

FEDERAL TRANSIT ADMINISTRATION

# FTA Safety Program: Rulemaking Update and Transit Agency SMS Implementation

February 27, 2017

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#### **Overview**

- Safety Rules
- Implementing a Safety Management
   System
- FTA Safety Resources



## **Safety Rules**



## **Transit Safety Rulemaking and Guidance**

Statutory References	Regulation/Guidance	Status
49 U.S.C. §5329(d)	Public Transportation Agency Safety Plan 49 CFR Part 673	Final Rule Publication TBD
49 U.S.C. §5329(c)	National Public Transportation Safety Certification Training Program 49 CFR Part 692	Final Rule Publication TBD
FAST Act §3020	Preventing Transit Worker Assault NPRM	NPRM Publication TBD
49 U.S.C. §5329(b)	National Public Transportation Safety Plan 49 CFR Part 673	Final Plan Published: I/I7/I7
49 U.S.C. §5329	Public Transportation Safety Program 49 CFR Part 670	Final Rule Published: 8/11/2016 Effective: 9/12/2016
49 U.S.C. §5318	Bus Testing 49 CFR Part 665	Final Rule Published: 8/1/2016 Effective: 10/31/2016
40115 € 85224	Transit Asset Management	Final Rule

**Published: 3/16/16** 

**Effective: 4/15/16** 

49 U.S.C. §5326 Published: 7/26/2016 49 CFR Part 625 **Effective: 10/1/2016 Final Rule State Safety Oversight** 

49 CFR Part 674

49 U.S.C. §5329(e)

### State Safety Oversight (SSO) Final Rule



- Oversight of rail fixed guideway public transportation systems
- SSO Final Rule (49 CFR Part 674) replaces the current SSO rule at 49 CFR Part 659
- SSO Programs must be certified by April 15, 2019

Effective Date: 4/15/16

## Public Transportation Safety Program Final Rule



- Formally establishes
   FTA's safety policy Safety Management
   Systems (SMS)
- Commits FTA to creating and implementing a National Public Transportation Safety Plan
- Establishes the procedural rules for enforcement of FTA's safety programs

FTA

Effective Date: 9/12/16

## **Bus Testing Final Rule**

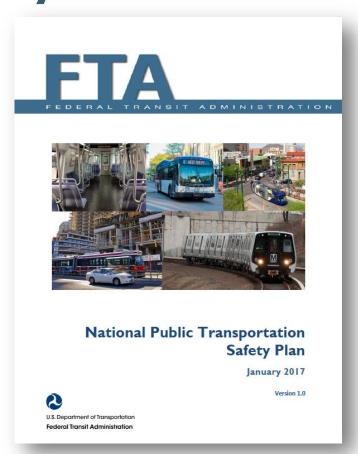


- Requires newly procured buses to meet minimum thresholds
- Scoring system that makes it easier to compare similar bus models from different manufacturers
- Better inform local transit agencies as they evaluate and purchase buses for use in their communities



**Effective Date: 10/31/2016** 

## National Public Transportation Safety Plan



#### The Plan is:

- NOT a rule
- FTA's strategic plan
- Sets safety performance criteria for Agency Safety Plan performance targets

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**Published: 1/17/17** 



## Implementing a Safety Management System



#### The Business Case for SMS

- The SMS provides answers to your questions on how to prioritize safety investments before a safety event happens
- Saves money and resources that would be expended following a safety event
- SMS activities include routine monitoring of service delivery operations which:
  - Provides a clear picture of operations from a safety perspective
  - Supports proactive safety decision making
  - Provides transparency to support decisions the agency makes to address safety concerns
  - Identifies organizational contributions to safety events





Safety risk cannot be eliminated, but it can be managed.

- Learn from past events
- Adopt a proactive approach; identify and mitigate safety risk
- Allocate resources effectively and efficiently

### Imperfect Systems - The Practical Drift

"Work as imagined"

System and Tasks as designed and engineered

Procedure

Start of Operations

**Over Time** 

**Local Reality** 

"Work as actually done"

**Practical Drift** 

"Uncoupling of practice from procedure"

#### Why? What happened?

- Service delivery pressures
- Procedure no longer practical
- Short cuts are more efficient
- Supervisor allows it
- Informal processes
- Training inadequately conveyed risk



**Practice** 

#### What is SMS?

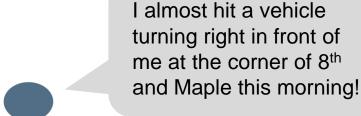
Formal, top-down, organization-wide, datadriven approach to managing safety risk and assuring effectiveness of safety risk mitigations. includes systematic policies, procedures, and practices for managing safety risk.

Simply: SMS is a decision support system for management



### Five Questions SMS Answers

- 1. What are our most serious safety concerns?
- 2. How do we know this?
- 3. What are we doing about them?
- 4. Is what we are doing working?
- 5. How do we know what we are doing is working?





#### **ELEMENTS OF AN SMS**



## Safety Management Policy



## **Identify Safety Concerns**

#### Reactive

Investigations

#### **Proactive**

- Audits & evaluations
- Data recorders
- Management of change
- Employee reporting

Learn from past experience.

Identify potential safety concerns before an event occurs.

Listen to the experts!



## Identify Safety Concerns

#### Reactive

Investigations

#### **Proactive**

- Audits & evaluations
- Management of change
- Data recorders
- Employee reporting

## Define Hazards & Consequences

- What's really the problem?
- What could happen?
- Document it!

## Assess Safety Risk & Prioritize Hazards

- How bad could it be?
- How often could it happen?
- Prioritize risk.
- Document it!



## How can a transit agency answer these questions routinely, effectively, and efficiently?

**Document** safety management processes, responsibilities



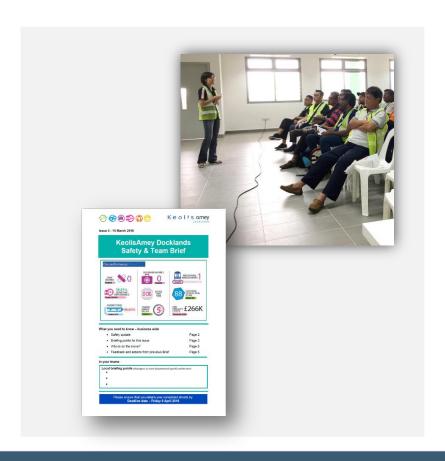
Safety Assurance



## How can a transit agency answer these questions routinely, effectively, and efficiently?

Safety Risk Management

Communicate and train personnel to perform their roles





## WHAT SETS UP AN SMS FOR SUCCESS?



### The Organization Owns the SMS

- Messaging from the highest levels
- The system is implemented, used and supported by top management
- SMS sits at the same level as all other critical business systems/functions
  - SMS may be managed by the safety department but spans the organization
  - SMS is not a safety program
- Safety is cross-organizational, and managed at all levels of the organization



#### Role of the Board

- Endorse the Safety Management Policy Statement
- Support resourcing of the SMS
- Select and support the Accountable Executive
- Review and approve the safety plan



#### Role of the Accountable Executive

Accountable Executive means a single, identifiable person who has ultimate responsibility for carrying out the safety management system of a public transportation agency; responsibility for carrying out transit asset management practices; and control or direction over the human and capital resources needed to develop and maintain both the agency's public transportation agency safety plan, in accordance with 49 U.S.C. 5329(d), and the agency's transit asset management plan in accordance with 49 U.S.C. 5326.

49 CFR § 625.5



### Role of the Employees

- Employees are the eyes and ears of the organization
- No one has a better sense of what really happens on the front line
- Employees are a rich source of safety management information for organizations



### Use and Improve the SMS

- SMS implementation will not happen all at once
- SMS needs time for implementation and to mature
- Components of SMS will move from development to operations as they are put into place
- SMS will always be a work in progress



#### **FTA Safety Resources**

- TSO Website
  - https://www.transit.dot.gov/regulations-andguidance/safety/transit-safety-oversight-tso
- TSO Spotlight Newsletter
  - https://www.transit.dot.gov/regulations-andguidance/safety/tso-spotlight-newsletter
- Sign up for email updates
  - https://public.govdelivery.com/accounts/USDOTFTA/subscriber/new



#### **Questions?**

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