating within cab signal territory, except when authorized.
When seals on cab signal devices are broken, or found broken or missing, report must be made promptry.
463. Cab signals will not indicate conditions ahead when the ongine is:
(a) Moving against the current of traffic.
) Pushing cars. for backward running and is running back464. Ir the cab warning whistle sounds longer than 6 seconds,
nother memher of crew in cab of engine must on to the engineer nmediately and ascertain cause, and when conditions requir 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.
Shlock Signals
509 (R). When a slide warning device plug is found pulled or
ontroller operated but no obstruction on or damage to track is controller operated but no obstruction on or damage to track is
found, the plug must be replaced, if practicable, or controller re-

 played ly a track occupancy indicator (block indicator is not
attliority for a train or enyine movement, nor does it relieve a
train or engine from writing five minutes before fouling a main 51 (R). If a block signal fails to display its most restrictive
sdication when a block is occupied or when a switch connecte Indication when a block is occupied or when a switch connected
with automatic block signal system is changed from its normal
iosition position, it must be regarded as displaying a Stop indication. A
member of the crew must be left at signal and he must stop all
rains moving in the direction trains moving in the direction governed by that signal and inform
them of false-clear indication. Flagman must remain there until
relieved by an employe of Signal Department or by instructions A rrom proper of ficer.
A train or engine with no brakeman must place a red flag in enter of track opposite the signal; then in both directions place
two torpedoes one-half mile from red signal and two torpedoes Ine arpecoes one-hali miles from red signal.
In all cases, train dispatcher must be notified from first avail650 (R) Use of Radio
Miance with any operating rule
Employes on tritinsmust not ask, and employes at stations mus not advise the indication of block signals, interlocking signals
or train order signnlls, nor moky succl information be passed from
 Chranels assigned to other railrouds are provided for use omly
whlite operating over those railrouds. Use of these shannels in bther territorie..s is prollibited.
$700(R)$. Limployeses
Sasety Precautions
mot step on then
,
Passengers on Freight Traing
710. (R). The following passengers only may be carried on
freight trains between stations at which the trains stop:
Persons in charge of live stock or other freight when pro-
vided with proper transportation; Employes of Union Pacific Railroad with annual pass when
traveling on company business requiring use of freight trains;
ther persons with annual or trip pass only when ent
Other persons with annual or trip pass only when endorsed
"Good on Frieight Truans"; Passengers holding revenue tickets with permit issued by
superintendent.

710 (R). Continued.
Agents and conductors must notify passengers, stockmen, mes-
sengers and caretakers that they must ride in the place provided or 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 cars while train is in motion, and that in all case.
be stopped at designated points for this purpose.
$713(R)$. When train inspection of Traving a trains an must be stationed
on rear of train to give or receive signals as follows:
When meter When meeting trains on double track; when meeting or passing
trains on sidings; when passing train order signals. On freight trains on sidings; when passing train order signals. On freight
traing, trainman must be on rear platform of caboose, on pas-
senger trains, he may be on platform of rear passenger-carrying senger trains, he may be on platform of rear passenger-carrying
car, and top half of vestibule door must be open. 713 (S). When stop is made by a passenger train due to some
condition atfecting the equipment of that train, a thorough in-
spection of the train must be mad before spection of the train must be made before proceeding. 713 (T). When starting from initial stations and intermediate
stops, freight trains nust not exceed 6 MPH for the first train
long stops, freight trains nust not exceed 6 MPH for the first train
length unles proceed signal is received fron trainman, or it is
lnown that all members of the crew are aboard the train. 713 (U). On freight car whecls, fat spots two and one-half
inches or longer, or if there arc two or more ad joining spots each two inchles or longer, on passenger cars ore inch or longer, and on
turbine or diesel locomotives two inches or longer, are condemnable and when discovered in train, conductor or engineer must
immediately report to train dispatcher and be governed by his immediately report to train dispatcher and be governed by his
instructions.
714 (R). As soon as hot box is detected, train must be stopped 714 (R). As soon as hot box is detected, train must be stopped
and no attempt made to run to next siding to set out car without making an inspection before proceeding.
When a car is set out account hot box, all fire in box must be
extinguished. Dirt, gravel or snow must be placed on top of box extinguished. Dirt, gravel or snow must, be placed on top of box
at back end over top of dust guarr retainer opening. .f dry chem-
ical fire extinguiher available, contens of one bag should be
thrown into journal box and lid closed until fire extinguished, ical fire extinguisher available, contents of one bag should be
thrown into jounnal box and lid closed untit fire extinguished,
after which all packing must be revoved from wase packed box after which all packing must be removed from waste packed box
and any remaining fire therein extinguished. Pad lubricator must
be removed when practicable. Journal box lid must be left closed.
C be removed when practicable. Journal box lid must be left closed.
Conductor must make thorough inspection of car body before and
after attention is given to hot box to insure there is no further after attention is given to hot box to insure there is no further
danger of fire. danger (S). Loca
Tructions for each subdivision.
Crews of trains Crews of trains passing hot box detectors must be particularly
alert too observe change of signal indications due to more restric-
tive indications in case hot box is discovered
 Installation of hot box detectors and the instructions contained
in this rule in no way relieve embers of crew, operators or others
from compliance with rules relative to watching train, inspection
 musen advised
must stop immediately and journal must be inspected. If this
journal is of normal temperature, before proceeding, all other
jour
 side of car reported
advised of findinga.
726 (R). Cars loaded with explosivives or
must not he permitted to stand over open flamme switch heater. If
stop is made with such cars standing over open flame heater stop is made with such cars standing over open flame heater, flame
must he extinguished. 726 (S). Cabooses, outfit cars or other cars which contain
stoves with fire hurning, must be placed in yardd or at stations
where the danger of fire is minimized stoves with fire hurning, must be placed in yards or at stations
where the danger of fire in ininimized to the greatestextent prac-
ticable. Such cars must not be left unattended on bridges for
extended ticable. Such cars must
extended periods of time.
726 (T). Employees are prohibited from smoking or carrying rs while same are being loaded, unloaded or while in transit. Handling of Explogives or Other Dangerous Articles
729 (R). Trainmenen, enginemen, yardmen, agents and other em-
(s) who in any way handle or care for explosives and othe planeer who in any way handle or care for explosives and other
dangerous articles must familiarize themselves with the regu-
lations and instructions governing the handling of them.

BE 589 (b), A car requiring car certificates and "Explosives," Flammable Poison Gas," "Dangex ous-Empty Flammable Poison Gas," Dangerous-empty Poison Gas or Caution- Residual
Phosphorus" placards under the provisions of this part shall not
be transported unless such freight car is at all times placarded be transported unless such freight car in at all times placarded
and certificated as required. Placards and car certifcateas lost in
transit shall be replaced at the next inspection point, and those and certincated as required. frecenct inspection point, and those
transit shall be replaced at the net
not required shall be removed at the next terminal where the train not required s
is classified.
 placarded bxplesives and adjacent cars shal be inspected;
such car shail continu in movement only when inspection
shows them to be in condition for safe transportation. Switching Cars Containing Explosives, Poison Gas, or Flammable
Poison Gas or Placarded Trailers on Flat Cars BE 589 (c). A car placarded "Explosives," "Poison Gas," or
"Flammable Poison Gas." or any, flat car carrying a trailer placRadioactive Material" shall not be cut off while in motion. No
 Poison car Gas,", or any any flat car car carrying a trailer placarded "Ex-
plosives," "Poison Gias," "Dangerous," or "Dangerous- Radioacplosives, "Poison Gas," "Dangerous," or "Dangerous-Radioac-
tive Material," nor shall any such car be coupled into with more
fore than is neessary to BE 589 (c). (1) When transporting a car placarded "Explo-
sives" in terminals, yards, side tracks, or sidings, such cars shall be separated from the engine by at least one non-placarded car. BE 589 (c). (2) Closed cars placarded "Explosives" shall have
帾
Switching of Cars Containing Dangerous Articles is neeeessary, a placarded loaded tank carere or a a draft of which in-
cludes a placarded loaded tank car hhall not be cut off until the preceding car or cars clear tho 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. to follow.
BE 589 (d). (1) In switching operations where hand brakes are used, it shall be determined by trial that a car placarded
""angerous" or that a car occupied by a rider in a draft con-
taining a car placarded "Dangerous" has its hand brakes in
pron working taining a car placarded "Dangerous" has it
proper working condition before it is cut off.
Placement of Freight Cars Containing Expl
BE 589 (e). Cars placarded "Explosives" that they will be safe from all probable danger of fire. Freight
cars placarded "Explosives" shall not be placed under bridges or overhead highway crossings nor in or alongside of passenger Notice to Crews of Cars Containing Explosives in Freight Trains BE 589 (f). At all terminals or other places where trains are
 bound movement of cars, the railroad shall execute
tively numbered notice showing the location in the freight train
or mixed train of every ear placarded "Explosives." A copy of such notice shall be delivered to the train and engine crew and a
copy thereo showing delivery to tho train and engine crew shall be kept on file by the railroad at each point where such notice is
given. At points where train or engine crews are changed, the given. At points where train or engine crews
notice shall be transferred from crew to crew.

Position in Freight Train or Mixed Train of Cars
BE $589(\mathrm{~g})$. In a freight train or a mixed train either stand-
transportation thereof, a car placarded " Explo ing or during transportation thereof, a car placarded "Explo-
sives" shall, when length of train permits, be placed not nearer except:

BE 589 (g). Continued.
permit it to be so pla
the trat
permit it to be so placed, it shall be placed near the middle of
the train. (2) When transported in a freight train made up in "blocks"
or classifications, a car placarded "Explosives" shall be placed
near the midde near the middle of the "hlock" or classification in which moving,
but not nearer than the sixth car from both the engine or ocbut not nearer
cupied caboose.
(3) When transported in a fright train or a mixed train per-
forming pickup and/or setoff service, it shall be placed not nearer than the second car from both the engine or occupied caboose, ex-
cept as provided in paragraph (1) of thia section.

Separating Cars Placarded "Explosives" From Other
BE $589(\mathrm{~h})$. In a freight train or a mixed train either standink BE $589(\mathrm{~h})$. In a freight train or a mixed train either standink
or during transortation thceof, a car or flat car carrying trail-
ers or containers placarded "EEpplosives" must not be handled ors or containers placarded "Explosives" must not be handled
next to: Occupied passenger car; except as provided in paragraph
(1) of this section.
Occupied combination car; except as provided in paragraph (1) of this section. "Dangerous" or "Dangerous-Radioactive Material."
Engine.
Any car placarded "Poison Gas" or "Flammable Poison
Waden under frame car (except on narrow gauge railLaaded dat car, except that cars carrying trailers or con-
tainers placarded "EXPLOSIVES" as authorized by the regFlat cars in equip chapted with may bermanently to eathech oterer. (Note. Flat cars equipped with permanently attached ends of rigid
construction shall be considered as open-top cars. See sub-
paragraph (8) of this paragraph.)
8. Open-top car when any of the lading protrudes beyond the
car ends or when any of the lading extending above the car
ends is liable to shift so as to protrude beyond the car ecar
operation, caur, with opent-1lame appararatus in service or with
internal combustion engine in operation.
internal combustion engine in operation.
Car containing lighted heaters, stoves or lanterns.
Car loaded with live animals or fowl, occupied by
12. Occupied caboose except as provided in paragraph (1) of this section.
Position in Train of Loaded Placarded Tank Car
BE 589 (i). In a freight train or a macarded traink except a train consisting entirely of placarded loaded tank cars and as pro-
vided in paragraph (j) of this section, a placarded loaded tank vided in paragraph (j) of this section, a placarded loaded tank
car shall when the length of the train permits, be not nearer
than the sixth car from the engine, occupied caboose or passenger car.
BE 589 (i). (1) When the length of the freight train or mixed
train will not permit it to be so placed, it shall be not nearer BE 589 (i). (1) When the length of the freight train or mixed
train will not permit it to be so placed, it shall be not nearer
than the second car from the engine, occupied caboose or passenger car.
BE 589. (i). (2) When transported in a freight train engaged
in "pickup" or "setoft" service, a placarded loaded tank car shall in "pickup" or "setoff" service, a placarded loaded tank car shall
be not nearer than the second car from both engine or occupied
caboose.

Separating Loaded Tank Cars Placarded
From Other Cars in Train
BE 589 ( j . In a freight trean or mixed train either standing or
during transportation thereof, a placarded loaded tank car must during transportation th
not be handled next to:

1. Occupied passenger car, other than cars occupied by gas
handlers and authorized personnel accompanying shipment.
2. Occupied combination cart, other than cars occupied by gas
3. handlers and authorized personnel accompanying shipment.
4. Any car placarded "Explosives."
Engine or occupied caboose, (except when train consists
5. Any car placarded "Explosives."
6. Engine or ocupuied catoose,
only of placarded loaded tank
oxars).
б. Any,. car placarded "Poison Gas" or "Flammable Poison
Gas." 6. Wooden under-frame car (except on narrow gauge rail-
roads). roads.) flat car, other than specially equipped cars in trailer-
7. Loaded
on-flat-car service or flat cars loaded with automobiles, on-flat-car service or flat cars loaded with automobiles,
trucks, or trailer bodies which arc secured by means of a
devicce or devices designed and permancntly installed on the devicc or devices designed and permancntly installed on the
flat arar for that purposeand on a type generally accepted for
handling in interchane betweer railroads. (Note: Flat cars equipped with permanently attached ends of rigid construc
tion shall be considered as open-top cars. See subparagraph (8) of this paragraph.)
open-top car when any of the lading protrudes beyond the
car ends or when any of the lading extending above the
car ends is liable to shift so as to protrude beyond the col car ends is liable to shift so as to protrude beyond the car
ends. . Car., trailers or truck horlies on flat car with automatic refrigerator or heating apparatus in operation; car, trailers
or truck bodies on flat car with open-flame apparatus in
service or with internal Service or with internal combustion encines in operation.
8. Car, trailers or truck bodies on tlat car containing lighted
heaters, stoves or lanterns except when car is occupied by heaters, stoves or lanterns except when car is occupied by
gas handlers or authorized personnel accompanying ship-
ment.

and an "Poison Gas," "Fram or Mixed Train of Cars Placar Poison Gas,", or Containing
Poison Liquids, Class A. BE 589 (k). In a freight train or mixed train either standing or
during transportation thereof, a car placarded "Poison Gas, aring transportation thereof, a car placarded "Poison Gas,
Flammable Poison Gas" or containing poison licuids, class A
hall not be next to other freight cars placarded "Explosives $r$ cars placarded "Dangerous.
BE 589 (k). (1) In a freight train or mixed train either stand-
 the handied next to:
(i) Occupied passenger car, other than cars occupied by gas
handlers and authorized personnel accompanying shipment. (ii) Occupied combination car, other than cars, occupied by gas
handlers and authorized personnel accompanying shipment.

## (iii) Any car placarded "EXPLOSIVES. (iv) Enginc or occupied

(iv) Enginc or occupied caboose.
(v) Any car placarded "DANGEROUS."
(v) Any car placarded "DANGEROUS."
(vi) Wooden under-frame car (except
(vi) Wooden under-frame car (except on narrow gauge rail
oads). (vii) Loaded flat car, other than specially equipped cars in
trailer-on-flat-car service or flat cars loaded with automobiles,
trucks or trailer bodies which nre secured by mean of a device rucks, or trailer bodies which are secured by mean of a device
or devices designed and permanently installed on the flat car for
hat or devices designed and permanenty instanco on the frat car ror
that puppose and of a type generally accepted for handling in
interchange hetwe.en railroads. (Note: Jlat cars equipped with permanently attached ends of rigid construction shall be
cred as open-top cars. See subparagraph (k) (1) (vii).)
(viii) Open-top car when any of the lading protrudes beyond
the car ends or when any of the lading extending above the car
ends is liable to shift so as to protrude beyond the car ends. (ix) Cabe to shirt so at protrude beyond the car ends. (ix) Cat, trailers or truck bodies on flat car with automatic
refrigcration or heating apparatus. in operation, car , trailers or
(ruck bodies on flat car with open-flame apparatus in service or refrigeration or heating apparatus in operation; car, trailers or
lruck bodies on flat car with open-flame apparatus in service or
with internal combustion engines in operation. with internal combustion engines in operation.
(x) Car, trailers or truck hodies on flat car containing lighted
heaters, stoves or lanterns except when car is occupied by gas heaters, stoves or lanterns except when car is occupied by gas
handlers or authorized personnel accompanying shipment. (xi) Car loaded with live animals or fowl, occupied by an at
tendant. Position in Freight Train or Mixed Train of Cars Placarded
"Explosives" or "Poison Gas" or 13 tht, and Cars Placarded "Explosives" or "Poison Gas" or Both, and Cars Placarded
"Flammable Poison Gas" When Accompanied hy Cars
Carrying Guards or Gas Handling Crews $\underset{\text { placards, or both, and a car requiring "Flammable Poison Gas" }}{\text { BE }}$

## BE 589 (1). Continued.

BE 589 (1). Continued.
placards, shall be next to and ahead of the car occupied by the
guards or gas handling crews accompanying such car; except that guards or gar ganding crews accompanying such cart; except that
when the car ocupied by gards 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 Tank Cars Placarded "Dangerous" in Passenger
BE $589(\mathrm{~m})$. Cars containing explosives, class A, poison gases
or liquids, class A, or flammable poison gas, and tank car requiring "Dangerous" placards shall not be transported in a passenger
train. Such cars may be transported in mixed trains but only at
such times and between such points that freight train service is not in operation.
Exceetion: Carload shipments of explosives may be made by express and handlea in passenger trains when in sealed experess
cars properly placarded. Such explosives may also be handled in cars properiy plactrided. Such exposives may also be handed in
au express peddler car with messenger in charge when such car
is assignecl to the handling of express and baggage exclusively. is assignecl to the handling of express and baggage exclusively.
BE 589 (m). (1) Cars containing explosives, class A, poison
gases or liquids, class A, or flammable poison gas, and tank cars placarded "Dangerous", shall not cabooses or cars carrying passengers in mix
provided in paragraph (1) of this section.
BE $589(\mathrm{~m})$. (2) When a car containing explosives, Class B,
or dangerous articles other than explosives requiring labels (not includimg Class A poison gases or liouids) is moved in a mixed train and such car is not occupied by an employe of the carrie
placarda 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 stan r during transportation thereof, a car placarded "DangerousRadioactive Material" must not be handled next to cars placarded
film.
Empty Tank Cars
$\begin{aligned} & \text { Empty tank cars must not he moved from stations unless }\end{aligned}$
dome cover and all outlet caps have been replaced and wrenched
 ous" ple
placards.

Power Tranemission Wire
734 (R). Power transmission wires carrying 2300 volt circuit
are locatco on top arms of signal pole lines and on top arms of
joint telegraph and signal pole lines aint telegraph and signal pole lines.
High and Wide Cars
799 (X). Trains handling cars or loads of excess height or in
excess of 12 feet in width must keep close lookout for close clearances and where overhead or side clearancei is doutffrul, movement
must be stopped and adequate protection provided Cars of excess height, at pror stencil or placard, must not be
switched with except in placimg them in and taking them out o rains. In switching movements such cars must not be cut of
while in motion, but must bed mitted to ride on top of such cars.
Loads of excess width must not be stored on nor moved over ard tracks where clearance is insurfice
ervening track hetween trains or cars containing loads of exces width. No one will be permitted to ride on the side of such cars.
Uniess otherwise instructed, cars of excess width or height must be handled in head end of train. must obtain meeting or passing 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 which is handling a wide load is notified by train
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 tranins receiving notice of wide lood in other trians Crews of trains receiving notice of wide load in other traing
must inspect heir train for open or swinging doors or anything
projecting beyond normal clearance.

Position of Cars in Trains
$805(\mathrm{R})$. Cars designated below must be handled in rear of
rain and next to caboose in the order named:

When being returned to loading points these cars carry water Such cars, loaded or with water ballast must be counled care-
fully and m must not be cut off whilie in motion. In switching moveThey must be entrained as near to rear of train as possille,
but not nearer than the sixth car from occupied caboose and must but not nearer than thene sixth acar from oco occupied caboose and must
be separated from the loconotive, from each other and from any be se seprated from the locomotive, J rom each other and from any
car with gross weight exceeding 177,000 pounds by at least three
cars of a gross weight not exceeding 177, ooo pounds. cars of a gross weight not exceeding 177,000 pounds. Except at loading or unloading facilities, where derail pro-
tection is arovided, if necessary to set these cars out or to leave
them unattended, they must be coupled to a another car of a diftectio unattended, they must be coupled to another car of a dif-
the
ferent type, hand braces applied on both cars and air reservooris
drain draine
cars.
$805(Y)$. DODX and USNX 28000 series box cars show tend-
ency to develop hot journals, whether loaded or empty, especially
in havay These cars must be entrained as near. to rear of train as pos-
sible consistent with Bureau of Explosives regulations (Special Instructions 729 (R), par. BE $589-g$ ), and must be carefull When helper engine is used on rear of train, helper must be
wut in ahead of such cars


Speedometors
928 (R). On locomotive equipped with speedometer, engine
nust verify accuracy of speedometer not less than twice durin each trip, by using watch to make time check between mile poste from point where engineer takes charge of locomotive. Care should he exercised to make check while speed is constant be
tween mile posts, and, when posible, or over.
When check indicates speedometer is not registering correctly, When check indicates speedometer is not
wire report must be made to train dispatcher.

$$
\begin{aligned}
& \text { Inspecting Locomotives } \\
& \text { peped at points between }
\end{aligned}
$$

Inspecting Locomotives
928 (S). When stopped at points between terminals where time
will permit, engineers must get on quound and inspect both sides
of their locomotive. This applies to both passenger and freight of their locomotive. This applies to bouth passenger and freight
trains, and to any type of locomotive. Diesel Locomotives
990 (R). Doors of high voltage cabinets must not be opened and
adjustments must not bo attempted nor made in high voltage cabinets of diesel locomotives until ensine has first been isolated
and stopped and units have come to a top. 930 (S). When a locomotive consisting of two or more units is
 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 full
complement of motors or when it is necessary to cut out one or more of the motors at any time enroute, train dispatcher must
be notified at first atop or first open telegraph office. 930 (U). When necessary to break seals on equipment and con930 (U). When necessary to break seals on equipment and con-
tron lockers on diesel road units, notation must be made on en-
gineer's work report with explanation of necessity for breaking sineer's work report with explanation of necessity for breaking
seals (V). On 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 on
any train. ny train.
930 (W). On diesel locomotives, side and end doors of engine
cooms must be kept closed while the locomotives are moving. 930 ( $X$ ). Referring to Rule 101 ( (C), the Sollowing will Rovern:
Diesel engines must not be towed, or operated under their own Diesel engines must not be towed, or operated under their own
power, through water over three inches above rail. When towed or operated under own power throush wa
of three (3) MPH must not be exceeded.
Track Restrictions
$\begin{aligned} & 934 \text { (R). Freight cars } 85 \text { feet or more in length must not be } \\ & \text { handled on curves in excess of } 16 \text { degrees excent as follows: }\end{aligned}$
lhaudled on curves of more than 16 degrees but not exceeding 20
degrees at speed not exceeding 4 miles per hour. A member of crew 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 lateral movement of coupler, as ticular attention must te given to ateral movement of coupher, as
critical point of movement on curve develops when coupler ap-
proaches maximum lateral movement permitted by coupler ${ }^{\text {opening. }}$

## Overhang at end of these cars is greater than on other cars and clearances must be watched closely when handling on curves in

 excess of 16 degrees.934 (S). In handling hydra-cushion cars on industrial tracks
. where curvature is 30 degrees or greater, movement is restricted
to single car and unit.

1001 (R). Engineer must know bef
1001 (R). Engineer must know before moving an engine in en-
gine house or from spot track that adequate air pressure is being
maintained and that air brake equipment is functioning propery maintained and that air brake equipment is functioning properly.
Aplication and relese test of independent brake must be made
and in addition to Application and release test of independent brake must be made
and in addition to noting brake cylinder pressure on gauge, visual
inspection must be made to know that brakes apply when indeinspection must be made to know that brakes apply when inde-
pendent brake valve is in application position. Hand brakes must
be relessed on all pendent brake valve is in application position. H.
be released on all units before engine is moved.
When operating a light engine running test When operating a light engine, running test of independent
brake must be made immediately after movement is started. When
back-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 hase inmediately ater back-up movement is started.
At terminals where hostler relieves incoming engineer brakes At terminals where hostler relieves incoming engineer, brakes
must be tested with independent brake valve immediately after must be tested with independent brake valve immediately after
locomotive is detached from train to insure that brakes are operat-
ing properly. ing properly.
Movement
Movement of locomotives at enginehouses, servicing or mainte-
nance facilities must not exceed 5 miles per hour. Engines must be stopped before moving onto a turn-table, and
before entering enginehouse or servicing facilities where elevated before entering en gineh
tracks or pits are used.
At locations where units are cut into or out of a locomotive, it
must be known that air brake hoses are must be known that air brake hoses are coupled, that air is cut in movement is made.
1001 (S). When it necessary for members of a crew to change
1S separate air hoses between units, before proceeding following
test of brakes must be made after locomotive consist is coupled test of bralkes must be made after locomotive con
and air hoses between units have been coupled:

## 1. Application and release test of independent brake.


Each unit in locomotive consist must be inspected by an em-
ploye on the ground to see that bralkes apply and release properly.

## SPECIAL INSTRUCTIONS-FIRST AND SECOND SUBDIVISIONS

Use of Engine Whistle
15 (S). Within the city limits of Pentleton, it is unlawful to
sund engine whistle except to signal flagman or to prevent accident not otherwise avoidable.

27 (R). Switch lights will not be used on branches shown below: Pilot Rock Branch
Trains and engines must approach facing point switches on
these branches prepared to stop if switch is not in normal posi-
tione these
tion.


99 (V). Trains may be relag Proted from
protecting against fol-
lowing extra trains by Train Order Form
Z only on the following Joseph Branch;
99 (W). Protection of track, prescribed by Maintenance of Way
Rule (99 (J) is authorized on: Joseph Branch
Pilot Rocl Branch

Prblle Croseings
103 (U). At Baker, street crossings at Campbell and Auburn
Streets must not be blocked in excess of five minutes by freight trains. At Barmhart, when movements to or from ballast pit

| Switches <br> 104 (R). No. 14 turn-outs are installed at all dual control switches in CTG territory except: <br> Meacham—West switch to siding; <br> -Switches between Tracks 1 and 2 at east <br> and west end; <br> Duncan -Siding switches; <br> Rieth - Switch to Pilot Rock Branch. <br> 104 (T). Switches will be set normally at: <br> La Grande: Joseph Branch switch-for drill track; <br> Switch to north side lead and roundhouse-for drill track; <br> Joseph, main track switch, east leg of wye-for wye; <br> Joseph, switch at stem of wye-for east leg of wye; <br> Hinkle, junction switch, Umatilla Branch-for running track; track; <br> Hinkle, wye switches-for running track; <br> Hinkle, switch at stem of wye-for east leg wye. <br> 104 (U). At La Grande, when switching movements are being made on east end of drill lead, derail and main track switch must be operated by hand. <br> Main Track Derails <br> 104 (V). Main track derails are located at the following points: Pilot Rock-two derails located 1500 feet west of west switch to New Setout Track and 190 feet east of west switch to Old Mill ment is being made over them. <br> Centralized Traffic Control System <br> 267 (T). CTC Stop signals located as follows are designated as "starting signals": $\begin{aligned} & \text { Huntington-M.P. } 389.3 \text { and } 389.8 . \\ & \text { Baker } \\ & \text { La Grande -M.P. } 341.7 \text { and } 342.4 . \\ & \text { La.P. } 289.7 \text { and } 290.2 . \end{aligned}$ <br> When stopped by a "starting signal," member of crew must communicate with dispatcher and be governed by his instructions. 268 (R). At Pendleton, trains from Pendleton Branch to extension of Track 6, must obtain permission from train dispatcher at La Grande before passing Signal 2165. <br> Centralized Traffic Control System <br> 269 (T). Referring to Special Instructions 269 ( $R$ ), push buttons are located in relay houses: Between Hinkle and Rieth <br> At MP 184.0 <br> At MP 184.5 | Hot Box Detectors <br> 714 (Y). Referring to Special Instruction 714 (S), hot box detectors are located: <br> Close Clearances <br> 799 (R). There are close clearances above and at the side of main tracks as follows, and in addition thereto, at platforms and other structures above and at the side of industry, stock and other tracks. (See Operating Rule M.) <br> 799 (S). At La Grande, look out for close clearance on Tracks 4 and 5, which have less clearance than other tracks in yard. <br> Chaining Cars to Rail <br> 809 (S). Between Huntington and Pendleton, when cars are set out on sidings on grade where there are no derails, in addition to setting hand brakes and blocking wheels, cars must be chained to rail. |
| :---: | :---: |

934 (U). On tracks listed below, only engines of types show (Note following are classified as DE-Switch engines: Alco road-switch units Nos. 1280-1295; 1000 IIP units. Nos
$1000-1095,1100-1198,1200-1210,1800-1865$ and $1870-1877$.)

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

1029 (R). Running test as prescribed in Air Brakes Rules 1029,
1029 (A), 1029 (B) and 1029 (C) must be made before descending
grades as follows:
$\begin{array}{ll}\text { Encina } & \text { - westward and eastward; } \\ \text { Telocaset } & \text {-westward and eastward; } \\ \text { Kamela } & \text {-westward and eastward. }\end{array}$
1030 (R). Inspection required by Air Brake Rule 1030 (C) must
be made on all trains at La Grande.
1041 (R). Brake pipe test as prescribed by Air Brake Rule
1041 must be made on all freikht trains before descending grades at Encina east ward and westward or Kamela castward and west-
ward when air hose has been parted or an angle cock turned.
10.12 (R). Retaining valves must be used on trains handled with
dieset locomotives with dynamic brake not in dieset locomotives with dynamic brake not in operation or when
not equipped with pressure maintaining feature when descending
grater notes, as follows:
h: pressu
Freight trains descending grades between Encina and Durkee
and between Hilard and Huron must use one operative retaining
valve for each fifty tand of and between Hilgard and Huran must use one operative retaining
valve for each firty tons of train but in no case less than one-half
of al retaining valves in train. If enginecr finds it diff ficult to of alh retaining valves in train. If enginecr finds it tinf icicult to
control train or to recharge train, he will request train crew to control train or to recharge train, he will request train crew to
turn up aditional retaining valves neeessary to insure safe con-
trol of train, stopping train if necessary. Between Telocaset and Union JJ.t., and between Huron and Dun-
can, on trains averaging to exceed fifty gross tons per car, 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 values must be used a Retaining valves must be nsed consecutively from head end of
train. Reta
train.
When retaining valves are used, freight and mixed trains will
use five minutes moving first mile after turning up retaining
年 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 ing each mile
prescribed.
1042 (S). On locomotives equipped with pressure maintaining feature and dynamic brakes, both of which are operative, trains
will he handled on deseending prades between Durkee and Huron
without the use of retaining valves
Following will govern the usc of retaining valves on freight Following will govern the use of retaining valves on frieigh
trains when handled on descending grades by diesel locomotives equipped with dynamic brake in operation puron and eastward be
taining feature: (a) Westward between K
tween Kamela and Hilgard:


|  |
| :--- |

(b) Eastward between Encina and Oxman:

(c) Westward between Telocaset and Union Junction:

| 2 Unit Locomollve | 3 Unlt Locomotlve | 4 Unit Locomotive |
| :---: | :---: | :---: |
| 3000 tons or less: None. | 4500 tons or les: None. | 8000 tone or lees: Nono. |
| Over 3000 tons: | Over 4500 tong: | Over 8000 ton |
| One retaining valvo m | ing valvo | One relaiaing v |
| ed for rach 60 Oonain |  | be ued for cuoli 00 tons in |
| . |  | bu |
| retaining | not lest than 15 retail | not tees than 15 retaining |
| vees muet be uecd. | valves must bo uod. | valvee muat bo uscd. |

Note: In applying above tables, clynamic brake must be oper-
ative on number of units shown.
(d) If due to any condition engineer or conductor considers a
particular train cannot be safely handled beyond Huron or as prescribed in Paragraphs (a) and (b) of this rule without use as prescribed in Paragraphs (a) and (b) of this rule wit hout use
of retaining valves, trains must be stopped and remin standing
ten minutes at Huron or Oxman to cool wheels and inspect train en mi (e) When use of retaining valves is required
be used consecutively from head end of train.
(f) Additional retaining valves must be used in accordance
with provisions of Air Brake Rule 1042 when in the judgment of (g) C
the
nage av (g) Conductor must advise engineer number of cars, total ton-
nage, average tons per operative brake, and location of loads and
empties in train. nagpties in train.
(h) 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 movng each mile thereafter, except where slower speed is otherwise ing each m
prescribed.
1042 (T). Freight trains handled with diesel locomotives with
dynamic brake not in operation must stop and remain standin ten minutes to allow wheels to cool and inspect train at the fol lowing points when retaining valves are required to be used be

Oxman -Eastward;
M.P. 279 - Eastward;

Meacham-Westward;
Huron -Westward.
Whin eastward freight trains stop at Motanlc and remain
standing ten minutes stop need not be made at M.P. 279 to cool
wheels and inspect triop

SPECIAL INSTRUCTIONS-THIRD AND FOURTH SUBDIVISIONS
UMATILLA, CONDON ANI IIEPPNER BRANCHES

27 (R). Switch lights will not be used on branches shown below:
Umatilla
Heppner madila
Trains and engines must approach facing point switches on
ese branches prepared to stop if switch is not in normal posi-
Train Registering Exceptions
$83(\mathrm{R})$. Conductors of the following trains may register by
register ticket per Operating Rule $83(\mathrm{~A})$ :
The Dalles - - Nos. 105 and 106;
Clearances
83 (S). Clearance must be recived as follows:
The Dalles $\quad$ All trains enroute Bend Branch must
receive SP\&S clearance. Teceive Spes clearance.
83 (T). Trains from Heppner or Condon branches need no
ceive clearance to enter. CTC territory at Hepmer Jct. on Arlington. Such trains will be governed by signal indications and Arlington. Such trains will be gover
instructions from train dispatcher.
Identilication of Trains

89 ( R ). Westward trains between The Dalles and Crates must
make necessary identification of all trains met or passed.
Movements in Yards
93 (S). Yard limits include territory shown:
93 (T). At The Dalles, trains and engines may move against
the current of traffic excent when a first class train is due. Such the current of traffic except when a first class.
movements must be made at restricted specd.
Flag Protection

99 (V). Trains may be relieved from protecting against follow-
ing extra trains by Train Order Form 2 only on the following Umatilla Branch
Heppner Branch

Condon Branch
99 (W). Protection of track as prescribed in Maintenance of
Way Rule 29 (J) is authorized on Heppner, Condon and Umatilla
99 (X).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, looking out carefully at all points for track cars and men working on
track without flag protection. Sped on curves must be such as to
be ablo be able too stop within one-half the distance track is seen to be
clear and whistle signal 15 (1) must be sounded frequently: Umatilla Branch;

Public Crossings
103 (V). At The Dalles, public crossings must not be blocked longer than 10 minutes. When a train is to be delaye
or out of the yard, crossings must be cut immediately.

Switches
$104(\mathrm{R})$. No. 14 turn-outs are installed at all dual control witches in CTC territory except
Biggs
Birgs -Siding switches
Hinkle - Switches to Passenger Track No. 1
104 (T). Switches will be set normally at:-
Hinkle, junction switch, Umatilla Branch-for running traek; Hinkle, wye switches-for running tracks,
Hinkle, switch at stem of Wye-for east leg of Wye
$269(T)$ Referring to Special Instructions $269(R)$, push but
tons are located in relay houses: At West Biggs
At MP 184.0
At MP 184.5

Dual Control Switche
275 ( U). Dual control switches are located as follows: (See
kules 275 and 275 A ).
Location Under control of Troutdale, junction switch to Kenton line
and east switch of siding on Kenton Line.

Operator, Troutdale

## Electrically Locked Switches

280 (R). At Oregon Trunk Jct., junction switch and bot
witches of cross-over between eastward and westward main raclis are equipped with electric locks controlled by operator at Pre Dalles. Telephone is located at cross-over switco indication on Signal A-51 is arthority for trains from
Bend Branch to proceed on westward trach to The Dalles with
Ber Bend Branch to proceed on westward track to The Dalles with
out receipt of clearance.
Routes Through Interlocking

605 (R). At Troutdale proceed indication of interloeking signal
cated just west of junction switch will authorize eastward train from Kenton Line to proceed to train order office.

Hot Box Detectors
714 (Y), Referring: to Special Instructions 714 (S), hot box
iletectors are located:

Close Clearances
$799(\mathrm{R})$. There are close clearances above and at the side of nother tracks us abows, and in addition thereto, at platforms anc tracks. (See Operating Rule M.)
other

| Location | Structure or obstruction | Clearance of Ongine or car is close al- |
| :---: | :---: | :---: |
| Fourth Sublvivion |  |  |
| M.P. 69.40 | Bridge | Side. |
| M. ${ }^{\text {M.P. }}$ 6103 | Bridge | Side. |
| M.P. 39.90 | Bridgo. | Side. |
| M.P. 32.15 | dgo | Side. |
| M.P. 31.85 | dge | Sido. |
| M.P. 29.65 | Briage | Sido. |
| M.P. 28.01 | Bridge | sido. |
| M.P. 15.82 | Bridge.... | Side. |
| Troutdale. |  | Tor. |
| M.P. 10.25 | Underpass bandrails(N.E.162nd | Sido. |
|  | Underpas9 handrails (N.E.122nd) | Side. |
| M.P. 5.43 | Overhead bridgo (N.E.82ndA Av.) | Top. |
| M.P. 5.01 | Overhead bridge (N.E. 74th Ave.) | Top. |
| ${ }^{\text {M.P.P.4.65 }}$ | Overhad bridge (N.E. Halsey). |  |
| M.P. 4.5. | Tunnel (Peningula jct.) | Top and si |
| M.P.P. 4.149 | Overhoadbridgo(N.E.L.60th Ave) | Top and side. |
| M.P. 2.86 | Overheadbridgo (N.E. ${ }^{\text {a }}$ 37th Ave.) |  |
| M.P. 2.59 | Ovarhoadbridge(N.E.33rd A |  |
| M.P. 0.43 (Willamotte River) | Dridge . .iol ${ }^{\text {dela }}$ |  |
| Umatilla Branch |  |  |
| M.P. 10.67. | Bridgo | Side. |

934 (V). Referring to Spack Restrictions racks have curvature in excess of 30 degrecs:
Bonneville-
934 (W). Cars weighing in excess of 263,000 pounds not per mitted on Condon and Heppner Branches.
1042 (U). Retaining valves must be used on descending grades

Condon Branch, all trains, M.P. 35 to Arlington, all retainin
valves must be used. Retaining valves must be used consecutively from head end of When retaining valves are used, freight and mixed trains will When retaining valves are used, freight and mixed trains wi
use five minutes moving first mile after turning up retaining valves, four minutes moving second mile and three minutes mov-
ing each mile thereafter, except where slower speed is otherwise
prescribed.

SPECIAL INSTRUCTIONS-ALBINA TERMINAL AREA

Movements in Yards
93 (U). The following instructions govern while using trackage of Portland Terminal Railictad:
Trains and engines using tracks 1 to 10 inclusive, Portland Trains and engines using tracks 1 to 10 inclusive, Portland
Union Station, must move atrestricted speed when passing a train
receiving or discharging passengers, and must not cross High Yeceiving or discharring passengersed, and must mat not cross a High
Shed at passenger station unless proceed signal is received from Shed at passenger station unless proceed signal is received from
station master or his assistant or preceded by a member of the
crew when passage over the High Shed is seen to be clear and it crew when passare over the High Shed is seen to be clear and it
is safe to proceed.
Interlocking at south end of freight and passenger yards govInterlocking at south end of freight and passenger yards gov-
erns all trains and engines entering or leaving yards.
When signal indicates Stop, the following whistle signals will be hed to call for desired route: (When conditions are favorable, hand or


## For When the be sounded.

93 (V). Two parallel tracks between Running track 1—track nearest river;
Running track 2-track farther from
These tracks are signalled for movement in both directions.
ephones are installed at following locations:
Switch Tenders Builing Randolph St.;
Crossover at Clark St.;
Crossover at Irving Dock Elevator
Globe Dock Elevator, near track 1 .
Trains and engines moving from Eats Portland to Albina may
enter Running tracks 1 or 2 on proper interlocking signal indienter Running tracks 1 or 2 on proper interlocking signal indi-
cation
Trains or engines moving from Albina to East Portland may enter kunning tracks or 2 on receipt of proceed signal given
with yellow lag 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
and Randolph streets. engines must stop clear of switches and cross-overs at Harding
and Randolph streets.
Engines leaving Running track 1 or 2 at any industry between Albina and East Portland must report hy telephone to operator
East Portland after running track is clear and switch is prop-
erly lined. erly linee
track 2 at any intermediate location, or cross from one running track to the other without permission from operator at East
Portland. Operating Rule 513 will apply. Normal position of all switches on these tracks between Albina
and East Portland is for the running tracks. Swatchtender at Allbina must not give proceed signal to a train
or engine moving beyond Albina Avenue to enter running tracks
withoin
 for a train or engine which is to move moyornd interlocking limimits
to enter these tracks without first notifying switchtender at
Albine. to enter
Albina.
Opera Operator East Portland and switchtender Albina will arrange
for movement of trains or engines on right hand track in direce
tion of their movement, except in emergency or for movement tion movement of trains or engines on right hand track in direc-
tion of thenente excent in emergency or for movement
which requires that track to the left be used.
Operator East Portland will maintain a record on prescribed which requires that track to tie left be used.
Operator East Portland will maintain a record on prescribed
forrn showing occupancy of Runing tracks 1 and 2 and oper-
ators' transfer mnst include trains or engines which have not
cleared these tracks when transfer is made.
98 (R). Trains and enginess must be Juvetronsed by the following
at the rairroad crossings and junctions indicated.


Handling Cars Ahead of Engine
103 (W). Cars must not be shoved ahead of engine through
unnel between St. Johns Jct. and Peninsula Jct.
104 (W). Cross-over switheses on tracks 21 to 26 inclusive must
be left lined for straight track after hkving been used. $104(T)$. Normal pormali Position of Switches

605 (S). To indicate the reute to be used through interlocking
the following whistle signals will be used:

Mignals for route unless governing signal indicates Stop and no connficting movement is evident.
Close Clearance
$799(\mathrm{R})$. There are close clearances above and at the side of main tracks as follows, and in addition thereto, at platforms and therks. (See Operating and at $t$

| Localion |
| :---: |
| M.P. 15.82 |
| M.P. 15.39 |
| M.P. 8.19 |
| M.P. 5.43 |
| M.P. 5.01 |
| M.P. 4.85 |
| M.P. 4.5 |
| M.P. 4.14. |
| M.P. 3.79. |
| M.P. 2.86 |
| M.P. 2.59. |
| M.P. 0.43 (Willam |
| Portland. ....... |


| lure or obstr |
| :---: |
| dgo |
| Overhead bridgo |
| Underpass handrails(N.E. 1 |
| On |
| Overhoaabride |
| Overheadbr |
| Overhead briage (N.L. |
| mnel (Peninsula |
| Overhoad bridge (N.L. 60th Ave. |
| rhead br |
| erbeadbridgo (N.E. 3 |
| erheadbrilge (N.E. 33 r d |
|  |
| Depot umbrella |


| Cloarance of |
| :--- |
| ensine or car |
| is close al- |
| Side. |
| Top. |
| Sido. |
| Sido. |
| Top. |
| Top. |
| Top. |
| Top. |
| Top and side. |
| Top and isdo. |
| Top and sido. |
| Top. |
| Top. |
| Side. |
| Sop and side. |

ary close and will not clear a man on side of car bet ewen tracks
and 2,3 and 4,5 and 6,7 and 8,9 and 10 from interlocking signals to point 100 feet north of the crossing.
799 (U). Cars or loads of excessive hcipht
799 (U). Cars or loads of excessive height or width must not
be placed under shed on Rip tracks 1, 2 or 3 , under load shifter be placed under shed on Rip traclich
or inside Freight Housc, Albina.
Turning Cars
799 (V). When necessary to turn cars on turntable, they must
be placed on the turntable and removed from the turntable from
the east cond. Switching Operations
808 (U). At Terminal 4, when Cargill switch engine is tied up
on Elevator 7 or this track is is locked dy Cirghll Company's motor
vehicles
Fievator 9 must be used for switching movement west on Elevator 7 or this track is blocked by Carcill Company's moto
vehicles, Elevator 9 must be used for switching movement west
934 (U) Track Restrictions
934 (U). On tracks listed below, only engines of types shown
may be used:


| Location | Track | Engine Permitted |
| :---: | :---: | :---: |
| East Portland |  |  |
| Kenton | Smitluwick Spur |  |
| Kenton | Sunshine liscuit |  |
| Albina | Swiver Island |  |
| St. Johns | Trackage Willamette Tug | DE-Switcl |
|  | and Barge Spurs on River Sille |  |
| Terminal No. 4 |  |  |
| Oregon Ship Yard | Various spurs and |  |
| Union Carbide | cross-overs |  |

, 933 (X). Referring to Special Instruction 934 (R), All SubAt the following locations, 85 -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;
5034 (Y). Freight cars 60 feet or more in length of any type or 50 feet or more in length when equipped with hydra-cushion, from the Yardmaster

Location
Swan Island
Kenton Line Giraham Line

## Tracks All tracks

Armour Meat Company
Sunshine Biscuit Company
Hyster Company Spur
Synshine Biscuit Compan
Hyster Company Spur
Barker Mf. Company
Ialee Mo.t.
Barker Mfr. Company
Blake, Mofitt \& Town
Simon Sav Spur
Simon Saw Spur
Graybar Electric
Graybar Electric
Acme Stel
Crane Plumbing
Mosaic Tile
Crane Pumbing
Mosiai Tile
Finzer Business
inzer Business
Tile Distributor
Western Athlettic
St. Johns Branch

## East End Alhina West End Albina

Larrabce Flats
Willamette Tug and
McCormick Baxter
Western Cooperage
Western Cooperage
Portand Woolen M
Fred Meyers Ware
Fred Meyers Waren Mills
Albina Engine Works
Albina Engine Works
Louis Dreyfus Balloon Track
farrabee Flat lead

## SPECIAL INSTRUCTIONS-FIFTH SUBDIVISION

## olympia and grays harbor branche

27 (R). Switch lights will not ke used
Trains and engines must approach facing por below ranch prepared to stop if switch is not in normal position. Train Registeriug Exceptions
$83(\mathrm{R})$. Conductors of the following trains may register by Black River-All trains;
Reservation-All westward trains
Reservation-All westward trains.
At Argo, only trains which originate or terminate in UP At Ard at that station will register.
At Centralia, Grays Harbor Branch trains originating or
terminating at Blakeslee Jct. must register in UP train At Centralia, Grays Harbor Branch trains originating or
terminating at Blakeslee Jet. must register in UP train
register at NP telegraph office. D-83 (R). Information required by Operating Rule D-83 need
not be received at: Argo, by westward trains and engines.
83 (S). Clearance Form A must be re lack River-all westward trains.
argo -all eastward trains. Centralia
-all
-all westward trains.
originating at
Grays Hakeslee Jct. Aberdeen $\begin{gathered}\text { originating at Blakes } \\ \text {-all castward trains; }\end{gathered}$

Northern Pacific clearance must be received as follows: Reservation-all eastward sccond-class and extra trains Tacoma, U.P. Dunsing through Tacoma;
all eastward second-class and extra trains
originating at Tacoma.
83 (T). Trains are not required to receive a clearance as per Seattle-eastward trains. Clearance received at Argo by an eastward train confers same authority on
Fifth Subdivision as when received at Seattle. Movements in Yards
93 (S). Yard limits include territory shown
Aberdeen-between yard limit sign just east of Cosmopolis
and N. P. . yard limit sign at Myrtle St. west of Aberdeen depot.

93 ( $T$ ). Between Argo und Seattle Union Station, trains or engines may move anainst the current of traffic except when a
first class train is $\dot{\text { due. Such }}$ Such movements must be made at re-
stricted speed.

Pailroad Crossings and Junction

| Railroad Crossings and Junctions <br> 98 ( R ). Trains and engines must be governed by the following at the railroad crossings and junctions indicated. |  |  |  |
| :---: | :---: | :---: | :---: |
| Location | Ratiroad Crossed, or Junctlon With | Trains Whlch Have Precedence | How Governod |
| Helsing Jet. | C. M.St.P. \& P. | U. P. | Stup signs. |
| South Aherdeon. (Denovan Mill) | N. P. | N. P. | Stup signs. |
| Olympia. (Jeflerson and 7th Sts.) | N. P. | U.P. | Stup signs. |
| Tacman. (Dempsoy <br> Mill Spur) | N. P. | N. P. | Stop eigns. |
| Tacuma, Tidewater. | N. P. |  | Semi-automatic intorlecking Special Inztruction 98 (S). |
| Soattlo. (I)uwamish nvo. and Hast Marginal Way.) | $\begin{aligned} & \text { G. N. } \\ & \text { C. M. St.P. \& P. } \end{aligned}$ | $\begin{gathered} \substack{\text { G.N. N. St } \\ \text { ch.M. } \\ \text { B. \& P. }} \end{gathered}$ | Stop Signs |
| Soattle, (J'ast Marginal Way Spokano St.) | N. P. | N. P. | Stop Signs |
| Soattile. (ikailroad Avo. and Atlantic St.) | $\begin{aligned} & \text { G. N. } \\ & \text { N. P. } \\ & \text { C.M. St.P. \& P } \end{aligned}$ | $\begin{aligned} & \text { G.N. } \\ & \text { N.P.P.S.P.\&P. } \end{aligned}$ | Stop Signa |

98-(S). At N.P. Crossing, Tacoma-Tidewater, when stopped by
smi-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 relesse release push-button, hold for five seconds, then release. At ex-
piration of time interval, indicator lamp will light to indicate time
interval interval has expired. If signal does not then change to permit
train or engine to proceed, member of crew will signal engineer to train or engine to proceed, member of crew will signal engineer to
proceed if no train or engine is approaching on conflicting routes. See Operating Rule 613.
98 (T). Trains and engines after stopping at stop signs must
not proced onto draw span of bridge between Montesano and South Montesano until they have called for, received and ac-
nowledged proceed signal from bridge tender, and in addition must be governed by position of derail located 128 feet east, and
derail located 195 feet west of trestle leading to drawbridge. Dur-
ing certain hours each day draw epan will be left open for river traffic and derarils will be be set in dearailing po postion. open for nor river
for train or engine to use drawbridge during such hours, notify Agent Montesano or dispatcher to call drawbridge operator.
98 (U). At Tacoma, all traing and engines after stopping at 98 (U). At Tacoma, all trains and engines after stopping at
stop signs must not procced onto draw span of bridge until they
have called for, received and acknowledged proceed signal from have called for
bridge tender.
Flag Protection
99 (W) Protection of tracle as prescribed My Maintenance of
Wayy Rule 99 (J) is authorized on Olympia Branch and Grays Harror Branch.
99 (X). On following branches between 6A.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, lool ingoachit arand molly at all point for for track cars and men working on
track without flag protection. Speed on curves must be such as to be able to stop within one-half the on cistances track is ise seen to b
clear and whistle signal 15 (1) must be sounded frequetly
and whistle signal 15 (l
Olympia Branch;
Grays Harhor Branch.
Barge Operations
$101(R)$. At Seattle ruril--barge docks, Harbor Island, clearance
is extremely closc on all tracks approaching barge apron and on is extremely closc on all tracks approa ching barge appon and on
the barges. Employes must not ride on side en en or top of carss
theing moved on or of barges beyond "Impaired Clearance" signs. Engine foreman or brrge--naster must receive permission from
barge company supervior before any movement ts mud o or or off
barges. All cars must have air brakes cut in and operative when barge company supervisor before any movement is mude on or off
barges. All curs must tave air brakes cut in and operative when
moving on or off barges and all movements must be made with moving on or off barges and all movements must be mulde with
extreme care.

To avoid improper coupling of carrs against bumper couplers
at end of barges, no coupling will be made with more cars than at end of barges, no coupling will be made with more cars than
the barge tracl will hold, not inchuding empty reacher cars. Engines are not pernitted on apron of barge slip.

## Movements at Olympia

103 (X). At Olympia, City Ordinance relating to the movement
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. or immediately ad
2. All switch movements over crossings, unless protected by
automatic signal devices, must be protected by flagmen. 3. No locomotive, , railroad car or cars may be left unattended
on any main track having a grade of $1 \%$ or more. 4. No street or street crossing may be blocked to vehicular
traffic for more than 5 minutes at any time. traffic for more than 5 minutes at any time.
5. Not more than 3 consecntive street intersections may be 6. Not more than 2 consecutive street intersections may be
blocked 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 movementa across grade crossing have been
completed and the crossing cleared, reverse movement across such completed and the crossing cleared, reverse movement across sulch
crossing may not be made until all accumulated vehicular traffic
at the crossing shall have cleared the intersection. 9. Switch movements of engine ine insection.
across the following crossings between the hours may be move.
and $8: 15$ A.M., $11: 50$ A.M. and $12: 20$ P M and
P.M. $3: 25$ A.M.M. and $31: 45$ P.M. and between 4:50 P.M. and $\begin{aligned} & \text { 6.30 }\end{aligned}$
P.M.:

East Union A venue
Legion Way
Columbia Street at
West Seventh
East Fourth Avenne East State Avenue
10. No public road or street crossing may be hlocked to ve-
hicular traffic by any gtanding engine, car or train during the
hours prescribed in paragraph 9 above, hours prescribed in paragraph 9 above.
11. No car may be left standing on any track within 25 fect of
a street right-of-way-line, except on spurs or sidings serving
industries industries.
The items listed above are in addition to any other regulations
governing railroad traffic in effect at Olympia, and violation cargoverning railroad tra.
ries a heavy penalty.

Public Croosings
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 must stop and a memb.
as crossing watchman.

104 (T). Switches will be set normally at
Tacoma Jct., junction switch-for C. M. St. P. \& P.;
Aberdeen, switch at end of double track - for eastward
South Montesano, wye switch on Montesano Branch-for
west leg of wye;
Helsing Jct., junction switch-for U. P. main track.

## Staff System

301 (R). Movements on Olympia Branch arc governed by Staff system.
Single staff will be used, located in staf bor door of trainman and enginemat locker room, Olympia. Trains or engines must secure this staff before using olympiaia. Branch eart
of Union Avenue, City of Olympia, and must retain staft until of Union Avenue, City of
novement is completed.
Trains or engines must not move from East Olympia to Tum-
water Yard or Olympia without having staf in 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 he placed in staff
box and securely locked.

Interlocking
605 (T). To indicate the route to be used through interlocking,
the following whistle signals will be used: At Argo:
For Seattle
 Close Clearances
799 (R). There are close cleararnees above and at the side of
main tracks as follows, and in addition thereto, at platforms and main tracks as follows, and in andition thereto, at platforms and

other structures above and at the side of industry, stock and other | other structures above and at the side of industry, stock and othe |
| :--- |
| tracks. See Operating Rule M.) |

| Location | Structure or obstructlon | Clearance of engine or car is close at- |
| :---: | :---: | :---: |
| Fifth Subdivision |  |  |
| Tacoma. | N. P. overhaad bridgo to draw | Top and side. |
| Tacomi | Viaduct (5th St.) | Top and 8 |
| M.P. 144.92 | Bridge | Side |
| M.P. 146.93 | Bridge | Side. |
| M.P. 174.68 | Bridge. | Side. |
| Seattle (Albro Place). | Overhead bridge | Side. |
| Seattle (Eighth Avo. So.) | Overhead bridge |  |
| Seattle (Dearborn Ave.). | Overhead bridge | Top and sid |
| Seattle (Jackson Sti) | Deper umbreild | Top. |
| Olympla Branch |  |  |
| M P. 5.23. | Tuonel No. 25 | Top |
| M.P. 5.75 . | Tunnel |  |
| M.P. 6.75 | Overheadd bridgo | Top and side. |
| Grays Harbor Branch |  |  |
| M.P. 1.26 |  |  |
| M.P. ${ }^{\text {M.P. }} 43.53$. |  |  |
|  | Overread bridge. | Top and side. |
| M.P. 53.33. | Bridge. | Side. |
| Montosano | Bridge | Side. |

799 (W). Employes are wanned that overhead clearances to
trolley wires and side clearances to supporting poles are close at tronley wires and side clearances to supporting poles are close at
locations shown below. Trolley wires must not be touched and
careful lookout must be kept for low and broken wires.

| Station | Location |  |
| :---: | :---: | :---: |
| Black River. |  | C.M.St.P. \& P. |
| Argoseatto | Atyo yard lead and between Argo and Seattle |  |
| Gorgotewn | passenger station ................ West end of giding entering main track |  |

N. ${ }^{799}$ (Y). At Olympia, account insufficient clearance between must not attempt to pass on main track if trains or engines are
moving on connection. At Aberdeen, account insufficient clearance between coach At Aberdeen, account insufficient clearance between coach
track No. just east of passenger station and main track at turn-
out, trains and engines must not attempt to pass on main track in out, trains and engines must not attempt to pass on main track if
trams or engines are moving on coach track No.
Track Restrictions

934 (U). On tracks listed below, only engines of types shown
nay be used: (Note following are classified as DE-Switch engines: Alco
(ad-switch units Nos. $1280-1295$; 1000 HP units. Nos. 1000-1095, road-switch units Nos. 1280-1295; 1000 HP units
$1100-1198,1200-1210,1800-1865$ and $1870-1877$.)

| Location | Track | Heaviest Engine |
| :---: | :---: | :---: |
| Seattle | Various Spurs along 5th |  |
| Seattle | Various Spurs along East |  |
| Seattle | Various Spurs on 11th |  |
| Seattle | Ave. S. W. | Of-Switch |
| Aber | Way ${ }^{\text {Waper }}$ |  |
| Aberdeen | Various Front St. Spurs |  |
| Hoquiam | Grays Harbor Chair Spur |  |

934 (V). Referring to Special Instruction 934 (S), following
tracks have curvature in excess of 30 degrees: Seattle:
East Marginal Way

| -1 track, Willow St. lead sp |
| :---: |
|  |
|  |
| 2 tracks, Manson |

Harbor Island Construction Co
-1 track, Seatlle Iron \& Metal Co.
1 track, .
Boeing Spur 1 Outfitting Dock 2 tracks, Port of Seattle.
1 track, reverse curve, 1 track, reverse curve
U.S. Gypsum Co.
Air Brake Rules
1039 (R). On Fifth Suhdivision, when flat cars 65 ft or more
length, either loaded or empty, and located less than 25 cars
 behind engine are eeing handled by locomotives equipped
lynamic brakes, the use of dynamic brakes is prohibited.

SPECIAL INSTRUCTIONS-SIXTH SUBDIVISION
YAKIMA, SUNNYSIDE, TEKOA, PLEASANT YALLEY, WALLULA, MOSCOW, CONNELLL,
POMEROY, TUCANNON, PENDEETON, DAYTON, WALLACE, 1 ND SIERRA NEVADA BRANCHES

Use of Engine Whistle
15 ( T ). Within the city limits of Shokane, Pendleton and Pom-
eroy, it is unlawful to sound engine whistle except to signal flageroy, it is unlawfill to sound engine whistle except to signal thag-
man or interlocking operator, or to prevent accident not otherwise avoidable. Walla, the use of the engine whistle at the public
At Walla Wand
crossings at West Cherry Street and Gardeners' Association just west of Mill Creek Bridge, is prohibited except to prevent ac-
cident not otherwis
ident not otherwise avoidable.
Switch Lights
$27 \begin{gathered}\text { (R). Switch lig } \\ \text { Pomeroy, } \\ \text { Dayton }\end{gathered}$
Dayton,
Dierra,
Sucannon,
Tucana
Sierra Neva
Tucannon,
Moscow,
on branches shown below
Connell, Wallace, Pleasant Valley,
Pendleton.

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

> Train Registering Exceptions

83 (R). Conductors of the following trains may register by
register ticket, per Operating Rule $83(\mathrm{~A})$ :
N. P. Crossing, Spokane-all G. N. trains;

Marengo
-all trains.
Eastward Northern Pacific trains leaving. Union Pacific tracks
vici ast east leg of wyc at Wallula will revister by registering ticket vita east leg of wye at Wallula will register by registering ticket
nit Attalia. Conductor of such trains will report arrival at Attalia
by telephone to operator, Wallula.

Clearances
83 (S). Clearance Form A must be received as follows Aver
NP Crossing-All

- All trigintward
orinating at East Spolk Sixat Dishman -All westward Tekod Branch trains Walla Walla-All trains;
Wallula - All eastward Wallula Branch trains;
Wallula - All eastward Yakima Branch trains. 83 (T). Trains need not receive Clearance Form A as required
by Operating Rule 83 (B) at: $\begin{array}{ll}\text { Eerating Rule 83 (B) at: } & \text { Pomeroy, } \\ \text { East Spokane, } & \text { Bolles, } \\ \text { Hooper Jtt., } & \text { Rold } \\ \text { Tuannon, } & \text { Richland Jct., } \\ \text { Starbuck, } & \text { Seltice }\end{array}$ $\begin{array}{ll}\text { Starbuck, } & \text { Reichlan } \\ \text { La Crosse, } & \text { Soltice, } \\ \text { Colfax. }\end{array}$
When train order signal indicates Proceed trains need not re-
ceive clearance as per operating Rule 83 (B) as follows:
Manito-No. 388
98 (R). Trains and engines must be governed by the following
at the railroad crossings and junctions indicated:

| Location | Railroad Crossed, or Junclion With | $\begin{array}{\|c\|} \hline \text { Trains } \\ \text { Which Have } \\ \text { Precedonce } \end{array}$ | How Governed |
| :---: | :---: | :---: | :---: |
| Marengo. (M.P. 306.6) | C. M. St. P. \& P. |  | Automatic llock signals. |
| Spokane. N. P. Cross- ing (M.P. 369.2 ) | N.P. |  | Interlocking. |
| Spokane. G. N. | G. N. |  | Nutomatic Interlocking. Special Instructions 98 (V). |
| Manito. (M.P. 143.T) | C.M.St. P. \& P. |  | Automatic block signals. Spocial Instnictions 98(W). |
| Garfield. (M.P. 95.4) | N.P. | U. P. | Stop aign. |
| Colfax. (M.P. 77.3) | G.N. | U. P. | Gato set againat G. N. |
| Oakesdale. (M.P. 39.68) | G.N. | U. P. | Stop signa. |
| Oakesdale. (M.P. 39.65) | N.P. | N. P. | Stop iign. |
| Thornton. M.P. 30.7) | G.N. | U. P. | Gato. |
| Riparia. (M.P. 17.4) | N.P. | U. P. | Gate sot against 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. | Gate. |
| Milton. (M.P. 36.3) | W. w. v. | U. P. | Gate. |
| Parker. (M.P. 91.3) | N. P. |  | Automatic Ytorlocking. |
| Donald. (M.P. 89.35) | N. P. (pauntlet track). |  | Automatic Intorlocking. Spocial Instruction 613 (S). |
| Garrett. (M.P. 28.7) | W. W. v. | U.P. | Gate. |
| Dayton. (M.P. 13.00) | N.P. | U. P. | Stop gigne. |


| Location | Railroad Crossed, or Junction With | $\begin{aligned} & \text { Trains } \\ & \text { Which Have } \\ & \text { Precedence } \end{aligned}$ | How Governed |
| :---: | :---: | :---: | :---: |
| Dayton. (M.P. 13.01) | N. P. | U. P. | Stop signs. |
| Pullman. (M.P. 19.3) | N.P. | U.P. | Stop signs. |
| Wallace. (M.P. 80.4) | N.P. | U.P. | Stop signs. |
| Wallace. (M.P. 80.6) | N. P. | U.P. | Stop signa. |
| Plummer Jct. | C. M. St.P. \& P. |  | Special Instructiong 98 ( X ). |

98 (V). At Spolane, over Great Northern Railway Crossing on
old yard lead, movenents are governed by cutolonatic interlocking signals. If novement is delayed after entering approach section
to this crossing, signal may resuine Stop indiculion al expiration oo this crossing, signal may resunce Stop indictilion at expiration
of time interval.
Push bited Push buttons, located on signals, many be aperated to obtain
signal indication for a rever se movement. Emergency release a push bution is located near crossinys. In
structions are posted in box
 Bovement from Union Pacific yo
Block Signal 1437 governs movement from Union Pacific to
C.M.St.P.\&P. 98 (X). At Plummer Jet. movement from Union Pacific connec-
tion to C.M.St.P.\&P. main track is poverned by dwarf signal at
in earance point on U.P. connection. When ill uninated " $S$ " is dis played, switch may be lined. If signal then displays proceed ind
cation, movement may be made to C.M.St.P.\&P. main track. Drawbridges
98 (Y). At Drawbridge M.P. 23.45, Wallace Branch, after stopeived from bridge tender over. telephone located at stop sign except that if such authority is not received, a member of crew give proceed signal when safe to proceed. 98 (Z). At M.P. 17.23, Tekoa Branch, trains must stop before
passing over drawbridge and may then proceed if draw span is passing over draw
seen to be closed.

Flag Protection
99 (V). Trains may be relieved from protecting against follow
ing extra trains by train order Forin Z , only on the following ing extra trai
branch lines:

Connell Branch between LaCrosse and Connell
Dayton Branch between Dayton and Turner;
Pomeroy Branch;
Moscow Branch;
ekoa Branch between Munito and Riparia
Wallace Branch between; Plummer Jct. and KelloggWardner.
Pendle . ${ }^{\text {Branch between W alla W Wlla and Alto; }}$
Pendleton Brancl between Walla Walla and Alam Pendleton Branch betwen Walla Walla and Adams.
Wallula Branch between Wall W Walla and Zangar Jct.
Yakima Branch between Yakima and Riclland Jct.
99 (W). Protection of track as prescribed by Mainten
Way Rule 99 (J) is authorized in territory shown below:
Pendleton Branch;
Dayton Branch bett
Dayton Branch between Turner and Dayton Jct. and be
tween Waitsburg Jct. and Bolles;
Pomeroy Branch;
Moscow Branch;
Connell Branch;
Yakima Branch between Richland Jct. and Yakinna
Sunnyside Branch;
Wallula Branch between Zangar Jct. and Walla Walla;
allace Branch. Sierra
Vallace Branch; Sierra Nevada Branch; Pleasant Valley
Branch; Teloa Branch; Tucannon Branch.


Staff Systom
301 (S). Movements of trains and engines on the Government limit sign on Government trackage at M.P. 43.8 , are governed by staff system.
Divided sta
Divided staff, lettered "A" and "B", will be used and staff boxes
are located at Richland Junction and at M.P.
When ondy When only one train movement is to be made in the staff limits,
dispatcher will notify the crew and that crew must have both
stapl" dispatcher will notify the crew and that crew must have both
staffe "A" and "B" in their possession and retain them for the
round trip. When two trains are to be run in these limits, the first train
Whand When two trains are to be run in these limits, the first train
muth noterte the staff limits until it has been ascertained that
both staffs are in box at that point, and has taken staff " A " for both staffs are in box at that point, and has taken staff "A" for
their
staff " B " B in thentir pocond train entering staf limits must have their movement. Second trai
stapt " B " in their possession.
After moving through the staff limits, both staffs must be left
in staff box. Staff box must te left locked at all times. in starf box. Staff box must be left locked at all times.
Conductor of train which is to move, or has moved, thr Conductor of train which is to move, or has moved, through the
staff limits, must revister his train on train regsister at Richland
Junction, and indicate staff uscd, either "A" or "B"
Br both. Junction, and indical
Train or engine movements on Government trackare from Train or engine movements on Government trackage from end
of staff
will be gostem into interchange yard and wye at North Richland or
will be governed by yard limit rules and instructions issued by
Government dispatcher. When two trains are run the first train Government dispatcher. When two trains are run, the firsut train
arriving at interchange yard must remain at that point until the
second train arrives. arriving at interchat
second train arrive

Slide Detector Signale
509 (U). On Yakima Branch, hetween M.P. 41 and M.P. 42, slide aervice. When siggal displays Stop indication train must stop before passing and may then proceed at restricted speed to signal at
opposite end of protected territory, looking out for damaged rail opposite end of protected territory, looking out for damaged rail
or obstruction, and wire report must be made to chief dispatcher
ond superinter or oustruction, and
and superintendent.
Interlocking

605 (U). To indicate the routect to be
605 (U). To indicate the route to be used through interlocking,
the following whistle signals will be used:
N. P. Crossing, Spokane:

613 (R). At Columbia River Bridge, M.P. 7.44 Yakima Branch, When a train is stopped by semi-automatic interlocking signal, a
flasman must be sent to drawbridge to give proceed signal if deFragman must be sent to draw wricige to pive proceed signal if de-
rail and draw span are properly closed. Two long sound of entine
whistle must be sounded before proceeding, and movement must whistle must be sounded bef
be made at restricted specd.
613 (S). At Yakima River Bridge, M.P. 89.35, Yakima Branch,
trains and engines arc governed by automatic interlocking signals trains and engines are potcrned by automatic interlocking signals
and must approach gentlect track at restricted speed. A train or
angine stopped by an interlocking sirnal must conply ongine stopped by an interlocking signal must comply with Opor-
ating Rule 613 . If signal does not change its indication after ond minute, flag protection must be provided for novement between
home signals governing gantlet track.

799 ( R ). There are close clearances above and at the side of ther structures above and at the side of industry, stock and othe tracks. (See Operating Rulc M.)

| Location | Structure or obstruction | Cloarance ol engine or car Is closa tl is close al |
| :---: | :---: | :---: |
| Slxth Subalvision |  |  |
| M.P. 231.83. | Tunnel No. 7. | Top and sido. |
| M.P. 2725.1 | Tunnol No. 10 | op and e id |
| M.P. 275.5 | Tunnel No. 11 Tunnel No. 12 | Top and iide. Top and aide. |
| M.P. 278.2 | Tunnol No. 13. | Top and sido. |
| M.P. 276.48. | Tunnol No. 14. | Top and iido. |
| M.P. 278.36 | Overload bridg | Top and ide. |
| M.P. 281.3 | Tunnol No. 15 | Top and gido. |
| M.P. 29207 | Overhoad bridg | Top and side. |
| M.P. 294.37. | Tumnol No. 17 | Top and side. |
| M.P. 305.82 | Overhead bridg | Top and side. |
| M.P. 323.70 | Ovorhoad bri | Top and |
| M.P. 33720 | Ovorhaad bri | and idid. |
| M.P. 363.57 | Bridgo - ${ }^{\text {Overioad bridg }}$ |  |
| M.P. 353.94 | Overbaad bridgo. | Top. |
| M.P. 357.48 | Overlioad bridgo. | Top and ido. |
| M.P. 357.95 | Ovorhaad bridgo | Top and iic |
| M.P. 363.79 | Ovorlead bridge |  |
| Spokane. | Umbrella ahed Trick Umbrella | Sido. |
| Spokano. | Umbrella shod Track 7 . | Sida. |
| Spokano. | Umbrella shed Track 9 | Sido. |
| Spokano. | Umbrella shed Track 11 |  |
| Spokane. | Market Stroet bridge. | Top and घido. |
| Spokane. | Division Street bridge. |  |
| Spokane. | Tunnol, eastward track. | Top and gido. |
| Yakima Branch |  |  |
| M.P. 7.44 | Bridgo | Top and side. |
| M.P. 11.51 | Briago |  |
| ${ }_{M} \mathrm{P} .118 .18$ | Overhead bridg | Sop and side. |
| M.P. 24.31 | Overhead bridge. |  |
| M.P. 35.89 | Bridg | Top |
| M.P. ${ }^{\text {53.36 }}$ | Bridge |  |
| M.P. 50.83 | Bridge | Side. |
| M.P. 58.04. | Bri |  |
| M.P. 58.19 | Bridge | sid |
| M.P. 73.03 | Bridge | Sido. |
| M.P. 73.20 | Bridgo | Sido. |
| MP. | Bridge |  |
| ${ }^{1} \mathrm{P}$ | ${ }^{\text {Bradgo }}$ Overbead bridgo |  |
| Yakima, Firret Aveoue and C | Ovoricad biago. |  |
| Street................ | Trafic light | Top. |
| Tekoa Branch |  |  |
| M.P. 17.23 |  | Top znd side. |
| M.P. 19.96 | Briage |  |
| M.P. 20.73 | Briage |  |
| M.P. 90.27 |  | Top and sido. |
| M.P. 93.01 | Bridg |  |
| M.P. 94.70 | Overboad | Top. |
| ${ }_{M P}^{\text {M.P. }} 812.03$ | ${ }^{\text {Bridgo. }}$ | Side. |
| M.P. 115.79 |  | Sidd. |
| M.P. 143.67 | Overbead bridgo | Side. |
| Moscow Branch |  |  |
| M.P. 8.54. | Brid | Top |
| M.P. 18.77 |  |  |
| M.P. 19.27 | Overhasd bridgo | Top. |



SPOKANE INTERNATIONAL RAILROAD COMPANY


rating of diesel locomotives in freiaht servige in tons of 2000 pounds


|  | $\begin{gathered} 30.45 \\ \substack{300 \\ 6 \in U 50} \\ \hline 100 \end{gathered}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| FIRS' SUBDIVISİN |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Huntington to Durkee | 4050 | 4000 | 3980 | 1500 | 1720 | 2854 | 1750 | 2000 | 1880 | 1900 | 2000 | 2500 | 3350 |
| Durkeo to Encina | 1910 | 1900 | 1880 | 700 | 820 | 1320 | 850 | 950 | 900 | 900 | 950 | 1150 | 1500 |
| Encina to North Powder | 8000 | 8000 | 8000 | 3100 | 3450 | 5650 | 3450 | 4000 | 3900 | 3800 | 4000 | 4800 | 6450 |
| North Powder to 'I'olocaset | 4050 | 4000 | 3980 | 1500 | 1720 | 2850 | 1750 | 2000 | 1880 | 1900 | 2000 | 2400 | 3250 |
| Telocasot to La Grinde | 8400 | 8400 | 8400 | 3300 | 3600 | 5950 | 3600 | 4200 | 4100 | 4000 | 4200 | 5050 | 6800 |
| La Grando to Union | CL | CL | CL | Cl , | cL | cl | cl | cL | cl | cl | cL | cL | CL |
| Union Itct. to 'Iolocaset | 2750 | 2750 | 2750 | 1050 | 1100 | 1950 | 1200 | 1400 | 1350 | 1350 | 1400 | 1700 | 2250 |
| Telocaset to Balker | 5800 | 5800 | 5800 | 2300 | 2500 | 4700 | 2500 | 2950 | 2850 | 2800 | 2950 | 3500 | 4700 |
| Baker to Encina | 2750 | 2750 | 2750 | 1050 | 1100 | 1980 | 1200 | 1400 | 1350 | 1350 | 1450 | 1700 | 2250 |
| Encina to Huntington | cL | CL | CL | CL | CL | CL | cL | CL | CL | CL | CL | cL | CL |
| SIUCOND |  |  |  |  |  |  |  |  |  |  |  |  |  |
| La Grande to Hilgard | 4820 | 4820 | 4820 | 1820 | 2080 | 3400 | 2100 | 2400 | 2280 | 2300 | 2400 | 2500 | 3350 |
| Hilgard to Kamela | 1910 | 1900 | 1880 | 700 | 820 | 1320 | 850 | 950 | 900 | 900 | 950 | 1150 | 1500 |
| Kamela to Hinkle | 9600 | 9800 | 9800 | 3850 | 4100 | 6800 | 4100 | 4850 | 4700 | 4600 | 4850 | 5800 | 7750 |
| Hinkle to Duncan | 3800 | 3800 | 3800 | 150 | 1640 | 2700 | 1670 | 1950 | 1900 | 1850 | 1950 | 2300 | 3100 |
| Duncan to Kamela | 2100 | 2100 | 2050 | 800 | 900 | 1475 | 900 | 1050 | 1000 | 1000 | 1050 | 1300 | 1700 |
| Kamela to La Grande | CL | cI, | CL | cL | CL | CL | cL | cL | CL, | CL | CL | CL | CL |
| Thimd surdivision |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hinisle to Munley | 7000 | 6900 | 6800 | 3860 | 4000 | 5950 | 4200 | 4400 | 4050 | 4300 | 4400 | 5600 | 7550 |
| Munley to The Dallos | 0999* | 9999* | 9999* | 4150 | 4500 | 7500 | 4500 | 5300 | 5150 | 5050 | 5300 | 6300 | 8500 |
| The Dalles to Seufert | 6100 | 6100 | 6100 | 2300 | 2600 | 4300 | 2630 | 3050 | 2850 | 2900 | 3050 | 5250 | 6200 |
| Soufert to M.P. 108 | 9999* | 9999* | 9999* | 4750 | 5260 | 9999* | 5260 | 6200 | 5900 | 5800 | 6200 | 7300 | 9999* |
| M.P. 108 to M.P. 114.5 | 0100 | 6100 | 6100 | 2300 | 2600 | 4300 | 2630 | 3050 | 2850 | 2900 | 3050 | 3750 | 5000 |
| M.P. 114.5 to | 9999* | 9999** | 9999* | 4750 | 5260 | 9999* | 5260 | 6200 | 9500 | 5800 | 6200 | 7300 | 9999* |
| Boardman to finikle | 8100 | 6100 | 6100 | 2300 | 2600 | 4300 | 2630 | 3050 | 2850 | 2900 | 3050 | 3750 | 5000 |
| ${ }_{\text {SUBUR'TII }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Tho Dalles to Crates | 7000 | 6900 | 6800 | 3500 | 4000 | 4900 | 4200 | 4500 | 4300 | 4300 | 4500 | 5600 | 7550 |
| Crates to Albina via Kenton | 9999* | 9999* | 9999* | 4750 | 5260 | 9999* | 5286 | 6200 | 5900 | 5800 | 6200 | 7300 | ${ }^{9999 *}$ |
| Troutadale to Colarnlo via Graham via Graham | 7000 | 6900 | 6800 | 2700 | 3000 | 4900 | 3050 | 3500 | 3300 | 3350 | 3500 | 4450 | 6000 |
| Alina to Ho Hod River via Kenton | 6400 | 6400 | 6200 | 4150 | 4300 | 6400 | 4400 | 4500 | 4350 | 4450 | 4500 | 6100 | 8100 |
| Portland to Clarnle via Graham | 4100 | 4100 | 4000 | 1500 | 1800 | 2900 | 1830 | 2000 | 1900 | 1900 | 2000 | 2800 | 3550 |
| $\underset{\substack{\text { Hood River to } \\ \text { The Dalles }}}{ }$ | 7000 | 6800 | 6800 | 3500 | 4000 | 4900 | 4200 | 4500 | 4300 | 4300 | 4500 | 5600 | 7550 |
| CL-Car Limit. <br> *Rating exceeds 10,000 tons. |  |  |  |  |  |  |  |  |  |  |  |  |  |

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

Total weight of train exclusive of locomotive, which the diferent classes of locomotives will haul in each direotion liotwoon
stations named, under favorable weather conditions. Rating shown is for single unit. If more than one unit, ratink of conn-

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fifth subdivision |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Allina to Vadler | 8000 | 8000 | 8000 | 4250 | 5000 | 6000 | 5000 | 5500 | 5300 | 5300 | 5500 |  |  |
| Vader to Napiuvine | 4400 | 4400 | 4400 | 1800 | 2000 | 3100 | 2000 | 2300 | 2200 | 2200 | 2300 |  |  |
| Napavine to Argo | 8000 | 8000 | 8000 | 4250 | 5000 | 6000 | 5000 | 5500 | 5300 | 5300 | 5500 |  |  |
| Arse to Centralia | 8000 | 8000 | 8000 | 1250 | 5000 | 6000 | 5000 | 5500 | 530 | 00 | 00 |  |  |
| Contralia to Napavine | 3400 | 3400 | 3400 | 1400 | 1700 | 2450 | 1700 | 1950 | 1850 | 1850 | 1950 |  |  |
| Napavine to Albina | 8000 | 8000 | 8000 | 4250 | 5000 | 6000 | 5000 | 5500 | 5300 | 5300 | 5500 |  |  |
| sixth subdivision |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Spolane to Gell | 6150 | 6150 | 6150 | 2400 | 2650 | 4350 | 2650 | 3100 | 3000 | 3100 | 3100 | 50011 | \%1080 |
| Goith to loigo | CL, | CL | CL | CL, | CL | CL | cr. | CL | CL | CL | CL | 0. | (11. |
| Page to Hunorist | 9900 | 9900 | 9900 | 3900 | 4250 | 7050 | 4250 | 5000 | 4850 | 5000 | 5000 | 8001 | и1410 |
| Humorist to Wallula | CL | CL | CL | CL | CL | cL | CL | cl | cl | CL, | cl | 01. | 13. |
| Wallulit to Juniper | 9999* | 9999* | 9999* | 3950 | 4300 | 7150 | 4300 | 5050 | 4900 | 5050 | 5050 | 8100 | ถ1\% |
| Juniper to Hinkle | 6150 | 6150 | ${ }^{6150}$ | 2400 | 2050 | 4350 | 2650 | 3100 | 3000 | 3100 | 3100 | 51001 | ${ }^{1 / 140}$ |
| Hinkle to Wallula | 3999* | 9999* | 9999* | 5000 | 5200 | 7800 | 5600 | 5900 | 5800 | 5900 | 5900 | 89\%610 | kitio |
| Wallula to Humorist | 7200 | 7200 | 7200 | 2800 | 3100 | 5100 | 3100 | 3600 | 3500 | 3150 | 3600 | 58011 | n:30 |
| Humorist to Ayor | 9999* | 9999* | 9999* | 3950 | 4300 | 7150 | 4300 | 5050 | 4850 | 5000 | 5050 | 80011 | หเ1\% |
| Ayor to Gellb | 6150 | 6150 | 6150 | 2400 | 2650 | 4350 | 2650 | 3100 | 3000 | 3100 | 3100 | ${ }^{\text {510\% }}$ | ¢.14011 |
| Geib to Spolkane | CL | CL | cL | CL | CL | cL | cL | CL | oL | cL | CL | OL | 01. |

[^0]
[^0]:    Rating in excess of 10,000 to

