

## LOCOMOTIVE CRASHWORTHINESS REQUIREMENTS

### Standard S-580

Adopted: 1989; Revised: 1994, 2001, 2005, 2008

#### 1.0 SCOPE

1.1 These specifications for crashworthiness enhancements cover requirements applicable to all new road-type locomotives, except for passenger-occupied vehicles, manufactured after December 31, 2008, for use on standard gauge track on North American railroads in revenue freight service or in commuter/passenger service.

1.2 The following locomotives are exempted from this standard:

- Locomotive not equipped with an operator's cab structure.
- Locomotive that is designated and marked in cab "Trail Only—Do Not Occupy (Except Hostlers)"

#### 2.0 PURPOSE

The primary purpose of these requirements is to minimize the potential for injuries and fatalities to train crews and others involved in the transportation of freight and passengers.

#### 3.0 BACKGROUND

This standard provides design requirements for locomotives with improved crashworthiness features. The design requirements were developed as enhancements to AAR S-580 (1989) by the Locomotive Crashworthiness Working Group of the Railroad Safety Advisory Committee (RSAC), a federally-chartered advisory committee. This Working Group was comprised of AAR member railroads, rail labor, locomotive manufacturers, the Federal Railroad Administration, and the National Transportation Safety Board. This standard has been approved for use by the Federal Railroad Administration under the locomotive crashworthiness requirements of 49 CFR Part 229, Subpart D.

#### 4.0 DEFINITIONS (PAGE 1 OF 2)

<b>Dual cab</b>	A locomotive design incorporating cab structures at each end (longitudinally) of the vehicle.
<b>Monocoque design locomotive</b>	A locomotive design where the shell or skin acts as a single unit with the supporting frame to resist and transmit the loads acting on the locomotive.
<b>Narrow-nose locomotive</b>	A locomotive with a short hood that spans substantially less than the full width of the locomotive.
<b>Permanent deformation</b>	The undergoing of a permanent change in shape of a structural member of a rail vehicle.
<b>Roof rail</b>	The longitudinal structural member at the intersection of the sidewall and the roof sheathing.
<b>Semi-monocoque design locomotive</b>	A locomotive design where the shell or skin acts, to some extent, as a single unit with the supporting frame to resist and transmit the loads acting on the locomotive.
<b>Skin</b>	The outer covering of a fuel tank and a rail vehicle. The skin may be covered with another coating of material such as fiberglass.

# Aar Manual Of Standards And Recommended Practices

**United States. Congress. House.  
Committee on Transportation and  
Infrastructure. Subcommittee on  
Railroads**

## **Aar Manual Of Standards And Recommended Practices:**

Manual of Standards and Recommended Practices Association of American Railroads,1984      *Code of Federal Regulations* ,1999 Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries      2017 CFR Annual Print Title 49 Transportation Parts 100 to 177 Office of The Federal Register,2017-07-01      **Manual of Standards and Recommended Practices, Section C-part III** Association of American Railroads. Mechanical Division,1981      The Code of Federal Regulations of the United States of America ,1996 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      **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      **Federal Register** ,2013

**Industrial Standardization and Commercial Standards Monthly** ,1940      **Code of Federal Regulations, Title 49, Transportation, PT. 100-177, Revised as of October 1, 2011** U S Office of the Federal Register,2012-01-20

**Proceedings of the ... IEEE/ASME Joint Rail Conference** ,2007      Design and Simulation of Rail Vehicles Maksym Spiryagin,Colin Cole,Yan Quan Sun,Mitchell McClanachan,Valentyn Spiryagin,Tim McSweeney,2014-05-13 Keep Up with Advancements in the Field of Rail Vehicle DesignA thorough understanding of the issues that affect dynamic performance as well as more inventive methods for controlling rail vehicle dynamics is needed to meet the demands for safer rail vehicles with higher speed and loads Design and Simulation of Rail Vehicles examines the field of      Transportation, Parts 100 to 185 ,2011-02-25 The Code of Federal Regulations is a codification of the general and permanent rules published in the Federal Register by the Executive departments and agencies of the United States Federal Government      *Code of Federal Regulations Title 49* National Archives and Records Administration Staff,2004 The Code of Federal Regulations is a

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Congress. House. Committee on Transportation and Infrastructure. Subcommittee on Railroads,1998     **Handbook of**

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