



Agenda

- Who is OLTS? What are LOTS?
- Preparing For and Supporting Federal Transit Safety Requirements
- Challenges
- Schedule and Process
- Next Steps



Who is OLTS? What are LOTS?

The MDOT MTA



- The Maryland Transit Administration (MDOT MTA) is a division of the Maryland Department of Transportation
- MDOT MTA is one of the largest multimodal transit systems in the U.S., providing public transportation services to more than 2 million residents of the Baltimore region and throughout Maryland
- MDOT MTA is the designated recipient of federal transit funds for all Locally Operated Transit Systems (LOTS) in the State
- The MDOT MTA Office of Local Transit Support (OLTS) administers grant funds and ensures that LOTS comply with federal and state requirements



The LOTS Agencies





Different Sizes/Levels of Complexity

§5307 Recipients – Full Reporters	§5307 Recipients – Reduced Reporters	§5311 Recipients – RURAL Reporters
Anne Arundel County	Allegany County Transit	Baltimore County Department of Aging
Baltimore City DOT	Annapolis Department of Transportation	Delmarva Community Transit
Charles County	Calvert County	Garrett County Community Action Committee
Howard Transit	Carroll County Department of Citizen Services	Town of Ocean City
Prince George's County Transit	Cecil County Government - SSCT	
Ride-On Montgomery County Transit	Harford Transit	
Transit Services of Frederick County	Queen Anne's County Department of Aging	
Tri-County Council for the Lower Eastern Shore	St. Mary's Transit System	
	Washington County Transit	



Preparing For and Supporting Federal Transit Safety Requirements



OLTS Role in Safety & Asset Management

- OLTS has a long history of providing training and technical assistance to the LOTS
- We use the annual Transportation Association of Maryland conference as a platform for three days of training on various topics
- Additional training is provided through webinars
- In the area of Asset Management, OLTS has provided a total of 15 LOTS workshops to the LOTS since September 2015
- In the area of Safety, OLTS has provided 10 LOTS workshops since November 2016

Safety Training Topics



Transit System Hazard and Risk Management 101

FTA Agency Safety Plan Final Rule Requirements

Using Existing Safety Documents in the SMS Component Framework

FTA Bus Agency Safety Plan Template Work Session

How Safety Management & Transit Asset Management Work Together

Safety Performance Measures and Setting Safety Performance Targets

Safety Risk Management

Employee Safety Reporting

Safety Assurance and Safety Promotion

After the Plan is Done – Implementing SMS



Challenges



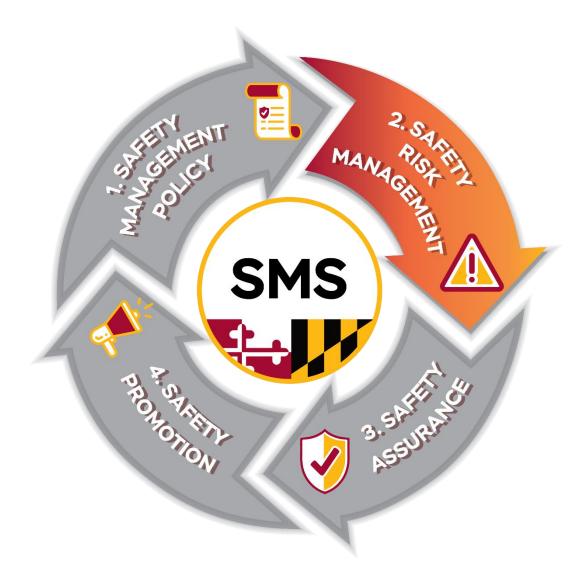
Challenges to Effective PTASP Development

- There is a difference between doing the right thing and documenting how you do it
- Formal safety risk assessment process using both Severity and Probability is new
- Some lack of clarity with smaller agencies about NTD definitions for safety reporting
- The System Reliability safety performance measure requires Reduced Reporters to start tracking major mechanical failures, which is new
- Emphasis on being proactive is new most agencies are more used to responding



Safety Risk Management Challenges

Among the four SMS Components, the most challenging was Safety Risk Management





Potentials Reasons for Difficulty

There are many possible reasons that the Maryland LOTS found Safety Risk Management processes challenging:

- Unfamiliar with MIL-STD 882 system safety standard practices
- Previous LOTS safety plans were based on 2002 FTA-CTAA-APTA Memorandum; was more prescriptive and did not include risk assessment processes
- Small agencies have smaller staffs and are usually strapped for resources – can lack personnel or technology to document their processes
- More used to "going with their gut" than with using a consistent methodology



Adapting SRM for Smaller System

OLTS provided training/technical assistance to LOTS to scale Safety Risk Management processes to their smaller operations

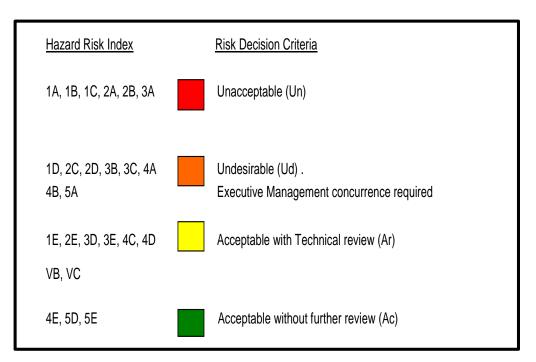
Recommended adjusted categories for Hazard Probability to reflect lower-than-industry average rates of occurrence. Recommended adjusted thresholds in cost category for Hazard Severity to reflect the greater impact of a smaller loss of a single bus (\$500,000) could be catastrophic to a small system.



Risk Matrix is Scalable

OLTS provided training/technical assistance to LOTS to show how a risk matrix can be as detailed or as simple as the agency determines is appropriate

HAZARD RISK INDEX – 25 Ratings					
Probability of Occurrence	Hazard Severity				
	1	2	3	4	5
	Catastrophic	Critical	Major	Marginal	Insignificant
(A) Frequent	1A	2A	3A	4A	5A
(B) Probable	1B	2B	3B	4B	5B
(C) Occasional	1C	2C	3C	4C	5C
(D) Remote	1D	2D	3D	4D	5D
(E) Improbable	1E	2E	3E	4E	5E





Simplified Risk Matrix

HAZARD RISK INDEX - Simplified					
Probability of Occurrence	Hazard Severity				
	1 Catastrophic - Serious	2 Moderate	3 Marginal- Insignificant		
(A) Frequent- Probable	1A	2A	3A		
(B) Occasional	1B	2В	3B		
(C) Remote- Improbable	1C	2C	3C		

Hazard Risk Index Rating		Risk Decision Criteria	
1A, 1B, 2A		Unacceptable - Must be mitigated	
1C, 2B, 3A		Tolerable - May be accepted with Exec Mgt concurrence, should mitigate	
2C, 3B, 3C		Acceptable without further review	

Example of a simplified Risk Matrix with only 8 risk ratings



Schedule and Process



Plan Development & Approval Schedule

- Deadline for PTASP development and approval: July 20, 2020
- OLTS will incorporate reviewing LOTS PTASPs in its review of the FY 2021 Annual Transportation Plan grant applications
- All Maryland bus transit agencies who receive §5307 and/or §5311 funds will have PTASPs finalized, signed, and approved by January 2020





State and MPO Coordination

Under 49 CFR Part 673.15:

- Transit agency's performance targets must be made available to State and MPO to aid in the planning process
- Each transit agency must coordinate with State and its MPO in the selection of State and MPO safety performance targets
- The Transit agency safety performance targets may aid the State and MPO in selecting their own performance targets

LOTS develop safety targets

LOTS share safety targets with State (submit PTASP)

LOTS share safety targets with MPOs

LOTS coordinate with MPOs to set State/MPO safety targets



How LOTS Agencies will Meet Coordination Requirements

- LOTS agencies' Safety Performance Measures and Targets will be made available to the State when they submit PTASP to OLTS as part of Annual Transportation Program application
- LOTS agencies will make Safety Performance Measures and Targets available to MPOs after PTASP submission
- OLTS will facilitate and assist in setting up meetings between LOTS and their MPOs to communicate safety targets





Next Steps: SMS Implementation



Please – not a Plan on the Shelf!

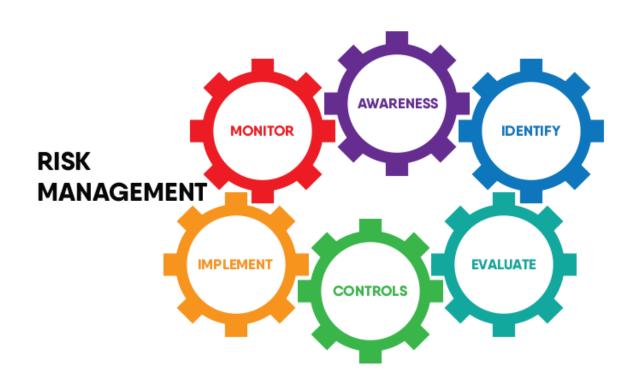
- The Plan is a tool not a bookend!
- Feed the Plan:
 - Keep a running revision correcting or updating things that work or don't work
 - Update the system description, if it change
- Involve staff: invite input, solicit updates





Living Risk Management

- Embedded in your agency
 - Like breathing
- What questions should you and your staff be asking?
 - How do you identify the small things that can add up to big events?
 - What can happen, how, where, what to watch for?

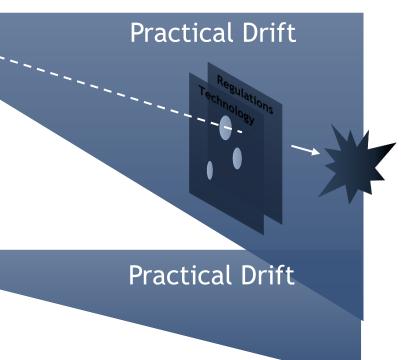




Hazard Identification & Assessment



Hazard identification & Assessment is a wasted effort if restricted to the aftermath of damaging occurrences – needs to be Proactive





Continuous Improvement

Capability

- Assess your progress in implementing SMS
- Audit your progress
- Watch for slippage and gaps
- SMS is a Journey Not a Destination







Thank You

Travis Johnston, Director

Maryland Transit Administration

Office of Local Transit Support
6 Saint Paul Street, Baltimore MD 21202

Office: 410-767-3433 Fax: 410-333-0901

tjohnston@mdot.maryland.gov