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Memorandum

To: MPO Committee Members

From: Sandy Shackelford, Director of Planning & Transportation

Date: January 10, 2023

Reference: Charlottesville-Albemarle MPO Performance Targets

Purpose:

The Moving Ahead for Progress in the 21st Century Act, MAP-21, signed into law in 2012, established requirements for states to develop performance measures that would align with nationally established performance goals and be used to direct resources in projects that support the achievement of the national goals, which are listed below.

Table 1. National Performance Goals

Goal area	National Goal
Safety	To achieve a significant reduction in traffic fatalities and serious injuries on all public
	roads
Infrastructure	
condition	To maintain the highway infrastructure asset system in a state of good repair
Congestion	To achieve a significant reduction in congestion on the National Highway System
reduction	To achieve a significant reduction in congestion on the National Fighway System
System reliability	To improve the efficiency of the surface transportation system
Freight movement	To improve the national freight network, strengthen the ability of rural communities
and economic	to access national and international trade markets, and support regional economic
vitality	development
Environmental	To enhance the performance of the transportation system while protecting and
sustainability	enhancing the natural environment
Reduced project	To reduce project costs, promote jobs and the economy, and expedite the movement
delivery delays	of people and goods by accelerating project completion through eliminating delays in
	the project development and delivery process, including reducing regulatory burdens
	and improving agencies' work practices

The U.S. Secretary of Transportation, in consultation with States, MPOs and other stakeholders, establishes performance measures in the following areas:

- Pavement condition on the Interstate System and on remainder of the National Highway System (NHS)
- Performance of the Interstate System and the remainder of the NHS
- Bridge condition on the NHS



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- Fatalities and serious injuries—both number and rate per vehicle mile traveled--on all public roads
- Traffic congestion
- On-road mobile source emissions
- Freight movement on the Interstate System

Within one year of the DOT final rule on the established performance measures, States must establish their performance targets in support of those measures. Within 180 days of the States' establishment of their targets, MPOs are required to also establish performance targets that support the State and National targets where applicable.

Background:

In establishing the MPO's performance targets, the MPO is committing to pursuing projects and objectives that support the adopted targets. Because VDOT maintains the majority of the transportation infrastructure and sets priorities for ongoing infrastructure maintenance and repair and establishes the prioritization process for approving new transportation infrastructure, the MPO has historically adopted the state's targets. The targets are developed using a data-driven process.

Safety Performance Targets

The safety targets are established annually. Based on the projected safety outcomes developed using the state's model-based approach, the targets that the state has set indicate that the number of fatalities will continue to increase and that the number of serious injuries will show a very minor decline, reflecting almost stagnant change from previous years.

In response to these anticipated outcomes, the Commonwealth Transportation Board has adopted aspirational performance goals reflecting the stated goals of the 2022-2026 Strategic Highway Safety Plan of reducing fatalities and serious injuries by two percent per year and directing the Office of Intermodal Planning & Investment, VDOT, and the Department of Motor Vehicles to evaluate and identify actionable strategies to improve safety performance and evaluate how such strategies will help to achieve the aspirational safety performance goals.

VDOT has provided a workbook to assist the MPOs in understanding the local trends in developing and establishing safety targets. Regardless of the safety target that is adopted for the Charlottesville-Albemarle MPO area, prioritizing projects that promote safe travel has been and will continue to be of the utmost importance. The MPO continues to pursue projects that will promote safe travel through our regional network, and is actively seeking resources to establish local strategies to establish a more comprehensive approach in improving safety outcomes such as the submission of a Safe Streets and



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Roads for All Grant and through coordination with the state's Highway Safety Improvement Program to better understand and respond to factors that contribute to unsafe outcomes.

Table 2. Safety Performance Targets showing difference in expected outcomes between existing local trends and statewide trends.

	Adopted 2-year State	CA-MPO 2023 Projections Based on	CA-MPO 2023 Projections with State
Safety Performance Targets	Targets (2023)	Trends	Targets
Percentage change fatalities	3.69%	-0.30%	3.69%
Number of fatalities	1012	9	10
Fatality rate	1.216	0.76	0.854
Percentage change serious			
injuries	-0.52%	-5.80%	-0.52%
Number of serious injuries	7465	108	121
Serious injury rate	8.971	9.204	10.265
Percentage change non- motorized fatalities + serious injuries		-1.20%	-0.86%
Number of non-motorized		-1.20/0	-0.00/0
fatalities + serious injuries		13	13

Numbers in **red** indicate the actual targets that would be adopted based on the MPO adopting the state's established safety performance targets.

Numbers in **green** indicate the actual targets that would be adopted based on the MPO adopting safety performance targets that reflect more localized trends.

Infrastructure Condition and System Performance Targets

The Infrastructure Condition and System Performance targets are established for a four-year performance period and includes bridge and pavement condition, as well as highway and freight reliability. Because the Charlottesville-Albemarle MPO is not in a non-containment area, the air quality and traffic congestion measures are not currently applicable to us.

Table 3. Asset and System Condition Targets

	CA-MPO 2021	Adopted 4-year	Proposed CA-
Asset and System Conditions Targets	Actual	State Targets (2025)	MPO Targets
Percentage of deck area of bridges in good			
condition (NBI on NHS)	10.8	25.1	25.1
Percentage of deck area of bridges in poor			
condition (NBI on NHS)	7.8	3.6	3.6
Percentage of pavement in good condition			
(Interstate)	73.5	45	45
Percentage of pavement in poor condition			
(Interstate)	0	3	3



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Percentage of pavement in good condition			
(NHS)	28.7	25	25
Percentage of pavement in poor condition (NHS)	0.1	5	5
Percentage of person-miles traveled that are			
reliable (Interstate)	100	85	85
Percentage of person-miles traveled that are			
reliable (Non-Interstate NHS)	90.7	88	88
Truck travel time reliability index (Interstate)	1.15	1.64	1.64

Transit Asset Management Targets

The Department of Rail and Public Transportation (DRPT) has provided guidance on the establishment of Transit Asset Management performance targets, and you can refer to the background information included in your packet for additional information. For smaller transit agencies such as the ones operating in the CA-MPO area, DRPT sponsors a Tier II Asset Management Plan that establishes statewide performance measures in the required categories explained in Table 4.

Table 4. TAM Performance Measures by Asset Category

Asset Category	Relevant Assets	Measure	Measure Type	Desired Direction
	Service support,	Percentage of		
	maintenance, and	vehicles that have		
	other non-revenue	met or exceeded		Minimize
Equipment	vehicles	their ULB	Age-based	percentage
	Buses, vans, and sedans; light and			
	heavy rail cars;	Percentage of		
	commuter rail cars	revenue vehicles		
	and locomotives;	that have met or		Minimize
Rolling Stock	ferry boats	exceeded their ULB	Age-based	percentage
		Percentage of track segments with performance		
	Fixed guideway	(speed) restrictions,		Minimize
Infrastructure	track	by mode	Performance-based	percentage
	Passenger stations,	Percentage of		
	parking facilities,	assets with		
	administration and	condition rating		
	maintenance	lower than 3.0 on		Minimize
Facilities	facilities	FTA TERM Scale	Condition-based	percentage



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The Tier II Group Plan targets are listed in Table 5.

Table 5. TAM Targets for rolling stock and facilities: Percentage of Revenue Vehicles that have met or exceeded their ULB by Asset Type

Asset Category - Performance Measure	Asset Class	FFY2022
Revenue Vehicles		
	AB - Articulated Bus	5%
Age - % of revenue vehicles	BU - Bus	15%
within a particular asset class	CU - Cutaway	10%
that have met or exceeded	MV-Minivan	20%
their Useful Life Benchmark	BR - Over-the-Road Bus	15%
(ULB)	VN - Van	20%
Equipment		
Age - % of vehicles that	Non-Revenue/Service Automobile	30%
have met or exceeded their	Trucks and other Rubber Tire Vehicles	30%
Useful Life Benchmark (ULB)		
Facilities		
Condition - % of facilities	Administrative Facilities	10%
with a condition rating	Maintenance Facility	10%
below 3.0 on the FTA	Passenger Facilities	15%
TERM Scale	Parking Facilities	10%

Recommendation:

The MPO Technical Committee needs to make a recommendation on the Performance Targets to be adopted to the Policy Board.

It is the staff recommendation that the CA-MPO Policy Board adopts the state performance targets in all categories to include Safety, Infrastructure Condition and System Performance, and Transit Asset Management.

Alternatively, the Policy Board could adopt the Safety Performance Targets based on the more regionally identified trends, understanding that the regional initiatives are still largely driven by the statewide approach to addressing safety factors.

If there are any questions or comments, please contact Sandy Shackelford at sshackelford@tjpdc.org.