Union Pacific Raliroad Company
Northwestern District

## Oregon Division Special Instructions No. 14

Effective Thursday, November 1, 1956

Superseding Special Instructions No. 13

Employes whose duties are in any way affected thereby, must have a copy of these instructions with them while on duty.
D. F. WENGERT, General Manager
J. G. KIMMELL,
General Superinter C. B. LISHER Superintendent

NOT'E: Changes in this issue are printed in lype same as this.

Railroad Watches
2(R). Employes listed below and other employes as may be desig
ated, are not subject to Operating Rules 2 and 2 ( $\Lambda$ ), but they must, while, on duty, have a reliable railroad grade watch* which must not
vary more than 30 aecond from correct time: vary more than 30 seconds from correct time:
(* $\Lambda$ rairon ad grade antch is one equipped with a lever set.)
Saftety and Courtesy
$\qquad$
 Road Foremen of IVngines

Operating Rule 14 (p) is changed as follows: When necessary to use
cngine whistle as an alarm for persong or livestock on track, Whistle Signal 14 (1), two long, one short, and one long sounds, must be used. 14 (S). In addition to locations listed in Operating Rule 14 (1),
engine whistle must be sounded and bell rung approaching private crossings when view of corossing in obsecured or where it can bee seen
that persons or vehicles are approaching or in vicinity of the crossing. $15(\mathrm{R})$. On portions of the division where there is no joint operation of
Irains writh another company, first parauraph of Union Pacific Rule it Lrains winth another company, first paragraph of Union Pacijic Rule 15
contained in Consolidated Code of Operating Rules is changed to read
as follows. Sollows:
"I5. The explosion of two torpedoes is a signal to immediattely
reduce speed lo 20 miles per pour or as much slower as conditions
require, keeping close lookoul for train or obstruction. After reducing require, keeping close lookoul for train or obstruction. After reducing
loo 0 miles per horr, speed must nol be increased until train has
reached a point one mile from where the torpedoes were exploded. reached a point one mile from where the torpedose were explo ded.
The explosion on one torpeto will hindicate ohe same as two, bul the
use of two lorpedoes is required in all cuses." The explosion of one erperto will indicalc
use of hoo lorpedoes is required in all cass

$$
\begin{aligned}
& \text { Headlights } \\
& \text { headlight on en }
\end{aligned}
$$

17 (R). Oscillating red headilight on engine so equipped must be When train becomes disabsede or makes. sudden stop due to unusual occurrence, or when an adjacent
posibibilityof it being obstructed
When head end protection is require
When head end protection is required;
When occupying main track in meeting an opposing train, until
When occupying main track in meeting an opposing train, until
opposing train dime itt headlight and switch io lined to permit
oposing train to enter siding, except this does not apply in CTC territory
When red headight is displayed, an opposing train on eame or
adjacent track must toto before passing headlight, ascertain the
cuase and be governed by conditions. 17 (S). Except on Fifth Subdivision, headlight must be displayed,
burning bright, to the front of every train lyy day and night, cxcept burning bright, to the front of every train ly day and night, except
as otherwiese preseribed by the rules. 17 (T). Where Operating Rule 17 r
applies to rear of diesel locomotives.
17 (U). Oscillating white headlight on engines so equipped must
be displayed by night while passing through cities and towns be displayed by nigh while passing thourgh cities
whilc approaching and passing over public crossings.
19 (R). Oscillating red rear end light on passenger trains must be
displayed from sunset to sunrise and when day signals cannot be seen due to weather or other condilions. It must malso be displaned by day
duen the train is moving under circumstances in which it may be
whe vertaken by another train.
Red rear end light muet be extinguished when train is clear Red rear end light must be extinguished when
main track and rear end protection ia not required
19 (S). On portions of the division where there is no joint operaztion
of trains will another company, in complying with ()pernting Rule 19 ( $\Lambda$ ) at niyht when a red light is not available, a marker lamp must
be securely fastened to rear end of rear car so as to display red light When train is clear of main track at night to bepassed by auother
train, the red light must be removed, except in CTC territory. train (T). When the rear unit of a train is equipped wilh buill-in
markers, they must be lighted both day and night and (he recuircmarkers, they must be lighted boh day and night and the requirc-
ment that markers display green lights to front and side will not

 at nith ha and rear end protection is no required, the red rear ent ight
must be extinguished and the auxiliary narker must display green right
lo rear. Rear trainman is responsible for proper display of Lhe auxiliary to rear. Rear trainman is responsibl
marker as well as the rear end light
19 (U). Except on Fifth Subdivision and branches, Bend Branch,
Wallula Branch, and Yakima Branch, when a dicesel roond-suivich locomotive equipped with buill-in classi7/cation signal lamps is running light
or is al the rear of a lrain, he classiflcation lamps will be used as markers, or is at the rear of a train, the classificcation lamps will be used as markers,
displaying red or green lights $l o$ ihe rear in accordance with the rules. displaying red or green lightst to the rear in accortance with the rules.
The reguirement that markers display green lo fronl and side evill not
apply.

Indicators
24 (R). Referring to Operating Rulc 24: Helper engines will digplay
their engine number in indicators, except when used on head end of Switch Lights
27 (R). $\Delta \mathrm{t}$ stations where reflectorized type switch lamps are in use, in case of hcadiight failure, or engine backing up, traing and
gines must approach facing point switches at restricted speed.
27 (S). Switch lighte will not be used on branches ehown below:
 Pendleton, excent maiympia rack switches in Walla Walla yard
Trains and enginee must approach facing point switches on thes Conditional Stop
28 (1R). A green and white signal will be used to stop designated
traius at conditional stops shown in time-table.
23 (S). A white indicator board digplayed at a station will indicate
to trains doing local work tlaat there are cars to be moved or freight $28(\mathrm{~S}) . \Delta$ whing
to traing dong
to be loaded.

> Uso of Engine Whistle

32 (R). Within the city limits of Spokane, Pendleton and Pomeroy,
it is unlawful to sound cugine whistle except to signal flagman or interlocking aignalman, or to prevent accident not otherwise avoid-
At Walla Walla, the use of the engine whistle at the public crossinge
at West Cherry Street and Giardeners' $\Lambda$ seociation just west of Mill
and at West Chrry Street and Gardeners' Asociation just west of Mill
Creek Bridgre, is prohibited except to prevent accident not otherwise
avoidable.

|  | Clearances |
| :---: | :---: |
| (R). Clearance Form $\Lambda$ must be received as follows: |  |
| Centralia -all westward Gr |  |
| Centralia -all eistward T |  |
|  |  |
| -all westward CMStP\&P traing originating a |  |
| We Mell Melsing Jct. |  |
|  |  |
| Wallula ${ }_{\text {Wallala }}^{\text {Weall eastward }}$ |  |
|  |  |
|  | ll traius; |
|  |  |
|  |  |
| rver |  |
|  | -all eastward second-class and extra trains |
|  |  |
| 83 (T). Trains are not rectuired to receive clearance as per Opera- |  |
| ing Rule 83 (13) as follows: |  |
| dale |  |
| Argo |  |
|  |  |
| Richland Junction -Trains 361 and 373; <br> N. P. Crossing, Spokane-all eastward S. I. trains; |  |
|  |  |
| Tucannon $\quad$-all trains; |  |
| Bolles $\quad-$ all train |  |
|  |  |
|  |  |
| receive a clearance as per Operating liule 83 (B) as follows: |  |
| Hooper Jct. Connell Po |  |
| Starluck |  |
|  |  |
| ColfarSunnysideI'rain No. 68 will not te required to receive clearance at Manito when |  |
|  |  |

T'rains originating in new yard Spokane need not receive clearance ut
heir initial slation as required by Rule 8s $(B)$. Westward lrains en route

 Sixth Division which originate al new yard must receive clearance al NN
Crossing which will confer same authority on Sixth Division as when Cossing which will conjer san
received al Spokane. All rrains oriininating at The Dalles en route Bend Branch must re-
ceive SP $\begin{aligned} & \text { T\&S Raivay Company clearance card al The Dalles Yard Oofice. }\end{aligned}$ 83 (U).

| A claarance <br> recelvad al | By | Will confer the <br> same authorlty on | As when <br> recelved at |
| :--- | :--- | :--- | :--- |
| Ayer | Eastward trains | Connell Branch | Hooper Jct. |
| La Crose | Westward trains | Sixtb Subdivision | Hooper Jet. |
| Walla Walla | Eastward trains | Dayton Branch | Boilas |
| Dayton | Westward trains | Pendleton Branch | Bolles |

## Train Registering Exceptions

83 (V). At Seattle, information required by Operating Rule D D -8
will be issued to CMStP\&P first-clase trains by traill order and will be issued to CMStP\&P first-class trains by trail order and
delivered by operator on platform to conductor who will regiter by elivered by op
register ticket.
89 (W). Information required by Operating Rule S-83 or D-83 need
not be received at: Peningula Jct.-all westward traing and engines;
-all west ward U.P and CMSSP engines, but muat move at reatricted speed
N. P. Crossing, Spokane-all eastward trains and ergines.
Conductors of the following trains may register by register lickel, Conductors of the (ollowing trains may registe
perating Rule $88(1)$, when operator or anty:

regiatering exceptions:
Albina $\begin{gathered}\text {-only trains which originate or terminate at that } \\ \text { 日tation will recister }\end{gathered}$
Argo -only trains which originate or termin
Sentralia - Grays Harbor Branch trains originatin

Vancouver-all trains must recieter by N. P. F. Form 608 and will
be furnished check of regiter by train order or all traing must reciater by N. P. Form 608 and will
be funriibhed check of reititer by train order or
regiater check Form 602 isued by operator;
Zillah -only firet-clase trains will re
87 (R). On double track westward trains between Thc Dutles and
Crates and easwart lrains between The Dalles and Biggs must make
necessary identijication of all trains mel or passed.
Stopping Trains at Meeting and Passing Points
 eaving end of a stalin, stop should be made nol less than 300 seel from Souling point or sional, when length of train will permil, and
at that point until train to be mel or passed has departed.
89 (S). At Troutdale, when necessary for eastward trains to stop on
reight line to meet other trains, stop must be made clear of fouling freight line to m
point of giding.

|  |  |  |  | x (R). Contin |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Lertuen |  | mind | anome |
|  |  |  |  |  | N. P | n. . | smp ${ }^{\text {bex }}$ |
|  |  |  |  |  | N.P. | U.P. | Sup ${ }_{\text {geme }}$ |
|  |  |  | N. | N. | sopp |
|  |  |  |  | T Teoma | n. P |  | Some |
|  |  |  |  | Somat Silue | w. |  | Soppice |
|  |  |  |  | cin |  |  |  |
|  |  |  |  | Sole | N. |  | Suppege |
|  |  |  |  |  | N. |  | Sopoper |
|  |  |  |  |  |  |  |  |
|  |  |  |  | $\underbrace{\text { Satam }}$ |  |  | Supimmend |
|  |  |  |  |  |  | Avocmp |  |  |  |
|  |  |  |  |  | comed |  |  |
|  |  |  |  | Kama | c.mstr.ap |  | Spaid lumatatioss (i) |
|  |  |  |  | Stion | N. ${ }_{\text {a }}$ |  | Thersexim |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  | c.m.m.r.r. |  | Smeid hatatioses (0) |
|  |  |  |  | , | N. ${ }^{\text {re }}$ |  | (ent |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  | N. | v.P | sapper |
|  |  |  |  | ${ }_{\text {conem }}$ | ${ }^{\text {c. . }}$ | \%, |  |
|  |  | midem | Hop Guenena | cisal | a.w | v.e. | stop |
|  | ${ }^{\text {sp.as }}$ | v.r. | Stop igem | ateme | n. P . | N.P. | stepeme |
|  |  |  |  |  | c. . | v. P | Gite |
|  |  |  |  |  | N. |  |  |
|  |  | . | Atmotituk |  |  |  |  |
| Sined on oposatio |  |  |  |  |  |  |  |


| $98(\mathrm{R})$. Continued. |  |  |  | Al Plummer Junction a color light duaf signal equipped with the leller " $S$ ", as per Rule $601 G$, has been instelled al the clearance poim onated the main track switch may be oplened, tond if the signal then indicales "'Presced", movement to main track may be made, complying with Rule 513. |
| :---: | :---: | :---: | :---: | :---: |
| Location | Raliroad Crossed, or Junction With | $\begin{aligned} & \text { Trains } \\ & \text { Which Have } \\ & \text { Precedence } \end{aligned}$ | How Governed |  |
| Willa Walla. (M.1. 47.9) | N. P. | U. P | Stap signs. | 98 (V). At N. P. Crossing, Spokane, Spokane International traine and engincs must stop clear of Signal 1640. If there is no conflicting movement, junction switch may be lined for movement to Union |
| Walla Walla. | w. w. v. | U. P. | Gato. | Pacific track. When Signal 1640 displays Stop ind is opened, train or engine must wait three minutes and if no conflictis movement is evident, may proceed after sending fagman ahead |
| Langdon (M.P. 44.2) | W. W | . P | Gato. | but must move at restricted speed. |
| Milton. (M.P. 37.0) | W. W. V. | U. P. | Cato. | Drawbridges |
| Parker. (M.P. 91.3) | N P |  | Automatic Interlocking. | 98(W). Trains and engines after stopping at stop signs must not |
| Donald. (M.P. 89.35) | $\begin{aligned} & \text { N. P. (gauntlet } \\ & \text { track). } \end{aligned}$ |  | Automatic Intorlocking. Special Instruction 672 (R). | Montesano until they have called for, received and acknowledged proceed signal from bridge tender, and in addition must be governed by position of derail located 128 feet east, and derail located 195 feet |
| Auker. (M.P. 28.9) | w. w. v. | U. P. | Gato. | spian will be left open for river tralfic and derails will b |
| Dayton. (M.P. I3.10) | N. P. | U.P. | Stop sigos. | during such hours, notify Agent Montesano or dispatcher to c drawbridge operitor. |
| Dayton. (M.P. 13.11) | N. P. | U. P. | Stop signe. |  |
| Pullman. (M.P. 19.3) | N. P. | U.P. | Stop signs. | not proced onto draw span of bridge at recona 11 |
| Wallaco. (M.P. 80.4) | N.P. | U. P. | Stop signe. | bridge tender. |
| Walluco. (M.P. 80.6) | N. P. | U. P. | op signs. | 98 (Y). At drawbridge, M.P. 23.4 .5 Wallace Branch, trains and engines after stopping at stop sign must sound four short sounds of |
| 98 (S). At N. P. Cressing. Tacoma-Tidewater, when stopped by semi-nutomatic interlocking signal and no conflicting movement is evident, a member of crew must go to the crossing, remove padlock <br>  is relensed to permit operation of (lerail. After derail is properly lined, engine to proceed, mentber of crew will signal his engincer to procced if no train or engine is appronching on conflicting route. <br> Should electric lock fail to operate, break seal, ingert swit.eh key ad operate lock. After movement completed notify dispatcher. |  |  |  | bridge tender. If proceed signal is not received from bridge tender, flagman must be sent abead to drawbridge to give procecd signal if draw span is found properly closed and locked. <br> Two long sounds of engine whistle must be sounded before moving over bridge. <br> No loridge tender on duty between 5 A.M. and 9 A.M. and between 5 P.M. and 0 I'.M. During thesc hours draw span will be left open for river trallic. <br> 98 (Z). At M.P. 17.23, Tekoa-Ayer Branch, trains must stop before passing over drawbridge and then procecd if draw span is scen to be closed. |
| When signal displays Stop indication after switch is opened, train or engine must wait three minutes, and if no conflicting movement is evident, may proceed without sending a flagman ahead, but must move at restricted speed. |  |  |  | Flag Protection <br> 99 (R). On portions of the division where there is no joint operation of trains with another company, last paragraph of Operating Rule 99 is modificd as follows: <br> "Night signals- $\Lambda$, white light, not less than ten torpedoes and six red fusces." |
| Westward first-class trains at or seen to be approaching junction will have precedence over other weatward trains and engines from junction to depot. |  |  |  | At night and during foggy and stormy weather, a lighted red fusee will be used for hand signals required by Operating Rule 09. |
| 98 (U). At Marengo, eastward C. M. St. P. \& P. trains and engines are governed by Dwarf Signal 3068 in making movement to UnionPacitic main track. When dwarf signal displays Stop indication after operation of time release, movement may be made only under flagprotection. (See Operating Rulea 522 and 523 .) |  |  |  | 99 (S). At Hood River and The Dallcs, when passenger train stops at passenger station, engineer will not sound whistle for fagman to protect rear of train, but when on the time of a first-class train or in oggy or stormy weather, when ready to proceed, flagman muat bc recalled by engine whistle. <br> These instructions do not relicve conductor or flagman of the |
| All train movements between Manito and Plummer Junction will be made under the direction of the Milwankee Railronel and subject to timetrille and train orders of that company. |  |  |  | $99(\mathrm{~T})$. Trains may be relieved from protecting against following extratrains by train order, Example 7 of train order Form Z, only on the following brunch lines: |
| At Manilo, junction switch will be lined and sel Sor normal movement from Union P'acific to the Milwaukee. T'he apper unil of color lighl bloch |  |  |  | Connell Branch between FIooper Jet. and Connell. |
|  |  |  |  | Dayton Branch between Dayton and Turner |
| ping from Union Pacijfe line onto lhe Milvoukkee, beiny governed by the |  |  |  | Pomeroy Branch Heppner Branch |
| indicalion displayed by upper unil of this signal. T'rains using exclusive Union Pacilic track vill slop in eilher direction and linc the junclion swilch Sor move to be made, being yoverned on westward movemenl by in- |  |  |  | Umatilla Branch Condon Branch |
|  |  |  |  | Joseph Branch Grass Vallcy Branch |
| swilch for move to be made, being governed on westward movement by indication of lower unit of Signal 1487, and on eastward movement by indication of Signal 1486. |  |  |  | Pilot Rock Branch <br> Pendleton Branch between Walla Walla and Alto. |

 ing and moviing on curvee and where view is obsecured, looking out
arefull at all point for track cars and men working on track with-
额 within one-sint be sounded frequently:

##  <br> Tuaunon Branch): Tooper Jct. to Connell (o

Connell Branch);
When a train, engine or switching movement is to be made urainat he normal current of traffic over a public crosing protected by auto
natic crossing signuls, bells or wates, 4 nember of the crew must pro
fect the crosiluk. unless a crosink watchman is on duty. 103 (U). At Bridal Veil, in switching trarks scr ving lumber company, movement
member of crew At La Grande, eastward trains and engincs on nny track excent
nain track must not exceced 10 MPH over strect croseing at Fir and Grecnwood Strects.
At Baker, trreet crossings at Campbell and Auburn Streets, enst of
depot, must not be blocked in excess of five ninutes by freight trains.
 103 (V). At The Dalles, public crossings must not be blocked longer
than 10 minutes. When a train is to be delayed getting in or out of yard, crossings must be cut immediately.
103 (IV). At Barnhart, when movements to or from ballast pit ar made over public crossing, a member of the crews must
each side of track al the crossing to stop highway lraflic.
103 (X). The following will govern trains and engines at the public
crossings named below:
Location
 ayynuan must place firsl set of torped oes one-hats mile from rear of his
trin and must place second sel of torpedoes one and one-half miles truin and must place second sel of torpedoes one and
instcad of one and one-fourth miles from rear of his lrai

Unusual Conditions
101 (R). At Pilot Rock, traing and engines must move at restricted
peed, kecping a lookout for cars on or foul of main track west of
derail.
101 (S). On Bridge 365.32 over Spokane River and Latah Creek
between Weat Spokane and Cowles, and on Bridge 271.70 over Snake River between ooso and Chew, trainmen and enginemen must watch
train and track closely and be prepared to stop should an emergency train an
arise.

Cars or Train Left Behin
102 (R). On portions of the division where there is nojoint operation
of trains with another company, in complying with operating Rule
02 (A), if no light is available to be placed on front end of cars lett of ARA, , if no light ier available to be placed on front cnd of cars left
102
behind, when conditions make it necessary, a trainman must remain behind, when conditions make it necessary, a trainman mu
at front end of such cars to signal engineer when returning.

Riding on Footboards of Engines
103 (R). In switching with an engine equipped with footboards,
hen there are no cars alcad of the engine, a yardman or trainmas and not more than one) must ride on leading footboard in direction When the switchges to be passed over can be plainly seen to b where movement line
Over rtreet crossingover crososing protected by watchman on dut y
Street at East Portland At Umatilla, over public crossings just east of M.P. 9.5
At La Grande, over Fir Street and Greenwood Street; At La Grande, over Fir Street and Green wood S
At I Seattle, ver Spokne Street, Harbor Iland;
At Seattle over Spokane Street, Alaskan Way;
At Seattle, over Spokane Street, Harbor Island;
At Seattle, over Spokne Street, Alaskan Way;
Where through movement is made:
Where through movement is made:
Between Argo and Seattle pasenger station or local yard,
Along East Marginal Way, Seattle. When Diesel-clectric locomotive is uued, a yardman or trainman
ay ride on side steps or platform in direction engine is moving instead of on leading footboard.
Pubilic Crossing
103 (S). At public crossing protected by crossing watchman and
crossing gates, yard crews must know gates are down and crossing protected before making movement onto or over the crosesing. When
not so protected the crosing must he protected by a member of the

103 (T). At public crossings protected by automatic crossing signals, bellis or gates, every effort must be made to avoid unecesarily
occupying controling circuits or leaving switches open within the occupying controits.
controling circuits
When a train, cogine, or switching movement has been delayed or topped within 1500 feet of such crossing, any furthcr movemen
either forward or reverse, toward the cossing must be made a restricted speed until it is determincd that the crossing signale are
operating for sulficient time to stop highway trafic. In case the cross-


104 (S). Continued
Biggs, spring switch at end of double track---Jor wostward trains,
The Dalles, spring swiech in westurnt nuain track at weves end of

traing;
Trenton, cros-over switch-for extension;
Tacoma Jct., junction ewitch-for C. M. St.


Fairied - switch to G. Nrachnection on siding-
Hooper ott (Connell Branch)- for line vin Park;
Seltice-for line
Seltice-for line via Colfax;
Winona-for line via Colfax;
Tucannon for rine via Patath;
Walla Wallas pasenger Bation, enst switch to No. 2 track-for
No. 2 track when passenger cquipment is loft on No. 1 track;

Yakima, Walnut Street-for main switching lead.
104 ( T ). At Tacoma, when cross-over switches from Northern
Pacific double track to $U$. P. drawbridge line are handled by trai nmen, all such switches must bc returned to normal position after movement
is completed.

$\underset{\substack{\text { Sicra Nevada Spur } \\ \text { (300 feet cast of refinery track }}}{\text { swith })} \begin{gathered}\text { Sprin s witch point must be set ind } \\ \text { railing position an all timese exce } \\ \text { when }\end{gathered}$
 zinc plant)
104 (W). At La Grande, while 104 (W). At Las Grande, while switching movements are besing made
on east end of drill lcad, derail and matin power switcl will be hand 105 (R). That part of last Rasagrictions
Special Instructions, of los-R)" is changed to read, "Sce eppeed' restric-
ions in (S) Siding

105 (S). At Hood River, when neceessary to take siding, eastward
passenger, mail and express trains will use cross-over from main track to siding. Brakemen and Firemen Stopping Trains
106 (R). When conditions or signals require that the train be
topped or fuils to ta take proper action to do so, or should the engineer become
incapacitated, brakemen and firemen must take inmediate action to Movements Against Current of Trafic
D-151 (IR). At points shown below, traing and enginces may move
against the current of traffic within yard limits without being preceded by a flagman, except when a first-class train is due or whe iew is obscured:

The Dalleg. -between Block Sivnals 867 and 838;
Albina and Portland-on parallel tracks between Portland and
East Portland or Harding Street, Albina; Spazane-between Union Slation
tool house al Wesl Spokane.
D-161 (S). Unless otherwise instructed, all traing will be routed
with current of traflic between East Portland and Allina. When with current of traflic between East Portland and Albina. When
truins are being handed by enines prohibited from moving with
current of traffic and it is necessary to operate them over the other current of traffic and it is necesarary to operate them over the other
track, switchtenderg at Albina and towermen at East Portland muat see that movement is p
and other movements.

Train Order Signals
200 (R). Lights will not be kept burning at night in train order signals on branches when operators are not on duty,
be governed by the day indication of such signals.
200 (S). At Kennewick, when train order signal dieplays Stop indication, tiop must be made before entine pass
unlecs proceed signal is received from operator $200(T)$ At Bijgs: When lrain order signal for eastward trains indi-
cates slop, eastuward trains musl stop be fore any part of train or cnsine
 ftay hy day or yellow ligh by night is received
Train Orders
208 (R). Except at initial gtations, when a train's superiority is estricted for an opposing train at the eoint where the order in
oit the order must not be made complete to the train which is being
dvanced until the operator has placed two torpedoes on the rail advanced until the operator has placed two torpedoes on the rail
not lese than 1000 feet from the train order signal in the direction of the restricted truin, and the train dispatcher has been notififed that
torpedoes have been placed. In addition the restricted train must be corpedoes have been placed. In addition, the restricted train must
brought to a stop by operator, using red flay or red fusee, before the
train dispatcher OK's the clearance.

## 209 (R). Ope or clearancee.

Movement of Trains by Block Signal
261 ( R ). Movement of trains and engines between Helging Jct. and
ndependence is governed by automatic block signals and when Inignils indicate Proceed, traina or engines ock signala an when
$261(\mathrm{R})$. Continued
 Branch main track must not he occupied except under protctetion in
accordance with Operating Rule 99 against westward trains on accordance with Op
Grays Harbor Branc

## Centralized Traflc Control Systom

266 (R). At Pendleton, trains from Pendleton 13ranch to extension
of Track 6 , must obtain permission from train dispatcher at La ing Signał 2165.
266(S). At Encina, Telocaset and Kancla, Clearance Form B re-
quired by CTC Rule 66 need not be received by light enjine leaving
those stations, but movement must be governed by 266 (T). Clearanee Form B need not be received for movements in
CTC territory betwecn Wallula Jct. and Villard Jct.
267 (R). CTC Stop signals loc:tted as fullows are designated as
IIuntingtion-M.P. 389.3.
 or oper thar but movement must be made at restrictel speed and Oper tiny Rule 267 must be complied. with.
267 (S). When Stop indication is displayed on either of the follow-
ng signals, in addition to receiving Clearance Form C ing signals, in addition to receiving Clearance Form C, Ilagman must
be senta ahead to next signal and movement must be made at restricted
speed: Eastward stop signal governing movement from joint track
from Yakima Branch to Villard Junction; Eatat ward stop signal located just w cast of N. P. cross-over east
end of Wallula, governing movement to Sixth Subdivision main end of
track;
West
Westward stop signals governing movement over Yakima junc-
tion switch zion (R). In




Approach Signal Indication 284 (R). Operating Rule 284 is changecd as follows:
When an Apronch indicition is displayed on a block or interlock-
 signal. Train e.
to that speed.
284 (S). On Spokane-Tekoa Branch, when a signal digslays $\Lambda \mathrm{p}$ -
proach indication, trains or engives must immediately reduce sped proach indication, trains or engives must immediately reduce speed
to one-half the authorized speed at that location, but not exceeding 20 miles per hour, and as much slower as
to stop before passing the next signal.

Advance Approach Signal Indicatio
285 (R). Operating Rulc 285 is changed as follows:
Whan an Advince Mploneach indication is isplayed on a block or interlocking signal, train or cennine must rincced prepared to pass
next signill at not exceeding 40 miles per hour. Stail System
301 (R). Movements of trains and engines on the Government
trisckage between Richland Junction (Yakima Branch) and yard trackenge geteen and
limit sign on Government trackage at M.P. 43.8, are governed by staff system. Ctaff, lettered "A" and "B", will be used and stafi boxes
Dive located at Richland Junction and at M.P. 43.8. When only one train movement is to be made in the stalf limits,
dispanteher will notify the crew and that crew must have both stafs
". A and "B" in their possession and retain them for the round trip.
When two trains are to be run in theese limits, the first train must not enter the ataff limits until it has been ascertained that both stafs
are in box at that point, and has taken gtaf "A" for their movement.

301 (12). Continued. scssion. moving through the staff limits, hoth stalis must bo left in
ftter mox. Staff hox must be legt stalf box. Staff box must be left locked at all times.
Conductor of tain which is to nove, or has moved, through the
staff limita, must register his train on train register at Richland Conductor of train which is to nove, or has moved, through the
staff limits, must register his train on train rexister at Richland
Junction, and indicate staff used, either "A" or "B", or both.
 staff system into interchange yard and wye at North Richland (which
is ten miles rom Reichland Junction) will be governed by yard limit
rule rules and instructions issued by Government dispatcher. When two
traina arc run, the frrst train arriving at interchange yard must
remain at that point until the second train arrives. til the second train arrives.
302 (S). Moverent of trains and engines on Olympia Branch be-
tween Olympiand and East Olympia are governed by staf system.
One staff will be used and will be placed in sta Onc staff will be used and will be placed in staf box located near yard limit sign, Olympia. Trains or engines, in using branch main
track outside yard limits, will secure this star and retain it in their
possegion
 Trains or engines will not be able to make movements out of Bast
Olympia until the staf has been obtained from Olympia and is in
Chyir posesesion. Dispatcher will instruct crews how this staff will be be
 niter movements are
and securely locked.

Automatic Cab Signal System


 hanges t.oa less restrictive indication

Slide Detector Signals
509 (R). On Yakima Branch, between M.P. 41 and M.P. 42. slide ice. When signal displays Stop indication, train must stop before
passing and may then proced at restricted speed to signal at opposite passing and may then procecd at restricted speed to signal at opposite
end of protected territory, look ing out for damaged rail or obstruc-
tion, and wirc report must be made to chief dispatcher and superend of prot w
tion, and
intendent.
 609 (T). When a slide warning device plug is found pulled or con-
roller operated but no otystruction on or damuge too trick in found
 pressing "Re-sel." hutton, and conducter must make r
ispaicher from first stop or first open telecerriph offiee.
509 (U). At Marengo, dwarf signal governs movennents from east
eg of wye to main track. After switch is opened, signal will display Iego of wye to main track. After switch is opened, signal will display
yellow indication when block is clear, execept when block is ocupupied
west of Signal 3066 signal will not display yellow indication until three minutcs after switch is opened.

Track Occupancy Indicators
512 (12). Trainmen must observe indication displayed by track
occupancy indicators before changing derail or main track switch. A switch must not be opened toper per mit a movement to a main track
when Occupied indication is displayed, unless the movement is properly protcected. Indication displayed by track occupancy indicator is not authority
or a train or engine movement, and docs not relieve enginemen and for a irain or engine movement, and docs not relieve cnginen
trainmen from protecting the train as required by the rules.
513 (12). In CTC terriitory, when movement tor

618 (R). Bus cars, light weight on Sanded Rail
ocomotive without cars, or cuts of less than four caras or less, any permitted to stand on sanded rails on main frack cars, muat on thet be
fouling point and the awitch on the .ng point and the awitch on sidings.

Remote Control Switches
526 (R). Remmole cintrol switches are lociled as follows: (Sise Rules Lroutdale, junction swition to freight line and
east swi.ch of siding on Kenton Line. Hinkle, main track switch at west end of pass-
coller yard. $\qquad$

$$
\begin{aligned}
& \text { a follow: } \\
& \text { For tunnel and main track to Albina } \\
& \text { For tunnel and yard lead to Allina.. }
\end{aligned}
$$



605 (S). At 'Troutdale, upper unit of interlocking signal, located
just cast of the junction switch, governs westward movements via just cast of the junction switch, governs westward movements via
Grahimand the lower unit governs westward movements via Kenton
linc

Interlocking
663(R). Movement of trains ind cngrin
and Peninsula Jet. is of traing aurd engines between St. Johns Jet.
from St. Johns Jct.
AL Sy interlocking which is operated





 thorize flagman to precede the train or cngine, examine route and
report to operator at St. John Jet. If track is clear operato will report to operator at St. Johns Ject. If track is clear. operat
then authorize train or ongine toproced at restricted specd.
A member of cew A member of crew mugt obtain authoritit from operator at St
thenn sct. before hand-operating any switch within interlocking


663 (R) Continued
imits and before hand-operating electrically controlled switch at
unction of North Portland and Kenton Lincs. After using electrically controlled switch, it must he restored to position in which it was
 nals. ELectric lock derails are in use. Trains or engines must obtain and operator wifl relense clectric lock fur operantion orer this crossing movement is completed, derails must be restorated to on deraails. After and locked with swith hock and opcrator notifided. If operator is
unable to relcase elcetric lock, he may authorize member of crew to unable to release electric lock, he may authorize member of crew to
break seal on end of switch machine and unlock with switch key. 663 (T). When castward interlocking signal located on cantile ver
nt M.P.3.3 Kenton Linc, displlays Stop indication, permission musust 663 (U) A Columbin River Bide MP 744 Yaki Br

 draw span are properly closed. Two long sounds of engine whistle
must be sounded before proceeding, nud movement must be made at restricted specd
672 (1R). At Yakima River Bridge, M.P. 89.35, Yakima Branch
trains and engines arc governed by automatic interlocking signal
 Rule 672 . If signal docs not chnirc its indication after one minute hag protection must be provided for movement between home signal overning gauntlet track
Actions While on Duty
701 (R). Eimpleyge.s must nol sleper rrible on duly.
711 (Rassengers on Freight Trains
711 (R). The following passengers only may be carried on freight
traius between stations at which the trains stop:
Persons in charge of iive slock or other freight when provid
with proper transportation

traveling on eompany business requiring use of freight trains;
Other persons with annual, trip pass only when endorsed
Other persums with annual,"r trip pass only when endorsed
"Good on Frevight Trains,"
Passengers holding revenue tickets with permit issued by
Passengers holding revenue tickets with permit issued by
superintendent;



Exchanging Signals and Inspection of Train


Close Clearances
714 (R). There arc cloge clearances above and at the side of main
tracke as follows, and in addition thercto, at platforms and other structures atove and at the side of industry, stock and other tracks.
(Sce Operating Rule ain (Sec Operating Rule M.)


Struclure or obstruction
Clearance of
engnin or ar
sis close al-


714 (X). Continued.
track between trains or cars containing loads of excess width. No one
will be permitted to ride on the side of such cars. Unless otherwise inst ructed, cars of excess widh or height must
be handled in head end of traill. Trains handling wide loads must obtain mecting or passing order
with other traing handling wide loads at stations where they will Whe
 be notilied so that mecting or passing point can be arrangecl.
Crewi of traing receiving notice of wide Crews of trains receiving notice of wide load in other trwing must
inspect thcir train for open or swinging doors or anything projecting
beyond normal clearynce. byond normal clearance.

Handling of Explosives and Other Dangerous Articles 726 (r). Trainmen, enginemen, yardmen, agents and other em-
ployes who in any way handle or care for exposives and other dan-
terous articles must familiarize themselves with the regulations and gerous articles must familiarize themselves wi
itstructions governing the handling of them.

 arded and certiificated as rcciuircd by this part. Plac:irds and car cer-
tificantes lost in transit shall bc repliced at next inspection point and tilicates lost in transist shall be replice
those not requircd shall be removed.
BE 589 (b); (1) At points where trains are inspected, cars placarded
"Explosives; and dadjacent cars shall bo inspected; such carss shall
continuc in movement only when inspection shows them to be in coneontinue in movement only whe
dition for safe transportation.

 sivcs, or placardcd "Po oison Gna", shall be coupl.
sorce than is neccessary to complete the coul, ling.
 BIF 589 (e). (2) Closed cars placarded "Pxplosiveg" shall have
doors closed before they are moved.
Switcohng ot Cars Contalnnng Dangorous Artioles
i3F 589 (d). In switching operations where use of han
IBF 589 (d). In switching operations where use of hand brakes is
necessary, a placarded loaded tank car, or a drant which includes
a placarded loaded tank car shall not be cut oft until the preceding necessary, ${ }^{\text {a phacarded loaded tank car, or a d darat which includes }}$
a placarded loadded tank car shall not to eut off until the preceding
car or cars clear the ladder track and the draft containing the placcar or cars clear the ladder track and the draft containing the plac-
ardd loded tank car, or a placarded loadded tank car shall in turn
clear the ladder before anothar car is allowed to follow. clear the ladder before a nother car is allowed to follow.
BBE 589 (1). (1) In switching opper:ations where hand

 "Dangerous".
it is cut ort.

Placomont of Froloht Cars Contanno Explosivos,
in $Y$ Yards, on Slatings, or Sidetracks



$13 E 58$ ( f . . At all terminals or othcr places where trains are made
up by crews other thin rood crew accompanying the outbound move-


Continued on opposite side.

726 (R). Continued
to the train and engine crew and a copy thereof showing delivery to
the train and enginerew shall be kept on file by the railroad at each
point where suld noticc is wivel point where suth notice is given. At points where train or engine
crews are changed, the notice shall be rausf erred from wrew to rew Position In Frolght Tratn or M1xod Traln
B1: 589 (g). In a freizht tranan or a m mixed tras either standing or
during transportation thereof, a car placarded "Explosives" shall
 (1) When the length of frcight train or mixed train (1) Whe the rencth of freight train or mixed train will not permit
it to be so phicecd, it shall be placed near the middle of the train.
(2) when transorted in (2) When transported in a frcight train made up in "blocks" or
classifications, n anr placarded "Fpxplosives" shall be placed near the
madic masdile of the " "block." or classification in whlich moving beat not
nearce than the sixth car from both the engine or occupied caboose. nearcr than the sixth car from both the engine or occupied caboose.
(3) When tranported in a freight train or a mixed train performing
. pickup and or setof service, it shall ce placed not nearer than the
scoond car from both the engine or occupied caboose, except as provided in paragraph (1) of this section.

BV: 589 (h). In a frcight train
during transportation tright traina or a mixed train either a standing or
not be handled next to: during transportation
no handled next to

1. Orrepioud


2. Any car placarded "Dangerous" or "Dangerous-Class D
Poison"
3. Any car
Poison
4. Engine.
5. Engine.
6. ny car placarded "Poison Gas."
7. Wooden underframe car (except
8. Loaded hat carr, exeepy (lant carrs carry) narrow gauge railroads).



9. Openton car when any of the lading extends or protrudes above
or beyond the cnds or sides thereof.
10. Car equipped with nutomatic refrigeration or any other ap-
paratus utilizing an open-llame light or an internal combustion
11. Car containing lighted heaters, stoves or lanterns.
12. Car containing lighted heaters, stoves or lanterns.
13. Car loaded with live animals or fowlocupeied by an attendant.
14. Ocupied caboose oxcept as provided in paragraph (1) of this
section. Occupied caboose oxcept as provided in paragraph
section.
Positlon In Traln of Loaded Placarded Tank Car
 sirayranh (i) of this section, a plicarded loaded tank crr shall whe he lentth of the train permits, be not nearer th
the cngine, occupicd caboose or pussenger car.
Bil 589 (i). (1) When the length of the frcight train or mixed train
will not permit it to be o oplacecd it thall be not nourcr than the
second car from the elfinc occupicd cabose or poscurg BRE 589 (i). ( 2 ) When Lransported in a freight train engaged in
"pickup", or "sctol") service, a placarded loaded tank car shall not nearer than the second car fromboth engine or occupicd caboos
Soparating Loaded Tank Cars Placardod "Dangerous" From Other
13E5 589( j ). In a frcight train or mixed train either standing or
during transportation thereof, a placarded loadcd tank car must not during transportation thereof, a placarded loaded tank car must no
be handled next to:
15. Occupied passenger car, other than gas handlers accompanying
shipment.
16. Occupici comb.
ing shipment.

Continued on page 13.

726 (R). Continued.
3. Ny car peacarded "Explosives."
4. Engine (except when train consists only of placarded loaded
tank carr)
5. Any cars placarded "Poison Gas,"
7. Loaded flat cars. (Note: Flat cars equip gauge railroads). attached ends of rigid construction shanll be considered as open-
8. Open-top car whin any of the lading extends or protrudes
above or tueyond the cnds or sides there
9. Car equipped with automatic refrigeration

Car equipped with automatic refrigeration or any other ap-
paratus utilizing an open-lime light or an internal combustion
10. Cargine intits operation. hing lighted hhars, stovcs, or lanterns.
11. Car loaded with live animals or fowl, occupied by an
11. Car loaded with Iive animals orf fowl, occupicd by an attendant.
12. Occupied caboose (except when train consists only of placardcd
loaded cars)

BE 589 (k). In a freight train or mixed train either standing or
during transportation thercof, a car placarded "Poison Gas" or containing poison liquids, Class $\Lambda$, shanll not be next to other freight cars
placardcd "Explosives" or cars placarded "Dangerous."


 heater or stave it sholl
" $E$ :rplesivives" placards.

Cors Contanng Exploly, of or Poleon Gas and Tank Cars BE $589(\mathrm{~m})$. Cars containing explosives, Class $\Lambda$, poison gases or
liquids, Class $\Lambda$, and tank cars requiring "Oangerous, placards shatl not be transported in a passenger trariin. Such cris may pe transported
in mixed trains but only at such times and between such points that in mixed trains but ony at such times
freight train service is not in operation.
131 589 (m). (1) Cars containink explosives, "Class $\Lambda$, poison yases
or liquids, Class $\Lambda$, and tank cars placarded "Dangerous" shall not be tringurarted next to occupicd cabooscs or cars carrying passengers
in mixed trains except as provided in paragraph (1) of this section. BE $589(\mathrm{~m})$. (2) When a car containing explosives. Class $\mathrm{B}_{\text {. }}$ or or
dangerous articles other than explosives requiring labels (not including Class $\Lambda$ poison jases or liquids) is moved in a mixed train and such
car is not occupid by an employe of the carrier, placards must be car is not occupied by an employe of the carrier, plac
applied to the car as required by these regulations.
Postition In Traln of Cars Contalining Class D Polsont

BRE $589(\mathrm{n})$. In a fright triin or mixed train either standing or
during, transportation thereof, a car placarded "Tannerous-Class,
Por


Empty tank cars must not be movered from stations unless dome
Emomer cover and all outlet caps have been replaced and wrenched tight
shipping tags and cards removec from can and "Dangerous" placards
lemped

## Open Flame Switch Heater

726 (S). Cars loaded with explosives or llammable commodities
must not be permitted to stand over open flame switch h hater. I
stop is made with such cars standing over open flame heater, fllame must not be permitted to stand over open flame switch heater. I
stop is made with such cars standing over open flame heater, flame
must be extinguished.

Trains Stopped in Tunnels
733 (R). Dangcrous gases present in exhausts from various types of
locomotives, steam generatores, or eng ines of the Waukesha type, may cause incapacitation or fatalitics in in sufficient concentration as

733 (R). Continued In the event a passenger train, regardless of the type of power
Leing sued, is stopped in a tunnel, cars within the tunnel must have air circulating systems, including air conditioning systems, ice
machines and engine enencrators, shut off, fresh air in take shutters
closed, and blower fans shut off. closed, and blower fans shut off
Certain gases are not readily
Certain gases are not readily detected by odors and this action
must be taken immediately and time not wasted in determining when
trinn may be started rinin may be started. Take safe course and act at once.
Train dispatcher should be notilicd immediately so that proper Train ispat cher shoudd be notiliced immediately so that prop
rrangements can be made for protection of persons and equipment 733 (S). When a diesel or turbine locomotive is st opped in a tunnel
under conditions preventing prompt movement, engines must be Local conditions must be carefully considered, as there may be
Loct train by air currents, or where proximity to tunnel a oway fre would makc it unnecessary to shut off proximite engines. Snafety of passenger
and members of the crew must be the first consideration.

Shutting Down Engines of Diesel Locomotives
733 ( T ). When diesel switch locomotive is to be idle in excess of 30
ninutes. engine must be shut down. When diesel road locomotive is oo be idle for onc hour at initial or intermediate stations, engives
nust be shut down Exceprron: In such cases, engines must not be shut down when
 filing, enginemcn will chat
pher over exhaust stacks.
733 (U). When engines of dicsel locomotive are shut down, or furly yopplided and, in andition, front and rear of a traction wheel must be blocked, hand brake applied on each unit, and sufficient hand
brakes must be applied throughout the train to prevent movement
hould air brakes leak off. brakes must be appied th.
should air lrakes leak off.
During During freezing weather, when diesel engines are shut down, cool-
ing watier must be drained tow winter levcl and, if necessary to prevent
damage to enginc, must be droined completely. ing water must be drained to winter level and, if
damage to engine, must be drained completely.

## Power Transmission Wires

734 (R). Power transmision wires sarrying 2300 volt circuit are
ocanted on top arms of singal pole lines and on top arms of joint belegraph and signal pole lines.
tinn

Diesel Locomotives
 locomotives until en
have come to a stop. perated rear end to rear end, with or without "B," "unit or units, is $t$,
e moved in yards or around cninet on
 735 (T). When diesel units are operating with less than full comhe motors at any time enroute, train dispatcher must be notilied the motors at any time enroute, train
at first stop or first open telegraph office.
735 (U). When neceessary to break scals on equipment and contro ockers on diescl road units, notation must be made on engincer'
work report with explanation of necessity for breaking scals. 735 (V). On diescl and turbine locomotives in road service, not
more than five men may ride in control cal. nore than five men mayd ride in ocontom cativ.
Unathorized persons, includ ing deadhea
Unathorized persons, including deadhead train and engine me
must not occupy cal of trailing unit of diesellocomotive on any train
T35 735 (W). On diesel locomotives, side and end doors of engine rooms
must be kept closed while the locomotives are moving. $735(X)$. Care must be exercised to avoitl excessive use of emergency
electric heaters in cals of diesel unils so equipped. These electric heaters or frilure, but their use will completely deplete elhe balleries in on muatler of hwo harrs or less, which would resull in fnailure if "tll units. Jngine-
men should bear hhis in mind and nol use lhese electric heaters excessively men shoull bear lhis in min
and deplete the batleries.










${ }_{740}$ (R). When Dandio Dead Engines
740 (R). When hand lini dead or disathled steam locomotive in train,
when lineth of trin will permit, it must be placed 12 cars behind
road logh
ond


 socities a
lover rpeed.

Helper Engines
741 (R). Hielper locomotive on pasenger train must be coupled
head of train locomotive, and will not be placed on rear of passenger traing exe ent in onase of emergeney or unuuual circumstances, then
only for such distance as it is sate.

741 (S). Locomotive in helper service equipped with pilot plow
requiring extension coupler must be placed at head end of train.


In necessary lou use more than five diesel helper units, ,he othcrs must
Flangers on Snow Plows, otc.
 be raised when passint over bridese, highway crossings, rai
crossings, frogs and switches and througl interlocking limits.

## Position of Cars in Trains

Bo2 (R). Cars desipnated below must be handled in rear of train,
and next to caboose in the order named. Drover arsa occupied or unoculuied;




Rotary snow pilows handled in frieillt trains must be next to the
caboose with rotary whecl to the rear. When passenger express refrigerator cars are handled in traing con-
sisting of 7 cars or more, such cars must be handled in rear of train


cars . will be permissible to handle emply flat cars on head end of trains
when uhen nicked up ap poinls belween main inel le
lrains shlen lo be ese ol oul beveveen lerninals.

E02 (S) Open top or fat cars loaded with pipe, lumber, poles or
other lading which llas tendency to slift, must not be handled in train next to locomotive or cabooose.

## Cars on Sidings

Bos (R). On Sixth Subdivision, cars may be placed for loding and
storagco on all industrial tracks, and all sidings equipped with deraiis when authorized by chief dispatatcher

## Cars Partly Loaded or Unloaded

B06 (R). All persons arc prohibited from riding in cars while being
switched which are in the process of being loaded or unloaded. Part Ionds will not be swithed unless properly broken down or properly
 ing, presons workng in or about the cars must be notified and train-
men and yardmen must sec that cars are not switched with until
mens


Chaining Cars to Rail
806 (R). Between Huntington and Pendeteon, when gars are set out
on sidings on rrade where there are no derails, in addition to seit ting cars are picked up, crew must take hain to terminal.

Cars with Bad Order Couplors
811 (R). Freiplt cars with bad order couplers may be handlec
behind caboose to destination or to irst terminal, provided thle good coupler can be coupled to caboose and, in additition, las air brakee
and hand brake

 posible. When thise canno

Hot Boxes
$812(\mathrm{R})$. When a hot box is detected on a train between stations, $\Lambda$ quickly as hot box is detected train must be stopped, , 1 ot box


 smoldering, taking What

## Inspection of Train




812 (T). When stop is made by a passenger train due to some con-
dition alfecting the equipment of thit triun, ith thorougli juspection dition alfecting the equiipment of thint trizin
of the train must be made before proceeding.
812 (U). Leaving designated ingpection points, a trainman must be
it head end of train and make caref ful inspection of traim as it pulla

 812 (V). When a train is stopped to be met or pased by another
rain, cerew of stand ding train must make thorough inspection of
 nspect pasing train from the farther side and rear trainman or oon
ductor mustinspect the passing train from side nearest his own train Crere on pasing trin m mass bin in position to receive signals and take
immediate saction when necessany.

812 (X). In addition to inspection required by other rules, stream-
line trains must be fiven lose cumming inspection by rear trainmen
ind

## 



| Nolin | M.P. 25.7 .2 and M.P. 257.8 M.P. 1978 to M.P. 198.6 | ves; |
| :---: | :---: | :---: |
|  | M.P. 191.6 | -single curve; |
|  | M.P. 180.1 <br> M.P. 159.5 to M.P. 161.4 M.P. 138.2 |  |

 Fourth Subdivision-
 After rear r rainman has completed inspection on the above curves, if everything is iall right, the must give engine ereve hand signal to
proceced this sig signal must be acknowledged by two long sounds of
of



N. P. Air Brate Rules

814 (R). On tracks operated by Northern Pacilic Railway, North-
ern Pacific air brake rules will apply.
Switching Cars With Air Brakes Cut In
815 (R). Air must be cut in and automatic brake used when sw itch-
ing passenger train cars and occupied outrit cars; however, indeing passenger train cars and occuuied outlit cars; however, inde-
pendent or straight air brake may be sed when maing
Engineman must exercise cire to avoid rough handling couplings. Passenger Trains Backing Up 817 (R) On passenger trains backing up bet ween Portland and
East Portland, a traiaman must be stationed on rear of train ready apply brakes in emergency. Air whistle must bear of train ready
to anded when
apren approaching Fron
ditione require.

Movements on Leads and Yard Tracks
$820(\mathrm{R})$. At Huntington, Lat Cirinde, Pendleton, Hinkle, The Dalles,
Kenton, Albina, Argo, Ayer, Walla Walla, Wallula, Yakima, Tekoa and Spokane, road engines and trains and yarr movements approcol-
ind leads, must stop beforc fouling lead ing leads, must stop before fouling. lead unless it is known that
switcles are properly lined and lead is clear. Before a train stants out of yard drack, brakeman will precede the
movement to a point wherc it is known route is clear. movement to a point where it is known route is claar.
Before a light engine starts out of yard track, the engineer and
fireman must know that switches are properly lined and that route
fit is clear.

## Track Scales

821 (I2). Locomotives must not be moved over live rails of track
scales and when moved over dead rails of track scales, a speed of 5 scales and when moved over dead rails of track scales, a speed of
MPH must not be exceded.
Sanders or injectors must not be used over track scales and locomotivess or carr must not stand on dead rail over scale deck or plat
form of track Cars to be weighled must be stopped on seales and uncoupled at
both ends while being weighed, except on scnles equipped with automatic weighing device.
Cars must not be violently stopped by impact, sudden application Cars must tot be violently stopped by impact, sudden application
of brakes or by blocking wheels. $\operatorname{tfter}$ cars are weighled they must
not be moved over live rails if possible to avoid it. When making impact with cars on scalec, speced must not exceed 2 MPH and 4 MPH
must not be exceeded over scales in any casc. Cars on live rail must not be moved by othcr cars or engines moving
on dead rail, or vice versa. Cars must not be moved over sale with
one truck on live rail and other truck on dead rail.

822 (R). At Hun Caboose Track 822 (R). At Huntington, La Grande, Hinkle, The Dalles, Abinas
Argo, hyer, Walla Wa.la, Xakima, Tekon and Spokane, caboose track
switches must be kept lined and locked for runin switches must be kept lined and locked for running lead. Befor
coupling to caboose on such tracks, caboose supply employes on
about cabooses must be warned before couplings are made.

## Drover Cars

823 (R). Trains handling drover cars must not be pushed by an
engine at the rear. If it becomes necessary, in an emergency, to clear gine a track by use of engine at rear of troin the drover cose解 in handling to or from trains.

Coupling Passenger Cars
824 (R). When coupling an engine or cars to passenger equipment,
coupling must be tested by stretching slaok after coupling is made After coupling to cars standing on grade, slack must be strctched
and it must be known that air brakes are fully charged before releasng land brakes.
After coupling a tight lock coupler to any coupler
hat knuckle is securely locked in closed position.
When coupling other type coupler to tight lock coupler, knuckl on tight lock coupler must be closed and knuckle on other couple After cars, are coupled, tight lock couplers must be inspected to
see that tell-tale hole is visible just below bottom of coupler head
and that tell-tale hole iocked.
and thacke los
Position of Brakemen on Trains
844 (R). On freight trains, the head brakeman must ride in control
cab of locomotive at front of train exceet while performing duties requiring lim to be elsewhere as specifically provided by rules. On diese or turbine locomotive, when ne ecesary for head brakeman
to ride clsewhere llian in control cal, he will imincdiately return to
.o control cab on signal from engineer. When fireman is patroiling engine roons when train is in motion, head brakeman must remain in conconditions prescribed by Rule 812 .
When necessary for trainmen to ride in cab of trailing diesel unit they must not occupy enfinerr's seat and must not tamper with n
maniupulate any of the switches or valves nor place feet on dialliboa r windshield.
854 (S). On trains moving over Willamette River Bridge, trainman
must be on rear car.
Closing Doors on Freight Cars
900 (R). Referring to Operating Rule 900 :
Conductors will be held responsible
their train are properly closed. When necessary to doors on car found open, hasps and locking mechanisms must be operated to keep
secured. When door of cars in train, or on cars to be picked up,
cannot beclosed by trainmen the carmust be considered ns bad order cannot be closed by trainmen the car must be considered as bad orde and car set out. Wire report of such occurrence
superintendent, chief dispatcher and car foreman.

## Engine Supplie

$920(\mathrm{R})$. On portions of the division where there is no joint opera-
tion of trains with another company, red light in cab of engine will
not be recuired.
Movements Around Fueling Tracks, Etc,
920 (S). Before moving an engine and during movement of an engine in the vicinity of fueving an and servicining drackes, enginemens of and h
must sound whistle to warn men working about such tracks.

## Fireman Handling Locomotive

$923(R)$. Referring to Operating Rule 923 : Engineers must not per-
mit any unauthorized person to handle the locomotive. The fireman, when competent, may handle the locomotive when in road freigh heing responsible. The fireman must not be pernitted to handle the

Leaving Locomotives Unattended 923 (S). Locomotive must not be left without a man in charge,
except at designaied places and under authorized conditions. Locomotives must not be oul adjacent
tracks. When locomotive coupled to cars is left unattended, hand brakes
must be set on not less than ten cars, or on all cars in case locomotive must be set on notes
is couplcd to only ten cars or less.
When
 dependent brake sel, in full application position, gencrator field
switch pulled and hand brake set on each unit, and it must be known
s.

Spoedometers
928 (R). On locomotive equipped with speedometer, engineer must
verify accuracy of speedometer not less than twice during each trip, by using watch to make time check between mile posts.
First check will be made at hirst opportunity after departhre from
point where engineer takes charge of locomotive. Care should he exercised to make checck while speed is iscontant between mile posts.
and, whicn possible, speed should be 30 MPI or over. and, when possible, speed should be 30 MPH or over.
When check indicates speedometer is ot registring correctly, wire
report must be made to train dispatcher, master mechanic, anil report must be made to train dispatcher, master mechanic, anil
aspistant superintendent in charge of district promptly as possible,
giving miles per hour that speedometer is slow or fast. Inspecting Locomotives
928 (S). When standing at inspection points, and when stopped in
yerds ind at points between terminals where time will permit, Engiyitud and at points between termininls where time will permit, Engi-
neers must get on ground and inspect both sides of their locomotive
This applies to both passenger and freight triins, and to any type of This applies to botli passenger and freight trains, and
locomotive.
932 (R). On diesel locomolives in road service, fireman must patro
 lieat facilities and other parts, and give such attention as miay be
required. Any unusual condition or irreguliariy delccted must be re-
ported to engineer, and dirciman must be governcd by engineer's ported to engineer, and lircman must be governcd by engineer's
instructions.

 suchl other times as may be directed by enginecr, firculuiln must p:it.ro
engine rooms while train is in molion. enkinc rooms while train is in molion.
Exccplion: Fircmin must remain in control cab at all timess while
Hhe
 On diesel road-switch or switch locomotives in road service
934 (R). Passenger type diesel locomotives number 900 t.o 999 ,
inclusive, are not permitted to operate on any Branches except: Wallula Branch
Pendleton Branch-between Walla Walla and Pendleton Tekoa-Ayer Branch
Pleasiant Valley Branch
Connell
Connell Branch-between Hooper Jct. and La Crosse
Spokane-Tekoa Branch Spakane-TCka B B
Wallanee Branch
Moscow Branch
Moscow Branch
Miesel locomotives 1100 to 1153 and 1180 to 1190 are not permitted Diesel locomotives 1100 to 1153 and 1180 to 1190 are not permitted
to operate through spokane Union Station.
Diesel locomotives 100 to 244, inclusive, must not operate on folDiesel locomotives 100 to 244, inclusive, must not operate on fol-
Inwing tracks: Pendlet
The Dal
The

Location ndleton...
he Dalles....
Portland st Portrand
st Portland enton....
$\substack{\text { enton.... } \\ \text { linin. } \\ \text { lentle.... }}$
ent ARana.
Seattle.
Seattle.
Seattle. Harris Mill Log Dumi Track Cast Ship Way Spur
Cath St.
Canadid Dry Spur-4th St.
Doernbecher's Spur No. Doernhecher's Spur No
Smithwik Spur Smithwick Spur
Sunshine Biscuit Spu
Swan IIInd Swan Island Various Spurs along 5th Ave.
Various Spurs along Finat Marryinal Way
Various Spurs on 1lth Ave. S. W.

Continued on opposite side.

Joseph 13ranch
Umatilla Branch
934 (T). Cars weikhing in excess of 200,000 , pounds not permittect
between Dayyton and Turner on Dayton 13ranch, between IIooper Jet.




Exception: Pile driver 0322 weighing 222,200 pounds, may be
handled on all branch lines except between Hooper Jct. and
Connell on Connell Connell on Connell Branch.
When handling pile driv
When handling pile driver 0321, or a car weighing 200,000
pound gross over Bridge 17.23 at Riparia, there must be at least
four cars betwect such or pounds gross over Bridge 17.23 at Riparia, there must be at least
four carr betwen such
such or orar or wile driver and engine or betwent driver and any any car weighing more than 160,000 such car or pile driver and any car weighing more than 160,000
pounds gross
When When lanilling derrick 0310 therc must be at least five cars
hetween derrick and locomotive, or het ween derrick and zny car
wcighing more than 240,000 pounds hetween derrick and locomotive, or hetwe
wcighing more than 240,000 pounds gross.

935 (R).
Rules for Hostlers
(1) Hostle
operatiant relate in any way to their fown duties or to the anfery (2) Hostlers are in charge of their helpers and attendants and must
now they are familiar with and perform their duties; inst ruct them in necessary and caution them as to risks is inefficiency or insubordi-
nation must be reported to the proper officer. nation must be reported to the proper officer
(3) Hostler must not nless he knows it can be doue withoul. injury tart of its machinery (4) Hostler must not permit any unauthorized person to handle an (5) Before moving an engine from coal chute, fuel oil or water
standpipe, hostler must know that chute or spout has bcen removed from engine tank and securely fastened in proper position. (6) Whie switching or moving an engine on round house tracks,
hostler must be able to sec his helper or attendant at all times. (7) Hostler must know that track to be used is not restricted for
class of engine being handled. class of engine being handled.
(8) Fnjine must be stopped immediatcly before moving on to turn-
. (8) Fngine must be topped immediatcly bef ore moving on to turn-
table and rececive signal from helper or turutahle attendant located
at receiving end of table to move on to talle. At night, signals must at receiving end of table to move on to talle. At night, signals must
be given with white light.



Continued on Page 17.

## 935 (R). Continued.



 (12) Al terminats where hustlerss handle enils to tund from stations






 aphicerly with inde efective.

Station Bulletin Board



## Air Brake Rules




1030 (R). Where Sperry rail-detector car is working when tempera-
ture is below freezing, trains, engincy and track cars must be operated at a gaf spiped, using sand where necesssiry to overcome slippery
condition caused by use of culcium chloride solution by rail car.


Encina
TClocaset
Kamela
Fourth Subdivision
Condon Branch
Grass Valley Branch
Grass Valley Branch
Bend Branch
ekoa-Ayer Branch
endleton Branch
Wallace Branch


- westward and eastward,
- westward trains at M.P. 6 east of
Graham;

Graham;

- westward trains at Speece, Mikkalo
and Shutler;
 -eastward trains at Sundon and M.P.
35;
--westward trains at M.P.P. 100;
-castward trains at Darknell and -castward
Freemanj
-westward trains at Jerita
- eastward trains at Jeritast;
- eastward trains at Weston;
-- easward trains at Westo
- west ward trins at Alto;
-enstwemrd lrains al lizer ke.

1036 (S). At Spookanc Union Station, passenger trains will make
running air test only after leaving tle elevated structurc
1043 (IR). Before dcsccuding grade. Jcritat to Fiay, and Mica io Chestre,
after stop has heen made, brikes must be fully applied and becore
 absence of caboosese gauge, anplication and release tetest of brikcc on
avear car must be made as prescribed in Air Brake luile 1043 ( 3 ).

1044 (R). Brake pipe test, as prescribed in Air Brake Rule 104 must be made on all freight and mixed trains before descending grade
on Cundon Branch between Barrett and Rock Creek and on Crass
Calley Valley Branch between Biggs and Klondike, and this test must also
be made at intermediate points on these grades either ascending or descending, whenever engine is changed, cars sicked up or set out,
air hose parted, angle cock ect turned or when train has becn standing
for 30 minutes or more.







1045 ( R ). Retaining valves must be used on descending grades Condon Branch, all trains, M.P. 35 to Arlington, all retainin valves must be used.
Grass Valley Branch, on passenger trains Thornberry to Biggs and on freight or mixed tra, all retaining valves must be used.
and Sandon to Hay Canyon, all On Bend Branch, freight and mixed trains on descending grades
between M.P. 100 and South Jct., trains averaging not to exceed 50 gross tons per car why be handled without use of retaining valves.
On trains averagink in excecss of 50 gross tonsp ocr car one-half of the
retaining valves will be uscd consecutively from the head end of the train. frcight trains descending grades Mica to Chester and Darknell
Oo Rockford and on frcight and mixed trains Jerita to Hay, Alto to Menoken, Turner to Dayton, trains averaging not to exceed lift, ross tons per car, may be handed without the use of retar one
valves. On trains averaging to exceed fitty gross tons per car, one-
half of all retaining valves must be used. Retaining valves must be On all trains Crest to Colf ax . Relief toStarbuck, Weston to Barrett, all retaining vilucs must be used . On freight traing, trainmen must patrol top of train where retain
ing valves are used.

1045 (S). When retaining valves are used friight and mixed traing valves, 4 minutes moving second mile and 3 minutes moving each
mile thereafter, excent where slower speed is otherwise prescribed. 1045 (T). On the following branches, gross weight of train, ex ctive brake: Tekoa-Ayer Branch-between Crest and Colfax;
Pendeton 1ranch -between Weston and Barrett;
Tucannon Branch -between leelief and Starbuck.
1045 (U). Retaining valves must be used on trains handled with uipped with brake valve modified for prossure maintaining whe All retaining valves must be used on passenger, mail and expres rains descending grade between Hitgard and Huron.
Freight traing descending grades belween Encina and Durkee and
 aining valves in train. If engineer finds it diflicicult to control train o tainirg valves necessary to insure safe control of train, stoppin Between Telociset and Union Jet., and between Huron and Dun-
can, train averaing nut to exceed fifty gross tons per car may be
chat handled without the use of retaining valves when handled by engines vipped with two air compressors which are operative. On train ngines having one air compressor, one-half' of all retaining valve must be used.

Continued on page 18.



19

Rating of diesel locomotives in freight service in tons of 2000 pounds
Total weight of train exclusive of locomotive，which the different classes of locomotives will haul in each direction between stations named，under


Rating shown is for single unit．If more than one unit，rating of combined units will govern．

RATING OF DIESEL LOCOMOTIVES IN FREIGHT SERVICE IN TONS OF 2000 POUNDS
Total weight of train exclusive of locomotive，which the different classes of locomotives will haul in each direction between stations named，under favorable weather conditions．A deduction of ten per cent may be made for time freight trains．

|  |  | FOURTH SUBDIVISION |  |  |  |  |  | FIFTH SUBDIVISION |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ${ }_{\text {LOCOMOTIVE }}^{\text {TYPE }}$ | $\underset{\text {（Inclusive）}}{\text { NUMBERS }}$ |  |  |  |  |  |  | $\begin{aligned} & \stackrel{8}{2} \\ & \text { 気第 } \end{aligned}$ |  |  |  |  |  |
| EMD－GP7 | 100 to 129 | 3500 | 4550 | 3140 | 1730 | 4150 | 3930 | 432 | 1990 | 4320 | 4000 | 1560 | 5240 |
| EMD－GP9 | 130 to 244 | 4000 | 5260 | 3200 | 1900 | 4300 | 4000 | 6000 | 2200 | 4500 | 4750 | 1900 | 6000 |
| EMD | 1000 to 1095 | 3000 | 4000 | 3000 | 1250 | 3000 | 3000 | 3500 | 1800 | 3500 | 3500 | 1650 | 3500 |
| ALCO | 1100 to 1153 | 2700 | 4400 | 3500 | 1350 | 3500 | 3500 | 4400 | 2250 | 4400 | 4400 | 2150 | 4400 |
| ALCO | 1180 to 1189 | 2800 | 4840 | 2840 | 1570 | 3760 | 3560 | 3910 | 1500 | 3910 | 3620 | 1410 | 5500 |
| FM | 1300 to 1304 | 3000 | 4000 | 3000 | 1250 | 3000 | 3000 | 4200 | 2100 | 4250 | 4200 | 2000 | 4250 |
| FM | 1325 to 1329 | 2990 | 5190 | 3040 | 1680 | 4020 | 3800 | 4180 | 1920 | 4180 | 3870 | 1510 | 5900 |
| FM | 1340 to 1342 | 3410 | 5300 | 3460 | 1920 | 4580 | 4330 | 4750 | 2190 | 4750 | 4410 | 1730 | 6710 |
| FM | 1360 to 1370 | 2950 | 5070 | 2900 | 1660 | 3940 | 3740 | 4100 | 1900 | 4100 | 3800 | 1490 | 5740 |
| EMD－F7 | 1400 to 1496 | 3500 | 4550 | 3140 | 1730 | 4150 | 3930 | 4320 | 1990 | 4320 | 4000 | 1560 | 5240 |
| EMD－F3 | 1500 to 1563 | 1000 | 5260 | 3200 | 1900 | 4300 | 4000 | 4500 | 2100 | 4500 | 4400 | 1800 | 5500 |
| EMD | 1800 to 1824 | 3200 | 4300 | 3200 | 1350 | 3200 | 3200 | 3700 | 1900 | 3700 | 3700 | 1750 | 3700 |
| EMD－C\＆C | 1870 to 1877 | 5330 | 8180 | 5410 | 2970 | 7170 | 6780 | 7450 | 3410 | 7450 | 6910 | 2670 | 9290 |


|  |  | SIXTH SUBDIVISION |  |  |  |  |  |  |  |  |  |  | SPOKANE－TEKOA BRANCH |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  | $\frac{8}{90}$ |  |  | $\begin{aligned} & \text { 気節 } \\ & \text { Bg } \end{aligned}$ |  |  | eem |
| EMD－GP7 | 100 to 129 | 2300 | 5970 | 3670 | 5970 | 4320 | 2600 | 4780 | 3090 | 4320 | 2300 | Car limit | 1750 | 1130 | 1650 | 2200 | 1435 | 4000 |
| EMD－CiP9 | 130 to 244 | 2670 | 6900 | 4250 | 6900 | 4250 | 2670 | 4700 | 305 | 4250 | 2670 | Car limit | 1720 | 1100 | 1600 | 2100 | 1400 | 4000 |
| EmD | 1000 to 1095 | 1900 | 3500 | 3200 | 3500 | 3300 | 1900 | 2900 | 1900 | 3500 | 1900 | Car limit | 1175 | 750 | 1042 | 2000 | 964 | 3500 |
| ALCO | 1100 to 1153 | 2550 | 5600 | 3750 | 5600 | 3750 | 2250 | 4000 | 2700 | 4600 | 2730 | Car limit | 1875 | 1220 | 1750 | 2350 | 1565 | 4000 |
| ALCO | 1180 to 1189 | 2450 | 6350 | 3910 | 6350 | 3910 | 2450 | 4330 | 2800 | 3910 | 2450 | Car limit | 1875 | 1220 | 1750 | 2350 | 1565 | 4000 |
| FM | 1300 to 1304 | 1900 | 3500 | 3200 | 3500 | 3300 | 1900 | 2900 | 1900 | 3500 | 1900 | Car limit | 1175 | 750 | 1050 | 2000 | 950 | 3500 |
| FM | 1325 to 1329 | 2620 | 6820 | 4180 | 6820 | 4180 | 2620 | 4630 | 2990 | 4180 | 2620 | Car limit | 1750 | 1190 | 1580 | 2250 | 1390 | 4000 |
| FM | 1340 to 1342 | 2980 | 7760 | 4750 | 7760 | 4750 | 2980 | 5270 | 3410 | 4750 | 2980 | Car limit | 2000 | 1360 | 1810 | 2550 | 1560 | 4000 |
| F31 | 1360 to 1370 | 2580 | 6620 | 4100 | 6620 | 4100 | 2580 | 4530 | 2950 | 4100 | 2580 | Car limit | 1700 | 1180 | 1570 | 2170 | 1350 | 4000 |
| EMD－F7 | 1400 to 1496 | 2300 | 5970 | 3670 | 5970 | 4320 | 2600 | 4780 | 3090 | 4320 | 2300 | Car limit | 1750 | 1130 | 1650 | 2200 | 1435 | 4000 |
| EMD－F3 | 1500 to 1563 | 2470 | 6450 | 3950 | 6450 | 4400 | 2690 | 4960 | 3200 | 4470 | 2470 | Car limit | 1875 | 1220 | 1750 | 2350 | 1565 | 4000 |
| EMD | 1800 to 1824 | 2150 | 3700 | 3400 | 3700 | 3500 | 2100 | 3100 | 2200 | 3700 | 2100 | Car limit | 1275 | 825 | 1140 | 2150 | 1050 | 3.00 |
| EMD－C\＆C | 1870 to 1877 | 4120 | 10730 | 6590 | 10730 | 7450 | 4290 | 8260 | 5330 | 7450 | 4120 | Car limit |  |  |  |  |  |  |

Rating shown is for single unit．If more than one unit，rating of combined units will govern．
rating of diesel locomotives in freight service in tons of 2000 pounds
Total weight of train exclusive of locomotive, which the diferent classes of locomotives will haul in each direction between stations named, under favorable weather conditions. A deduction of ten per cent may be made for time freight trains.


Rating shown is for single unit. If more than one unit, rating of combined units will govern.

RATING OF DIESEL LOCOMOTIVES IN FREIGET SERVICE IN TONS OF 2000 POYNDS
Total weight of train exclusive of locomotive, which the different classes of locomotives will haul in each direction between stations named, under favorable weather conditions. A deduction of ten per cent may be made for time freight trains.

| TYPE OF <br> LOCOMOTIVE | NUMBERS <br> (Inclusive) | SIXTH SUBDIVISION |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | DAYTON BRANCH |  |  |  | POMEROY BRANCH |  |  |  | MOSCOW BRANCH |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| EMD-GP7 | 100 to 129 | 1600 | 800 | 1500 | 2000 | 1500 | 2500 | 1000 | 400 |  |  |  |  |  |  |  |
| EMD-GP9 | 130 to 244 | 1650 | 850 | 1550 | 2100 | 1550 | 2550 | 1100 | 400 |  |  |  |  |  |  |  |
| EMD | 1000 to 1095 | 1600 | 875 | 875 | 3000 | 1200 | 3500 | 3500 | 300 | 1200 | 3500 |  |  |  |  |  |
| ALCO | 1100 to 1153 | 1600 | 875 | 875 | 3000 | 1500 | 3500 | 3500 | 625 | 1700 | 3500 |  |  |  |  |  |
| ALCO | 1180 to 1189 | 1675 | 1150 | 1150 | 3000 | 1500 | 3500 | 3500 | 675 | 1750 | 3500 |  |  |  |  |  |
| FM | 1300 to 1304 | 1600 | 875 | 875 | 3000 | 1350 | 3500 | 3500 | 490 | 1700 | 3500 |  |  |  |  |  |
| FM | 1325 to 1329 | 2000 | 1150 | 1150 | 33.50 | 1400 | 3500 | 3500 | 600 | 2200 | 3500 |  |  |  |  |  |
| FM | 1340 to 1342 | 2200 | 1350 | 1350 | 3500 | 1600 | 3500 | 3500 | 750 | 2400 | 3500 |  |  |  |  |  |
| FYS | 1360 to 1370 | 2000 | 1150 | 1150 | 3350 | 1400 | 3500 | 3500 | 600 | 2200 | 3500 |  |  |  |  |  |
| EMD-F7 | 1400 to 1496 | 1675 | 1000 | 1000 | 3000 | 1400 | 3500 | 3500 | 600 | 2400 | 3500 |  |  |  |  |  |
| EMD-F3 | 1500 to 1563 | 1750 | 1150 | 1150 | 3000 | 1500 | 3500 | 3500 | 625 | 1700 | 3500 |  |  |  |  |  |
| EMD | 1800 to 1824 | 1750 | 95) | 950 | 3200 | 1300 | 3700 | 3700 | 350 | 1300 | 3700 |  |  |  |  |  |
|  |  | Y. ALIMabranch |  |  |  |  | WALLULA BRANCH |  | PENDLETON BRANCH |  |  |  |  |  |  |  |
| TYPE OF LOCOMOTIVE | NUMBERS (Inclusive) |  |  |  |  |  |  | $\begin{aligned} & \text { 等 } \end{aligned}$ |  |  |  | $\begin{aligned} & 8 \\ & \frac{3}{\overline{6}}=8 \end{aligned}$ |  |  |  |  |
| EMD-GP7 | 100 to 129 | 4000 | 3500 | 3500 | 3500 | 4000 | 1700 | 3000 | 1500 | 1350 | 1200 | 950 | 1500 | 750 | 3700 |  |
| EMD-GP9 | 130 to 244 | 4000 | 3500 | 3500 | 3500 | 4000 | 1700 | 3000 | 1500 | 1350 | 1200 | 950 | 1500 | 750 | 3500 |  |
| EMD | 1000 to 1095 | 3300 | 3300 | 3300 | 3300 | 3300 | 1450 | 2850 | 1400 | 1150 | 1050 | 750 | 1400 | 775 | 3500 |  |
| ALCO | 1100 to 1153 | 4000 | 3500 | 3500 | 3500 | 4000 | 1450 | 2750 | 1750 | 1600 | 1400 | 1000 | 1700 | 925 | 3500 |  |
| ALCO | 1180 to 1189 | 4000 | 3500 | 3500 | 3500 | 4000 | 1600 | 2750 | 1750 | 1600 | 1400 | 1000 | 1700 | 925 | 3500 |  |
| FM | 1300 to 1304 | 3500 | 3000 | 3000 | 3000 | 3500 | 1450 | 2800 | 1600 | 1425 | 1250 | 975 | 1550 | 800 | 3500 |  |
| FM | 1325 to 1329 | 4000 | 3500 | 3500 | 3500 | 4000 | 1400 | 3000 | 1700 | 1550 | 1350 | 950 | 1850 | 875 | 3500 |  |
| FM | 1340 to 1342 | 4200 | 3700 | 3700 | 3700 | 4200 | 1400 | 3000 | 1900 | 1750 | 1.550 | 1150 | 1850 | 1000 | 3500 |  |
| FM | 1360 to 1370 | 4000 | 3500 | 3500 | 3500 | 4000 | 1600 | 3000 | 1700 | 1550 | 1350 | 950 | 1650 | 875 | 3500 |  |
| EMD-F7 | 1400 to 1496 | 4000 | 3500 | 3500 | 3500 | 4000 | 1450 | 3000 | 1800 | 1650 | 1450 | 1050 | 1750 | 975 | 3500 |  |
| EMD-F3 | 1500 to 1583 | 4000 | 3500 | 3500 | 3500 | 4000 | 1600 | 3000 | 1750 | 1600 | 1400 | 1000 | 1700 | 925 | 3500 |  |
| EMD | 1800 to 1824 | 3200 | 3200 | 3200 | 3200 | 3200 | 1550 | 3000 | 1400 | 1250 | 1125 | 800 | 1350 | 850 | 3750 |  |

[^0]
[^0]:    Rating shown is for single unit. If more than one unit, rating of combined units will govern.

