



Federal Railroad Administration Track Safety Standards Fact Sheet

Background on Federal Track Safety Standards

Railroads are safer today than at any time in our history; however, FRA continues to strive for an accident-free operating environment. There are approximately 160,000 miles of track in the U.S. which require vigilant inspection, maintenance, repair and replacement by railroads in order to keep freight and passenger trains moving safely. Generally, track conditions today are safer than at any other point in our history. In 1978, there were 4,780 track-caused accidents compared to 669 in 2011—an 86 percent reduction.

The wide range of conditions associated with, and inherent in, track infrastructure can lead to derailments if not effectively managed. Although the number of track-caused accidents has decreased over time, the Federal Railroad Administration (FRA) continues to encourage railroads to achieve further reductions.

Role of the FRA

The primary duty of FRA's federal track safety inspectors, along with certified State inspectors, is to strategically monitor, inspect, and assess track conditions to determine whether a railroad is complying with federal safety standards. The FRA's federal track safety standards generally focus on four main areas:

- **Track Structure:** Rails, crossties, special track work (turnouts, bridge lift assemblies), tie plates, and rail fastening systems
- **Track Geometry:** Track gage, alignment, elevation, curvature, and track surface
- **Road Bed:** Ballast, drainage and vegetation (vegetation cannot obstruct signs and signals or impede wayside duties)
- **Track Inspection:** Frequency and quality of a railroad's inspection, special inspections, and recordkeeping

Track Inspection/Speed Requirements

Under FRA regulations, each railroad has primary responsibility to ensure its track meets or exceeds the federal safety standards. This includes railroad inspectors performing track inspections at specified minimum frequencies based on the class of track, the type of track, the annual gross tonnage operated over the track, and whether it carries passenger trains.

According to FRA Regulations:

- Track speed is determined by the class of track.
- Railroads can change the class of track (and thus increase or decrease the track speed) whenever it deems appropriate and without prior notification to, or approval by, the FRA.

Fra Track Safety Manual

Jessica J Manson

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

Fra Track Safety Manual:

Federal Register, 2014 Track Design Handbook for Light Rail Transit, 2012 TCRP report 155 provides guidelines and descriptions for the design of various common types of light rail transit LRT track The track structure types include ballasted track direct fixation ballastless track and embedded track The report considers the characteristics and interfaces of vehicle wheels and rail tracks and wheel gauges rail sections alignments speeds and track moduli The report includes chapters on vehicles alignment track structures track components special track work aerial structures bridges corrosion control noise and vibration signals traction power and the integration of LRT track into urban streets **Railroad Safety** United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Surface Transportation and Merchant Marine, 2005 **Wheel-Rail Interface Handbook** R. Lewis, U Olofsson, 2009-09-25 Many of the engineering problems of particular importance to railways arise at interfaces and the safety critical role of the wheel rail interface is widely acknowledged Better understanding of wheel rail interfaces is therefore critical to improving the capacity reliability and safety of the railway system Wheel rail interface handbook is a one stop reference for railway engineering practitioners and academic researchers Part one provides the fundamentals of contact mechanics wear fatigue and lubrication as well as state of the art research and emerging technologies related to the wheel rail interface and its management Part two offers an overview of industrial practice from several different regions of the world thereby providing an invaluable international perspective with practitioners experience of managing the wheel rail interface in a variety of environments and circumstances This comprehensive volume will enable practising railway engineers in whatever discipline of railway engineering infrastructure vehicle design and safety and so on to enhance their understanding of wheel rail issues which have a major influence on the running of a reliable efficient and safe railway One stop reference on the important topic of wheel rail interfaces Presents the fundamentals of contact mechanics wear fatigue and lubrication Examines state of the art research and emerging technologies related to wheel rail interface and its management Code of Federal Regulations, 2002 Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries **Code of Federal Regulation**, *The Code of Federal Regulations of the United States of America*, 2006 The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government Civil Engineering United States. Naval Facilities Engineering Command, 1981 *Report on the Railroad Technology Program, by the Secretary of Transportation to the President, the Senate, and the House of Representatives* United States. Department of Transportation, 1975 *Departments of Transportation, and Housing and Urban Development, and Related Agencies Appropriations for 2013* United States. Congress. House. Committee on Appropriations. Subcommittee on Transportation, Housing and Urban Development, and Related Agencies, 2012

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