



CITY OF BANGOR

COMMUNITY CONNECTOR

Public Transportation Agency Safety Plan

PTASP

Transit Safety Performance Measures and Targets

FY 2022

Safety Performance Measures

The **Public Transportation Agency Safety Plan (PTASP)** regulation, at 49 C.F.R. Part 673, requires covered public transportation providers and State Departments of Transportation (DOT) to establish **safety performance targets (SPTs)** to address the **safety performance measures (SPMs)** identified in the **National Public Transportation Safety Plan (NSP)** (49 C.F.R. § 673.11(a)(3)).

As described in the **NSP**, transit providers must establish by mode seven **SPTs** in four categories:

- **Fatalities:** Total number of reportable fatalities reported to NTD and rate per total vehicle revenue miles (VRM) by mode.
- **Injuries:** Total number of reportable injuries reported to NTD and rate per total VRM by mode.
- **Safety Events:** Total number of reportable safety events reported to NTD and rate per total VRM by mode.
- **System Reliability:** Mean distance between major mechanical failures by mode.

The thresholds for “reportable” fatalities, injuries, and events are defined in the NTD Safety and Security Reporting Manual.

A **Safety Performance Measure (SPM)** is a quantifiable indicator of performance or condition that used to establish targets related to safety management activities, and to assess progress toward meeting the established targets.

Safety Performance Targets

A Safety Performance Target (SPT) is a quantifiable level of performance or condition expressed as a value for the measure related to safety management activities to be achieved within a set time period.

When establishing SPTs for total numbers, transit providers may consider the total number of fatalities, injuries, and safety events they expect to experience per year (calendar, fiscal, or NTD reporting year). The annual timeframe may be established to ensure consistency with the state/regional planning process. Likewise, in setting rates per VRM, transit providers may use total annual VRM, or another number (100,000 VRM, 1,000,000 VRM, or 10,000,000 VRM) as needed for consistency with state/regional planning requirements.

Fatalities Rate:

Total Fatalities * 100,000 VRM (or whatever you set for your VRM rate) / annual or expected VRM = Injuries per 100,000 VRM

Example: The small transit provider in this example has not experienced a fatality in its operating history, so it opted to select a total number SPT of 0 fatalities and a corresponding SPT rate of 0 fatalities per 100,000 VRM.

Injuries Rate:

Total SPT Injuries * 100,000 VRM (or whatever you set for your VRM rate) / annual or expected VRM = Injuries per 100,000 VRM

Example: (5 injuries / 2,500,000 VRM × 100,000) = 0.2 injuries per 100,000 VRM

Safety Event Rate:

Total SPT of Safety Events * 100,000 VRM / annual or expected VRM = Safety Events per 100,000 VRM

Example: (7 safety events / 2,500,000 VRM × 100,000) = 0.28 safety events per 100,000 VRM

System Reliability:

Total VMR / Failures = Miles between major failures

Example: Fixed-route bus: 2,500,000 VRM / 263 failures = 9,506 miles

City of Bangor, Community Connector

SAFETY PERFORMANCE TARGETS

Targets below are based on review of the previous year of NTD safety performance data.
2021

Mode of Transit Service	Fatalities (total) per NTD Reporting Year	Fatalities (per 100 thousand VRM)	Injuries (total) per NTD Reporting Year	Injuries (per 100 thousand VRM)	Safety (total) Events per NTD Reporting Year	Safety Events (per 100 thousand VRM)	System Reliability (VRM / failures)
MB	0.00	0.00	1.0	0.18	1.0	0.18	50,391
DR	0.00	0.00	0.00	0.00	0.0	0.00	89,807

Safety Performance Target Coordination

Community Connector's Accountable Executive will transmit our Safety Performance Targets (SPT) by email (which are included in our PTASP), to the State DOT and MPO in our service area each year after it is updated. Community Connector's Accountable Executive will coordinate with the MDOT and MPO to support the selection of State and MPO transit safety performance targets to the maximum extent practicable.

ASP and Targets Transmitted to the State	State of Maine Department of Transportation (MDOT)	Date Targets Transmitted January 2022
ASP and Targets Transmitted to the Metropolitan Planning Organization	Bangor Area Comprehensive Transportation System (BACTS)	Date Targets Transmitted January 2022

Community Connector Fixed Route (MB) 2015-2021

Year	Fatalities	Injuries	Events	VRM	Major Mechanical Failures
2015	0	0	0	602553	38
2016	0	0	0	605083	53
2017	0	0	0	598955	61
2018	0	0	0	594879	40
2019	0	0	0	580662	54
2020	0	0	0	603367	28
2021	0	1	1	554297	11

NTD Data Fix Route MB-DO							
	2015	2016	2017	2018	2019	2020*	2021*
UPT	888223	875807	821827	791981	768787	620930	377937
VRM	602553	605083	598955	594879	580662	603367	554297
VRH	47210	46893	46095	45794	45860	47119	41893
VOMS	14	14	14	14	14	14	11**

*COVID 19 ** Driver Shortage

Community Connector Demand Response (DR) 2018-2021

Year	Fatalities	Injuries	Events	VRM	Major Mechanical Failures
2018	0	0	0	37021	0
2019	0	0	0	67138	0
2020	0	0	0	87120	0
2021	0	0	0	89807	0

NTD Data ADA Paratransit DR							
	2018-DT-P T	2018-DR- PT	2019-DR- PT	2019-DT-P T	2019-DR- DO	2020-DR- DO*	2021-DR- DO*
UPT	3756	3989	621	831	6996	7875	8646
VRM	23421	13600	2439	6353	58346	87120	89807
VRH	772	530	541	725	4320	6234	7738
VOMS	6	8	8	6	5	5	5

*COVID-19