

5. APTA PR-IM-S-005-98, Rev. 2

Standard for Passenger Compartment Periodic Inspection and Maintenance

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Abstract: This standard contains minimum requirements for passenger compartment inspection and maintenance for new, remanufactured, and existing rail passenger equipment.

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INTRODUCTION:

(This introduction is not part of APTA PR-IM-S-005-98, Rev. 2, Standard for Passenger Compartment Periodic Inspection)

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

This standard describes the basic inspection and maintenance functions for passenger compartments on passenger coaches. It is intended for the following.

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

This standard is designed to help organizations incorporate safety considerations during the maintenance process.

This standard is intended to satisfy the following objectives.

- Incorporate safety considerations during the inspection and maintenance process;
- Identify those maintenance standards and inspection criteria, which provide a high level of passenger safety;
- Identify those maintenance standards and inspection criteria, which provide a high level of crew safety;
- Identify the skills and training requirements necessary for maintenance personnel to apply these standards.

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APTA PR-IM-S-005-98, Rev. 2

STANDARD FOR PASSENGER COMPARTMENT PERIODIC INSPECTION AND MAINTENANCE

1. Overview

This procedure establishes a standard for passenger compartment inspection and maintenance.

1.1 Scope

This standard is for passenger compartment inspection and maintenance within the Rail Industry for passenger cars. It is intended to be applied as applicable, for individual properties, in areas of cyclic inspection, and maintenance of passenger compartment.

1.2 Purpose

This standard is intended for use by rail properties to apply basic procedures for periodic inspection and maintenance of passenger compartments for rail passenger cars, with emphasis on maintenance of safety appliances and other safety critical systems.

These systems (if applicable) are essential in the safe operation of passenger rail cars.

2. References

The standard shall be used with the following publications. When the following publications are superseded by an approved revision the revision shall apply.

Applicable federal, state, and local regulations including, but not limited to:

49 CFR Part 239, Passenger Train Emergency Preparedness

APTA PR-PS-S-002-98, Rev. 2 Standard for Emergency Signage for Egress/Access of Rail Passenger Equipment

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

3. Frequency of conduct

The frequency of conduct of this task shall be as specified in and in compliance with the requirements of sections 4 and 5 of *APTA PR-IM-S-013-99, Rev. 1, Standard for Passenger Car Periodic Inspection and Maintenance*¹.

¹ For references in Italics, see Section 2.

4. Requirements and specific tasks.

CAUTION--Safely hazard

Verify that equipment is secured against uncontrolled movement before commencing inspection and maintenance procedures

4.1 Materials (no specific material required)

4.2 Tools

Standard tools carried by maintenance personnel are sufficient for this inspection task.

4.3 Safety/personal protective equipment

Personal protective equipment as required by the operating property shall be worn at all times in the

4.4 Training requirement

Operating properties and their contractors shall develop and execute training programs that equip employees with the knowledge and skills necessary to safely and effectively perform the tasks outlined in this standard.

4.5 Inspection and maintenance procedures

4.5.1 Passenger compartment

- a) Verify that all seat frames, seat locks, windows, tables and baggage racks are secure.
- b) Verify that flooring is free of slipping and tripping hazards.
- c) Priority seating for the disabled shall be inspected for proper securement and operation.
- d) Verify that all seats, walls, doors and doorways are secure and free of sharp edges.
- e) Inspect emergency windows for damage Verify that all handles and gaskets are properly in place. Test emergency windows consistent with the requirements of 49 CFR 239.107(b)
- f) Inspect interior handholds for proper clearance and that they are properly secured.

4.5.2 Emergency equipment

4.5.2.1 Fire extinguishers:

- a) Verify fire extinguishers are at proper locations.
- b) Inspect fire extinguisher securement.
- c) Check the seal on the extinguisher and verify that it is not missing or broken.
- d) Check gauge and verify that it is not damaged and that it displays the normal pressure.
- e) Check for various defects (hose, nozzle, corrosion to canister, and other visible damage).
- f) Update fire extinguisher tag (if applicable).
- g) Inspect enclosures for defects and damage.

4.5.2.2. Emergency Tools:

- a) Inspect emergency tools and replace as required.
- b) Inspect first aid kit and replace/replenish, if necessary.
- c) Verify emergency tools are properly secured in holder
- d) Verify emergency tool cover is properly secured, if applicable.

4.5.2.3. Stretcher (If Applicable):

- a) Check date on stretcher inspection card.
- b) Verify that the stretcher has not been removed from the seal plastic envelope and that the plastic has not been torn. If the plastic has been torn and/or there is indication that the stretcher has been removed from the envelope, perform the following procedure:
 - Open the stretcher and verify that the vinyl sheet is in serviceable condition.
 - Verify that the hinges are in good condition.
 - Inspect the wheel support bolts and verify that they are tight.
 - Place the wheels into the operational lock position. Verify that they become secured in this position and cannot collapse.
 - Place both legs into the lock or support position. Verify pivots move freely, but are not slack. Legs must lock into this position.
 - Wash the vinyl sheet -both sides- with an approved cleaning solution.
 - Dry the stretcher, remove all moisture.

- Collapse the leg and wheel assemblies and fold the stretcher in half. Verify components move freely and do not bind. If necessary use an approved lubricant at pivot joints.
- Place the stretcher in a plastic envelope and seal. Store the stretcher and verify that same is properly locked and secured in place.
- Supply a new signed and dated inspection tag.

c) Annually update inspection card.

4.5.2.4. Emergency Signage:

Inspect and verify that all emergency signage meets federal regulations, and APTA PR-PS-S-002-98, Rev. 2.

4.5.2.5. Low-Location Exit Path Marking (LLEPM) (if applicable)

Visually inspect system components of passive LLEPM system.

- a) Verify system components are intact.
- b) Verify system components are unimpaired by dirt, debris, or graffiti.

Annex A

(informative)

Bibliography

[B1] 49 CFR Part 238.305, 307

[B2] 49 CFR Part 223.15 - Safety Glazing Requirement

[B3] APTA PR-PS-S-004-99, Standard for Low-Location Exit Path Marking

[B4] APTA PR-E-S-013-99, Standard for Emergency Lighting Design for Passenger Cars