

# 2040 RURAL LRTP



2040 BCD RURAL LONG-RANGE TRANSPORTATION PLAN  
AMENDMENT #4

Amendment: February 27, 2023

#### Amendment #4 – BCD 2040 RL RTP (Highway and Transit Safety Performance Targets)

Federal regulations established through the FAST Act and maintained in IIJA/BIL, require state departments of transportation to establish and report annual safety performance targets. Per federal rules and SCDOT Planning Procedure Agreement PL-2017-01, MPOs and COGs are also required to formally adopt either the State's safety targets or evaluate and set regionally specific targets for highways. As such, the BCDCOG is amending the BCD 2040 Rural Long-Range Transportation Plan (LRTP) to include the annual safety targets set by the South Carolina Department of Transportation (SCDOT) for the 2023 performance period.

Recipients of public transit funds, are also federally required to establish annual transit related safety targets and report on the agencies' progress toward achieving set targets. Public transportation providers are further directed to share such information with MPOs/COGs and states so all plans and performance reports are coordinated. TriCounty Link (TCL), the region's rural transit service provider, has and will continue to share this data with the BCDCOG to facilitate its performance-based planning process. The BCDCOG is amending the 2040 RL RTP to include the transit safety performance measures and annual targets set and reported by TCL for the 2023 performance period.

## PERFORMANCE MEASURES AND TARGETS –

### Highway Performance

Through the federal rule-making process, the Federal Highway Administration (FHWA) requires state DOTs and MPOs to monitor the transportation system using specific performance measures. These measures are associated with the national goal areas prescribed in MAP-21 and the FAST Act. The following table describes the national goal areas, performance areas, and measures associated with Highway Performance.

Table 1: National Goal Areas and Performance Measures (Highways)

National Goal Area	Performance Area	Performance Measures
<b>Safety:</b> To achieve a significant reduction in traffic fatalities and serious injuries on all public roads.	Injuries and Fatalities	<ul style="list-style-type: none"> <li>- Number of Fatalities</li> <li>- Fatality rate (per 100 million VMT)</li> <li>- Number of serious injuries</li> <li>- Serious injury rate (per 100 million VMT)</li> <li>- Number of non-motorized fatalities and non-motorized serious injuries</li> </ul>
<b>Infrastructure Condition:</b> To maintain the highway infrastructure asset system in a state of good repair.	Pavement Condition	<ul style="list-style-type: none"> <li>- Percent of pavements on the Interstate System in Good Condition</li> <li>- Percent of pavements on the Interstate System in Poor Condition</li> <li>- Percent of pavements on the non-Interstate System in Good Condition</li> <li>- Percent of pavements on the non-Interstate System in Poor Condition</li> </ul>
	Bridge Condition	<ul style="list-style-type: none"> <li>- Percent of NHS bridges classified as in Good Condition</li> <li>- Percent of NHS bridges classified as in Poor Condition</li> </ul>
<b>System Reliability:</b> To improve the efficiency of the surface transportation system.	Performance of the National Highway System	<ul style="list-style-type: none"> <li>- Percent of person miles traveled on the Interstate System that are reliable</li> <li>- Percent of person miles traveled on the non-Interstate NHS that are reliable</li> </ul>
<b>Freight Movement and Economic Vitality:</b> To improve the National Highway Freight Network, strengthen the ability of rural communities to access national and international trade markets, and support regional economic development.	Freight Movement on the Interstate System	<ul style="list-style-type: none"> <li>- Truck Travel Time Reliability</li> </ul>
<b>Congestion Reduction:</b> To achieve a significant reduction in congestion on the Nation Highway System.	Traffic Congestion	<ul style="list-style-type: none"> <li>- Annual hours of peak-hour excessive delay per capita</li> <li>- Percent of non-single-occupant vehicle traffic</li> </ul>
<b>Environmental Sustainability:</b> To enhance the performance of the transportation system while protecting and enhancing the natural environment.	On-Road Mobile Source Emissions*	<ul style="list-style-type: none"> <li>- Total emissions reduction*</li> </ul>

Note - \* This measure only applies to non-attainment or maintenance areas over a prescribed population threshold. This measure does not apply to the BCD planning area

## Highway Safety

For the 2023 performance period, the BCDCOG accepts and supports the State of South Carolina's DOT safety targets for all five highway safety performance measures presented in Table 2.

Table 2: SCDOT and BCD Rural Planning Area Safety Measures Baselines (2017-21) and Safety Performance Targets (2023)

Measure	Traffic Fatalities	Fatality Rate*	Serious Injuries	Serious Injuries Rate*	NMU Fatalities and Serious Injuries
State Baseline (2017-2021) Average	1,058	1.88	2,859	5.073	458
<b>State Targets (2019-2023) Approved</b>	<b>1,119</b>	<b>1.94</b>	<b>2,868</b>	<b>4.96</b>	<b>485</b>
BCD Baseline (2017-2021) Average	40.6	2.25	79.4	4.428	10.6

Note - \*Rate per 100 million vehicle miles traveled

This means BCDCOG will:

- Address areas of concern for fatalities or serious injuries within the rural planning area through coordination with SCDOT and incorporation of safety considerations on all projects;
- Integrate safety goals, objectives, performance measures, and targets into the planning process; and
- Include the anticipated effect toward achieving the targets noted above within the RTIP, effectively linking investment priorities to safety target achievement.

## Transit Performance

Recipients and sub-recipients of public transit funds—which can include states, local authorities, and public transportation operators—are required to establish performance targets for safety annually and report on their progress toward achieving set targets. Public transportation operators are directed to share information with MPOs/COGs and states so that all plans and performance reports are coordinated. Table 3 identifies performance measures outlined in the National Public Safety Transportation Plan, released by the Federal Transit Administration (FTA), and in the final rule for transit asset management.

Table 3: National Goal Areas and Performance Measures (Transit)

National Goal Area	Transit Performance Area or Asset Category	Performance Measures
<b>Safety</b>	Fatalities	Total number of reportable fatalities and rate per total vehicle revenue miles by mode
	Injuries	Total number of reportable injuries and rate per total vehicle revenue miles by mode
	Safety Events	Total number of reportable events and rate per total vehicle revenue miles by mode
	System Reliability	Mean distance between major mechanical failures by mode
<b>Infrastructure Condition (State of Good Repair: Transit Asset Management)</b>	Equipment	Percent of vehicles that have met or exceeded their Useful Life Benchmark (ULB)
	Rolling Stock	Percent of revenue vehicles within a particular asset class that have met or exceeded their ULB
	Facilities	Percent of facilities within an asset class rated below 3.0 on the FTA Transit Economic Requirement Model scale

**Transit Safety**

The region's rural transit provider, TriCounty Link (TCL), as required by the federal Public Transportation Agency Safety Plan (PTASP) final rule effective June 19, 2019, has developed a PTASP including processes and procedures implementing a Safety Management Systems (SMS) for the local transit agency. The BCDCOG Board of Directors certified TCL's Safety Plan, and adopted its annual Plan update on June 21, 2022. Included in Table 4 below are the agency's initial targets and summary of performance for the 2022 period, and the targets set for the 2023 performance period. The agency will report on progress and update targets on an annual basis, and coordinate with the BCDCOG to ensure that the goals, objectives, measures and targets set in the PTASP are integrated into the COG's planning processes.

Table 4: TCL Transit Safety Performance (2022) and Safety Targets (2023)

Mode of Transit Service	Fatalities (Total)	Fatality Rate*	Injuries (Total)	Injuries Rate*	Safety Events (Total)	Safety Events Rate*	System Reliability**
All Bus Service (2019 Baseline)	0	0	5	5.35	10	10.7	25,000
All Bus Service (2021 Actual Performance)	0	0	2	4.1	8	16.5	92,432
All Bus Service (2022 Target)	0	0	5	0.7	10	1.4	60,000
All Bus Service (2022 Actual Performance)	0	0	2	0.28	9	1.3	71,321
<b>All Bus Service (2023 Targets)</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0.42</b>	<b>9</b>	<b>1.3</b>	<b>60,000</b>

Note - \*Rate per 100,000 vehicle revenue miles (VRM); \*\*Average distance (VRM) between major mechanical failures

For the 2023 performance period the BCDCOG accepts and supports the safety performance targets set in the TriCounty Link PTASP. The COG will continue to work with TCL to achieve these targets.

**APPENDIX A: ADOPTION AND APPROVAL RESOLUTION**

RESOLUTION

ADOPTION OF 2023 HIGHWAY AND TRANSIT SAFETY TARGETS BY THE BERKELEY-CHARLESTON-DORCHESTER COUNCIL OF GOVERNMENTS (BCDCOG)

WHEREAS, the Berkeley-Charleston-Dorchester Council of Governments is a public body authorized by the General Assembly of the State of South Carolina to serve as the regional planning organization for the counties of Berkeley, Charleston and Dorchester as well as the municipal governments contained within those counties; and

WHEREAS, the federal surface transportation programs that are the responsibility of the BCDCOG are authorized by the Infrastructure Investment and Jobs Act (IIJA) also known as the "Bipartisan Infrastructure Law" (BIL) (Pub. L. 117-58, November 15, 2021); and

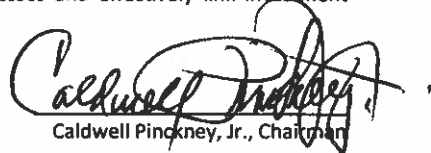
WHEREAS, the regional transportation planning process shall provide for the establishment and use of a performance-based approach to transportation decision making to support the national goals described in 23 U.S.C. 150(b) and the general purposes described in 49 U.S.C. 5301(c); and

WHEREAS, the BCD Council of Governments as the regional planning organization is required to adopt annual safety performance targets specific to the planning area; and


WHEREAS, the BCD Council of Governments has chosen to adopt and support both the statewide safety performance targets approved by the South Carolina Department of Transportation related to highway safety (PM1) as well as the transit safety targets approved by the region's public transit provider for the 2023 performance period; and

WHEREAS, these targets shall, by amendment, be included within the BCD 2040 RL RTP document, adopted August 24, 2020,

NOW, THEREFORE, BE IT RESOLVED that the BCDCOG has agreed to adopt the highway and transit safety targets for the 2023 performance period, and shall continue to work in coordination to ensure that these targets are integrated into the COG's planning processes and effectively link investment priorities to safety target achievement.

  
Caldwell Pinckney, Jr., Chairman

Certified true and correct copy of a resolution adopted by the Berkeley-Charleston-Dorchester Council of Governments on February 27, 2023.

  
Ronald E. Mitchum, Executive Director  
2/27/23  
Date

**APPENDIX B: TriCounty Link Public Transportation Agency Safety Plan (PTASP) 2023 Performance Targets**



**MEMORANDUM**

**TO:** Sarah Cox, Transportation Planner, BCDCOG / CHATS MPO  
**FROM:** Jeff Hughes, Chief Safety Officer, BCDCOG  
**DATE:** November 3, 2022  
**SUBJECT:** Public Transportation Agency Safety Plan Performance Targets  
**CC:** Kathryn Basha, Planning Director, BCDCOG / CHATS MPO; file

The Public Transportation Agency Safety Plan (PTASP) final rule was issued on June 19, 2018. The issuance of this final rule serves as a capstone for a collection of rules making up the Public Transportation Safety Program, including the National Public Transportation Safety Plan Rule, which defines the four performance measures for which transit agencies and MPOs have to set targets. The PTASP final rule has an effective date of July 19, 2019, and applies to transit agencies that are recipients and sub-recipients of FTA Section 5307 funding. Applicable transit operators are required to develop a PTASP including processes and procedures implementing a Safety Management Systems (SMS). The RTMA Board of Directors adopted its annual Safety Plan certification on June 21, 2022. Included below are the 2023 targets for the four safety measures, which is updated annually hereafter. In addition, the performance data shifted to the

FTA’s PTASP regulation, 49 CFR Part 673, requires the state or transit agency that drafted the Agency Safety Plan to make its safety performance targets available to states and MPOs to aid in the planning process and to coordinate with states and MPOs in the selection of state and MPO safety performance targets. The MPO is responsible for integrating performance measures from PTASP into their planning processes in accordance with 23 CFR §450.306(d)(4) that states “an MPO shall integrate in the metropolitan transportation planning process, directly or by reference, the goals, objectives, performance measures, and targets described in other state transportation plans and transportation processes, as well as any plans developed under 49 U.S.C. Chapter 53 by providers of public transportation, required as part of a performance-based program...” The regulation lists nine plans that are among those the MPO must integrate into its planning process (23 CFR § 450.306(d)(4)(i)-(viii)), & the PTASP is one of them.

2023 Safety Performance Targets (SPT) RTMA							
Mode of Transit Service	Fatalities (Total)	Fatalities (Rate)	Injuries (Total)	Injuries (Rate)	Safety Events (Total)	Safety Events (Rate)	System Reliability (Average distance between major mechanical failures)
All Bus Services	0	0/100,000 VRM	3	.42/100,000 VRM	9	1.3/100,000 VRM	60,000 VRM

2022 Safety Performance Targets (SPT) RTMA								
	Mode of Transit Service	Fatalities (Total)	Fatalities (Rate)	Injuries (Total)	Injuries (Rate)	Safety Events (Total)	Safety Events (Rate)	System Reliability (Average distance between major mechanical failures)
Target	All Bus Services	0	0/100,000 VRM	5	.70/100,000 VRM	10	1.4/100,000 VRM	60,000 VRM
Actual	All Bus Services	0	0/100,000 VRM	2	.28/100,000 VRM	9	1.3/100,000 VRM	71,321 VRM

RTMA established the goal to make transit safer for all customers, employees, and the local community through policy development, hazard investigation, data collection, risk analysis, effective oversight programs, and information sharing. Staff will continue to work toward improving processes to ensure the safety of its customers, employees, and the public with the goal of exceeding the performance measures established in the PTASP. RTMA aims to support a robust safety culture, and achieve the highest level of safety performance, meeting all established safety standards with a commitment to safety from the Board of Directors, to the executive leadership team to the frontline employee.

In summary, there were a total of **713,214 VRM**, 10 mechanical failures, 2 total injuries, and 9 total safety events.

Please feel free to contact me with any questions or for further information. We appreciate the coordinated effort with our member jurisdictions, the CHATS MPO, and SCDOT to improve safety for transit access and transit facilities.

**\*NOTE-** The targets have been converted to the FTA standard of vehicle revenue miles (**VRM**) versus passenger trips, which explains the difference in performance data calculations from previous year.

**Target SPT injuries (5)/ by annual expected VRM (713,214) X 100,000 = .70 per 100,000 VRM**

**Target SPT safety events (10)/ by annual expected VRM (713,214) X 100,000=1.4**

**Actual SPT system reliability 713,214/10= 71,321**