APTA STANDARDS DEVELOPMENT PROGRAM

Vision:

To be the leading standards development organization representative of the public transportation industry, pursuing safety, reliability, and efficiency improvements through developments and publication of standards and best practices.

Mission:

To bring together the world's leading experts in public transportation to organize, develop, implement and maintain standards that lead to safer and more efficient operation, provide better methods for system procurement, lower maintenance costs, and encourage design and operation innovation.

An introduction to the APTA standards program and a compendium of all published standards, recommended practices, and guidelines

June 2013

Contents

A Program of the American Public Transportation Association

APTA is a nonprofit international association of over 1,500 public and private member organizations including transit systems and commuter rail operators; planning, design, construction and finance firms; product and service providers; academic institutions, transit associations and state departments of transportation. APTA members serve the public interest by providing safe, efficient and economical transit services and products. Over ninety percent of persons using public transportation in the United States and Canada are served by APTA members.

Standards have become an important program activity at APTA and in the public transportation industry. APTA, through its policy and planning committees is responsible for developing and promulgating standards, and has played a major role in creating active working structures within the organization focused on the development of standards. Hundreds of industry volunteers serving on numerous working committees have developed hundreds of standards for bus, rail transit and commuter rail operations, maintenance, procurement and Intelligent Transportation Systems (ITS). These consensus based standards are leading to safer and more accessible systems, improved performance and lower costs. The program is continuing to expand into many new areas of critical importance to the industry.

Standards Development at APTA

APTA has been developing standards since 1995, releasing hundreds to date. Development of standards is guided by the Standards Development and Oversight Council (SDOC) and various Standards Policy and Planning Committees, following universally accepted policies of the American National Standards Institute (ANSI). APTA is recognized as a SDOC by the U.S. Department of Transportation (DOT), U.S. Department of Homeland Security (DHS), Transport Canada, Canadian Urban Transport Association (CUTA) and other SDOs such as IEEE, SAE, ITE and ASSHTO.

Standards development at APTA is supported by U.S. Federal Transit Administration (FTA), U.S. Transportation Security Administration (TSA), members of APTA and many others.

The SDOC was created to promote the use of standards in the public transportation industry and guide the standards development program. The Council, working in concert with existing APTA standards development policy and planning committees, provides top-level technical coordination and funding oversight. The council's specific charge is to:

- Establish priorities for standards programs at APTA
- Coordinate the standards development activities of APTA's modal groups such as rail, bus, safety, ADA, procurement, etc.
- Develop and manage the standards annual work plan and budget

Members of the SDOC are drawn from the chairs of APTA standing committees and augmented by representatives of the Federal Transit Authority (FTA) as ex-officio members.

The Policy and Planning Committees establish specific technical direction within modal groups through development of needs assessments, technical guidance of standards development, and overall management of standards development process and

promulgation. The Policy and Planning Committees retain official release authority for APTA standards.

What are APTA Standards?

APTA standards are documents developed and adopted by a consensus process that contain criteria, design requirements, measures of comparison, and best practices and/or processes. There are four types of documents: standards, recommended practices, guidelines and white papers. These documents and other supportive reports are required for safety or system interoperability issues.

Standards use collective wisdom to provide a path or paths to a desired outcome such as:

- the design of a simple component
- the design of an entire complex system
- the definition of a process or operation
- the steps to follow to perform a task
- guidance or recommendations based on industry best practices

Benefits of Standards

The APTA standards program was initiated at the request of federal safety oversight organizations in an effort to leverage industry expertise in developing standards to improve operating safety. In conducting their reviews, state and federal safety oversight organizations look first to industry safety standards to fulfill their regulatory needs. If industry standards are in place, effective and followed, the need to develop additional government safety regulations is minimized. Until APTA began a safety standards program, standards were lacking in the public transportation industry. Widely accepted consensus transit standards can therefore benefit public transportation with regard to minimization of federal regulations but also in several other important ways:

- improve safety of operations and services
- reduce operating and maintenance costs
- create a process where transit systems share best practices

- increase and improves transit system/supplier communication
- make development of procurement specifications easier and less costly
- make legal defense more effective in liability cases
- help states establish/improve safety oversight programs
- provide much needed guidance to new start transit systems
- create opportunities for reliability/efficiency improvements
- decrease training costs

How Can I Become Involved or Obtain Existing APTA Standards?

If you would like to know more about how to become involved in APTA standards development activities, contact any of the following APTA staff members:

- Contact the relevant APTA staff advisors shown on the following pages, or
- Jeff Hiott, Sr. Program Manager, Standards Program
  Telephone (202) 496-4881
  jhiott@apta.com

If you would like to obtain copies of existing APTA Standards, Recommended Practices or Guidelines log onto **www.apta.com**.

Following are standards developed and released in the major transportation modes of rail transit, commuter rail (PRESS), bus, security, ITS, training and sustainability.

Bus Transit Systems

Bus Brake & Chassis System
APTA Staff Advisor: Saahir Brewington - sbrewington@apta.com

The Brake and Chassis Systems Working Group focuses on the chassis, suspension system, and the undercarriage of the transit bus.

APTA-BTS-BC-RP-001-05: Recommended Practice for Transit Bus In-Service Brake System Performance Testing
▪ Published March 2005 *(Revision in process)*

APTA-BTS-BC-RP-002-05: Recommended Practice for Transit Bus Foundation Brake Lining Classification
▪ Published May 2009

APTA-BTS-BC-RP-003-07: Recommended Practice for Transit Bus Brake Shoe Rebuild
▪ Published May 2007 *(Revision in process)*

APTA-BTS-BC-RP-004-07: Recommended Practice for Transit Bus Front and Rear Axle S-Cam Brake Reline
▪ Published May 2007

APTA-BTS-BC-RP-005-10: Troubleshooting Common Transit Bus S-cam and Air Brake Complaints
▪ Published May 2007 *(Revision in process)*

Bus In-Plant Inspection

APTA Staff Advisor: Jeff Hiott - jhiott@apta.com

The Bus In-Plant Inspection Working Group develops documents designed to provide agency project management staff the flexibility to tailor inspections to each contracted manufacturer's specific vehicle design and manufacturing process.

APTA-BTS-II-RP-001-11: Recommended Practice: In-Plant Inspection for Bus Procurements
▪ Published March 2011

Bus Maintenance Facility Design

APTA Staff Advisor: Jeff Hiott - jhiott@apta.com

The Maintenance Facility Design Working Group was established to develop recommended guidelines for Transit Agencies who are looking to expand, renovate or build a new Bus Transit Facility.

APTA-BTS-BFD-RP-001-11: A&E Design for a Transit Operating and Maintenance Facility
▪ Published Sept 2011

Bus Maintenance Training

APTA Staff Advisor: Jeff Hiott - jhiott@apta.com

This Working Group is developing a maintenance training guidance to prepare for Transit Mechanic ASE Certification tests, as well as curriculums to help agencies train mechanics and technicians.

APTA-BTS-BMT-RP-001-10: Training Syllabus to Instruct/Prepare for the ASE Transit Bus HVAC Test
- Published Oct 2010

APTA-BTS-BMT RP-002-10: Training Syllabus Instruct for Transit Bus Transmission and Drivetrain Test
- Published Oct 2010

APTA-BTS-BMT RP-003-10: Training Syllabus Instructions for ASE Transit Bus Air Brake Systems Test
- Published Oct 2010

APTA-BTS-BMT RP-004-10: Training Syllabus Instructions for ASE Transit Bus Electrical/Electronics Test
- Published Oct 2010

APTA-BTS-BMT RP-005-10: Training Syllabus to Instruct/Prepare for the ASE Transit Bus Diesel Engines Test
- Published Oct 2010

Bus Operations and Safety

APTA Staff Advisor: Saahir Brewington - sbrewington@apta.com

Operations:

The Bus Operations & Bus Safety Working Group develops documents to offer guidance in operations and safety.

APTA-BTS-BO-RP-001-07: Recommended Practice for Transit Bus Operator Training
- Published 2007 *(This document was previously numbered as APTA-BT-RP-006)*

APTA-BTS-BO-RP-002-07: Recommended Practice for Transit Supervisor Training
- Published 2007 *(This document was previously numbered as APTA-BT-RP-006)*

APTA-BTS-BO-RP-003-09: Recommended Practice: Recruiting and Retaining Bus Operations Employees
- Published Dec 2009

APTA-BTS-BO-RP-004-09: Recommended Practice: Developing and Maintaining a Customer Service Culture
- Published Dec 2009

Safety:

APTA-BTS-BS-RP-001-05: Recommended Practice for Transit Bus Fire Safety Shutdown
- Published 2005 *(This document was previously numbered as APTA-BT-RP-008)*

APTA-BTS-BS-RP-002-07: Recommended Practice for Transit Bus Electrical System Requirements Related to Fire Safety
- Published June 2007

APTA-BTS-BS-RP-003-08: Recommended Practice for Installation of Transit Vehicle Fire Protection Systems
- Published June 2009

APTA-BTS-BS-RP-004-08: Recommended Practice for Transit Bus Fire/Thermal Incident Investigation
▪ Published June 2009

APTA-BTS-BS-RP-005-09: Recommended Practice for Reducing Driver-Controlled Distractions While Operating a Vehicle on Agency Time
▪ Published Dec 2009

APTA-BTS-BS-RP-006-09: Recommended Practice for Reducing Agency-Controlled Distractions While Operating a Vehicle on Agency Time
▪ Published Dec 2009

Bus Rapid Transit
APTA Staff Advisor: Jeff Hiott - jhiott@apta.com

The BRT Working Group developed documents to assist the industry as they look into BRT system design.

APTA-BTS-BRT-RP-001-10: Recommended Practice for BRT Branding, Imaging and Marketing
▪ Published March 2010

APTA-BTS-BRT-RP-002-10: Recommended Practice for Bus Rapid Transit Stations and Stops
▪ Published Oct 2010

APTA-BTS-BRT-RP-003-10: Recommended Practice for Designing Bus Rapid Transit Running Ways
▪ Published Oct 2010

APTA-BTS-BRT-RP-004-10: Recommended Practice for Bus Rapid Transit Service Design
▪ Published Oct 2010

APTA-BTS-BRT-RP-005-10: Recommended Practice for Implementing BRT Intelligent Transportation Systems
▪ Published Oct 2010

APTA-BTS-BRT-RP-007-10: Recommended Practice for Operating a Bus Rapid Transit System
▪ Published Oct 2010

Information Technology

APTA Staff Advisor: Lou Sanders - lsanders@apta.com

The IT Working Group develops documents that will assist transit operators in assessing the capabilities of the various types of cameras available today for use in CCTV systems in order to provide a consistent quality of imagery that is testable for compliance against prevailing industry standards.

APTA-IT-CCTV-RP-001-11: Selection of Cameras, Digital Recording Systems, Digital High-Speed Networks and Trainlines for Use in Transit-Related CCTV Systems
▪ Published June 2010

Transit Communications Interface Profiles (TCIP)

APTA Staff Advisor: Lou Sanders - lsanders@apta.com

TCIP is an APTA Standard that provides a library of information exchange building blocks, to allow transit agencies and transit suppliers to create standardized tailored interfaces. APTA has extended the TCIP Standards to include a Concept of Operations, Model Architecture, Dialog Definitions, and a rigorous, modular approach to conformance. TCIP deployment is enabled by a system of application tools. Training for deployers is available through the National Transit Institute. APTA TCIP development was sponsored by the US DOT Intelligent Transportation Systems Joint Program Office.

APTA-IT-TCIP-S-01- Rev 3.0.3: Transit Communications Interface Profile
▪ Published 2001

Universal Transit Fare System (UTFS)
APTA Staff Advisor: Martin Schroeder - mschroeder@apta.com

The UTFS Working Group develops documents to facilitate the process for the transit industry to develop revenue management standards, recommend practices and guidelines, as appropriate, through a broad-based consensus process. In turn, these documents provide industry guidance for the creation of an open architecture payment environment that promotes greater access and convenience to the public transportation network and enables integration of independent payment systems.

APTA-IT-UTFS-S-001-07: Part I - Introduction and Overview
▪ Published Jan 2007

APTA-IT-UTFS-S-002-06: Part II - Contactless Fare Media Data Format and Interface Standard
▪ Published Oct 2006

APTA-IT-UTFS-S-003-07: Part III - Regional Central System Interface
▪ Published Jan 2007

APTA-IT-UTFS-S-004-06: Part IV – Security Planning and Implementation Guidance
▪ Published Oct 2006

APTA-IT-UTFS-S-005-09: Part V - Compliance Certification and Testing
▪ Published Dec 2009

To apply these standards in a specification will *require* registration with APTA to obtain regional identification numbers. Please contact APTA's Martin Schroeder at mschroeder@apta.com for registration information.

Universal Transit Fare System Specifications and Reports

APTA-IT-UTFS-TR-001-04: Trends in Electronic Fare Media Technology
▪Published Feb 2004 *(This document was previously numbered as TR-UTFS-FMWG-001-04)*

APTA-IT-UTFS-TR-002-04: The Major Business Issues in Establishing and Operating Regional Transportation Payment Systems and Clearinghouses
▪Published Sept 2004 *(This document was previously numbered as TR-UTFS-BPWG-001-04)*

APTA-IT-UTFS-TR-003-05: Automatic Fare Collection System Planning and Implementation Guidelines
▪Published Nov 2005 *(This document was previously numbered as TR-UTFS-OPWG-001-05)*

Applying the Contactless Fare Media System (CFMS) Standard – Real World Training for Real Applications
▪Published March 2007

CFMS Case Study Worksheets

Passenger Rail Equipment Safety Standards (PRESS)

Construction & Structural
APTA Staff Advisor: Martin Schroeder - mschroeder@apta.com

The APTA Construction and Structural Working Group develops and maintains standards and recommended practices covering the required strength, construction materials and construction quality for passenger railroad equipment. The Working Group works closely with the Federal Railroad Administration to address vehicle crashworthiness safety concerns and to harmonize industry standards and Federal regulations. The Working Group also works closely with the Volpe Center to plan the Federal rail vehicle crashworthiness research program. The Working Group played a leading role in the development of a Crash Energy Management specification for commuter rail coaches. The Working Group's current tasks include development of standards for passenger work tables and for push-back couplers as well as developing further guidance for the procurement of vehicles with crash energy management features.

APTA-PR-CS-RP-001-98: Recommended Practice for Passenger Equipment Roof Emergency Access
▪ Published March 1999

APTA-PR-CS-S-002-98: Standard for Static Strength of Attachment of Major Equipment to the Car Body Structure of Railroad Passenger Equipment
▪ Published Mar 1999

APTA-PR-CS-RP-003-98: Recommended Practice for Developing a Clearance Diagram for Passenger Equipment
▪ Published March 1999

APTA-PR-CS-S-004-98-Rev 1: Standard for Austenitic Stainless Steel for Railroad Passenger Equipment
- Published Oct 2007

APTA-PR-CS-S-005-98: Standard for Car Body End Compressive Strength for Passenger Railroad Vehicles
- Published Mar 1999

APTA-PR-CS-S-006-98 – Rev 1: Standard for Attachment Strength of Interior Fittings for Passenger Railroad Equipment
- Published Sept 2005

APTA-PR-CS-S-007-98 – Rev 1: Standard for Fuel Tank Integrity for Non-Passenger Carrying Passenger Locomotives
- Published Jan 2008

APTA-PR-CS-S-008-98: Standard for Truck to Car Body Attachment Strength
- Published Mar 1999

APTA-PR-CS-S-010-98: Standard for Car Body Roof Strength for Railroad Passenger Equipment
- Published Mar 1999

APTA-PR-CS-S-011-99: Standard for Cab Crew Seating Design and Performance
- Published Mar 1999

APTA-PR-CS-S-012-02: Standard for Door Systems for New and Rebuilt Passenger Cars
- Published Jan 2003

APTA-PR-CS-S-015-99: Standard for Aluminum, Aluminum Alloys for Passenger Equip. Car Body Construction
- Published Mar 1999

APTA-PR-CS-S-016-99-Rev 2: Standard for Passenger Seats
- Published Oct 2010

APTA-PR-CS-S-018-13: Fixed Workstation Tables in Passenger Cars
- Published Mar 2013

APTA-PR-CS-RP-019-11: Pushback Couplers in Passenger Rail Equipment
- Published Mar 2012

APTA-PR-CS-S-020-03: Standard for Passenger Rail Vehicle Structural Repair
- Published Sept 2003

APTA-PR-CS-S-034-99-Rev 2: Standard for Design and Construction of Passenger Railroad Rolling Stock
- Published June 2006

Electrical

APTA Staff Advisor: Martin Schroeder - mschroeder@apta.com

The PRESS Electrical Working Group develops and maintains standards and recommended practices covering rail passenger vehicle electrical systems and components. The working Group has developed guidance documents covering wire, wiring, grounding and bonding, head end power, trainline power transmission, electromagnetic compatibility and battery systems.

APTA-PR-E-S-001-98: Standard for Insulation Integrity
▪ Reaffirmed June 2006

APTA-PR-E-RP-002-98: Recommended Practice for Wiring of Passenger Equipment
▪ Published Mar 1999

APTA-PR-E-RP-003-98: Recommended Practice for Load Testing of Diesel Engines
▪ Published Mar 1999

APTA-PR-E-RP-004-98: Recommended Practice for Gap and Creepage Distance
▪ Published Mar 1999

APTA-PR-E-S-005-98: Standard for Grounding and Bonding
▪ Reaffirmed Jun 2006

APTA-PR-E-RP-006-99: Recommended Practice for Diesel Electric Passenger Locomotive Dynamic Brake Control
▪ Published Mar 1999

APTA-PR-E-RP-007-98: Recommended Practice for Storage Batteries and Battery Compartments
▪ Published Mar 1999

APTA-PR-E-RP-009-98: Recommended Practice for Wire Used on Passenger Equipment
- Published Mar 1999

APTA-PR-E-S-010-98: Standard for the Development of an Electromagnetic Compatibility Plan
- Reaffirmed Jun 2006

APTA-PR-E-RP-011-98: Recommended Practice for Head End Power Load Testing
- Published Mar 1999

APTA-PR-E-RP-012-99: Recommended Practice for Normal Lighting System Design for Passenger Cars
- Published Mar 1999

APTA-PR-E-S-013-99 Rev 1: Standard for Emergency Lighting System Design for Passenger Cars
- Published Oct 2007

APTA-PR-E-RP-014-99: Recommended Practice for Diesel Electric Passenger Locomotive Blended Brake Control
- Published Mar 1999

APTA-PR-E-RP-015-99: Recommended Practice for Head End Power Source Characteristics
- Published Jan 2000

APTA-PR-E-RP-016-99: Recommended Practice for 480 VAC Head End Power System
- Published Jan 2000

APTA-PR-E-RP-017-99: Recommended Practice for 27-Point Control & Comm. Trainlines for Locomotives, Locomotive Hauled Equip.
- Published Jan 2000

APTA-PR-E-RP-018-99: Recommended Practice for 480 VAC Head End Power Jumper and Receptacle Hardware
▪ Published Jan 2000

APTA-PR-E-RP-019-99 Recommended Practice for 27-Point Jumper, Receptacle Hardware for Locomotives, Locomotive Hauled Equipment
▪ Published Jan 2000

Inspection & Maintenance

APTA Staff Advisor: Martin Schroeder - mschroeder@apta.com

The PRESS Inspection & Maintenance Working Group develops standards and recommended practices designed to help individuals and organizations incorporate technical and safety considerations during the inspection and maintenance process of commuter rail vehicles.

APTA-PR-IM-S-001-98 Rev 1: Recommended Practice for Battery System Periodic Inspection and Maintenance
- Published Sept 2003

APTA-PR-IM-RP-002-98: Recommended Practice for Rail Car Technical Documentation
- Published Mar 1999

APTA-PR-IM-S-003-98 Rev 1: Recommended Practice for Door System Periodic Inspection and Maintenance
- Published Sept 2003

APTA-PR-IM-S-004-98: Standard for Handbrake Periodic Inspection and Maintenance
- Published Mar 1999

APTA-PR-IM-S-005-98 Rev 2: Standard for Passenger Compartment Periodic Inspection and Maintenance
- Published Sept 2003

APTA-PR-IM-S-006-98: Standard for Draft Gear Periodic Inspection and Maintenance
- Published Mar 1999

APTA-PR-IM-S-007-98 Rev 1: Standard for Car Body Exterior Periodic Inspection and Maintenance
- Published Sept 2003

APTA-PR-IM-S-008-98 Rev 1: Standard for Electrical Periodic Inspection and Maintenance
- Published Jan 2003

APTA-PR-IM-S-009-98: Standard for Tread Brake Shoes and Disc Brake Pad Periodic Inspection and Maintenance
- Published Mar 1999

APTA-PR-IM-S-010-98: Standard for Disc Brake Periodic Inspection and Maintenance
- Published Mar 1999

APTA-PR-IM-S-011-98: Standard for Tread Brake Unit and Brake Cylinder Periodic Inspection and Maintenance.
- Published Mar 1999

APTA-PR-IM-S-012-98: Standard for Truck and Suspension Periodic I&M of Passenger Coaches
- Published Mar 1999

APTA-PR-IM-S-013-99 Rev 1: Standard for Periodic Inspection and Maintenance of Passenger Coaches
- Published Jan 2003

APTA-PR-IM-S-014-99: Standard for Modification Methodology for the Periodic Inspection and Maintenance
- Published Jan 2000

APTA-PR-IM-S-015-00: Standard for Inspection and Testing of Roller Bearings on Passenger Equipment after a Derailment
- Published Jan 2001

APTA-PR-IM-S-016-02: Standard for Pantograph Current Collection Equipment Periodic I&M
- Published Jan 2003

APTA-PR-IM-S-017-02: Standard for Third Rail Current Collection Equipment Periodic I&M
- Published Jan 2003

APTA-PR-IM-S-018-04: Standard for Baggage Car Periodic Inspection and Maintenance

- *(Development in process)*

Mechanical

APTA Staff Advisor: Martin Schroeder - mschroeder@apta.com

APTA-PR-M-RP-001-97: Recommended Practice for Air Connections Location and Configuration of, for Passenger Cars Equipped w/AAR Long Shank Tight Lock or Similar Couplers
- Published Mar 1999

APTA-PR-M-RP-002-98: Recommended Practice for the Inspection and Maintenance of Type H-Tightlock Coupler
- Published Mar 1999

APTA-PR-M-RP-003-98: Recommended Practice for the Purchase and Acceptance of Type H-Tightlock Couplers
- Published Mar 1999

APTA-PR-M-RP-004-98: Recommended Practice for Secondhand and Reconditioned Type H-Tightlock Couplers
- Published Mar 1999

APTA-PR-M-S-005-98 Rev 2.1: Standard for Code of Tests for Passenger Car Equipment Using Single Car Testing Device
- Published June 2012

APTA-PR-M-S-006-98 Rev 2: Standard for Parking Brakes for New Passenger Locomotives and Cars
- Published June 2007

APTA-PR-M-S-007-98: Standard for Conductor's Valve-New Passenger Car/MU Locomotives
- Published Mar 1999

APTA-PR-M-RP-008-98: Recommended Practice for Passenger Car Axle Design
- Published Mar 1999

APTA-PR-M-RP-009-98: Recommended Practice for New Truck Design
- Published Mar 1999

APTA-PR-M-RP-010-98: Recommended Practice for Derailment Investigation Reports
- Published Mar 1999

APTA-PR-M-S-011-99: Standard for Compressed Air Quality for Passenger Locomotive and Car Equipment
- Published Mar 1999

APTA-PR-M-S-012-99 Rev 1: Standard for the Manufacture of Wrought Steel Wheels for...Cars and Locomotives
- Published Jan 2003

APTA-PR-M-RP-013-06: Recommended Practice for Selection of Wheels for Passenger Applications
- Published Feb 2007

APTA-PR-M-S-14-06: Standard for Wheel Load Equalization of Passenger Railroad Rolling Stock
- Published June 2007

APTA-PR-M-S-15-06: Standard for Wheel Flange Angle for Passenger Equipment
- Published June 2007

APTA-PR-M-S-16-06: Standard for Safety Appliances for Rail Passenger Cars
- Published June 2007

APTA-PR-M-S-17-06: Standard for Definition and Measurement of Wheel Tread Taper
- Published June 2007

APTA-PR-M-S-18-10: Standard for Powered Exterior Side Door System Design for New Passenger Cars
- Published Feb 2011

Passenger System Standards and Recommended Practices

APTA Staff Advisor: Martin Schroeder - mschroeder@apta.com

The PRESS Passenger Systems Working Group develops and maintains standards and recommended practices covering the emergency features of passenger rail vehicles. In the past the Work Group has developed documents covering emergency signs, low level exit path marking, emergency communications and fire safety hazard analysis. The Work Group is currently working through the Federal Railroad Administration's Rail Safety Advisory Committee process to get some of these documents incorporated by reference into Federal regulations. In the future, the Working Group plans to develop performance standards for the rate of evacuation from a rail car.

APTA-PR-PS-S-001-98: Standard for Passenger Railroad Emergency Communications
▪ Published Mar 1999

APTA-PR-PS-S-002-98 Rev 3: Standard for Emergency Signage for Egress/Access of Passenger Railroad Equipment
▪ Published Oct 2007

APTA-PR-PS-S-003-98: Standard for Emergency Evacuation Units for Rail Passenger Cars
▪ Published March 2004

APTA-PR-PS-S-004-99 Rev 2: Standard for Low-Location Exit Path Marking
▪ Published Oct 2007

APTA-PR-PS-RP-005-00: Recommended Practice for Fire Safety Analysis of Existing Passenger Rail Equipment
▪ Published Jan 2001

Procurement Standards
APTA Staff Advisor: Fran Hooper - fhooper@apta.com

The Procurement Standards program develops documents that provide more effective and standardized procurement planning in order to facilitate the way transit agencies conducts procurements.

APTA-PROC-TC-WP-001-11: Technology Terms and Conditions
- Published June 2011 *(This document was previously numbered as APTA-PS-T&C-WP-001-11)*

APTA-PROC-TP-RP-007-13: The Process of Transit Procurement
- Published Mar 2013 *(This document was previously numbered as APTA-PMT-PS-RP-007-13)*

NOTE: In addition to these approved standards, APTA procurement and technical working groups have developed standard procurement guidelines for the purchase of buses and light rail vehicles. In light of the complexity of these standards and the various legal environments in which vehicle procurements take place in the transit industry, these standards were released for beta testing by the industry prior to their adoption. It is anticipated that the standard bus procurement guidelines will go through the formal APTA standards approval process in 2014 following a survey of the agencies that used the document in procuring buses and an evaluation of changes that the agencies and bus manufacturers feel would make them easier to use and enhance their value to the industry. A similar review of the standard light rail vehicle procurement guidelines will occur in the future. Both documents are available on the APTA website.

Standards Bus Procurement Guideline RFP
http://www.apta.com/resources/reportsandpublications/Pages/BusParatransit.aspx

Light Rail Vehicle Request for Proposals (RFP) Procurement Guidelines
http://www.apta.com/resources/reportandpublications/Pages/Rail.aspx

Rail Transit Systems

Vehicle Inspection and Maintenance
APTA Staff Advisor: Charles Joseph - cjoseph@apta.com

The APTA Rail Transit Vehicle Inspection Maintenance (VIM) Working Group develops and maintains standards and recommended practices covering the inspection and maintenance of all major vehicle subsystems and components and includes some vehicle design features subject to National Transportation Safety Board recommendations. The Working Group will also investigate developing standards covering emergency exits, emergency signs, low level exit path marking and emergency lighting on vehicles.

APTA-RT-VIM-S-001-02: Standard for Third Rail Current Collection Equipment Periodic Inspection and Maintenance
- Published Feb 2002 *(Revision in process)*

APTA-RT-VIM-S-002-02: Standard for Pantograph Current Collection Equipment Periodic Inspection and Maintenance
- Published Feb 2002 *(Revision in process)*

APTA-RT-VIM-S-003-02-Rev 2: Standard for Air Supply and Air Storage System Periodic Inspection and Maintenance
- Published Mar 2012

APTA-RT-VIM-S-004-02: Recommended Practice for Heating, Ventilation and Air Conditioning Periodic Inspection and Maintenance
- Published Feb 2002 *(Revision in process)*

APTA-RT-VIM-S-005-02: Recommended Practice for Door System Periodic Inspection and Maintenance
- Published Feb 2002 *(Revision in process)*

APTA-RT-VIM-S-006-02: Recommended Practice for Coupler System Periodic Inspection and Maintenance
- Published Dec 2012

APTA-RT-VIM-S-007-02-Rev 2: Standard for Friction Brake Equipment Periodic Inspection and Maintenance
- Published March 2012

APTA-RT-VIM-S-008-03: Recommended Practice for Rail Transit Vehicle Pre-Departure Inspection
- Published Sept 2002 *(Revision in process)*

APTA-RT-VIM-S-009-02: Recommended Practice for Battery Systems Periodic Inspection and Maintenance
- Published Sept 2002 *(Revision in process)*

APTA-RT-VIM-S-010-02: Recommended Practice for Electric Motor Periodic Inspection and Maintenance
- Published Sept 2002

APTA-RT-VIM-S-011-03: Recommended Practice for Rail Transit Vehicle Inspection and Maintenance Training and Qualifications
- Published Jun 2003

APTA-RT-VIM-S-012-03 Rev 2: Standard for Diesel Prime Mover Systems Periodic Inspections and Maintenance
- Published March 2012

APTA-RT-VIM-RP-013-03 Rev 2: Recommended Practice for Communication Systems Periodic Inspection and Maintenance
- Published March 2012

APTA-RT-VIM-S-014-02: Standard for Car-borne Cab Signal Control System Periodic Inspection and Maintenance
- Published Sept 2002

APTA-RT-VIM-RP-015-03: Recommended Practice for On-board Recording Equipment Inspection and Maintenance
- Published Jun 2003

APTA-RT-VIM-RP-016-03: Solid State Auxiliary Power Unit Periodic Inspection and Maintenance
▪ Published Sept 2003

APTA-RT-VIM-S-017-03 Rev. 1: Standard for Calibration of Inspection and Maintenance Tools
▪ Published Nov 2006

APTA-RT-VIM-RP-018-03: Recommended Practice for Propulsion Controls Periodic Inspection and Maintenance
▪ Published Sept 2003

APTA-RT-VIM-RP-019-03 Rev 1 Recommended Practice for Truck Systems Periodic Inspection and Maintenance
▪ Published Dec 2012

APTA-RT-VIM-S-20-10: Emergency Lighting System Design for Rail Transit Vehicles [Institute for Electrical and Electronic Engineers (IEEE) Standards for the IEEE Rail Transit Vehicle]
▪ Published June 2010

APTA-RT-VIM-S-021-10: Emergency Signage for Rail Transit Vehicles
▪ Published June 2006

APTA-RT-VIM-S-022-10: Low-Location Emergency Path Marking for Rail Transit Vehicles
▪ Published June 2010

APTA-RT-VIM-RP-023-12: Emergency Egress/Access for Rail Transit Vehicles
▪ Published Sept 2012

APTA-RT-VIM-RP-024-12: Comparison of RT Vehicle Reliability Using On-Time Performance
▪ Published March 2012

APTA-RT-VIM-S-025-13: Operator Protection Features for Rail Transit Vehicles
- *(Due for publication in 2013)*

APTA-RT-VIM-RP-026-12: Rail Transit Vehicle Passenger Emergency Systems
- Published Dec 2012

Rail Grade Crossings

APTA Staff Advisor: Charles Joseph - cjoseph@apta.com

The Rail Transit Rail Grade Crossing Working Group develops and maintains standards and recommended practices covering rail transit system highway-rail grade crossings. The Working Group has developed guidance for warning system design, warning system inspection and maintenance, public awareness education and safety assessment of new grade crossing designs.

APTA-RT-RGC-S-001-02 Rev 1: Standard for Rail Transit System Highway-Rail Grade Crossing Inspection and Maintenance
- Published Dec 2005

APTA-RT-RGC-RP-002-02 Rev 1: Recommended Practice for Rail Transit Grade Crossing Public Education and Rail Trespass Prevention
- Published Dec 2005

Annex B: Recommended Practice for Rail Transit Grade Crossing Public Education and Rail Trespass Prevention
- Published July 2004 as an annex to APTA-RT-RGC-RP-002-02

Annex C: Recommended Practice for Rail Transit Grade Crossing Public Education and Rail Trespass Prevention
- Published July 2004 as an annex to APTA-RT-RGC-RP-002-02

APTA-RT-RGC-RP-003-03 Rev 3: Recommended Practice for Rail Grade Crossing Safety Assessment
- Published Dec 2005

APTA-RT-RGC-S-004-03 Rev 2: Standard for Rail Transit Grade Crossing Warning Systems
- Published Feb 2007

Operating Practices

APTA Staff Advisor: Charles Joseph - cjoseph@apta.com

The Rail Transit Operating Practices Working Group develops and maintains standards and recommended practices covering a wide range of rail transit system operating practices, such as documents covering rulebooks, investigating accidents, emergency management, operations control centers, safety of train operations, training for station and train operations personnel and right-of-way safety.

APTA-RT-OP-S-001-02 Rev 2: Standard for Rulebook Introduction and Authority
▪ Published March 2012

APTA-RT-OP-S-002-02-Rev 2: Standard for Accident/Incident Investigation
▪ Published March 2012

APTA-RT-OP-S-003-02 Rev 1: Standard for Safe Operations in Yards
▪ Published Sept 2012

~~**APTA-RT-OP-S-004-03:** Standard for Work Zone Safety~~
~~▪ Published June 2003~~ *(This document is withdrawn and its contents incorporated into Standard #16: Roadway Worker Protection Program Requirements)*

APTA-RT-OP-S-005-03-Rev 2: Standard for Operations Control Centers
▪ Published March 2012

APTA-RT-OP-S-006-03-Rev 2: Standard for Rail Transit Signals Operating Rules
▪ Published Dec 2012

APTA-RT-OP-S-007-04: Standard for Rail Transit System Emergency Management
▪ Published June 200 *(Revision in process)*

APTA-RT-OP-RP-008-04: Recommended Practice for Rail Transit System Customer Relations *(Revision in process)*
- Published June 2004

APTA-RT-OP-RP-009-04: Standard for Rail Transit System Station Procedures
- Published June 2004 *(Revision in process)*

~~**APTA-RT-OP-S-010-03:** Standard for Contractor's Responsibility for Right of Way Safety~~
~~- Published June 2004~~ *(This document is withdrawn and its contents incorporated into Standard #16: Roadway Worker Protection Program Requirements)*

APTA-RT-OP-S-011-10: Standard for Rule Compliance
- Published June 2010

APTA-RT-OP-S-012-04: Standard for Rail Transit System Train Operations Safety Program
- Published June 2004 *(Revision in process)*

APTA-RT-OP-S-013-03: Standard for Training of Rail Operations and Station Operations Personnel
- Published June 2004 *(Revision in process)*

APTA-RT-OP-S-014-04: Standard for Operating Personnel Reporting to Work
- Published June 2004 *(Revision in process)*

APTA-RT-OP-S-015-09: Standard for Train Operator Hours of Service Requirements
- Published Jan 2009

APTA-RT-OP-S-016-11: Roadway Worker Protection Program Requirements
- Published Nov 2011

APTA-RT-OP-S-017-11: Electronic Device Distraction Policy
- Published Nov 2011

APTA-RT-OP-S-018-12: Fitness for Duty (FFD) Program
Requirements
▪ Published Dec 2012

APTA-RT-OP-S-019-13: Transit Operating Supervisor Program
Requirements
▪ *(New Document - Development in process)*

APTA-RT-OP-S-020-13: Rail Transit Track Allocation Program
Requirements
▪ *(New Document - Development in process)*

Fixed Structures Inspection and Maintenance

APTA Staff Advisor: Charles Joseph - cjoseph@apta.com

The Rail Transit Fixed Structures Working Group develops and maintains standards and recommended practices covering rail transit system infrastructure. The Working Group has developed documents covering the inspection and maintenance of bridges, tunnels, stations, yards, shops, track power distribution systems and signal systems

APTA-RT-FS-S-001-02: Standard for Transit Structure Inspection and Maintenance
▪ Published Sept 2002

APTA-RT-FS-S-002-02: Standard for Transit Track Inspection and Maintenance
▪ Published Sept 2002

APTA-RT-FS-S-003-02: Standard for Station, Shop and Yard Inspection and Maintenance
▪ Published Sept 2002

APTA-RT-FS-S-004-03 Rev 1: Standard for Traction Electrification Substation Inspection and Maintenance
▪ Published Oct 2004

APTA-RT-FS-S-005-03 Rev 1: Standard for Traction Electrification Stray Current/Corrosion Control Equipment I&M
▪ Published Sept 2003

APTA-RT-FS-S-006-03 Rev 1: Standard for Traction Electrification Distribution System Inspection and Maintenance
▪ Published Sept 2003

~~**APTA-RT-FS-RP-007-02:** Heavy Duty Escalator Design Guidelines~~
~~▪ Published July 2004~~ *(This document has been renumbered to APTA-RT-EE-RP-001-02 Rev 2 and moved under Elevators and Escalators section – page 44)*

APTA-RT-FS-S-008-03: ~~Heavy Duty Elevator Design Guidelines~~
~~▪ Published July 2004~~ (*This document has been renumbered to APTA-RT-EE-RP-002-03 Rev 2 and moved under Elevators and Escalators section – page 44*)

Streetcar
APTA Staff Advisor: Charles Joseph - cjoseph@apta.com

APTA-RT-ST-GL-001-13: Modern Streetcar Vehicle Guidelines
▪ Published March 2013

Signals and Communications Inspection and Maintenance

APTA Staff Advisor: Lou Sanders - lsanders@apta.com

APTA-RT-SC-RP-001-02: Recommended Practice for Wayside AC Signal Power System Inspection and Testing
- Published Sept 2002

APTA-RT-SC-RP-002-02: Recommended Practice for Wayside DC Signal Power System Inspection and Testing
- Published Sept 2002

APTA-RT-SC-RP-003-02: Recommended Practice for Signal System Snow Melting Equipment Inspection and Testing
- Published Sept 2002

APTA-RT-SC-S-004-02: Standard for Approach Locking Tests
- Published Sept 2002

APTA-RT-SC-S-005-02: Standard for Route Locking Tests
- Published Sept 2002

APTA-RT-SC-S-006-02: Standard for Time Locking Tests
- Published Sept 2002

APTA-RT-SC-RP-007-03: Recommended Practice for Presence Detector Inspection and Maintenance
- Published Jan 2004

APTA-RT-SC-RP-008-03: Recommended Practice for Train-to-Wayside Communication System Inspection and Testing
- Published Jan 2004

APTA-RT-SC-S-009-03: Standard for Audio Frequency Track Circuit Inspection and Maintenance
- Published Jan 2004

APTA-RT-SC-S-010-02: Standard for Traffic Locking Tests
- Published Sept 2002

APTA-RT-SC-S-011-03: Standard for Cable Plant System Inspection and Testing
- Published Jan 2004

APTA-RT-SC-S-012-03: Standard for CCTV Inspection, Testing and Maintenance
- Published June 2003

APTA-RT-SC-RP-013-03: Recommended Practice for Passenger Information System Inspection and Maintenance
- Published June 2003

APTA-RT-SC-RP-014-03: Recommended Practice for Fiber Optic Multiplexer (FOM) Inspection and Maintenance
- Published June 2003

APTA-RT-SC-S-015-03: Standard for Emergency Telephone and Passenger Assistance Device I&M
- Published June 2003

APTA-RT-SC-RP-016-03: Recommended Practice for Private Branch Exchange (PBX) Systems and Equipment Inspection and Testing
- Published Jan 2004

APTA-RT-SC-RP-017-03: Recommended Practice for Signal Equipment Room Inspection and Maintenance
- Published Jan 2004

APTA-RT-SC-RP-018-03: Recommended Practice for Vented Standby Battery/Un-Interruptible Power Supply (UPS) I&M
- Published Jan 2004

APTA-RT-SC-S-019-03: Standard for AC Ground Detection System Equipment Inspection and Maintenance
▪ Published Jan 2004

APTA-RT-SC-S-020-03: Standard for DC Ground Detection System Equipment Inspection and Maintenance
▪Published Jan 2004

APTA-RT-SC-S-021-03: Standard for Electric Train Stop Mechanism Inspection and Maintenance
▪Published Jan 2004

APTA-RT-SC-S-022-03: Standard for Electro-Pneumatic Train Stop Mechanism Inspection and Maintenance
▪Published Jan 2004

APTA-RT-SC-S-023-03: Standard for Local Control Panel Inspection and Maintenance
▪Published Jan 2004

APTA-RT-SC-S-024-03: Standard for Electric Switch Machine Inspection and Maintenance
▪Published Jan 2004

APTA-RT-SC-S-025-03: Standard for Electro-Pneumatic Switch Machine Inspection and Maintenance
▪Published Jan 2004

APTA-RT-SC-S-026-03: Standard for Hand Operated Switch Machine Inspection and Maintenance
▪Published Jan 2004

APTA-RT-SC-S-027-03: Standard for Switch Inspection and Obstruction Tests
▪Published Jan 2004

APTA-RT-SC-S-028-03: Standard for Vital Relay Tests
▪Published Jan 2004

APTA-RT-SC-S-029-03: Standard for Wayside Inductive Loop
Inspection and Testing
▪Published Jan 2004

APTA-RT-SC-RP-030-03: Recommended Practice for Non-Vital
Processor-Based Systems Inspection, Testing and Configuration
Control
▪Published Jan 2004

APTA-RT-SC-RP-031-03: Recommended Practice for Signal
Maintenance Personnel Qualifications and Training
▪ Published Jan 2004

APTA-RT-SC-RP-032-03: Recommended Practice for Voice/Data
Carrier Transmission System Inspection and Maintenance
▪Published Jan 2004

APTA-RT-SC-RP-033-03: Recommended Practice for Wayside Signal
Equipment Inspection
▪Published Jan 2004

APTA-RT-SC-S-034-03: Standard for Supervisory Control and Data
Acquisition (SCADA) System Inspection
▪Published Jan 2004

APTA-RT-SC-S-035-03: Standard for Vital Processor-Based System
Inspection, Testing and Configuration. Control
▪Published Jan 2004

APTA-RT-SC-S-036-03: Standard for Wayside Signal Inspection and
Testing
▪Published Jan 2004

APTA-RT-SC-RP-037-03: Recommended Practice for Signal and Communication System Configuration Control
▪Published Jan 2004

APTA-RT-SC-RP-038-03: Recommended Practice for Signal System Event Recorders and Data Logging Equipment I&M
▪Published Jan 2004

APTA-RT-SC-RP-039-03: Recommended Practice for Yard Page/Intercom System Inspection and Testing
▪Published Jan 2004

APTA-RT-SC-S-040-03: Standard for AC Track Circuit Inspection and Maintenance
▪Published Jan 2004

APTA-RT-SC-S-041-03: Standard for Interlocking Inspection
▪Published Jan 2004

APTA-RT-SC-S-042-03: Standard for Fire Detection System Inspection and Testing
▪Published Jan 2004

APTA-RT-SC-S-043-03: Standard for Impedance Bond Inspection and Maintenance
▪Published Jan 2004

APTA-RT-SC-S-044-03: Standard for Wayside Intrusion Detection System Inspection and Testing
▪Published Jan 2004

APTA-RT-SC-RP-045-03: Recommended Practice for Signal Equipment Room Grounding System Inspection and Testing
▪Published Jan 2004

APTA-RT-SC-RP-046-03: Recommended Practice for Radio Communication System Inspection and Testing
▪ Published Jan 2004

Elevators and Escalators

APTA Staff Advisor: Charles Joseph – cjoseph@apta.com

APTA-RT-EE-RP-001-02 Rev 2: Heavy-Duty Transportation System Escalator Design Guidelines
- Published 2011 *(This document was previously under Fixed Structures Section as APTA-RT-RP-FS-007-02 Revised 2011)*

APTA-RT-EE-RP-002-03 Rev 2: Heavy Duty Transportation System Elevator Design Guidelines
- Published Jan 2004 *(This document was previously under Fixed Structures Section as APTA-RT-RP-FS-008-03)*

APTA-RT-EE-RP-003-04: Mid to High Rise, Heavy Duty Transportation System Traction Elevator Design Guideline
- Published Sept 2004

APTA-RT-EE-RP-004-02 Rev 1: Heavy Duty Machine-Room-Less Elevator (MRL) Design Guidelines
- Published June 2006 *(This document was previously under Fixed Structures Section as APTA-RT-RP-FS-007-02)*

APTA-RT-EE-RP-005-04: Heavy Duty, Transportation System Moving Walk Design Guideline
- Published Aug 2003

Rail Maintenance Training

APTA Staff Advisor: Charles Joseph – cjoseph@apta.com

The Transportation Learning Center has worked cooperatively with APTA, transit unions and transit agencies across the country on a project to develop proposed transit industry training standards for four high-skill transit rail maintenance occupations. Working over the past several years, joint committees from transit rail operating properties, including both labor and management subject matter experts, agreed on proposed national training standards for the skilled maintenance occupations of transit elevator/escalator technician, rail vehicle mechanic, signals maintainer and traction power technician.

APTA RT-RMT-RP-001-10: Rail Vehicles Maintenance Training Standards
▪ Published June 2010

APTA RT-RMT-RP-002-10: Rail Signals Maintenance Training Content
▪ Published June 2010

APTA RT-RMT-RP-003-10: Elevator and Escalator Maintenance Training Guidelines Standards
▪ Published June 2010

APTA RT-RMT-RP-004-10: Traction Power Maintenance Training Standards
▪ Published June 2010

Security for Transit Systems

Control & Communications Security
APTA Staff Advisor: Samantha Smith – ssmith@apta.com

The Control and Communications Cyber Security Work Group develops APTA standards for rail system control and communications security.

This Work Group published Part 1 of the APTA Recommended Practice "Securing Control and Communications Systems in Transit Environments" in 2010.

APTA SS-CCS-RP-001-10: Recommended Practice for Securing Control and Communications Systems in Transit Environments

Part 1: Elements, Organization and Risk Assessment/ Management
▪ Published July 2010

Part 2: Defining a Security Zone Architecture for Rail Transit and Protecting Critical Zones
▪ *(New Document - Development in process)*

Security Emergency Management

APTA Staff Advisor: Saahir Brewington - sbrewington@apta.com

The development of a transit industry standard for emergency preparedness drills and exercises has been determined to be a critical effort within the overall APTA Security Standards development program. It is vitally important to establish formal procedures to operationally address critical events, but the effectiveness of those procedures can only be determined by drills and exercises or through real-life situations. Fortunately, over recent years, there have been many valuable resources guidance documents that have been developed on this subject and these resources will be an important resource to the Working Group on Emergency Preparedness Drills and Exercises.

APTA SS-SEM-S-001-08 Rev 1: Recommended Practice for a Continuity of Operations Plan
▪ Published April 2013

APTA SS-SEM-RP-002-08: Recommended Practice for First Responder Familiarization of Transit Systems
▪ Published Sept 2008

APTA SS-SEM-S-003-08 Rev 1: Recommended Practice for Security & Emergency Management Aspects of Special Event Service
▪ Published April 2008

APTA SS-SEM-S-004-09: Recommended Practice for General Guidance on Transit Incident Drills and Exercises
▪ Published April 2013

APTA SS-SEM-S-005-09 Rev 1: Recommended Practice: Developing a Contagious Virus Response Plan
▪ Published April 2013

APTA SS-SEM-S-006-09 Rev 1: Recommended Practice for Shelter of Transit Vehicles and Nonrevenue Equipment during Emergencies
- Published April 2013

APTA SS-SEM-RP-007-09: Recommended Practice for Creating an Alternate or Backup OCC
- Published Dec 2009

APTA SS-SEM-RP-008-09: Recommended Practice for Safe Mail and Package Handling
- Published Dec 2009

APTA SS-SEM-RP-009-09: Recommended Practice for Emergency Communication Strategies for Transit Agencies
- Published Dec 2009

APTA SS-SEM-RP-011-09: Recommended Practice: Participating in Mutual Aid
- Published Dec 2009

APTA SS-SEM-RP-012-09: Recommended Practice for Responding to Threat Condition Levels
- Published Dec 2009

APTA SS-SEM-WP-013-10: White Paper: Operational Strategies for Emergency Smoke Ventilation in Tunnels
- Published March 2010

Security Infrastructure

APTA Staff Advisor: David Hahn - dhahn@apta.com

The focus of the Transit Security Infrastructure Working Group is to develop industry standards for transit related infrastructure. Transit infrastructure is defined as passenger, maintenance and operations facilities, and their related assets; rights-of-way, including tunnels, elevated structures, and bridges; fixed assets, such as track, signals, traction power substations, interlocking, fencing, and lighting.

Documents are reviewed every two years.

APTA SS-SIS-RP-001-10: Recommended Practice for Security Lighting for Transit Passenger Facilities
- Published Oct 2009

APTA SS-SIS-RP-002-10: Recommended Practice for Security Lighting for Nonrevenue Transit Facilities
- Published Oct 2009

APTA SS-SIS-RP-003-10: Recommended Practice for Fencing Systems to Control Access to Transit Facilities
- Published Oct 2009

APTA SS-SIS-RP-004-10: Recommended Practice for Chain Link, Mesh, or Woven Metal Fencing Systems to Control Access
- Published Feb 2010

APTA SS-SIS-RP-005-10: Recommended Practice for Gates to Control Access to Revenue and Nonrevenue Transit Facilities
- Published Feb 2010

APTA SS-SIS-RP-006-10: Recommended Practice for Ornamental Fencing Systems to Control Access at Transit Facilities
- Published Jan 2010

APTA SS-SIS-RP-007-10: Recommended Practice for Crime Prevention through Environmental Design (CPTED)
- Published June 2010

APTA SS-SIS-RP-008-10: Recommended Practice for Bus Stop Design and Placement Security Considerations
- Published June 2010

APTA-SS-SIS-RP-009-12: Recommended Practice: Anti-Vehicle Barriers for Public Transit
- Published Dec 2012

APTA-SS-SIS-S-010-13: Security Program Considerations for Public Transit Standard
- Published March 2013

APTA-SS-SIS-RP-011-13: Recommended Practice for Security Planning for Public Transit
- Published March 2013

APTA-SS-SIS-RP-012-13: Recommended Practice for Security Operations for Public Transit
- Published March 2013

APTA-SS-SIS-RP-013-13: Recommended Practice for Physical Security for Public Transit
- Published March 2013

APTA-SS-SIS-WP-014-13: White Paper for Trash and Recycling Receptacles for Transit Facilities
- Published March 2013

APTA-SS-SIS- RP-XXX-13: Equipment and Technology for Public Transit
- *(Development in process)*

Security Risk Management

APTA Staff Advisor: Saahir Brewington – sbrewington@apta.com

APTA SS-SRM-RP-001-09- Rev. 1: Recommended Practice for Security and Emergency Preparedness Plan (SEPP)
▪ Published March 2012

APTA SS-SRM-WP-002-10: White Paper on Random Inspections of Carry-On Items in Transit Systems
▪ Published June 2010

APTA SS-SRM-RP-003-09: Recommended Practice for Conducting Nonrevenue Vehicle Security Inspections
▪ Published Oct 2009

APTA SS-SRM-RP-004-11: Recommended Practice for Conducting Background Investigations
▪ Published Feb 2011

APTA SS-SRM-RP-005-12: Security Awareness Training for Transit Employees
▪ Published March 2012

APTA SS-SRM-RP-006-11: Random Counterterrorism Measures on Transit Systems
▪ Published March 2011

APTA-SS-SRM-RP-007-12: Recommended Practice for Recognizing and Responding to Unattended Packages, Objects and Baggage
▪ Published Dec 2012

APTA-SS-SRM-WP-008-13: White Paper on Sensitive Security Information Protocols for Transit Systems
▪ *(Development in process)*

APTA SS-SRM-RP-009-09: Recommended Practice for Identifying Suspicious Behavior in Mass Transit
▪ Published Oct 2009

APTA-SS-SRM-RP-010-13: Recommended Practice for Public Security Awareness Programs
- *(Development in process)*

APTA SS-SRM-RP-012-09: Recommended Practice for Conducting Revenue Vehicle Security Inspections
- Published Oct 2009

Sustainability & Urban Design Standards for Transit Systems

Climate Change
APTA Staff Advisor: Kyle Bell – kbell@apta.com

This working group focuses on planning for and measuring the impacts of climate change and greenhouse gas emissions. Its publications explains how to measure and report to the APTA Sustainability Commitment. These publications are of interest to executives, Sustainability Managers, and those that are interested in how to integrate the transit agency within a wider environmental, social, and economic context.

APTA SUDS-CC-RP-001-09: Quantifying Greenhouse Gas Emissions from Transit
- Published Aug 2009

APTA SUDS-CC-RP-002-11: Recommended Practice: Guidelines for Climate Action Planning
- Published March 2011

APTA-SUDS-CC-RP-003-12: Recommended Practice: Quantifying and Reporting Transit Sustainability Metrics
- Published June 2012

APTA SUDS-CC-RP-004-11: Recommended Practice: Transit Sustainability Guidelines
- Published March 2011

Urban Design

APTA Staff Advisor: Nicole DuPuis – ndupuis@apta.com

The Urban Design working group is developing standards, guidelines and best practices that can serve as tools for multiple audiences including transit agencies, local jurisdictions, and developers. The program has four goals: Build sustainable communities by integrating transit service into existing and new neighborhoods, corridors and regions; Increase transit ridership by more effectively linking transit service with development; Improve transit efficiency by integrating transit service and investments with infrastructure improvements and land development; and conserve natural resources by development patterns and communities that require less land for development, make transit operations more efficient, and reduce the demand for fossil fuels to meet energy needs. These goals require a holistic approach for planning for land use and transportation that takes into account current and future needs of communities, weighs fairly the potential tradeoffs for multiple stakeholder groups, and depends on both transit and surrounding communities striving to be good neighbors.

APTA SUDS-UD-RP-001-09: Recommended Practice: Defining Transit Areas of Influence
▪ Published Dec 2009

APTA SUDS-UD-RP-002-09: Recommended Practice: Forming Partnerships to Promote TOD and Joint Development
▪ Published Dec 2009

APTA SUDS-UD-RP-003-11 Rev 1: Recommended Practice: Why Design Matters for Transit
▪ Published March 2013

APTA SUDS-UD- RP-005-12: Recommended Practice: Design of On-street Transit Stops and Access from Surrounding Areas
▪ Published March 2012

APTA-SUDS-UD-RP-006-12: Recommended Practice: Transit Agency Partnerships to Improve Urban Design and Enhance Service Effectiveness
- Published Sept 2012

APTA-SUDS-UD-RP-XXX-13: Integrating Art into Capital Projects
- *(Development in process)*

Technical Specifications

Crash Energy Management Specification – Commuter Rail

APTA Staff Advisor: Martin Schroeder - mschroeder@apta.com

The American Public Transportation Association, Federal Railroad Administration, Federal Transit Administration, and Metrolink cooperated to develop a purchase specification for commuter rail cab cars equipped with crash energy management features

Crash Energy Management has been defined as a strategy for improved occupant survivability during a collision. Designs using this strategy include sacrificial crush zones at the ends of the cars and other unoccupied spaces.

The following there were sections from a document that was developed to address specific crash energy management issues and are included here for reference purposes:

- Crash Energy Management--Sections 1-19
- Crash Energy Management--Section 20
- Crash Energy Management Drawings

American Public Transportation Association
1666 K Street, NW, Suite 1100
Washington, DC 20006-1215, USA