

Code of Federal Regulations Title 49
Part 228 — Hours of Service of Railroad Employees
(including changes from Final Rule scheduled to be published on May 27, 2009)

Subpart A	General
§ 228.1	Scope.
§ 228.3	Application.
§ 228.5	Definitions.
Subpart B	Records and Reporting
§ 228.7	Hours of duty.
§ 228.9	Records; general.
§ 228.11	Hours of duty records.
§ 228.17	Dispatcher's record of train movements.
§ 228.19	Monthly reports of excess service.
§ 228.21	Civil penalty.
§ 228.23	Criminal penalty.
Subpart C	Construction of Employee Sleeping Quarters
§ 228.101	Distance requirement; definitions.
§ 228.103	Approval procedure: construction within one-half mile (2,640 feet) (804 meters).
§ 228.107	Action on petition.
Subpart D	Electronic Recordkeeping
228.201	Electronic recordkeeping; general.
228.203	Program components.
228.205	Access to electronic records.
228.207	Training.
Appendix A to Part 228	Requirements of the Hours of Service Act: Statement of Agency Policy and Interpretation
Appendix B to Part 228	Schedule of Civil Penalties
Appendix C to Part 228	Appendix C to Part 228 — Guidelines for Clean, Safe, and Sanitary Railroad Provided Camp Cars

Authority: 49 U.S.C. 20103, 20107, 21101-21109; Sec. 108, Div. A, Pub. L. 110-432, 122 Stat. 4860-4866; 49 U.S.C. 21301, 21303, 21304, 21311; 28 U.S.C. 2461, note and 49 CFR 1.49; and 49 U.S.C. 103.

Subpart A — General

§228.1 Scope.

This part —

- (a) Prescribes reporting and record keeping requirements with respect to the hours of service of certain railroad employees and certain employees of railroad contractors and subcontractors; and
- (b) Establishes standards and procedures concerning the construction or reconstruction of employee sleeping quarters.

§228.3 Application.

(a) Except as provided in paragraph (b), this part applies to all railroads and contractors and subcontractors of railroads.

(b) This part does not apply to:

(1) A railroad or a contractor or subcontractor of a railroad that operates only on track inside an installation which is not part of the general railroad system of transportation; or

(2) Rapid transit operations in an urban area that are not connected with the general railroad system of transportation.

§228.5 Definitions.

As used in this part —

Actual time means either the specific time of day, to the hour and minute, or the precise amount of time spent in an activity, in hours and minutes, that must be included in the hours of duty record, including, where appropriate, reference to the applicable time zone and either standard time or daylight savings time.

Administrator means the Administrator of the Federal Railroad Administration or any person to whom the Administrator has delegated authority in the matter concerned.

Administrative duties means any activities required by the railroad as a condition of employment, related to reporting, recording, or providing an oral or written statement related to a current, previous, or future duty tour. Such activities are considered service for the railroad, and time spent in these activities must be included in the *total time on duty* for any *duty tour* with which it may commingle.

At the behest of the employee refers to time spent by an employee in a railroad-related activity that is not required by the railroad as a condition of employment, in which the employee voluntarily participates.

At the behest of the railroad refers to time spent by an employee in a railroad-required activity that compels an employee to perform service for the railroad as a condition of employment.

Broken (aggregate) service means one or more periods of time on duty within a single *duty tour* separated by one or more qualifying interim releases.

Call and release occurs when an employing railroad issues an employee a *report-for-duty time*, and then releases the employee from the requirement to report prior to the *report-for-duty time*.

Carrier, common carrier, and common carrier engaged in interstate or foreign commerce by railroad mean *railroad*.

Commingled service means —

(1) For a train employee or a signal employee, any non-covered service at the behest of the railroad and performed for the railroad that is not separated from *covered service* by a qualifying statutory off-duty period of 8 or 10 hours or more. Such commingled service is counted as time on duty pursuant to 49 U.S.C. 21103(b)(3) (for train employees) or 49 U.S.C. 21104 (b)(2) (for signal employees).

(2) For a dispatching service employee, any non-covered service mandated by the railroad and performed for the railroad within any 24-hour period containing *covered service*. Such commingled service is counted as time on duty pursuant to 49 U.S.C. 21105 (c).

Commuting means —

(1) For a train employee, the time spent in travel

(i) Between the employee's residence and the employee's *regular reporting point*, and

(ii) In railroad-provided or authorized transportation to and from the lodging facility at the away-from-home terminal (excluding travel for purposes of an interim release), where such time (including travel delays and room availability) does not exceed 30 minutes; or

(2) For a signal employee, the time spent in travel between the employee's residence and the employee's *headquarters*.

(3) For a dispatching service employee, the time spent in travel between the employee's residence and any reporting point.

Consecutive service is a period of unbroken *total time on duty* during a *duty tour*.

Covered service means —

(1) For a train employee, the portion of the employee's time on duty during which the employee is engaged in, or connected with, the movement of a train.

(2) For a dispatching service employee, the portion of the employee's time on duty during which the employee, by the use of an electrical or mechanical device, dispatches, reports, transmits, receives, or delivers an order related to or affecting the movement of a train.

(3) For a signal employee, the portion of the employee's time on duty during which the employee is engaged in installing, repairing, or maintaining a signal system.

Covered service assignment means —

(1) For a train employee, each unique assignment of the employee during a period of *covered service* that is associated with either a specific train or a specific yard job.

(2) For a signal employee, the assigned duty hours of the employee, including overtime, or unique trouble call assignments occurring outside the employee's assigned duty hours.

(3) For a dispatching service employee, each unique assignment for the employee that occurs within any 24-hour period in which the employee, by the use of an electrical or mechanical device, dispatches, reports, transmits, receives, or delivers orders related to or affecting a train movement.

Deadheading means the physical relocation of a train employee from one point to another as a result of a railroad-issued verbal or written directive.

Designated terminal means the home or away-from-home terminal for the assignment of a particular train crew.

Dispatching service employee means an operator, train dispatcher, or other train employee who by the use of an electrical or mechanical device dispatches, reports, transmits, receives, or delivers orders related to or affecting train movements.

Duty location for a signal employee is the employee's *headquarters* or the precise location where the employee is expected to begin performing service for the railroad as defined in 49 U.S.C. 21104(b)(1) and (2).

Duty tour means —

(1) The total of all periods of *covered service* and *commingled service* for a train employee or a signal employee occurring between two *statutory off-duty periods* (i.e., off-duty periods of a minimum of 8 or 10 hours); or

(2) The total of all periods of *covered service* and *commingled service* for a dispatching service employee occurring in any 24-hour period.

Employee means an individual employed by a railroad or a contractor or subcontractor to a railroad who —

(1) Is actually engaged in or connected with the movement of any train, including a person who performs the duties of a hostler;

(2) Dispatches, reports, transmits, receives, or delivers an order pertaining to a train movement by the use of telegraph, telephone, radio, or any other electrical or mechanical device; or

(3) Is engaged in installing, repairing, or maintaining a signal system.

Final release is the time that a train employee or a signal employee is released from all activities at the behest of the railroad and begins his or her *statutory off-duty period*.

Headquarters means the regular assigned on-duty location for signal employees, or the lodging facility or crew quarters where traveling signal gangs reside when working at various system locations.

Interim release means an off-duty period applied to train employees only, of at least 4 hours but less than the required *statutory off-duty period* at a *designated terminal*, which off-duty period temporarily suspends the accumulation of time on duty, but does not start a new *duty tour*.

Limbo time means the periods of time treated as neither time on duty nor time off duty in 49 U.S.C. 21103 and 21104, and any other period of service for the railroad that does not qualify as either *covered service* or *commingled service*.

On-duty time means the actual time that an employee reports to begin a *covered service assignment*.

Other-than-regular reporting point means any location where a train employee reports to begin or restart a *duty tour*, that is not the employee's *regular reporting point*.

Prior time off means the *amount of time* that an employee has been off duty between identifiable periods of service *at the behest of the railroad*.

Program edits are filters contained in the logic of an hours of service recordkeeping program that detect identifiable reporting errors made by a reporting employee at the time of data entry, and prevent the employee from submitting a record without first correcting or explaining any identified errors or anomalies.

Quick tie-up is a data entry process used only when an employee is within 3 minutes of, or is beyond, his or her statutory maximum on-duty period, which process allows an employee to enter only the basic information necessary for the railroad to identify the beginning of an employee's *statutory off-duty period*, to avoid the excess service that would otherwise be incurred in completing the full record for the *duty tour*. The information permitted in a quick tie-up process is limited to, at a maximum:

- (1) Board placement time;
- (2) Relieved location, date, and time;
- (3) Final release location, date, and time;
- (4) Contact information for the employee during the statutory off-duty period;
- (5) Request for rest in addition to the statutory minimum, if provided by collective bargaining agreement or local practice;
- (6) The employee may be provided an option to enter basic payroll information, related only to the duty tour being tied up; and
- (7) Employee certification of the tie-up information provided.

Railroad means a person providing *railroad transportation*.

Railroad transportation means any form of non-highway ground transportation that run on rails or electromagnetic guideways, including commuter or other short-haul rail passenger service in a metropolitan or suburban area, and high speed ground transportation systems that connect metropolitan areas, without regard to whether they use new technologies not associated with

traditional railroads. Such term does not include rapid transit operations within an urban area that are not connected to the general railroad system of transportation.

Regular reporting point means the permanent on-duty location of a train employee's regular assignment that is established through a job bulletin assignment (either a job award or a forced assignment) or through an employee's exercise of seniority to be placed in an assignment. The assigned regular reporting point is a single fixed location identified by the railroad, even for extra board and pool crew employees.

Release means —

(1) For a train employee,

(i) The time within the *duty tour* that the employee begins an *interim release*, or

(ii) The time that an employee is released from a *covered service assignment* to begin another *covered service assignment* on a different train or job, or

(iii) The time that an employee is released from a *covered service assignment* to begin another activity that counts as time on duty (including waiting for deadhead transportation to another duty location at which the employee will perform *covered service*, dead-heading to duty, or any other *commingled service*).

(2) For a signal employee, the time within a *duty tour* that the employee —

(i) Completes his or her regular assigned hours and begins an off-duty period of at least one hour but less than a *statutory off-duty period*; or

(ii) Completes his or her return travel from a trouble call and begins an off-duty period of at least one hour, but less than a *statutory off-duty period*.

(3) For a dispatching service employee, when he or she stops performing *covered service* and *commingled service* within any 24-hour period and begins an *off-duty period* of at least one hour.

Relieved time means —

(1) The actual time that a train employee stops performing a *covered service assignment* or *commingled service*.

(2) The actual time that a signal employee:

(i) Completes his or her assigned duty hours, or stops performing *covered service* or *commingled service*, whichever is later; or

(ii) Stops performing *covered service* associated with a trouble call outside of normally assigned duty hours.

Reports for duty means that an employee —

(i) Presents himself or herself at the location established by the railroad at the time the railroad established for the employee to be present, and

(ii) Is ready to perform *covered service*.

Report-for-duty time means —

(1) For a train employee, the actual time that the employee is required to be present at a *reporting point* and prepared to start a *covered service assignment*.

(2) For a signal employee, the assigned starting time of an employee's scheduled shift, or the time that he or she receives a trouble call or a call for any other unscheduled duty during an off-duty period.

(3) For a dispatching service employee, when the employee begins the turn-over process at or before the beginning of his or her assigned shift, or begins any other activity at the behest of the railroad during any 24-hour period in which covered service is performed.

Reporting point means any railroad location where an employee is required to begin or restart a *duty tour*.

Seniority move means a repositioning *at the behest of the employee*, usually a repositioning from a regular assignment or extra board to a different regularly assigned position or extra board, as the result of the employee's selection of a bulletin assignment or the employee's exercise of seniority over a junior employee.

Signal employee means an individual who is engaged in installing, repairing, or maintaining signal systems.

Station, office or tower means the precise location where a dispatching service employee is expected to perform service for the railroad as defined in 49 U.S.C. 21105(b) and (c).

Statutory off-duty period means the period of 8 or 10 consecutive hours or more time, that is the minimum required under the hours of service laws for a train employee or a signal employee to begin a new 24-hour period for the purposes of calculating his or her *total time on duty*.

Total off-duty period means the actual amount of time that a train employee or a signal employee is off duty between *duty tours* after the previous final release and before the beginning of the next duty tour. This time may differ from the expected *prior time off* that will be generated by the recordkeeping system, if the employee performed service *at the behest of the railroad* between the *duty tours*.

Total time on duty (TTOD) means the total accumulation of time spent in periods of *covered service* and *commingled service* between qualifying *statutory off-duty periods* of 8 or 10 hours or more. Mandatory activities that do not constitute *covered service*, such as rules classes, when they may not attach to *covered service*, are counted as *limbo time*, rather than *commingled service*, which limbo time is not counted toward the calculation of *total time on duty*.

Train employee means an individual engaged in or connected with the movement of a train, including a hostler.

Travel time means —

(1) For a signal employee, the time spent in transportation between the employee's *headquarters* and an outlying duty point or between the employee's residence and an outlying duty point, or, between duty locations, including both on-track and on-highway vehicular travel.

(2) For a dispatching service employee, the time spent in travel between *stations, offices, or towers* during the employee's time on duty.

Subpart B — Records and Reporting

§228.7 Hours of duty.

(a) For purposes of this part, time on duty of an employee actually engaged in or connected with the movement of any train, including a hostler, begins when he reports for duty and ends when he is finally released from duty, and includes —

- (1) Time engaged in or connected with the movement of any train;
- (2) Any interim period available for rest at a location that is not a designated terminal;
- (3) Any interim period of less than 4 hours available for rest at a designated terminal;
- (4) Time spent in deadhead transportation en route to a duty assignment; and
- (5) Time engaged in any other service for the carrier.

Time spent in deadhead transportation by an employee returning from duty to his point of final release may not be counted in computing time off duty or time on duty.

(b) For purposes of this part, time on duty of an employee who dispatches, reports, transmits, receives, or delivers orders pertaining to train movements by use of telegraph, telephone, radio, or any other electrical or mechanical device includes all time on duty in other service performed for the common carrier during the 24-hour period involved.

(c) For purposes of this part, time on duty of an employee who is engaged in installing, repairing or maintaining signal systems includes all time on duty in other service performed for a common carrier during the 24-hour period involved.

§228.9 Records; general.

(a) Each manual record maintained under this part shall be —

(1) Signed by the employee whose time on duty is being recorded or, in the case of a train and engine crew or a signal employee gang, signed by the ranking crewmember;

(2) Retained for two years at locations identified by the carrier; and

(3) Available upon request at the identified location for inspection and copying by the Administrator during regular business hours.

(b) Each electronic record maintained under this part shall be —

(1) Certified by the employee whose time on duty is being recorded or, in the case of a train and engine crew or a signal employee gang, certified by the reporting employee who is a member of the train crew or signal gang whose time is being recorded;

(2) Electronically stamped with the certifying employee's name and the date and time of certification;

(3) Retained for 2 years in a secured file that prevents alteration after certification;

(4) Accessible by the Administrator through a computer terminal of the railroad, using a railroad-provided identification code and a unique password.

(5) Reproducible using the printing capability at the location where records are accessed.

§228.11 Hours of duty records.

(a) *In general.* Each railroad, or a contractor or a subcontractor of a railroad, shall keep a record, either manually or electronically, concerning the hours of duty of each employee. Each contractor or subcontractor of a railroad shall also record the name of the railroad for whom its employee performed covered service during the duty tour covered by the record. Employees who perform covered service assignments in a single duty tour that are subject to the recordkeeping requirements of more than one paragraph of this section, must complete the record applicable to the covered service position for which they were called, and record other covered service as an activity constituting other service at the behest of the railroad.

(b) *For train employees.* Except as provided by paragraph (c) of this section, each hours of duty record for a train employee shall include the following information about the employee:

(1) Identification of the employee (initials and last name; or if last name is not the employee's surname, provide the initials and surname).

(2) Each covered service position in a duty tour.

(3) Amount of time off duty before beginning a new covered service assignment or resuming a duty tour.

(4) Train ID for each assignment required to be reported by this part, except for the following employees, who may instead report the unique job or train ID identifying their assignment:

(i) utility employees assigned to perform covered service, who are identified as such by a unique job or train ID;

(ii) employees assigned to yard jobs, except that employees assigned to perform yard jobs on all or parts of consecutive shifts must at least report the yard assignment for each shift;

(iii) assignments, either regular or extra, that are specifically established to shuttle trains into and out of a terminal during a single duty tour that are identified by a unique job or train symbol as such an assignment.

(5) Location, date, and beginning time of the first assignment and the last assignment in a duty tour, and, if the duty tour exceeds 12 hours and includes a qualifying period of interim release as provided by 49 U.S.C. 21103(b), the location, date, and beginning time of the assignments immediately preceding and immediately following the interim release. This information will not be required for —

(i) utility employees assigned to perform covered service;

(ii) employees assigned to yard jobs, except that employees assigned to perform yard jobs on all or parts of consecutive shifts must at least report the yard assignment for each shift;

(iii) assignments, either regular or extra, that are specifically established to shuttle trains into and out of a terminal during a single duty tour that are identified by a unique job or train symbol as such an assignment.

(5) Location, date, and beginning time of the first assignment in a duty tour, and, if the duty tour exceeds 12 hours and includes a qualifying period of interim release as provided by 49 U.S.C. 21103(b), the location, date, and beginning time of the assignment immediately following the interim release.

(6) Location, date, and time relieved for the last assignment in a duty tour, and, if the duty tour exceeds 12 hours and includes a qualifying period of interim release as provided by 49 U.S.C. 21103(b), the location, date, and time relieved for the assignment immediately preceding the interim release.

(7) Location, date, and time released from the last assignment in a duty tour, and, if the duty tour exceeds 12 hours and includes a qualifying period of interim release as provided by 49 U.S.C. 21103(b), the location, date, and time released from the assignment immediately preceding the interim release.

(8) Beginning and ending location, date, and time for periods spent in transportation, other than personal commuting, if any, to the first assignment in a duty tour, from an assignment to the location of a period of interim release, from a period of interim release to the next assignment, or from the last assignment in a duty tour to the point of final release, including the mode of transportation (train, track car, railroad-provided motor vehicle, personal automobile, etc.).

(9) Beginning and ending location, date, and time of any other service performed at the behest of the railroad.

(10) Identification (code) of service type for any other service performed at the behest of the railroad.

(11) Total time on duty for the duty tour.

(12) Reason for any service that exceeds 12 hours total time on duty for the duty tour.

(13) The total amount of time by which the sum of total time on duty and time spent awaiting or in deadhead transportation to the point of final release exceeds 12 hours.

(14) The cumulative total for the calendar month of —

(i) Time spent in covered service;

(ii) Time spent awaiting or in deadhead transportation from a duty assignment to the place of final release; and

(iii) Time spent in any other service at the best of the railroad.

(15) The cumulative total for the calendar month of time spent awaiting or in deadhead transportation from a duty assignment to the place of final release following a period of 12 consecutive hours on duty.

(16) Number of consecutive days in which a period of time on duty was initiated.

(c) *Exceptions to requirements for train employees.* Paragraphs (b)(13) through (b)(16) of this section do not apply to the hours of duty records of train employees providing commuter rail passenger transportation or intercity rail passenger transportation.

(d) *For dispatching service employees.* Each hours of duty record for a dispatching service employee shall include the following information about the employee:

(1) Identification of the employee (initials and last name; or if last name is not the employee's surname, provide the initials and surname).

(2) Each covered service position in a duty tour.

(3) Actual time off duty before going on duty or returning to duty in a duty tour.

(4) Location, date, and beginning time of each assignment in a duty tour.

(5) Location, date, and time released from each assignment in a duty tour.

(6) Beginning and ending location, date, and time of any other service performed at the behest of the railroad.

(7) Total time on duty for the duty tour.

(e) *For signal employees.* Each hours of duty record for a signal employee shall include the following information about the employee:

(1) Identification of the employee (initials and last name; or if last name is not the employee's surname, provide the initials and surname).

(2) Each covered service position in a duty tour.

(3) Headquarters location for the employee.

(4) Actual time off duty before going on duty or resuming a duty tour.

(5) Location, date, and beginning time of each covered service assignment in a duty tour.

(6) Location, date, and time relieved for each covered service assignment in a duty tour.

(7) Location, date, and time released from each covered service assignment in a duty tour.

(8) Beginning and ending location, date, and time for periods spent in transportation, other than personal commuting, to or from a duty assignment, and mode of transportation (train, track car, railroad-provided motor vehicle, personal automobile, etc.).

(9) Beginning and ending location, date, and time of any other service performed at the behest of the railroad.

(10) Total time on duty for the duty tour.

(11) Reason for any service that exceeds 12 hours total time on duty for the duty tour.

§228.13 Preemptive effect.

Under 49 U.S.C. 20106, issuance of the regulations in this part preempts any State law, regulation, or order covering the same subject matter, except for a provision necessary to eliminate or reduce an essentially local safety hazard if that provision is not incompatible with a law, regulation, or order of the United States government and does not unreasonably burden interstate commerce. Nothing in this paragraph shall be construed to preempt an action under State law seeking damages for personal injury, death, or property damage alleging that a party has failed to

comply with the Federal standard of care established by this part, has failed to comply with its own plan, rule, or standard that it created pursuant to this part, or has failed to comply with a State law, regulation, or order that is not incompatible with the first sentence of this paragraph.

§228.17 Dispatcher's record of train movements.

(a) Each carrier shall keep, for each dispatching district, a record of train movements made under the direction and control of a dispatcher who uses telegraph, telephone, radio, or any other electrical or mechanical device to dispatch, report, transmit, receive, or deliver orders pertaining to train movements. The following information shall be included in the record:

- (1) Identification of timetable in effect.
- (2) Location and date.
- (3) Identification of dispatchers and their times on duty.
- (4) Weather conditions at 6-hour intervals.
- (5) Identification of enginemen and conductors and their times on duty.
- (6) Identification of trains and engines.
- (7) Station names and office designations.
- (8) Distances between stations.
- (9) Direction of movement and the time each train passes all reporting stations.
- (10) Arrival and departure times of trains at all reporting stations.
- (11) Unusual events affecting movement of trains and identification of trains affected.

(b) [Reserved]

§228.19 Monthly reports of excess service.

(a) *In general.* Except as provided in paragraph (h) of this section, each railroad, or a contractor or a subcontractor of a railroad, shall report to the Associate Administrator for Railroad Safety/Chief Safety Officer, Federal Railroad Administration, Washington, DC 20590, each instance of excess service listed in paragraphs (b) through (e) of this section, in the manner provided by paragraph (f) of this section, within 30 days after the calendar month in which the instance occurs:

(b) *For train employees.* Except as provided in paragraph (c), the following instances of excess service by train employees must be reported to FRA as required by this section:

(1) A train employee is on duty for more than 12 consecutive hours.

(2) A train employee continues on duty without at least 10 consecutive hours off duty during the preceding 24 hours. Instances involving duty tours that are broken by less than 10 consecutive hours off duty which duty tours constitute more than a total of 12 hours time on duty must be reported.¹

(3) A train employee returns to duty without at least 10 consecutive hours off duty during the preceding 24 hours. Instances involving duty tours that are broken by less than 10 consecutive hours off duty which duty tours constitute more than a total of 12 hours time on duty must be reported.¹

¹ Instances involving duty tours that are broken by four or more consecutive hours of off duty time at a designated terminal which duty tours do not constitute more than a total of 12 hours time on duty are not required to be reported, provided such duty tours are immediately preceded by 10 or more consecutive hours off-duty time.

(4) A train employee returns to duty without additional time off duty, equal to the total amount of time by which the employee's sum of total time on duty and time spent awaiting or in deadhead transportation to the point of final release exceeds 12 hours.

(5) A train employee exceeds a cumulative total of 276 hours in the following activities in a calendar month:

(i) Time spent in covered service;

(ii) Time spent awaiting or in deadhead transportation from a duty assignment to the place of final release; and

(iii) Time spent in any other service at the behest of the railroad.

(6) A train employee initiates an on-duty period on more than 6 consecutive days, when the on-duty period on the sixth consecutive day ended at the employee's home terminal, and the seventh consecutive day is not allowed pursuant to a collective bargaining agreement or pilot project.

(7) A train employee returns to duty after initiating an on-duty period on 6 consecutive days, without 48 consecutive hours off duty at the employee's home terminal.

(8) A train employee initiates an on-duty period on more than 7 consecutive days.

(9) A train employee returns to duty after initiating an on-duty period on 7 consecutive days, without 72 consecutive hours off duty at the employee's home terminal.

(10) A train employee exceeds the following limitations on time spent awaiting or in deadhead transportation from a duty assignment to the place of final release following a period of 12 consecutive hours on duty:

(i) 40 hours in any calendar month completed prior to October 1, 2009;

(ii) 20 hours in the transition period from October 1, 2009-October 15, 2009;

(iii) 15 hours in the transition period from October 16, 2009-October 31, 2009; and

(iv) 30 hours in any calendar month completed after October 31, 2009.

(c) *Exception to requirements for train employees.* For train employees who are providing commuter rail passenger transportation or intercity rail passenger transportation, the following instances of excess service must be reported to FRA as required by this section:

(1) A train employee is on duty for more than 12 consecutive hours.

(2) A train employee returns to duty after 12 hours of consecutive service without at least 10 consecutive hours off duty.

(3) A train employee continues on duty without at least 8 consecutive hours off duty during the preceding 24 hours. Instances involving duty tours that are broken by less than 8 consecutive hours off duty which duty tours constitute more than a total of 12 hours time on duty must be reported.²

(4) A train employee returns to duty without at least 8 consecutive hours off duty during the preceding 24 hours. Instances involving duty tours that are broken by less than 8 consecutive hours off duty which duty tours constitute more than a total of 12 hours time on duty must be reported.²

(d) *For dispatching service employees.* The following instances of excess service by dispatching service employees must be reported to FRA as required by this section:

² Instances involving duty tours that are broken by four or more consecutive hours off duty time at a designated terminal which duty tours do not constitute more than a total of 12 hours time on duty are not required to be reported, provided such duty tours are immediately preceded by 8 or more consecutive hours off-duty time.

(1) A dispatching service employee is on duty for more than 9 hours in any 24-hour period at an office where two or more shifts are employed.

(2) A dispatching service employee is on duty for more than 12 hours in any 24-hour period at any office where one shift is employed.

(e) *For signal employees.* The following instances of excess service by signal employees must be reported to FRA as required by this section:

(1) A signal employee is on duty for more than 12 consecutive hours.

(2) A signal employee continues on duty without at least 10 consecutive hours off duty during the preceding 24 hours.

(3) A signal employee returns to duty without at least 10 consecutive hours off duty during the preceding 24 hours.

(f) Except as provided in paragraph (h) of this section, reports required by paragraphs (b) through (e) of this section shall be filed in writing on FRA Form F-6180-3³ with the Office of Railroad Safety, Federal Railroad Administration, Washington, DC 20590. A separate form shall be used for each instance reported.

(g) *Use of electronic signature.* For the purpose of complying with paragraph (f) of this section, the signature required on FRA Form F-6180-3 may be provided to FRA by means of an electronic signature provided that:

(1) The record contains the printed name of the signer and the date and actual time that the signature was executed, and the meaning, (such as authorship, review, or approval), associated with the signature;

(2) Each electronic signature shall be unique to one individual and shall not be used by, or assigned to, anyone else;

(3) Before a railroad, or a contractor or subcontractor to a railroad establishes, assigns, certifies, or otherwise sanctions an individual's electronic signature, or any element of such electronic signature, the organization shall verify the identity of the individual;

(4) Persons using electronic signatures shall, prior to or at the time of such use, certify to the agency that the electronic signatures in their system, used on or after the effective date of this regulation, are intended to be the legally binding equivalent of traditional handwritten signatures;

(5) The certification shall be submitted in paper form and signed with a traditional handwritten signature, to the Associate Administrator for Railroad Safety/Chief Safety Officer; and

(6) Persons using electronic signatures shall, upon agency request, provide additional certification or testimony that a specific electronic signature is the legally binding equivalent of the signer's handwritten signature.

(h) *Exception.* A railroad, or a contractor or subcontractor to a railroad, is excused from the requirements of paragraphs (a) and (f) of this section as to any employees for which —

(1) The railroad, or a contractor or subcontractor to a railroad maintains hours of service records using an electronic recordkeeping system that complies with the requirements of subpart D of this part; and

³ Form may be obtained from the Office of Railroad Safety, Federal Railroad Administration, Washington, DC 20590. Reproduction is authorized.

(2) The electronic recordkeeping system referred to in paragraph (h)(1) of this section requires —

(i) the employee to enter an explanation for any excess service certified by the employee; and

(ii) the railroad, or a contractor or subcontractor to a railroad to analyze each instance of excess service certified by one of its employees, make a determination as to whether each instance of excess service would be reportable under the provisions of paragraphs (b) through (e) of this section, and allows the railroad, or a contractor or subcontractor to a railroad to append its analysis to the employee's electronic record; and

(iii) allows FRA inspectors and State inspectors participating under 49 CFR Part 212 access to employee reports of excess service and any explanations provided.

§228.21 Civil penalty.

Any person (an entity of any type covered under 1 U.S.C. 1, including but not limited to the following: a railroad; a manager, supervisor, official, or other employee or agent of a railroad; any owner, manufacturer, lessor, or lessee of railroad equipment, track, or facilities; any independent contractor providing goods or services to a railroad; and any employee of such owner, manufacturer, lessor, lessee, or independent contractor) who violates any requirement of this part or causes the violation of any such requirement is subject to a civil penalty of at least \$550 and not more than \$11,000 per violation, except that: Penalties may be assessed against individuals only for willful violations, and, where a grossly negligent violation or a pattern of repeated violations has created an imminent hazard of death or injury to persons, or has caused death or injury, a penalty not to exceed \$27,000 per violation may be assessed. Each day a violation continues shall constitute a separate offense. See appendix B to this part for a statement of agency civil penalty policy. Violations of the Hours of Service Act itself (e.g., requiring an employee to work excessive hours or beginning construction of a sleeping quarters subject to approval under subpart C of this part without prior approval) are subject to penalty under that Act's penalty provision, 45 U.S.C. 64a.

§228.23 Criminal penalty.

Any person who knowingly and willfully falsifies a report or record required to be kept under this part or otherwise knowingly and willfully violates any requirement of this part may be liable for criminal penalties of a fine up to \$5,000, imprisonment for up to two years, or both, in accordance with 49 U.S.C. 21311(a).

Subpart C — Construction of Employee Sleeping Quarters

§228.101 Distance requirement; definitions.

(a) The Hours of Service Act, as amended (45 U.S.C. 61-64b), makes it unlawful for any common carrier engaged in interstate or foreign commerce by railroad to begin, on or after July 8, 1976, the construction or reconstruction of sleeping quarters for employees who perform duties covered by the act "within or in the immediate vicinity (as determined in accordance with rules prescribed by the Secretary of Transportation) of any area where railroad switching or humping operations are performed." 45 U.S.C. 62(a)(4). This subpart sets forth (1) a general definition of "immediate vicinity" (§ 228.101(b)), (2) procedures under which a carrier may request a determination by the Federal Railroad Administration that a particular proposed site is not

within the “immediate vicinity” of railroad switching or humping operations (§§ 228.103 and 228.105), and (3) the basic criteria utilized in evaluating proposed sites (§ 228.107).

(b) Except as determined in accordance with the provisions of this subpart. “The immediate vicinity” shall mean the area within one-half mile (2,640 feet) (804 meters) of switching or humping operations as measured from the nearest rail of the nearest trackage where switching or humping operations are performed to the point on the site where the carrier proposes to construct or reconstruct the exterior wall of the structure, or portion of such wall, which is closest to such operations.

(c) As used in this subpart —

(1) Construction shall refer to the —

- (i) Creation of a new facility;
- (ii) Expansion of an existing facility;
- (iii) Placement of a mobile or modular facility; or
- (iv) Acquisition and use of an existing building.

(2) Reconstruction shall refer to the-

- (i) Replacement of an existing facility with a new facility on the same site; or
- (ii) Rehabilitation or improvement of an existing facility (normal periodic maintenance excepted) involving the expenditure of an amount representing more than 50 percent of the cost of replacing such facility on the same site at the time the work of rehabilitation or improvement began, the replacement cost to be estimated on the basis of contemporary construction methods and materials.

(3) Switching or humping operations includes the classification of placarded railroad cars according to commodity or destination, assembling of placarded cars for train movements, changing the position of placarded cars for purposes of loading, unloading, or weighing, and the placing of placarded cars for repair. However, the term does not include the moving of rail equipment in connection with work service, the moving of a train or part of a train within yard limits by a road locomotive or placing locomotives or cars in a train or removing them from a train by a road locomotive while en route to the train’s destination. The term does include operations within this definition which are conducted by any railroad; it is not limited to the operations of the carrier contemplating construction or reconstruction of railroad employee sleeping quarters.

(4) Placarded car shall mean a railroad car required to be placarded by the Department of Transportation hazardous materials regulations (49 CFR 172.504).

(5) The term Leq(8) shall mean the equivalent steady state sound level which in 8 hours would contain the same acoustic energy as the time-varying sound level during the same time period.

§228.103 Approval procedure: construction within one-half mile (2,640 feet) (804 meters).

(a) A common carrier that has developed plans for the construction or reconstruction of sleeping quarters subject to this subpart and which is considering a site less than one-half mile (2,640 feet) (804 meters) from any area where switching or humping operations are performed, measured from the nearest rail of the nearest trackage utilized on a regular or intermittent basis for switching or humping operations to the point on the site where the carrier proposes to construct or reconstruct the exterior wall of the structure, or portion of such wall, which is closest to such operations, must obtain the approval of the Federal Railroad Administration before commencing construction or reconstruction on that site. Approval may be requested by filing a petition conforming to the requirements of this subpart.

(b) A carrier is deemed to have conducted switching or humping operations on particular trackage within the meaning of this subpart if placarded cars are subjected to the operations described in § 228.101(c)(3) within the 365-day period immediately preceding the date construction or reconstruction is commenced or if such operations are to be permitted on such trackage after such date. If the carrier does not have reliable records concerning the traffic handled on the trackage within the specified period, it shall be presumed that switching of placarded cars is conducted at the location and construction or reconstruction of sleeping quarters within one-half mile shall be subject to the approval procedures of this subpart.

(c) A petition shall be filed in triplicate with the Secretary, Railroad Safety Board, Federal Railroad Administration, Washington, DC 20590 and shall contain the following:

(1) A brief description of the type of construction planned, including materials to be employed, means of egress from the quarters, and actual and projected exterior noise levels and projected interior noise levels;

(2) The number of employees expected to utilize the quarters at full capacity;

(3) A brief description of the site, including:

(i) Distance from trackage where switching or humping operations are performed, specifying distances from particular functions such as classification, repair, assembling of trains from large groups of cars, etc. cetera;

(ii) Topography within a general area consisting of the site and all of the rail facilities close to the site;

(iii) Location of other physical improvements situated between the site and areas where railroad operations are conducted;

(4) A blueprint or other drawing showing the relationship of the site to trackage and other planned and existing facilities;

(5) The proposed or estimated date for commencement of construction;

(6) A description of the average number and variety of rail operations in the areas within one-half mile (2,640 feet) (804 meters) of the site (e.g., number of cars classified in 24-hour period; number of train movements);

(7) An estimate of the average daily number of placarded rail cars transporting hazardous materials through the railroad facility (where practicable, based on a 365-day period sample, that period not having ended more than 120 days prior to the date of filing the petition), specifying the —

(i) Number of such cars transporting class A explosives and poison gases; and

(ii) Number of DOT Specification 112A and 114A tank cars transporting flammable gas subject to FRA emergency order No. 5;

(8) A statement certified by a corporate officer of the carrier possessing authority over the subject matter explaining any plans of that carrier for utilization of existing trackage, or for the construction of new trackage, which may impact on the location of switching or humping operations within one-half mile of the proposed site (if there are no plans, the carrier official must so certify); and

(9) Any further information which is necessary for evaluation of the site.

(d) A petition filed under this section must contain a statement that the petition has been served on the recognized representatives of the railroad employees who will be utilizing the proposed sleeping quarters, together with a list of the employee representatives served.

§228.105 Additional requirements; construction within one-third mile (1,760 feet) (536 meters) of certain switching.

(a) In addition to providing the information specified by § 228.103, a carrier seeking approval of a site located within one-third mile (1,760 feet) (536 meters) of any area where railroad switching or humping operations are performed involving any cars required to be placarded “EXPLOSIVES A” or “POISON GAS” or any DOT Specification 112A or 114A tank cars transporting flammable gas subject to FRA emergency order No. 5 shall establish by a supplementary statement certified by a corporate officer possessing authority over the subject matter that —

(1) No feasible alternate site located at or beyond one-third mile from switching or humping operations is either presently available to the railroad or is obtainable within 3 miles (15,840 feet) (4,827 meters) of the reporting point for the employees who are to be housed in the sleeping quarters;

(2) Natural or other barriers exist or will be created prior to occupancy of the proposed facility between the proposed site and any areas in which switching or humping operations are performed which will be adequate to shield the facility from the direct and severe effects of a hazardous materials accident/incident arising in an area of switching or humping operations;

(3) The topography of the property is such as most likely to cause any hazardous materials unintentionally released during switching or humping to flow away from the proposed site; and

(4) Precautions for ensuring employee safety from toxic gases or explosions such as employee training and evacuation plans, availability of appropriate respiratory protection, and measures for fire protection, have been considered.

(b) In the absence of reliable records concerning traffic handled on trackage within the one-third mile area, it shall be presumed that the types of cars enumerated in paragraph (a) of this section are switched on that trackage; and the additional requirements of this section shall be met by the petitioning carrier, unless the carrier establishes that the switching of the enumerated cars will be effectively barred from the trackage if the petition is approved.

§228.107 Action on petition.

(a) Each petition for approval filed under § 228.103 is referred to the Railroad Safety Board for action in accordance with the provisions of part 211, title 49, CFR, concerning the processing of requests for special approvals.

(b) In considering a petition for approval filed under this subpart, the Railroad Safety Board evaluates the material factors bearing on-

(1) The safety of employees utilizing the proposed facility in the event of a hazardous materials accident/incident and in light of other relevant safety factors; and

(2) Interior noise levels in the facility.

(c) The Railroad Safety Board will not approve an application submitted under this subpart if it appears from the available information that the proposed sleeping quarters will be so situated and constructed as to permit interior noise levels due to noise under the control of the railroad to exceed an Leq(8) value of 55dB(A). If individual air conditioning and heating systems are to be utilized, projections may relate to noise levels with such units turned off.

(d) Approval of a petition filed under this subpart may be withdrawn or modified at any time if it is ascertained, after opportunity for a hearing, that any representation of fact or intent made

by a carrier in materials submitted in support of a petition was not accurate or truthful at the time such representation was made.

Subpart D — Electronic Recordkeeping

§ 228.201 Electronic recordkeeping; general.

For purposes of compliance with the recordkeeping requirements of subpart B, a railroad, or a contractor or subcontractor to a railroad may create and maintain any of the records required by subpart B through electronic transmission, storage, and retrieval provided that all of the following conditions are met:

(1) The system used to generate the electronic record meets all requirements of this subpart;

(2) The electronically generated record contains the information required by § 228.11;

(3) The railroad or a contractor or subcontractor to a railroad monitors its electronic database of employee hours of duty records through sufficient number of monitoring indicators to ensure a high degree of accuracy of these records; and

(4) The railroad or a contractor or subcontractor to a railroad trains its employees on the proper use of the electronic recordkeeping system to enter the information necessary to create his or her hours of service record, as required by § 228.207.

(5) The railroad or a contractor or subcontractor to a railroad maintains an information technology security program adequate to ensure the integrity of the system, including the prevention of unauthorized access to the program logic or individual records.

(6) FRA's Associate Administrator for Railroad Safety/Chief Safety Officer may prohibit or revoke the authority to use an electronic system if FRA finds the system is not properly secure, is inaccessible to FRA, or fails to record and store the information adequately and accurately. FRA will record such a determination in writing, including the basis for such action, and will provide a copy of its determination to the affected railroad, or contractor or subcontractor to a railroad.

§ 228.203 Program components.

(a) *System security.* The integrity of the program and database must be protected by a security system that utilizes an employee identification number and password, or a comparable method, to establish appropriate levels of program access meeting all of the following standards:

(1) Data input is restricted to the employee or train crew or signal gang whose time is being recorded, with the following exceptions:

(i) A railroad, or a contractor or subcontractor to a railroad, may allow its recordkeeping system to pre-populate fields of the hours of service record provided that:

(A) The recordkeeping system pre-populates fields of the hours of service record with information known to the railroad, or contractor or subcontractor to a railroad, to be factually accurate for a specific employee.

(B) The recordkeeping system may also provide the ability for employees to copy data from one field of a record into another field, where applicable.

(C) Estimated, historical, or arbitrary data are not used to pre-populate any field of an hours of service record.

(D) A railroad, or a contractor or subcontractor to a railroad, is not in violation of this paragraph if it makes a good faith judgment as to the factual accuracy of the data for a specific employee but nevertheless errs in pre-populating a data field.

(E) The employee may make any necessary changes to the data by typing into the field, without having to access another screen or obtain clearance from the railroad, or a contractor or subcontractor to a railroad.

(ii) A railroad, or a contractor or subcontractor to a railroad, shall allow employees to complete a verbal quick tie-up, or to transmit by facsimile or other electronic means the information necessary for a quick tie-up, if —

(A) The employee is released from duty at a location at which there is no terminal available;

(B) Computer systems are unavailable as a result of technical issues; or

(C) Access to computer terminals is delayed and the employee has exceeded his or her maximum allowed time on duty.

(2) No two individuals have the same electronic identity.

(3) A record cannot be deleted or altered by any individual after the record is certified by the employee who created the record.

(4) Any amendment to a record is either —

(i) Electronically stored apart from the record that it amends, or

(ii) Electronically attached to the record as information without changing the original record.

(5) Each amendment to a record uniquely identifies the person making the amendment.

(6) The electronic system provides for the maintenance of inspection records as originally submitted without corruption or loss of data.

(7) Supervisors and crew management officials can access, but cannot delete or alter the records of any employee after the report-for-duty time of the employee or after the record has been certified by the reporting employee.

(b) *Identification of the individual entering data.* The program must be capable of identifying each individual who entered data for a given record. If a given record contains data entered by more than one individual, the program must be capable of identifying the individual who entered specific information within the record.

(c) *Capabilities of program logic.* The program logic must have the ability to —

(1) Calculate the total time on duty for each employee, using data entered by the employee and treating each identified period as defined in § 228.5;

(2) Identify employee input errors through the use of program edits;

(3) Require records, including outstanding records, the completion of which was delayed, to be completed in chronological order;

(4) Require reconciliation when the known (system-generated) prior time off differs from the prior time off reported by an employee;

(5) Require explanation if the total time on duty reflected in the certified record exceeds the statutory maximum for the employee;

(6) Require the use of a quick tie-up screen when the employee has exceeded or is within three minutes of his or her statutory maximum time on duty;

(7) Require that the employee's certified final release be not more than three minutes in the future, and that the employee may not certify a final release time for a current duty tour

that is in the past, compared to the clock time of the computer system at the time that the record is certified, allowing for changes in time zones;

(8) Require automatic modification to prevent miscalculation of an employee's total time on duty for a duty tour that spans changes from and to daylight savings time;

(9) For train employees, require completion of a full record at the end of a duty tour when the employee initiates a tie-up with less than the statutory maximum time on duty and a quick tie-up is not mandated;

(10) For train employees, disallow use of a quick tie-up when the employee has time remaining to complete a full record, except as provided in paragraph (a)(1)(ii) of this section.

(11) Disallow any manipulation of the tie-up process that precludes compliance with any of the requirements specified by paragraphs (c)(1) through (c)(10) of this section.

(d) *Search capabilities.* The program must contain sufficient search criteria to allow any record to be retrieved through a search of any one or more of the following data fields, by specific date or by a date range not exceeding 30 days for the data fields specified by paragraphs (d)(1) and (d)(2) of this section, and not exceeding one day for the data fields specified by paragraphs (d)(3) through (d)(7) of this section:

(1) Employee, by name or identification number;

(2) Train or job symbol;

(3) Origin location, either yard or station;

(4) Released location, either yard or station;

(5) Operating territory (i.e., division or service unit, subdivision, or railroad-identified line segment);

(6) Certified records containing one or more instances of excess service; and

(7) Certified records containing duty tours in excess of 12 hours.

(e) The program must display individually each train or job assignment within a duty tour that is required to be reported by this part.

§ 228.205 Access to electronic records.

(a) FRA inspectors and State inspectors participating under 49 CFR. Part 212 must have access to hours of service records created and maintained electronically that is obtained as required by § 228.9(b)(4).

(b) Railroads must establish and comply with procedures for providing an FRA inspector or participating State inspector with an identification number and temporary password for access to the system upon request, which access will be valid for a period not to exceed seven days. Access to the system must be provided as soon as possible and no later than 24 hours after a request for access.

(c) The inspection screen provided to FRA inspectors and participating State inspectors for searching employee hours of duty records must be formatted so that —

(1) Each data field entered by an employee on the input screen is visible to the FRA inspector or participating State inspector; and

(2) The data fields are searchable as described in § 228.203(d) and yield access to all records matching criteria specified in a search.

(3) Records are displayed in a manner that is both crew-based and duty tour oriented, so that the data pertaining to all employees who worked together as part of a crew or signal gang will be displayed together, and the record will include all of the assignments and activities of a given duty tour that are required to be recorded by this part.

§ 228.207 Training.

(a) *In general.* A railroad, or a contractor or subcontractor to a railroad, shall provide its train employees, signal employees and dispatching service employees and its supervisors of these employees with initial training and refresher training as provided in this section.

(b) *Initial training.*

(1) Initial training shall include the following:

(i) Instructional components presented in a classroom setting or by electronic means; and

(ii) Experiential (“hands-on”) components; and

(iii) Training on —

(A) The aspects of the hours of service laws relevant to the employee’s position that are necessary to understanding the proper completion of the hours of service record required by this part, and

(B) The entry of hours of service data, into the electronic system or on the appropriate paper records used by the railroad or contractor or subcontractor to a railroad for whom the employee performs covered service; and

(iv) Testing to ensure that the objectives of training are met.

(2) Initial training shall be provided —

(i) To each current employee and supervisor of an employee as soon after May 27, 2009, as practicable; and

(ii) To new employees and supervisors prior to the time that they will be required to complete an hours of service record or supervise an employee required to complete an hours of service record.

(c) *Refresher training.*

(1) The content and level of formality of refresher training should be tailored to the needs of the location and employees involved, except that the training shall —

(i) Emphasize any relevant changes to the hours of service laws, the reporting requirements in this part, or the carrier’s electronic or other recordkeeping system since the employee last received training; and

(ii) Cover any areas in which supervisors or other railroad managers are finding errors in the employees’ records through the monitoring indicators.

(2) Refresher training shall be provided to each employee any time that recurrent errors in records prepared by the employee, discovered through the monitoring indicators, suggest, for example, the employee’s lack of understanding of how to complete hours of service records.

Appendix A to Part 228—Requirements of the Hours of Service Act: Statement of Agency Policy and Interpretation

First enacted in 1907, the Hours of Service Act was substantially revised in 1969 by Public Law 91-169. Further amendments were enacted as part of the Federal Railroad Safety Authorization Act of 1976, Public Law 94-348 and by the Rail Safety Improvement Act of 1988, Public Law 100-342. The purpose of the law is “to promote the safety of employees and travelers upon railroads by limiting the hours of service of employees ***.” This appendix is designed to explain the effect of the law in commonly-encountered situations.

The Act governs the maximum work hours of employees engaged in one or more of the basic categories of covered service treated below. If an individual performs more than one kind of covered service during a tour of duty, then the most restrictive of the applicable limitations control.

The act applies to any railroad, as that term is defined in 45 U.S.C. 431(e). It governs the carrier's operations over its own railroad and all lines of road which it uses.

Train and Engine Service

Covered Service. Train or engine service refers to the actual assembling or operation of trains. Employees who perform this type of service commonly include locomotive engineers, firemen, conductors, trainmen, switchmen, switchtenders (unless their duties come under the provisions of section 3) and hostlers. With the passage of the 1976 amendments, both inside and outside hostlers are considered to be connected with the movement of trains. Previously, only outside hostlers were covered. Any other employee who is actually engaged in or connected with the movement of any train is also covered, regardless of his job title.

Limitations on Hours. The Act establishes two limitations on hours of service. First, no employee engaged in train or engine service may be required or permitted to work in excess of twelve consecutive hours. After working a full twelve consecutive hours, an employee must be given at least ten consecutive hours off duty before being permitted to return to work.

Second, no employee engaged in train or engine service may be required or permitted to continue on duty or go on duty unless he has had at least eight consecutive hours off duty within the preceding twenty-four hours. This latter limitation, when read in conjunction with the requirements with respect to computation of duty time (discussed below) results in several conclusions:

(1) When an employee's work tour is broken or interrupted by a valid period of interim release (4 hours or more at a designated terminal), he may return to duty for the balance of the total 12-hour work tour during a 24-hour period.

(2) After completing the 12 hours of broken duty, or at the end of the 24-hour period, whichever occurs first, the employee may not be required or permitted to continue on duty or to go on duty until he has had at least 8 consecutive hours off duty.

(3) The 24-hour period referred to in paragraphs 1 and 2 above shall begin upon the commencement of a work tour by the employee immediately after his having received a statutory off-duty period of 8 or 10 hours as appropriate.

Duty time and effective periods of release. On-duty time commences when an employee reports at the time and place specified by the railroad and terminates when the employee is finally released of all responsibilities. (Time spent in deadhead transportation to a duty assignment is also counted as time on duty. See discussion below.) Any period available for rest that is of four or more hours and is at a designated terminal is off-duty time. All other periods available for rest must be counted as time on duty under the law, regardless of their duration.

The term “designated terminal” means a terminal (1) which is designated in or under a collective bargaining agreement as the “home” or “away-from-home” terminal for a particular crew assignment and (2) which has suitable facilities for food and lodging. Carrier and union representatives may agree to establish additional designated terminals having such facilities as points of effective release under the Act. Agreements to designate additional terminals for purposes of release under the Act should be reduced to writing and should make reference to the particular assignments affected and to the Hours of Service Act. The following are common situations illustrating the designated terminal concept:

(1) A freight or passenger road crew operates a train from home terminal “A” to away-from-home terminal “B” (or the reverse). Terminals “A” and “B” would normally be the designated terminals for this specific crew assignment. However, carrier and employee representatives may agree to designate additional terminals having suitable facilities for food and lodging as appropriate points of release under the Hours of Service Act.

(2) A road crew operates a train in turn-around service from home terminal “A” to turn-around point “B” and back to “A”. Terminal “A” is the only designated terminal for this specific crew assignment, unless carrier and employee representatives have agreed to designate additional terminals having suitable facilities for food and lodging.

(3) A crew is assigned to operate a maintenance-of-way work train from home terminal “A”, work on line of road and tie up for rest along the line of road at point “B”. Home terminal “A” and tie-up point “B” both qualify as designated terminals for this specific work train crew assignment. Of course, suitable facilities for food and lodging must be available at tie-up point “B”.

Deadheading. Under the Act time spent in deadhead transportation receives special treatment. Time spent in deadhead transportation to a duty assignment by a train or engine service employee is considered on-duty time. Time spent in deadhead transportation from the final duty assignment of the work tour to the point of final release is not computed as either time on duty or time off duty. Thus, the period of deadhead transportation to point of final release may not be included in the required 8- or 10-hour off-duty period. Time spent in deadhead transportation to a duty assignment is calculated from the time the employee reports for deadhead until he reaches his duty assignment.

All time spent awaiting the arrival of a deadhead vehicle for transportation from the final duty assignment of the work tour to the point of final release is considered limbo time, i.e., neither time on duty nor time off duty, provided that the employee is given no specific responsibilities to perform during this time. However, if an employee is required to perform service of any kind during that period (e.g., protecting the train against vandalism, observing passing trains for any defects or unsafe conditions, flagging, shutting down locomotives, checking fluid levels, or communicating train consist information via radio), he or she will be considered as on duty until all such service is completed. Of course, where a railroad carrier’s operating rules clearly relieve the employee of all duties during the waiting period and no duties are specifically assigned, the waiting time is not computed as either time on duty or time off duty.

Transit time from the employee's residence to his regular reporting point is not considered deadhead time.

If an employee utilizes personal automobile transportation to a point of duty assignment other than the regular reporting point in lieu of deadhead transportation provided by the carrier, such actual travel time is considered as deadheading time. However, if the actual travel time from his home to the point of duty assignment exceeds a reasonable travel time from the regular reporting point to the point of duty assignment, then only the latter period is counted. Of course, actual travel time must be reasonable and must not include diversions for personal reasons.

Example: Employee A receives an assignment from an "extra board" located at his home terminal to protect a job one hour's drive from the home terminal. In lieu of transporting the employee by carrier conveyance, the railroad pays the employee a fixed amount to provide his own transportation to and from the outlying point. The employee is permitted to go directly from his home to the outlying point, a drive which takes 40 minutes. The normal driving time between his regular reporting point at his home terminal and the outlying point is 60 minutes. The actual driving time, 40 minutes is considered deadhead time and is counted as time on duty under the Act.

Employee A performs local switching service at the outlying point. When the employee returns from the outlying point that evening, and receives an "arbitrary" payment for his making the return trip by private automobile, 40 minutes of his time in transportation home is considered deadheading to point of final release and is not counted as either time on duty or time off duty.

Wreck and relief trains. Prior to the 1976 amendments, crews of wreck and relief trains were exempted entirely from the limitations on hours of service. Under present law that is no longer the case. The crew of a wreck or relief train may be permitted to be on duty for not to exceed 4 additional hours in any period of 24 consecutive hours whenever an actual emergency exists and the work of the crew is related to that emergency. Thus, a crew could work up to 16 hours, rather than 12. The Act specifies that an emergency ceases to exist for purposes of this provision when the track is cleared and the line is open for traffic. An "emergency" for purposes of wreck or relief service may be a less extraordinary or catastrophic event than an "unavoidable accident or Act of God" under section 5(d) of the Act.

Example: The crew of a wreck train is dispatched to clear the site of a derailment which has just occurred on a main line. The wreck crew re-rails or clears the last car and the maintenance of way department releases the track to the operating department 14 hours and 30 minutes into the duty tour. Since the line is not clear until the wreck train is itself out of the way, the crew may operate the wreck train to its terminal, provided this can be accomplished within the total of 16 hours on duty.

Emergencies. The Act contains no general exception using the term "emergency" with respect to train or engine service or related work. See "casualties," etc., under "General Provisions".

Communication of Train Orders

Covered Service. The handling of orders governing the movement of trains is the second type of covered service. This provision of the Act applies to any operator, train dispatcher or other employee who by the use of the telegraph, telephone, radio, or any other electrical or mechanical device dispatches, reports, transmits, receives, or delivers orders pertaining to or affecting train movements.

The approach of the law is functional. Thus, though a yardmaster normally is not covered by this provision, a yardmaster or other employee who performs any of the specified service during a duty tour is subject to the limitations on service for that entire tour.

Limitations on hours. No employee who performs covered service involving communication of train orders may be required or permitted to remain on duty for more than nine hours, whether consecutive or in the aggregate, in any 24-hour period in any office, tower, station or place where two or more shifts are employed. Where only one shift is employed, the employee is restricted to 12 hours consecutively or in the aggregate during any 24-hour period.

The provision on emergencies, discussed below, may extend the permissible hours of employees performing this type of service.

Shifts. The term “shift” is not defined by the Act, but the legislative history of the 1969 amendments indicates that it means a tour of duty constituting a day’s work for one or more employee performing the same class of work at the same station who are scheduled to begin and end work at the same time. The following are examples of this principle:

Scheduled Hours	Classification
7 a.m. to 3 p.m.	1 shift.
7 a.m. to 12:30 p.m. 1:30 p.m. to 8 p.m. (Schedule for one employee including one hour lunch period)	Ditto
7 a.m. to 3 p.m. 7 a.m. to 3 p.m. (Two employees scheduled)	Ditto
7 a.m. to 3 p.m. 8 a.m. to 4 p.m. (Two employees scheduled)	2 shifts.

Duty time and effective periods of release. If, after reporting to his place of duty, an employee is required to perform duties at other places during this same tour of duty, the time spent traveling between such places is considered as time on duty. Under the traditional administrative interpretation of section 3, other periods of transportation are viewed as personal commuting and, thus, off-duty time.

A release period is considered off-duty time if it provides a meaningful period of relaxation and if the employee is free of all responsibilities to the carrier. One hour is the minimum acceptable release period for this type of covered service.

Emergencies. The section of the Act dealing with dispatchers, operators, and others who transmit or receive train orders contains its own emergency provision. In case of emergency, an employee subject to the 9 or 12-hour limitation is permitted to work an additional four hours in any 24-hour period, but only for a maximum of three days in any period of seven consecutive

days. However, even in an emergency situation the carrier must make reasonable efforts to relieve the employee.

General Provisions (applicable to all covered service)

Commingled Service. All duty time for a railroad even though not otherwise subject to the Act must be included when computing total on-duty time of an individual who performs one or more of the type of service covered by the Act. This is known as the principle of “commingled service”.

For example, if an employee performs duty for 8 hours as a trainman and then is used as a trackman (not covered by the law) in the same 24-hour period, total on-duty time is determined by adding the duty time as trackman to that as trainman. The law does not distinguish treatment of situations in which non-covered service follows, rather than precedes, covered service. The limitations on total hours apply on both cases. It should be remembered that attendance at required rules classes is duty time subject to the provisions on “commingling”. Similarly, where a carrier compels attendance at a disciplinary proceeding, time spent in attendance is subject to the provisions on commingling.

When an employee performs service covered by more than one restrictive provision, the most restrictive provision determines the total lawful on-duty time. Thus, when an employee performs duty in train or engine service and also as an operator, the provisions of the law applicable to operators apply to all on-duty and off-duty periods during such aggregate time. However, an employee subject to the 12 hour provision of section 2 of the law does not become subject to the 9 or 12-hour provisions of section 3 merely because he receives, transmits or delivers orders pertaining to or affecting the movement of his train in the course of his duties as a trainman.

Casualties, Unavoidable Accidents, Acts of God. Section 5(d) of the Act states the following: “The provisions of this Act shall not apply in any case of casualty or unavoidable accident or the Act of God; nor where the delay was the result of a cause not known to the carrier or its officer or agent in charge of the employee at the time said employee left a terminal, and which could not have been foreseen.” This passage is commonly referred to as the “emergency provision”. Judicial construction of this sentence has limited the relief which it grants to situations which are truly unusual and exceptional. The courts have recognized that delays and operational difficulties are common in the industry and must be regarded as entirely foreseeable; otherwise, the Act will provide no protection whatsoever. Common operational difficulties which do not provide relief from the Act include, but are not limited to, broken draw bars, locomotive malfunctions, equipment failures, brake system failures, hot boxes, unexpected switching, doubling hills and meeting trains. Nor does the need to clear a main line or cut a crossing justify disregard of the limitations of the Act. Such contingencies must normally be anticipated and met within the 12 hours. Even where an extraordinary event or combination of events occurs which, by itself, would be sufficient to permit excess service, the carrier must still employ due diligence to avoid or limit such excess service. The burden of proof rests with the carrier to establish that excess service could not have been avoided.

Sleeping Quarters. Under the 1976 amendments to the Act it is unlawful for any common carrier to provide sleeping quarters for persons covered by the Hours of Service Act which do

not afford such persons an opportunity for rest, free from interruptions caused by noise under the control of the railroad, in clean, safe, and sanitary quarters. Such sleeping quarters include crew quarters, camp or bunk cars, and trailers.

Sleeping quarters are not considered to be “free from interruptions caused by noise under the control of the railroad” if noise levels attributable to noise sources under the control of the railroad exceed an Leq(8) value of 55dB(A).

FRA recognizes that camp cars, either because of express limitations of local codes or by virtue of their physical mobility, cannot, for practical purposes, be subject to state or local housing, sanitation, health, electrical, or fire codes. Therefore, FRA is unable to rely upon state or local authorities to ensure that persons covered by the Act who reside in railroad-provided camp cars are afforded an opportunity for rest in “clean, safe, and sanitary” conditions. Accordingly, the guidelines in appendix C to this part 228 will be considered by FRA as factors to be used in applying the concepts of “clean,” “safe,” and “sanitary” to camp cars provided by railroads for the use of employees covered by section 2(a)(3) of the Act. Failure to adhere to these guidelines might interfere with the ordinary person’s ability to rest.

Collective Bargaining. The Hours of Service Act prescribes the maximum permissible hours of service consistent with safety. However, the Act does not prohibit collective bargaining for shorter hours of service and time on duty.

Penalty. As amended by the Rail Safety Improvement Act of 1988 and the Rail Safety Enforcement and Review Act of 1992, the penalty provisions of the law apply to any person (an entity of any type covered under 1 U.S.C. 1, including but not limited to the following: a railroad; a manager, supervisor, official, or other employee or agent of a railroad; any owner, manufacturer, lessor, or lessee of railroad equipment, track, or facilities; any independent contractor providing goods or services to a railroad; and any employee of such owner, manufacturer, lessor, lessee, or independent contractor), except that a penalty may be assessed against an individual only for a willful violation. See appendix A to 49 CFR part 209. For violations that occurred on September 3, 1992, a person who violates the Act is liable for a civil penalty, as the Secretary of Transportation deems reasonable, in an amount not less than \$500 nor more than \$11,000, except that where a grossly negligent violation or a pattern of repeated violations has created an imminent hazard of death or injury to persons, or has caused death or injury, a penalty not to exceed \$22,000 may be assessed. The Federal Civil Penalties Inflation Adjustment Act of 1990 as amended by the Debt Collection Improvement Act of 1996 required agencies to increase the maximum civil monetary penalty for inflation. The amounts increased from \$10,000 to \$11,000 and from \$20,000 to \$22,000 respectively. According to the same law, in 2004, the minimum penalty of \$500 was raised to \$550, and the maximum penalty for a grossly negligent violation or a pattern of repeated violations that has caused an imminent hazard of death or injury to individuals or has caused death or injury, was increased from \$22,000 to \$27,000. The \$11,000 maximum penalty was not adjusted.

Each employee who is required or permitted to be on duty for a longer period than prescribed by law or who does not receive a required period of rest represents a separate and distinct violation and subjects the railroad to a separate civil penalty. In the case of a violation of section

2(a)(3) or (a)(4) of the Act, each day a facility is in noncompliance constitutes a separate offense and subjects the railroad to a separate civil penalty.

In compromising a civil penalty assessed under the Act, FRA takes into account the nature, circumstances, extent, and gravity of the violation committed, and, with respect to the person found to have committed such violation, the degree of culpability, any history of prior or subsequent offenses, ability to pay, effect on ability to continue to do business and such other matters as justice may require.

Statute of limitations. No suit may be brought after the expiration of two years from the date of violation unless administrative notification of the violation has been provided to the person to be charged within that two year period. In no event may a suit be brought after expiration of the period specified in 28 U.S.C. 2462.

Exemptions. A railroad which employs not more than 15 persons covered by the Hours of Service Act (including signalmen and hostlers) may be exempted from the law's requirements by the FRA after hearing and for good cause shown. The exemption must be supported by a finding that it is in the public interest and will not adversely affect safety. The exemption need not relate to all carrier employees. In no event may any employee of an exempt railroad be required or permitted to work beyond 16 hours continuously or in the aggregate within any 24-hour period. Any exemption is subject to review at least annually.

Appendix B to Part 228 — Schedule of Civil Penalties⁴

Section	Violation	Willful
Subpart B - Records and Reporting:		
228.9 Railroad records	\$500	\$1,000
228.11 Hours of duty records	500	1,000
228.17 Dispatcher's record	500	1,000
228.19 Monthly reports of excess service	1,000	2,000

Appendix C to Part 228 Guidelines for Clean, Safe, and Sanitary Railroad Provided Camp Cars

1. *Definitions applicable to these Guidelines.*

(a) *Camp Cars* mean trailers and on-track vehicles, including outfit, camp, or bunk cars or modular homes mounted on flat cars, used to house or accommodate railroad employees. Wreck trains are not included.

(b) *Employee* means any worker whose service is covered by the Hours of Service Act or who is defined as an employee for purposes of section 2(a)(3) of that Act.

(c) *Lavatory* means a basin or similar vessel used primarily for washing of the hands, arms, face, and head.

(d) *Nonwater carriage toilet facility* means a toilet facility not connected to a sewer.

⁴ A penalty may be assessed against an individual only for a willful violation. The Administrator reserves the right to assess a penalty of up to \$27,000 for any violation where circumstances warrant. *See* 49 CFR part 209, appendix A.

(e) *Number of employees* means the number of employees assigned to occupy the camp cars.

(f) *Personal service room* means a room used for activities not directly connected with the production or service function performed by the carrier establishment. Such activities include, but are not limited to, first-aid, medical services, dressing, showering, toilet use, washing, and eating.

(g) *Potable water* means water that meets the quality standards prescribed in the U.S. Public Health Service Drinking Water Standards, published at 42 CFR part 72, or is approved for drinking purposes by the State or local authority having jurisdiction.

(h) *Toilet facility* means a fixture maintained within a toilet room for the purpose of defecation or urination, or both.

(i) *Toilet room* means a room maintained within or on the premises containing toilet facilities for use by employees.

(j) *Toxic material* means a material in concentration or amount of such toxicity as to constitute a recognized hazard that is causing or is likely to cause death or serious physical harm.

(k) *Urinal* means a toilet facility maintained within a toilet room for the sole purpose of urination.

(l) *Water closet* means a toilet facility maintained within a toilet room for the purpose of both defecation and urination and which is flushed with water.

(m) *Leq(8)* means the equivalent steady sound level which in 8 hours would contain the same acoustic energy as the time-varying sound level during the same time period.

2. *Housekeeping.*

(a) All camp cars should be kept clean to the extent that the nature of the work allows.

(b) To facilitate cleaning, every floor, working place, and passageway should be kept free from protruding nails, splinters, loose boards, and unnecessary holes and openings.

3. *Waste Disposal.*

(a) Any exterior receptacle used for putrescible solid or liquid waste or refuse should be so constructed that it does not leak and may be thoroughly cleaned and maintained in a sanitary condition. Such a receptacle should be equipped with a solid tight-fitting cover, unless it can be maintained in a sanitary condition without a cover. This requirement does not prohibit the use of receptacles designed to permit the maintenance of a sanitary condition without regard to the aforementioned requirements.

(b) All sweepings, solid or liquid wastes, refuse, and garbage should be removed in such a manner as to avoid creating a menace to health and as often as necessary or appropriate to maintain a sanitary condition.

4. *Vermin Control.*

(a) Camp cars should be so constructed, equipped, and maintained, so far as reasonably practicable, as to prevent the entrance or harborage of rodents, insects, or other vermin. A continuing and effective extermination program should be instituted where their presence is detected.

5. *Water Supply.*

(a) Potable water.

(1) Potable water should be adequately and conveniently provided to all employees in camp cars for drinking, washing of the person, cooking, washing of foods, washing of cook-

ing or eating utensils, washing of food preparation or processing premises, and personal service rooms where such facilities are provided.

(2) Potable drinking water dispensers should be designed, constructed, and serviced so that sanitary conditions are maintained, should be capable of being closed, and should be equipped with a tap.

(3) Open containers such as barrels, pails, or tanks for drinking water from which the water must be dipped or poured, whether or not they are fitted with a cover, should not be used.

(4) A common drinking cup and other common utensils should not be used.

(b) The distribution lines should be capable of supplying water at sufficient operating pressures to all taps for normal simultaneous operation.

6. Toilet facilities.

(a) Toilet facilities.

(1) Toilet facilities adequate for the number of employees housed in the camp car should be provided in convenient and safe location(s), and separate toilet rooms for each sex should be provided in accordance with table 1 of this paragraph. The number of facilities to be provided for each sex should be based on the number of employees of that sex for whom the facilities are furnished. Where toilet rooms will be occupied by no more than one person at a time, can be locked from the inside, and contain at least one water closet or nonwater carriage toilet facility, separate toilet rooms for each sex need not be provided. Where such single-occupancy rooms have more than one toilet facility, only one such facility in each toilet room should be counted for the purpose of table 1.

Table 1

No. of employees	Minimum No. of toilet facilities ⁵
1 to 10	1
11 to 25	2
26 to 49	3
50 to 100	5
Over 100	6

(2) When toilet facilities are provided in separate cars, toilet rooms should have a window space of not less than 6 square feet in area opening directly to the outside area or otherwise be satisfactorily ventilated. All outside openings should be screened with material that is equivalent to or better than 16-mesh. No fixture, water closet, nonwater carriage toilet facility or urinal should be located in a compartment used for other than toilet purposes.

(3) The sewage disposal method should not endanger the health of employees.

(b) Construction of toilet rooms.

(1) Each water closet should occupy a separate compartment with a door and walls or partitions between fixtures sufficiently high to assure privacy.

(2) Nonwater carriage toilet facilities should be located within 50 feet, but as far as practical on the same side of the track on which camp cars are sited.

⁵ Where toilet facilities will not be used by women, urinals may be provided instead of water closets or nonwater carriage toilet facilities, except that the number of water closets or facilities in such cases should not be reduced to less than 2/3 of the minimum specified.

⁶ One additional fixture for each additional 25 employees.

(3) Each toilet facility should be lighted naturally, or artificially by a safe type of lighting available at all hours of the day and night. Flashlights can be substituted by the railroad when nonwater carriage toilet facilities are used.

(4) An adequate supply of toilet paper should be provided in each water closet, or nonwater carriage toilet facility, unless provided to the employees individually.

(5) Toilet facilities should be kept in a clean and sanitary condition. They should be cleaned regularly when occupied. In the case of nonwater carriage toilet facilities, they should be cleaned and changed regularly.

7. Lavatories.

(a) Lavatories should be made available to all rail employees housed in camp cars.

(b) Each lavatory should be provided with either hot and cold running water or tepid running water.

(c) Unless otherwise provided by agreement, hand soap or similar cleansing agents should be provided.

(d) Unless otherwise provided by agreement, individual hand towels or sections thereof, of cloth or paper, warm air blowers or clean individual sections of continuous cloth toweling, convenient to the lavatories, should be provided.

(e) One lavatory basin per six employees should be provided in shared facilities.

8. Showering facilities.

(a) Showering facilities should be provided in the following ratio: one shower should be provided for each 10 employees of each sex, or numerical fraction thereof, who are required to shower during the same shift.

(b) Shower floors should be constructed of non-slippery materials. Floor drains should be provided in all shower baths and shower rooms to remove waste water and facilitate cleaning. All junctions of the curbing and the floor should be sealed. The walls and partitions of shower rooms should be smooth and impervious to the height of splash.

(c) An adequate supply of hot and cold running water should be provided for showering purposes. Facilities for heating water should be provided.

(d) Showers.

1. Unless otherwise provided by agreement, body soap or other appropriate cleansing agent convenient to the showers should be provided.

2. Showers should be provided with hot and cold water feeding a common discharge line.

3. Unless otherwise provided by agreement, employees who use showers should be provided with individual clean towels.

9. Kitchens, dining hall and feeding facilities.

(a) In all camp cars where central dining operations are provided, the food handling facilities should be clean and sanitary.

(b) When separate kitchen and dining hall cars are provided, there should be a closable door between the living or sleeping quarters into a kitchen or dining hall car.

10. Consumption of food and beverages on the premises.

(a) Application. This paragraph should apply only where employees are permitted to consume food or beverages, or both, on the premises.

(b) Eating and drinking areas. No employee should be allowed to consume food or beverages in a toilet room or in any area exposed to a toxic material.

(c) Sewage disposal facilities. All sewer lines and floor drains from camp cars should be connected to public sewers where available and practical, unless the cars are equipped with holding tanks that are emptied in a sanitary manner.

(d) Waste disposal containers provided for the interior of camp cars. An adequate number of receptacles constructed of smooth, corrosion resistant, easily cleanable, or disposable materials, should be provided and used for the disposal of waste food. Receptacles should be provided with a solid tightfitting cover unless sanitary conditions can be maintained without use of a cover. The number, size and location of such receptacles should encourage their use and not result in overfilling. They should be emptied regularly and maintained in a clean and sanitary condition.

(e) Sanitary storage. No food or beverages should be stored in toilet rooms or in an area exposed to a toxic material.

(f) Food handling.

(1) All employee food service facilities and operations should be carried out in accordance with sound hygienic principles. In all places of employment where all or part of the food service is provided, the food dispensed should be wholesome, free from spoilage, and should be processed, prepared, handled, and stored in such a manner as to be protected against contamination.

(2) No person with any disease communicable through contact with food or food preparation items should be employed or permitted to work in the preparation, cooking, serving, or other handling of food, foodstuffs, or materials used therein, in a kitchen or dining facility operated in or in connection with camp cars.

11. *Lighting.* Each habitable room in a camp car should be provided with adequate lighting.

12. *First Aid.* Adequate first aid kits should be maintained and made available for railway employees housed in camp cars for the emergency treatment of injured persons.

13. *Shelter.*

(a) Every camp car should be constructed in a manner that will provide protection against the elements.

(b) All steps, entry ways, passageways and corridors providing normal entry to or between camp cars should be constructed of durable weather resistant material and properly maintained. Any broken or unsafe fixtures or components in need of repair should be repaired or replaced promptly.

(c) Each camp car used for sleeping purposes should contain at least 48 square feet of floor space for each occupant. At least a 7-foot ceiling measured at the entrance to the car should be provided.

(d) Beds, cots, or bunks and suitable storage facilities such as wall lockers or space for foot lockers for clothing and personal articles should be provided in every room used for sleeping purposes. Except where partitions are provided, such beds or similar facilities should be spaced not closer than 36 inches laterally (except in modular units which cannot be spaced closer than 30 inches) and 30 inches end to end, and should be elevated at least 12 inches from the floor. If double-deck bunks are used, they should be spaced not less than 48 inches both laterally and end to end. The minimum clear space between the lower and upper bunk should be not less than 27 inches. Triple-deck bunks should not be used.

(e) Floors should be of smooth and tight construction and should be kept in good repair.

(f) All living quarters should be provided with windows the total of which should be not less than 10 percent of the floor area. At least one-half of each window designed to be opened should be so constructed that it can be opened for purposes of ventilation. Durable opaque window coverings should be provided to reduce the entrance of light during sleeping hours.

(g) All exterior openings should be effectively screened with 16-mesh material. All screen doors should be equipped with self-closing devices.

(h) In a facility where workers cook, live, and sleep, a minimum of 90 square feet per person should be provided. Sanitary facilities should be provided for storing and preparing food.

(i) In camp cars where meals are provided, adequate facilities to feed employees within a 60-minute period should be provided.

(j) All heating, cooking, ventilation, air conditioning and water heating equipment should be installed in accordance with applicable local regulations governing such installations.

(k) Every camp car should be provided with equipment capable of maintaining a temperature of at least 68 degrees F. during normal cold weather and no greater than 78 degrees F., or 20 degrees below ambient, whichever is warmer, during normal hot weather.

(l) Existing camp cars may be grandfathered so as to only be subject to subparagraphs (c), (d), (f), (h), and (k), in accordance with the following as recommended maximums:

13 (c), (d), and (h) — by January 1, 1994.

13(f) — Indefinitely insofar as the ten percent (10%) requirement for window spacing is concerned.

13(k) — by January 1, 1992.

14. *Location.* Camp cars occupied exclusively by individuals employed for the purpose of maintaining the right-of-way of a railroad should be located as far as practical from where “switching or humping operations” of “placarded cars” occur, as defined in 49 CFR 228.101 (c)(3) and (c)(4), respectively. Every reasonable effort should be made to locate these camp cars at least one-half mile (2,640 feet) from where such switching or humping occurs. In the event employees housed in camp cars located closer than one-half mile (2,640 feet) from where such switching or humping of cars takes place are exposed to an unusual hazard at such location, the employees involved should be housed in other suitable accommodations. An unusual hazard means an unsafe condition created by an occurrence other than normal switching or humping.

15. *General provisions.*

(a) Sleeping quarters are not considered to be “free of interruptions caused by noise under the control of the railroad” if noise levels attributable to noise sources under the control of the railroad exceed an Leq(8) value of 55 dB(A), with windows closed and exclusive of cooling, heating, and ventilating equipment.

(b) A railroad should, within 48 hours after notice of noncompliance with these recommendations, fix the deficient condition(s). Where holidays or weekends intervene, the railroad should fix the condition within 8 hours after the employees return to work. In the event such condition(s) affects the safety or health of the employees, such as water, cooling, heating or eating facilities, the railroad should provide alternative arrangements for housing and eating until the noncomplying condition is fixed.