Lead the Way

APTA Transit Standards Development

“BUS RAPID TRANSIT”
To develop, implement and maintain standards, recommended practices and design guidelines to achieve safety, reliability and efficiency in transit system design and operation.
Standards use collective wisdom to provide a path to a desired outcome with a means to measure success.

Standards are developed using a consensus based process patterned after the process required by the American National Standards Institute to certify Standards Development Organizations.

APTA’s Standards include:
- Standards
- Recommended Practices
- Guidelines
- White Papers
APTA Standards Program is recognized by:

– American National Standards Institute (ANSI)
– Department of Transportation (DOT)
  • Joint Program Office (JPO)
  • Federal Transit Administration (FTA)
  • Federal Railroad Administration (FRA)
– Department of Homeland Security (DHS)
  • Transportation Security Administration (TSA)
– Transport Canada
– Canadian Urban Transport Association (CUTA)
– Other SDO’s, e.g., IEEE, SAE, ITE, AASHTO
Statistics: APTA’s Standards Program

- Voluntary Consensus Standards Process
- Over 500 Volunteer Participants
- Over 20 Active Standards Development Committees
APTA Standards are developed using a consensus based process patterned after the process required by ANSI

- a balanced representation of interested parties;
- a required public comment period;
- a formal process to respond to comments;
- an appeal procedure;
- a balloting group broadly representative of the industry;
- a consensus, defined as a super-majority of the balloting group; and
- a formal way to respond to requests for interpretations of or changes to the standard
Current Standards Efforts

**Commuter Rail (PRESS)**
- Vehicle Construction
- Vehicle Maintenance
- Inspection & Maintenance Training
- Passenger Emergency Systems
- Mechanical Systems

**Rail Transit**
- Operating Practices
- Fixed Structures
- Grade Crossings
- Vehicle Inspections
- Crash Worthiness
- Standard Rail Technical Specifications

**Bus**
- Brake Systems/Suspension
- Passenger Environment
- Power Train
- Safety
- Electronics
- Training
- Operations
- Specifications
- Bus Maint Facility Design
- Performance Standards
- Warranty Administration
- In-Plant Vehicle Inspection

**IT**
- TCIP: (Transit Communication Interface Profiles)
  - System Interface Message Sets
  - TRICE (Tool for TCIP use)
- Technology Specifications
  - CCTV
- Control System Security
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### Security
- Fixed Infrastructure
- Security Risk
- Emergency Management

### Procurement
- Terms & Conditions
- Procurement Planning Process
- Risk Management
- Technology Procurement

### Accessibility
- Demand Responsive: Call Center Standards
- Fixed Route: Stop Announcement Standards
- Rail Gap:

### Farecard
- Farecard reader interface
- Farecard data configuration
- Data & financial security
- IP rights
- Revenue tracking and dividing
- Credit card industry relationships

### Sustainability
- Climate Change
- Urban Design Guidelines
BRT DOCUMENTS
PUBLISHED DOCUMENTS…provide guidance to transit agencies, local governments, planners, developers and others interested in developing new BRT systems or enhancing existing BRT systems.
PUBLISHED DOCUMENTS:

- Designing Bus Rapid Transit Running Ways
- Bus Rapid Transit Stations and Stops
- Operating a Bus Rapid Transit System
- Bus Rapid Transit Service Design
- BRT Branding, Imaging and Marketing
- Implementing BRT Intelligent Transportation Systems
DESIGNING BUS RAPID TRANSIT RUNNING WAYS:

• Provides guidance on the design of running ways
• Review of different types of running ways and design guidelines related to busways
  – separate rights-of-way
  – separate busways
  – HOV lanes within freeways
  – exclusive bus lanes
  – transitways on arterial streets.
• Guidance on BRT facility geometry, cross-section dimensions, drainage and other engineering considerations, and pavement design.
BUS RAPID TRANSIT STATIONS AND STOPS

• Provides recommended practices for the planning and development of stations and stops.
• Guide transit agencies and their partners in planning and designing stations or stops for a BRT service.
OPERATING A BUS RAPID TRANSIT SYSTEM

- Training and Development
- Operating rules
- Schedule vs. Headway operations
- Route monitoring and supervision
- Connection protection
- Public/Rider education on BRT-specific items
BUS RAPID TRANSIT SERVICE DESIGN

- Overall position within the transit system
- Routing
- Station location
- Span of service
- Frequency of service
- Scheduling and operations
- Service monitoring and refinement
BRT BRANDING, IMAGING AND MARKETING

• Role of branding
• Branding strategy and implementation
IMPLEMENTING BRT INTELLIGENT TRANSPORTATION SYSTEMS

- Overview of communications technology
- Transit ITS for the system operator
- Transit ITS for the customer
- Transit ITS for the vehicle
Where to get it!

• Go to www.apta.com
• At the “Resource Library” tab, click on “Standards Program”
• A new window will open
• Click on “Documents”, then “Published Standards” and then “Bus”

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, 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 standards for bus, rail transit and commuter rail operations, maintenance, procurement and ITS. These consensus based standards are making a real difference to the management and operations of these organizations. These standards are now being used to achieve operational efficiencies and safety improvements in services, facilities and vehicles.
Bus Operations

APTA BTS-IO-RP-001-07 Recommended Practice for Transit Bus Operator Training
APTA BTS-IO-RP-002-07 Recommended Practice for Transit Supervisor Training
APTA BTS-IO-RP-003-09 Recommended Practice: Recruiting and Retaining Bus Operations Employees
APTA BTS-IO-RP-004-09 Recommended Practice: Developing and Maintaining a Customer Service Culture

Bus Rapid Transit

APTA BTS-BRT-RP-001-10 Recommended Practices for BRT Branding, Imaging and Marketing
APTA BTS-BRT-RP-002-10 Recommended Practice for Bus Rapid Transit Stations and Stops
APTA BTS-BRT-RP-003-10 Recommended Practice for Designing Bus Rapid Transit Planning Ways
APTA BTS-BRT-RP-004-10 Recommended Practice for Bus Rapid Transit Service Design
APTA BTS-BRT-RP-005-10 Recommended Practice for Implementing BRT Intelligent Transportation Systems
APTA BTS-BRT-RP-007-10 Recommended Practice for Operating a Bus Rapid Transit System

Bus Safety

APTA BTS-BS-RP-001-05 Recommended Practice for Transit Bus Fire Safety Shutdown
APTA BTS-BS-RP-002-07 RP for Transit Bus Electrical System Requirements Related to Fire Safety
APTA BTS-BS-RP-004-06 RP for Installation of Transit Vehicle Fire Protection Systems
APTA BTS-BS-RP-004-08 Recommended Practice for Transit Bus Fire Thermal Incident Investigation
APTA BTS-BS-RP-005-09 RP: Reducing Driver-Controlled Distractions While Operating on Agency Time
APTA BTS-BS-RP-006-08 RP: Reducing Agency-Controlled Distractions While Operating on Agency Time
Thank you

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