

2023 TRANSIT AGENCY SAFETY TARGETS – 10.23 DRAFT

Performance-Based Planning and Programming

Pierre Gaunard
TPB Transportation Planner

TPB Transportation Safety Subcommittee
October 10, 2023



Presentation Items

- Transit Agency Safety Plans Rule
- Transit Safety Performance Measures
- Applicability
- Adopted 2022 Regional Targets
- 2022 Safety Performance
- Under Development 2023 Regional Targets
- Next Steps



Federal Requirement – Transit Agency Safety Plans

- Federal Performance Based Planning and Programming (PBPP) regulations requires applicable providers of public transportation to develop and certify an agency safety plan
- Applicable transit providers are required to annually set targets for four (4) Transit Safety performance measures
- MPOs set annual regional targets for the metropolitan planning area following state/agency adoption of its Transit Safety targets



Transit Safety Performance Measures

	Performance Measures
Fatalities	Total number of reportable fatalities and the rate per total vehicle revenue miles by mode
Injuries	Total number of reportable injuries and the rate per total vehicle revenue miles by mode
Safety Events*	Total number of reportable events and the rate per total vehicle revenue miles by mode
System Reliability	Mean distance between major mechanical failures by mode

*Collisions, derailments, fires, or life safety evacuations



Applicable Regional Agencies

- Transit safety requirements apply to providers of public transportation that are recipients and sub-recipients of federal Section 5307 funding:
 - **WMATA:** Metrorail, Metrobus, MetroAccess
 - **DDOT:** DC Circulator, DC Streetcar
 - **MDOT-MTA:** MTA Commuter Bus
 - **PRTC:** Bus and paratransit
 - and local systems in Suburban Maryland:
 - **VanGo** (Charles Co.)
 - **Transit** (Frederick Co.)
 - **Ride On** (Montgomery Co.)
 - **The Bus** (Prince George's Co.)



2022 Regional Transit Safety Targets

- Final targets for the region adopted by the TPB on December 21, 2022

	Fatalities		Injuries		Safety Events		Reliability
	Number	Rate	Number	Rate	Number	Rate	MDBF
Heavy Rail (HR)	0	0	255	0.29	23	0.04	14,000
Streetcar Rail (SR)	0	0	0	0.00	4	0.27	1,000
Urban Bus (MB)	0	0	268	0.49	404	0.74	10,918
Commuter Bus (CB)	0	0	4	0.06	2	0.03	18,596
Demand Response (DR)	0	0	46	0.24	39	0.20	22,903
Vanpools (VP)	0	0	4	0.04	0	0.00	53,000

Rate - Per 100,000 Vehicle Revenue Miles MDBF = Mean Distance Between Failures



2022 Regional Transit Safety Data

- From the FTA NTD Safety & Security time-series data:

	Fatalities*		Injuries		Safety Events	
	Number	Rate	Number	Rate	Number	Rate
Heavy Rail (HR)	2	0.00	81	0.15	103	0.19
Streetcar Rail (SR)	0	0	1	0.82	7	5.72
Urban Bus (MB)	7	0.01	299	0.52	317	0.55
Commuter Bus (CB)	0	0	0	0	3	0.04
Demand Response (DR)	0	0	35	0.17	63	0.31
Vanpools (VP)	0	0	0	0	0	0

Rate - Per 100,000 Vehicle Revenue Miles; * Excludes suicides



2023 Regional Transit Safety Targets

*** Under Development – Need info. for three more agencies/jurisdictions, follow-ups**

	Fatalities		Injuries		Safety Events		Reliability
	Number	Rate	Number	Rate	Number	Rate	MDBF
Heavy Rail (HR)	0	0	146	18.30	41	5.20	25,000
Streetcar Rail (SR)	0	0	0	0.00	4	0.27	1,000
Urban Bus (MB)	0	0	283	0.49	264	0.46	11,323
Commuter Bus (CB)	0	0	0	0	0	0	33,401
Demand Response (DR)	0	0	49	0.24	59	0.29	0
Vanpools (VP)	0	0	0	0	0	0.00	0

Rate - Per 100,000 Vehicle Revenue Miles MDBF = Mean Distance Between Failures



2023 Safety Target Schedule

- **Ongoing** – Collect 2023 targets and previous year’s performance vs. target information from applicable Transit Agencies
- **Today** – TPB Transportation Safety Subcommittee briefed on draft 2023 targets
- November – Technical Committee briefed on requirements and draft 2023 regional safety targets
- November – TPB briefed on requirements and draft 2023 regional safety targets
- December – TPB will be asked to adopt resolution with final regional transit safety targets



Pierre Gaunard

Transportation Planner
(202) 962-3761
pgaunard@mwkog.org

mwkog.org

777 North Capitol Street NE, Suite 300
Washington, DC 20002



National Capital Region
Transportation Planning Board

Calculation of Regional Safety Targets

- Targets for the region are based on those adopted or identified by each provider of public transportation
- Measures are calculated for each mode:
 - Number of Fatalities/Serious Injuries/Incidents – total number for all providers of that mode
 - Rate of Fatalities/Serious Injuries/Incidents – total number for all providers of the mode divided by the total number of Vehicle Revenue Miles (VRM) for that mode (reported in rate per 100,000 VRM)
 - Mean Distance Between Failure (MDBF) – the total number of VRM for that mode divided by the total number of failures for all providers of the mode

