

13. APTA PR-IM-S-013-99, Rev. 1 Standard for Passenger Car Periodic Inspection and Maintenance

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Abstract: This standard sets intervals for the inspection and maintenance of passenger coaches.

Keywords: inspection intervals, maintenance intervals, passenger cars, passenger car maintenance, passenger car periodic inspection and maintenance

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Introduction

(This introduction is not a part of APTA PR-IM-S-013-99 Rev. 1, Standard for Passenger Car Periodic Inspection and Maintenance.)

This introduction provides some background on the rationale used to develop this standard. It is meant to aid in the understanding and application of this standard.

This standard describes the standard for periodic inspection and maintenance of passenger cars. It is intended for the following:

- a) Individuals or organizations that maintain passenger cars;
- b) Individuals or organizations that contract with others for the maintenance of passenger cars;
- c) Individuals or organizations that influence how passenger cars are maintained.

Participants

The American Public Transportation Association (APTA) greatly appreciates the contributions of the following individual(s), who provided the primary effort in the drafting of the mandatory safety *Standard for Passenger Car Periodic Inspection and Maintenance*.

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At the time that this standard was completed, the Passenger Rail Equipment Safety Standards (PRESS) Maintenance Committee included the following members:

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Table of Contents

1. Overview	13.4
1.1 Scope.....	13.4
1.2 Purpose.....	13.4
2. References	13.5
3. Definitions, abbreviations, and acronyms	13.6
3.1 Definitions.....	13.6
3.2 Abbreviations and acronyms.....	13.6
4. Frequency of conduct	13.6
Annex A (informative) Bibliography	13.8

APTA PR-IM-S-013-99, Rev. 1

Standard for Passenger Car Periodic Inspection and Maintenance

1. Overview

This safety standard is divided into 4 sections. Section 1 provides an overview of this recommended practice. Section 2 lists references that must be on hand and available for the implementation of this recommended practice (additional references that are useful in applying this recommended practice can be found in the bibliography in Annex A). Section 3 provides definitions, abbreviations, and acronyms that are either not found in other standards, or have been modified for use with this recommended practice. Section 4 describes the methodology used to determine the maintenance tasks to be performed and the frequency for the performances of these tasks.

1.1 Scope

This is a safety standard for performing periodic inspection and maintenance to passenger cars. It provides a set of inspection and maintenance tasks that shall be applied during the maintenance process.

The standard took effect January 1, 2000.

The scope and frequency of any task contained within this safety standard shall comply with all applicable federal, state, and local regulations.

Further, operating authorities may modify the inspection/maintenance tasks and the assigned frequencies contained within this safety standard, if they have supportable data to justify those changes. *APTA SS-I&M-014-99, Modification Methodology Standard for the Periodic Inspection and Maintenance of Passenger Cars*¹ may be used in this effort.

The American Public Transportation Association (APTA) recognizes the possibility that the periodic maintenance intervals required by this standard may be changed as a result of future changes to *49 CFR, Part 238, Passenger Equipment Safety Standards*. If discrepancies exist, APTA will convene the Passenger Rail Equipment Safety Standards (PRESS) Task Force to bring this standard in line with minimum federal requirements.

1.2 Purpose

This safety standard is meant to provide organizations with basic requirements to be performed as part of the periodic inspection and maintenance process of passenger coaches.

¹ For references in Italics, see Section 2.

2. References

This safety standard shall be used with the following publications. If the following publications are superseded by an approved revision, the revision shall apply.

APTA PR-IM-S-001-98, Rev. 1, Standard for Passenger Rail Equipment Battery System Periodic Inspection and Maintenance.

APTA PR-IM-S-003-98, Rev. 1, Standard for Passenger Rail Equipment Door System Periodic Inspection and Maintenance.

APTA PR-IM-S-004-98, Standard for Passenger Car Handbrake Periodic Inspection and Maintenance.

APTA PR-IM-S-005-98, Rev. 2, Standard for Passenger Compartment Periodic Inspection and Maintenance.

APTA PR-IM-S-006-98, Standard for Passenger Car Draft Gear Periodic Inspection and Maintenance.

APTA PR-IM-S-007-98, Rev. 1, Standard for Passenger Car Exterior Periodic Inspection and Maintenance

APTA PR-IM-S-008-98, Rev. 1, Standard for Electrical Periodic Inspection and Maintenance.

APTA SS-I&M-009-98, Standard for Passenger Car Tread Brake Shoe and Disc Brake Pad Periodic Inspection and Maintenance.

APTA PR-IM-S-010-98, Standard for Passenger Car Brake Disc Periodic Inspection and Maintenance.

APTA PR-IM-S-011-98, Standard for Passenger Car Tread Brake Unit and Brake Cylinder Periodic Inspection and Maintenance.

APTA PR-IM-S-012-98, Standard for Passenger Car Truck and Suspension Periodic Inspection and Maintenance

APTA PR-IM-S-014-99, Standard for Modification Methodology for the Periodic Inspection and Maintenance of Passenger Cars.

APTA PR-M-S-005-98 Rev. 1, Standard for Code of Tests for Passenger Car Equipment Using Single Car Testing Device.

APTA PR-M-RP-002-98, Recommended Practice for the Inspection and Maintenance of Type H-Tightlock Couplers

49 CFR, Part 238, Passenger Equipment Safety Standards, October 2000.

49 CFR, Part 229, Railroad Locomotive Safety Standards, Subpart C—Safety Requirements, Subsection, 229.73, Wheel Sets, October 2000.

49 CFR, Part 229, Railroad Locomotive Safety Standards, Subpart C—Safety Requirements, Subsection, 229.75, Wheel and Tire Defects, October 2000.

3. Definitions, abbreviations, and acronyms

3.1 Definitions

For the purposes of this recommended practice, the following terms and definitions apply:

3.1.1 periodic maintenance: The performance of selected inspection and maintenance tasks on systems or sub-systems. Regulatory agencies or the railroad may set the frequency of these actions. The frequency may be expressed as a function of time (i.e. days, weeks, or months) or of utilization (i.e., mileage, cycles, etc.)

3.1.2 default standard: Maximum interval for the performance of required periodic inspection and maintenance tasks.

3.2 Abbreviations and acronyms

APTA American Public Transportation Association
 CFR Code of Federal Regulations
 PRESS Passenger Rail Equipment Safety Standards

4. Frequency of conduct

The frequencies assigned within this safety standard shall be used as the default timelines in the absence of supportable data.

Each inspection listed in Table 1 shall be conducted at least annually.

Table 1—Annual inspections

Inspection and maintenance reference	System/sub-system to be inspected/maintained
APTA PR-IM-S-004-98	Handbrakes
APTA PR-M-S-005-98	Single car test

Each inspection listed in Table 2 shall be conducted at least once every 184 calendar days.

Table 2-Bi-annual inspections

Inspection & maintenance reference	System/sub-system to be inspected/maintained
APTA PR-IM-RP-001-98, Rev. 1	Battery system
APTA PR-M-RP-002-98	Couplers
APTA PR-IM-S-003-98, Rev. 1	Door systems
APTA PR-IM-S-005-98, Rev. 2	Passenger compartment
APTA PR-IM-S-006-98	Draft gear
APTA PR-IM-S-007-98, Rev. 1	Carbody exterior
APTA PR-IM-S-008-98, Rev.1	Electrical
APTA PR-IM-S-009-98	Tread brake shoes and disc brake pads
APTA PR-IM-S-010-98	Brake discs
APTA PR-IM-S-011-98	Tread brake units and brake cylinder
APTA PR-IM-S-012-98	Trucks and suspension
49 CFR, Parts 229.73 & 229.75	Wheels and bearings

Annex A

(informative)

Bibliography

[B1] Applicable state and local regulations.

[B2] Original equipment manufacturer (OEM) instructions.

[B3] Railroad maintenance instructions.

[B4] 29 CFR, Part 1910, Occupational Safety and Health Standards, Subpart P—Hand and Portable Powered Tools and Other Hand-Held Equipment, Subsection 1910.242 (a) Hand and Portable Powered Tools and Equipment, General—General Requirements.

[B5] 29 CFR, Part 1910, Subpart P, Subsection 1910.242 (b) Hand and Portable Powered Tools and Equipment, General—Compressed Air Used for Cleaning.

[B6] 49 CFR, Part 229, Railroad Locomotive Safety Standards.

[B7] 49 CFR, Part 231, Railroad Safety Appliance Standards.

[B8] 49 CFR, Part 239, Passenger Train Emergency Preparedness.