

**REGIONAL TRANSIT PERFORMANCE MEASURES:  
PUBLIC TRANSPORTATION AGENCY SAFETY PLAN  
AND  
TRANSIT ASSET MANAGEMENT**

REGIONAL TRANSPORTATION COUNCIL

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# FEDERAL MEASURES SCHEDULE

Measures	Upcoming RTC Action	Next Anticipated RTC Action	Target-Setting Schedule
PM3: System Performance, Freight, and CMAQ	October 2020 ✓	Late 2022	Biennial
PM2: Pavement and Bridge	November 2020 ✓	Late 2022	Biennial
PM1: Roadway Safety	February 2021 (Information) ✓	Early 2022	Annual
PTASP: Public Transportation Agency Safety Plan	April 2021 (Information) May 2021 (Action)	Early 2025	Every 4 years
TAM: Transit Asset Management	April 2021 (Information)	Early 2022	Every 4 years

# TRANSIT SAFETY TARGETS BACKGROUND

- Federal regulations require Section 5307 recipients to adopt Public Transportation Agency Safety Plans (PTASP), including transit safety targets
- MPO has 180 days to adopt regional transit safety targets after transit providers share their individual plans/targets
- Recommend regional targets be consistent with transit providers, with 7 targets under the following measures:
  - **Fatalities** – Death confirmed within 30 days, excluding suicide, trespassers, illness, or natural causes
  - **Injuries** – Harm to person that requires immediate medical attention away from the scene
  - **Safety Events** – Collision, derailment, fire, hazardous material spill, or evacuation
  - **System Reliability** – Major mechanical failure preventing vehicle from completing or starting scheduled trip

# TRANSIT SAFETY TARGETS

Measure	Targets
Fatalities	<ol style="list-style-type: none"><li>1. Total number of reportable <b>fatalities</b></li><li>2. Rate per 100K vehicle revenue miles</li></ol>
Injuries	<ol style="list-style-type: none"><li>3. Total number of reportable <b>injuries</b></li><li>4. Rate per 100K vehicle revenue miles</li></ol>
Safety Events	<ol style="list-style-type: none"><li>5. Total number of reportable <b>safety events</b></li><li>6. Rate per 100K vehicle revenue miles</li></ol>
System Reliability	<ol style="list-style-type: none"><li>7. Mean distance between <b>major mechanical failures</b></li></ol>

# PTASP REGIONAL TARGET DEVELOPMENT PROCESS

- Obtained individual provider PTASPs and underlying performance data
- Compiled regional data and averaged Fiscal Year (FY) 2016 – FY 2019 data to determine baseline
- Analyzed data and optimal approach for regional safety targets, comparing multiple methods and varying levels of improvement over baseline data
- Coordinated with partners including the Texas Department of Transportation, the Houston-Galveston Area Council, and the FTA PTASP Technical Assistance Center
- Engaged stakeholders, including regional transit providers
- Held internal Peer Review seeking feedback on methodology

# PROPOSED TRANSIT SAFETY TARGETS

Target	Baseline Average	Proposed Target
1. Fatalities - Total Number	6.00	0.00
2. Fatalities - Rate per 100k Miles	0.01	0.00
3. Injuries - Total Number	150.50	142.98
4. Injuries - Rate per 100k Miles	0.23	0.22
5. Safety Events - Total Number	516.00	490.20
6. Safety Events - Rate per 100k Miles	0.81	0.77
7. System Reliability - Miles Between Major Mechanical Failures	18,896.00	19,841.00

- Recommending **zero** fatality targets in line with established regional safety position:
  - **Even one death in the transportation system is unacceptable. Staff will work with our partners to develop projects, programs, and policies that assist in eliminating fatalities across all modes of travel.**
- Recommending 5% improvement in other measures to be achieved by FY 2023

# TRANSIT SAFETY EFFORTS

## CURRENT/EXISTING

- Cooperative camera procurement
- Grade crossing improvements
- Employee safety training
- Vehicle inspections
- Between-car barriers for light rail vehicles
- Solar-powered bus stop lighting

## POSSIBLE FUTURE EFFORTS

- Enhanced vehicle lighting
- Light rail vehicle rooftop cameras to identify infrastructure failure
- Cameras at grade crossings
- Sidewalk improvements

# TRANSIT ASSET MANAGEMENT (TAM)



Images: DART, DCTA, FWTA, and NCTCOG



# TRANSIT ASSET MANAGEMENT REGIONAL TARGETS ADOPTED

Emphasis Area #1

Emphasis Area #2

Asset Category	Target	Metric
Rolling Stock (transit vehicles)	0%	Vehicles that meet or exceed the industry standard, defined as the Federal Transit Administration's Default Useful Life Benchmark
Infrastructure (rail track)	0%	Rail track segments with performance restrictions
Equipment (transit support vehicles)	0%	Vehicles that meet or exceed the industry standard, defined as the Federal Transit Administration's Default Useful Life Benchmark
Facilities (buildings, stations, park and rides)	0%	Transit facilities rated below "Adequate" (3.0) on the industry standard Transit Economic Requirements Model (TERM) scale

# TRANSIT PERFORMANCE MEASURE: ROLLING STOCK<sup>1</sup>

Asset Type <sup>2</sup>	FY 2017 Performance	FY 2018 Performance	FY 2019 Performance
Bus	<b>6%</b>	<b>4%</b>	<b>5%</b>
Small Bus	<b>3%</b>	<b>9%</b>	<b>18%</b>
Light Rail Vehicle	0%	0%	0%
Commuter Rail Locomotive	0%	0%	0%
Commuter Rail Passenger Car	0%	0%	0%
Articulated Bus	0%	0%	0%
Commuter Rail Passenger Coach <sup>3</sup>	<b>35%</b>	<b>40%</b>	<b>18%</b>

<sup>1</sup>RTC Policy Emphasis Area

<sup>2</sup>Rolling stock assets include a small number of vehicles reported to the National Transit Database as “inactive”

<sup>3</sup>Includes assets rebuilt near the end of their useful life with the assumption of a minimum useful life extension of 10 years

# TRANSIT PERFORMANCE MEASURE: INFRASTRUCTURE<sup>1</sup>

Rail Mode	FY 2018 Performance	FY 2019 Performance	Operating Agency
Light Rail	0.20%	0.20%	DART
Commuter Rail	0.09%	0.05%	DART, Trinity Metro
Streetcar Rail	0%	0%	DART, MATA
Hybrid Rail	2.05%	0%	DCTA

<sup>1</sup>RTC Policy Emphasis Area

# TRANSIT PERFORMANCE MEASURE: EQUIPMENT (NON-REVENUE)

Asset Type	FY 2018 Performance	FY 2019 Performance
Automobiles	<b>32%</b>	<b>51%</b>
Steel Wheel Vehicles	0%	<b>25%</b>
Trucks & Other Rubber Tire Vehicles	<b>19%</b>	<b>52%</b>

- 114 of 223 Automobiles exceeded the ULB
- 2 of 8 Steel Wheel Vehicles exceeded the ULB
- 220 of 425 Trucks exceeded the ULB

# TRANSIT PERFORMANCE MEASURE: FACILITIES

Asset Type	FY 2018 Performance	FY 2019 Performance	FY 2019 Total Facilities	Facilities Assessed
Administrative/Maintenance	0%	5%	41	33
Passenger/Parking	0%	0%	124	75

- FY 2018 & FY 2019 performance relative to *assessed* facilities. Overall, 65.5% of total facilities have undergone a conditions assessment.
- FY 2019 total facilities for which transit providers have capital responsibility and require a conditions assessment.
- Total facilities that have undergone a conditions assessment to determine facility performance. Facilities rated under 3.0 on the assessment tool are deemed as not being in a state of good repair.

**REGIONAL  
PERFORMANCE  
MEASURES  
SCHEDULE**

Date	Action
January 26	Regional Transit Safety Targets Provider Meeting
March 26	STTC Info on PTASP and TAM <ul style="list-style-type: none"><li>• Propose PTASP Targets</li><li>• Update Regional TAM Performance</li></ul>
April 8	RTC Info on PTASP and TAM
April 23	STTC Action on PTASP
May 13	RTC Action on PTASP

# CONTACT INFORMATION

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