Bethany Branford East Haven Guilford Hamden Madison Meriden Milford New Haven North Branford North Haven Orange Wallingford West Haven Woodbridge

Carl J. Amento, Executive Director

# NOTICE: THIS IS A HYBRID MEETING A ZOOM Link Is Provided For Those Wishing To Attend Remotely

**To:** Transportation Committee and Transportation Technical Committee

From: William Dickinson, Chairman, Transportation Committee

**Date:** May 3, 2023

**Subject:** Wednesday, May 10, 2023, Meeting of the Transportation Committee and Transportation

Technical Committee to be held @ 12:00 Noon in the offices of SCRCOG and via Zoom.

Join Zoom Meeting: https://us02web.zoom.us/j/81855035822

Call-In Number: +1-929-205-6099 Meeting ID: 818 5503 5822

#### Action Items:

1.	Meeting Minutes of April 12, 2023,	Page 2,3
2.	2021-2024 Transportation Improvement Program Amendment Twenty-Seven Recommend SCRCOG adoption of Resolution- James Rode	Pages 4-12
3.	<u>UPWP FY2024 and FY 2025</u> Recommend SCRCOG adoption of Resolution- James Rode	Page 13
4.	Endorsement Of Targets For Performance Measures Established By CTDOT Recommend SCRCOG adoption of Resolution- Rebecca Andreucci	Pages 14,15
5.	Resolution Regarding SCRCOG's Commitment to the Principles of Vision Zero Recommend SCRCOG adoption of Resolution-Rebecca Andreucci	Pages 16,17

#### Informational Items:

- 6. Safety Action Plan Update/SS4A Application
- 7. <u>LOTCIP Project Updates</u>
- 8. Other Business

The agenda and attachments for this meeting are available on our website at <a href="www.scrcog.org">www.scrcog.org</a>. Please contact SCRCOG at (203) 234-7555 for a copy of agenda in a language other than English. Auxiliary aids/services and limited English proficiency translators will be provided with two week's notice.

La Agenda y Adjuntos para esta reunión están disponibles en nuestro sitio web en <a href="www.scrcog.org">www.scrcog.org</a>. Favor en contactar con SCRCOG al (203) 234-7555 para obtener una copia de la Agenda en un idioma distinto al Inglés. Ayudas/servicios auxiliares e intérpretes para personas de Dominio Limitado del Inglés serán proporcionados con dos semanas de aviso



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#### Transportation Committee Minutes – April 12, 2023

#### **Transportation Committee Members**

Wallingford, Mayor William Dickinson, Chairman Guilford, FS Matthew Hoey Hamden, Mayor Lauren Garrett Milford, Justin Rosen, Proxy for Mayor Blake North Haven, Andrew Bevilacqua, Proxy for FS Freda **Guests** 

Jennifer Pacacha, CTDOT
Laurie McElwee, Kennedy Center
Mike Dion, BL
Mario Marrero, GNHTD
Jacob Robinson, Doug Hausladen, New Haven
Kevin Ortiz, Branford
Joseph Balskus, VHB

#### **Transportation Technical Committee**

East Haven, Jonathan Bodwell Guilford, Janice Plaziak Hamden Stephen White Madison, John Iennaco Meriden, Brian Ennis New Haven, Giovanni Zinn Orange, Robert Brinton Wallingford, Alison Kapushinski West Haven, Abdul Quadir

#### **SCRCOG**

James Rode, Rebecca Andreucci, Heba Naqvi

FS Hoey called the meeting to order at 12:05 PM.

#### Action Item #1: Meeting Minutes of March 8, 2023

Mayor Garrett made a motion to approve the Minutes of the March 8, 2023, meeting; B. Ennis seconded the motion, which passed unanimously.

Action Item #2: 2021-2024 Transportation Improvement Program Amendment Twenty- Six
J. Rode introduced the 3 project changes in Amendment 26. Mayor Garrett made a motion to recommend

approval. B. Brinton seconded the motion, which passed unanimously.

### Action Item #3: Metropolitan Transportation Plan 2023-2050 J Rode introduced the Metropolitan Transportation Plan 2023-205

J Rode introduced the Metropolitan Transportation Plan 2023-2050 and talked about the process to put the plan together. L Francis pointed out the format changes that were made to the document and the inclusion of goals. FS Hoey asked for a motion to recommend approval of the 2023-2050 MTP. Mayor Garrett made a motion to recommend approval. B. Brinton seconded. The motion passed on a majority with J. Bodwell voting against. unanimously. Approval of the MTP required the Committee to also approve the Air Quality Conformity Determinations. FS Hoey asked for a motion to accept CTDOT's analysis of conformity for ozone and PM 2.5 Mayor Dickinson made the motion. B. Brinton seconded and the motion passed unanimously.

#### Information Item #4: Draft UPWP FY2024 and FY 2025

J. Rode gave a status update on the new UPWP. A preliminary draft was discussed last month and submitted to CTDOT for comments on March 17<sup>th</sup>. Once feedback is received, the draft will be updated and distributed to committee for their review. L. Francis discussed some of the highlights of the new plan and answered questions.



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#### **Information Item #5: Safety Action Plan Update**

L. Francis updated the committee on efforts to update the regional transportation safety plan and the SS4A application. A lot has been learned through working with the consultant and attending program webinars.

#### Information Item #6: Highway Safety Improvement Program Implementation Plan.

J. Rode discussed the HSIP implementation plan and the opportunity for municipalities to suggest safety projects to receive funding. The committee will be updated as more information is made available.

#### **Information Item #5: LOTCIP Discussion**

J Rode gave a progress update on LOTCIP projects and encouraged committee members to continue to advance their applications.

**Other Business** J Plaziak made and a motion to adjourn. Mayor Garret seconded and the meeting adjourned at 12:42PM.

#### South Central Regional Council of Governments

#### 2021-2024 TRANSPORTATION IMPROVEMENT PROGRAM

**Project** 

0083-0271

2021-A11-1

Amendment Number 27

Replace Highway Signs and Supports Rte 15

Changes Amendment 27 moves funds to FY24 Reason This action is necessary based on a revised schedule. **Project** 0156-0178 2014-A1-1 Sidewalk and Bike Path Streetscape Page5 Changes Amendment 27 moves CON to FY23 Reason This action is necessary based on a revised schedule. **Project** 0156-0181 2019-TIP21-1 Replace Br #00162 Design-Build Page 6 Amendment 27 adjusts funding and adds ROW. Changes Reason This action is necessary based on a revised schedule. **Project** 0170-3548 2021-A0-77 PIN & HANGER ASSEMBLIES FOR FRACTURE Page 7 Changes Amendment 27 removes CON phase funding from the TIP. Reason This action is necessary as CON phase will be accomplished with 100% state funds. 0170-3640 **Project** 2023-A27-1 **Service Plaza Mainline Signs and Sign Supports** Page 8 Changes Amendment 27 adds a new project to improve directional guidance to motorists seeking the use of a Service Plaza. This project will create a standard signing practice and enhance driver recognition utilizing additional Logo signing on the mainline approach to the Service Plazas. STATEWIDE BUS SHELTER IMPROVEMENT **Project** 0170-XXXX 2019-A0 Page 8 Amendment 27 moves 5307 funds from FY21 and FY22 into FY23 as 5307P Changes Reason This action is necessary to allow the Department to file a grant application for the funds. STATEWIDE BUS STOP SIGN PROGRAM **Project** 0170-XXXX 2019-A0 Page 9 Amendment 27 moves funds to FY23 Changes Reason This action is necessary to allow the Department to file a grant application for the funds. **Project** 0173-0539 2023-A27-2 D3 Retaining Walls Pod 3A & 3B Page 10 Changes Amendment 27 adds a new project to replace, rehabilitate or remove deficient retaining wall structures and inspect walls to replace, rehabilitate or remove within the area (Pod) in various locations in regions designated as Pods 3A and 3B located in district 3.

Page 5

**State Project #0083-0271** 

SCRCOG # 2021-A11-1 AQ Code X6

Municipality Regional

Proposed

**Project Name** Replace Highway Signs and Supports Rte 15

**Description** Replacement of highway signs and sign supports along CT 15 (Wilbur Cross Parkway) from Milford to the Berlin Turnpike in Meriden.

<b>Current TIP</b>	Funding	(In Thous	ands)					
Funding	Phase		Prior	2021	2022	2023	2024	FYI
NHPP	CON	Federal				11,100		
Total Cost	\$11,100		0	0	0	11,100	0	0

Proposed TIP Funding (In Thousands)												
Funding	Phase		Prior	2021	2022	2023	2024	FYI				
NHPP	CON	Federal					11,100					
TIP Funds	\$11,100		0	0	0	0	11,100	0				

#### **Amendment Notes**

FY21 TIP Amend 11 adds prject, FY21 TIP Amend 27 moves funds to FY24

**State Project #0156-0178** 

SCRCOG # 2014-A1-1

Municipality West Haven

AQ Code X6

Proposed

Project Name Sidewalk and Bike Path Streetscape

**Description** Project will provide sidewalks and bike path along one side of the road from the railroad station to the Yale campus on Morgan Lane. Road to be milled and paved. Funding is HPPS Earmark

<b>Current TIP</b>	Funding	(In Thous	ands)					
Funding	Phase		Prior	2021	2022	2023	2024	FYI
HPP	CON	Federal				724		
Total Cost	\$724		0	0	0	724	0	0

<b>Proposed T</b>	Proposed TIP Funding (In Thousands)													
Funding	Phase		Prior	2021	2022	2023	2024	FYI						
HPP	CON	Federal					724							
		Local					806							
TIP Funds	\$1,530		0	0	0	0	1,530	0						

#### **Amendment Notes**

FY15 TIP Amend 1 introduces new project FY15 TIP Amend 12 moves schedule out 1 year CON phase moved to FYI, Moved to FY21 TIP FY21 TIP Amend 16 moves CON to FY23, TIP FY21 TIP Amend 27 moves CON to FY23

**State Project #0156-0181** 

SCRCOG # 2019-TIP21-AQ Code X6

**Municipality** West Haven

Proposed

Project Name Replace Br #00162 Design-Build

**Description** NHS - Replacement of Bridge No. 00162 (including addition of operational lane) carrying Interstate-95 over Metro North Railroad in West Haven. This project will use the Design-Build delivery method.

<b>Current TIP</b>	Current TIP Funding (In Thousands)												
Funding	Phase	Prior	2021	2022	2023	2024	FYI						
NHPP-BRX	CON AC-Entry			0									
	Federal			85,000	9,500								
	State			9,444	1,056								
Total Cost	\$105,000	0	0	94,444	10,556	0	0						

<b>Proposed T</b>	Proposed TIP Funding (In Thousands)													
Funding	Phase		Prior	2021	2022	2023	2024	FYI						
NHPP-BRX	ROW	Federal				495								
		State				55								
	CON	AC-Entry			0									
		Federal			85,000	26,600		13,900						
		State			9,444	2,956		1,544						
TIP Funds	\$139,99	4	0	0	94,444	30,106	0	15,444						

#### **Amendment Notes**

Moved to FY21 TIP, FY21 TIP Amend 17 adds CON Funding. FY21 TIP Amend 19 adjusts schedule, FY21 TIP Amend 27 adjusts funding and adds ROW

**State Project #0170-3548** 

SCRCOG # 2021-A0-77 AQ Code X6

**Municipality** Statewide

Proposed

Project Name PIN & HANGER ASSEMBLIES FOR FRACTURE CRITICAL Brdg

**Description** Project will address fracture critical Pin & Hanger and Hinge Pin Assemblies on (4) bridges. Bridge Nos. 03367, 03160A and 03160B in Hartford And Bridge No. 03015A in New Haven carries I-91 Southbound over State Street and Mill River

<b>Current TIP</b>	Funding	(In Thous	ands)					
Funding	Phase		Prior	2021	2022	2023	2024	FYI
NHPP-BRX	FD	Federal			495			
		State			55			
	ROW	Federal			45			
		State			5			
	CON	Federal				14,940		
		State				1,660		
Total Cost	\$17,200		0	0	600	16,600	0	0

<b>Proposed T</b>	IP Fundii	ng (In Th	ousands	s)				
Funding	Phase		Prior	2021	2022	2023	2024	FYI
NHPP-BRX	FD	Federal			495			
		State			55			
	ROW	Federal			45			
		State			5			
TIP Funds	\$600		0	0	600	0	0	0

#### **Amendment Notes**

FY21 TIP added project. FY21 TIP Amend 8 moves schedule, FY21 TIP Amend 27 removes CON phase funding from the TIP

**State Project #0170-3640** 

SCRCOG # 2023-A27-1 AQ Code X6

Municipality Regional

Proposed

Project Name Service Plaza Mainline Signs and Sign Supports

**Description** Service Plaza mainline sign and sign support replacement along I-95 and I-395.

**Current TIP Funding (In Thousands)** 

Proposed TIP Funding (In Thousands)												
Funding	Phase		Prior	2021	2022	2023	2024	FYI				
NHPP	CON	Federal						3,750				
TIP Funds	\$3,750		0	0	0	0	0	3,750				

#### **Amendment Notes**

FY21 TIP Amend 27 adds a new project.

State Project #0170-XXXX

Municipality Statewide

SCRCOG # 2019-A0

AQ Code

Proposed

Project Name STATEWIDE BUS SHELTER IMPROVEMENT PROGRAM

**Description** statewide bus shelter enhancement program. This four year program will establish a procurement and installation processes for the new bus shelters across the region.

<b>Current TIP</b>	Funding (In	Thous	ands)					
Funding	Phase		Prior	2021	2022	2023	2024	FYI
5307C	OTH F	ederal		1,200	1,200	1,200	1,200	
		State		300	300	300	300	
5307P	F	ederal		1,200				
		State		300				
Total Cost	\$7,500		0	3,000	1,500	1,500	1,500	0

<b>Proposed T</b>	IP Fundir	ng (In Th	ousand	s)				
Funding	Phase		Prior	2021	2022	2023	2024	FYI
5307C	ОТН	Federal				1,200	1,200	
		State				300	300	
5307P		Federal				3,600		
		State				900		
TIP Funds	\$7,500		0	0	0	6,000	1,500	0

#### **Amendment Notes**

FY 21 Amend 27 moves 5307 funds from FY21 and FY22 into FY23 as 5307P

State Project #0170-XXXX

SCRCOG # 2019-A0 AQ Code

**Municipality** Statewide

Proposed

Project Name STATEWIDE BUS STOP SIGN PROGRAM IMPLEMENTATION

**Description** STATEWIDE BUS STOP SIGN PROGRAM -IMPLEMENTATION FY 21

Current TIP	Current TIP Funding (In Thousands)							
Funding	Phase		Prior	2021	2022	2023	2024	FYI
5307C	ОТН	Federal		1,200				
		State		300				
5307P		Federal		400				
		State		100				
Total Cost	\$2,000		0	2,000	0	0	0	0

Proposed T	Proposed TIP Funding (In Thousands)							
Funding	Phase		Prior	2021	2022	2023	2024	FYI
5307P	OTH	Federal				1,600		
		State				400		
TIP Funds	\$2,000		0	0	0	2,000	0	0

#### **Amendment Notes**

FY21 TIP Amend 27 moves funds to FY23

**State Project #0173-0539** 

SCRCOG # 2023-A27-2 AQ Code X6

**Municipality** District 3

Proposed

Project Name D3 Retaining Walls Pod 3A & 3B

**Description** Replace, rehabilitate, or eliminate deficient retaining wall structures and inspect walls to replace, rehabilitate or eliminate within the area (POD) in various locations in a region designated Pod 3A & 3B, located in District 3.

#### **Current TIP Funding (In Thousands)**

<b>Proposed T</b>	Proposed TIP Funding (In Thousands)							
Funding	Phase		Prior	2021	2022	2023	2024	FYI
STPA	ROW	Federal					40	
		State					10	
	CON	Federal						9,040
		State						2,260
TIP Funds	\$11,350		0	0	0	0	50	11,300

#### **Amendment Notes**

FY21 TIP Amend 27 adds a new project.

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Carl J. Amento, Executive Director

#### Resolution

Fiscal Year 2021-Fiscal Year 2024 Transportation Improvement Program Amendment Twenty-Seven

Whereas: U.S. Department of Transportation "Metropolitan Planning Regulations" (23 CFR 450) prescribe that each metropolitan planning organization maintain a financially constrained multi-modal transportation improvement program consistent with a State Implementation Plan for Air Quality (SIP) conforming to both U.S. Environmental Protection Administration-established air quality guidelines and SIP-established mobile source emissions budgets; and

Whereas: The Council, per 23 CFR 450.324 and in cooperation with the Connecticut Department of Transportation (ConnDOT) and public transit operators and relying upon financial constraints offered by ConnDOT, adopted a Fiscal Year 2021-Fiscal Year 2024 Transportation Improvement Program on September 23, 2020, after finding the Program conforming per U.S. Environmental Protection Administration (U.S. EPA) final conformity rule (40 CFR 51 and 93) and relevant Connecticut Department of Transportation air quality conformity determinations: Air Quality Conformity Reports: Fiscal Year 2021-2024 Transportation Improvement Program and the Region's Metropolitan Transportation Plans—2019 to 2045, (April, 2019); and

Whereas: The Council, on September 23, 2020, indicated that periodic Program adjustment or amendment was possible; and

Whereas: Projects referenced in the Program amendment (below) are consistent with the region's metropolitan transportation plan Metropolitan Transportation Plans—2023 to 2050, (April, 2019); and

Whereas: Council Public Participation Guidelines: Transportation Planning have been observed during the development of the proposed Program amendment (below); and

Whereas: By agreement between the Council and the Connecticut Department of Transportation, public involvement activities carried out by the South Central Regional Council of Governments in response to U.S. Department of Transportation metropolitan planning requirements are intended to satisfy the requirements associated with development of a Statewide Transportation Improvement Program and/or its amendment; and

Whereas: Council of Governments' review of transportation goals, projects and opportunities may result in further adjustment or amendment of the *Program*.



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#### Resolution

Fiscal Year 2021-Fiscal Year 2024 Transportation Improvement Program Amendment Twenty-Seven (Continued)

Now, Therefore, Be It Resolved by the Council of Governments:

The Program Amendment *Twenty-Seven* shall be transmitted to the Connecticut Department of Transportation, for inclusion in the *State Transportation Improvement Program* 

The undersigned duly qualified and acting Secretary of the South Central Regional Council of Governments certifies that the foregoing is a true and correct copy of a resolution adopted at a legally convened meeting of the South Central Regional Council of Governments on **May 24**, **2023** 

Date May 24, 2023	<i>By:</i> _	
·	_	First Selectwoman Peggy Lyons Secretary
		South Central Regional Council of Governments



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#### Resolution

Approving the Final Fiscal Year 2024 and Fiscal Year 2025 Unified Planning Work Program

Whereas: comments from the U.S. Federal Transit Administration, the U.S. Federal Highway Administration, and the Connecticut Department of Transportation were incorporated into a final Fiscal Year 2024 and Fiscal Year 2025 Unified Planning Work Program; and

Whereas: The Council's Transportation Committee reviewed Fiscal Year 2024 and Fiscal Year 2025 Unified Planning Work Program on May 10, 2023 and recommended that the Council of Governments adopt the final work program.

Now, Therefore, Be It Resolved by the Council of Governments

That the final Fiscal Year 2024 and Fiscal Year 2025 Unified Planning Work Program is hereby adopted.

Certificate

The undersigned duly qualified and acting Secretary of the South Central Regional Council of Governments certifies that the foregoing is a true and correct copy of a resolution adopted at a legally convened meeting of the Council of Governments on May 26, 2021.

Date May 24, 2023	Ву:
•	First Selectwoman Peggy Lyons Secretary
	South Central Regional Council of Governments



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Carl J. Amento, Executive Director

# RESOLUTION FOR ENDORSEMENT OF TARGETS FOR VARIOUS PERFORMANCE MEASURES ESTABLISHED BY CTDOT

WHEREAS, the South Central Regional Council of Governments (SCRCOG) has been designated by the Governor of the State Connecticut as the Metropolitan Planning Organization (MPO) responsible, together with the State, for the comprehensive, continuing, and cooperative transportation planning process for the south central region of Connecticut; and

WHEREAS the National Performance Management Measures final rule (23 CFR Part 490) requires States to set targets for performance measures in the areas of Infrastructure Condition, heretofore referred to as "PM2" and Highway System Performance, Freight Movement, and Congestion and Air Quality, heretofore referred to as "PM3," by December 16, 2022, and

WHEREAS, the Connecticut Department of Transportation (CTDOT) has established targets for ten performance measures for:

- (1) the "Percentage of pavements of the Interstate System in Good condition,"
- (2) the "Percentage of pavements of the Interstate System in Poor condition,"
- (3) the "Percentage of pavements of the non-Interstate NHS (National Highway System) in Good condition,"
- (4) the "Percentage of pavements of the non-Interstate NHS in Poor condition,"
- (5) the "Percentage of National Highway System Bridges Classified as in Good condition,"
- (6) the "Percentage of National Highway System Bridges Classified as in Poor condition,"
- (7) the "Percent of Person-Miles Traveled on the Interstate that are reliable,"
- (8) the "Percent of person-miles traveled on the non-Interstate NHS that are reliable,"
- (9) the "Truck Travel Time Reliability Index,"
- (10) the "Total Emissions Reduction," and



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set unified targets with all applicable state DOTs and MPOs for two congestion measures specific to each of six (6) applicable urbanized areas as determined by the Federal Highway Administration (FHWA), the two measures being

- (11) the "Peak Hour Excessive Delay" and
- (12) the "Percent of Non-Single Occupancy Vehicle (non-SOV) Travel;" and,

WHEREAS the CTDOT coordinated to the maximum extent practicable the establishment of these targets with the 8 Metropolitan Planning Organizations (MPOs) in Connecticut throughout 2022 at COG Coordination meetings and specific meetings with applicable MPOs and state DOTs for the congestion measures, and

WHEREAS the SCRCOG may establish targets by agreeing to plan and program projects that contribute toward the accomplishment of the aforementioned State's targets, or establish its own target within 180 days of the State establishing and reporting its targets,

NOW THEREFORE, BE IT RESOLVED, that the MPO Policy Board has agreed to support CTDOT's 2022 targets for all performance targets as attached herein, and

BE IT FURTHER RESOLVED, that the MPO Policy Board will plan and program projects that contribute to the accomplishment of said targets.

The undersigned duly qualified and acting Secretary of the South Central Regional Council of Governments certifies that the foregoing is a true and correct copy of a resolution adopted at a legally convened meeting of the South Central Regional Council of Governments on **May 24**, **2023** 

Date May 24, 2023	<i>By:</i>	
·	_	First Selectwoman Peggy Lyons Secretary South Central Regional Council of Governments



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Carl J. Amento, Executive Director

#### Resolution

# To a Commitment to the Goal of Zero Traffic Deaths Following the Principles of Vision Zero

- WHEREAS, crashes resulting in roadway deaths and serious injuries are preventable and not an inevitable result of the transportation system; and
- WHEREAS, the South Central Regional Council Of Governments (SCRCOG) and its member municipalities strive to create a region that provides safe mobility for all; and
- WHEREAS, a commitment to Vision Zero is a commitment to the value and life of the residents of and visitors to the South Central Planning Region; and
- WHEREAS, the State of Connecticut has created a cross-agency Vision Zero Council to examine ways to improve roadway safety throughout the State, tasked with developing a statewide Vision Zero implementation plan and presenting data and targets to the Legislature for their consideration; and
- WHEREAS, the number of fatalities and serious injuries in the region is a public health issue that must and can be addressed to ensure the wellbeing and benefit of our communities; and
- WHEREAS, Vision Zero is a data-driven strategy to eliminate all traffic fatalities and severe injuries while increasing safe, healthy, equitable mobility for all; and
- WHEREAS, improvements to roadway safety, especially for non-motorized users, aligns with the various Metropolitan Transportation Plans, Regional Safety Action Plan, and governing policies of the CT DOT;
- WHEREAS, Vision Zero uses a safe systems approach to traffic engineering that recognizes that humans make mistakes, and that transportation infrastructure should account for those mistakes; and
- WHEREAS, Vision Zero road safety goals are accomplished through a combination of engineering, education, emergency response, and enforcement measures; and
- WHEREAS, preventing crashes within the region requires a comprehensive response from all municipalities, the SCRCOG, and the CTDOT, that looks at transportation planning, design, policy, enforcement, education, and communication in order to most greatly impact the flaws within our transportation system.

Now, Therefore, Be It Resolved By the Council of Governments:



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Vision Zero efforts will take into account equity and ensure that the most vulnerable roadway users receive the necessary attention to ensure their safety and mobility; and that ongoing public engagement will be a critical component of development and implementation of this plan, gathering input from residents, users of the roadway system, safety advocates, and municipal staff. SCRCOG and its member municipalities commit to zero traffic deaths and serious injuries by or before the year 2060. SCRCOG will monitor the progress of traffic safety measures and implementation and continually suggest improvements in moving to accomplish the Vision Zero commitment.

The undersigned duly qualified and acting Secretary of the South Central Regional Council of Governments certifies that the foregoing is a true and correct copy of a resolution adopted at a legally convened meeting of the South Central Regional Council of Governments on **May 24**, **2023**.

Date May 24, 2023	Ву:	
•	_	First Selectwoman Peggy Lyons Secretary
		South Central Regional Council of Governments

### **Transportation Performance Management**

# State Biennial Performance Report for Performance Period 2022-2025 (NEW TARGETS)

### 2022

## **Baseline Performance Period Report**

### Connecticut

Report Due: 12/16/2022
Report Status: Pending Submission
Report Updated On:
Report Exported on 12/16/2022

This document is exported from the Federal Highway Administration's (FHWA) web-based Performance Management Form (PMF) of the Policy Information Data Portal (PIDP).

The web-based PMF is the State's official report to FHWA.

#### **State Contact:**

: Edgardo D. Block, PE : 8605942495 Name

Phone number

: edgardo.block@ct.gov **Email** 

## **Summary of Performance Measures and Targets**

Performance Measures	Baseline	2-Year	4-Year
Descentance of Descendents of the Interestate Constant in Const	CO CO/	<b>Target</b> 72.0%	Target
Percentage of Pavements of the Interstate System in Good Condition	68.6%		70.0%
Percentage of Pavements of the Interstate System in Poor Condition	0.2%	1.0%	1.3%
Percentage of Pavements of the Non-Interstate NHS in Good Condition	37.9%	37.0%	35.0%
Percentage of Pavements of the Non-Interstate NHS in Poor Condition	1.8%	2.7%	3.5%
Percentage of NHS Bridges Classified as in Good Condition	14.1%	14.2%	14.5%
Percentage of NHS Bridges Classified as in Poor Condition	7.7%	6.2%	6.0%
Percent of the Person-Miles Traveled on the Interstate That Are Reliable	86.2%	78.6%	78.6%
Percent of the Person-Miles Traveled on the Non-Interstate NHS That Are Reliable	90.0%	84.9%	84.9%
Truck Travel Time Reliability (TTTR) Index	1.56	1.95	2.02
Annual Hours of Peak Hour Excessive Delay Per Capita: BridgeportStamford, CTNY	12.6%	20.0	21.9
Annual Hours of Peak Hour Excessive Delay Per Capita: Hartford, CT	5.7%	9.8	9.8
Annual Hours of Peak Hour Excessive Delay Per Capita: New Haven, CT	7.5%	7.9	7.9
Annual Hours of Peak Hour Excessive Delay Per Capita: NorwichNew London, CTRI	3.6%	4.0	4.0
Annual Hours of Peak Hour Excessive Delay Per Capita: Springfield, MACT	6.2%	6.5	6.0
Annual Hours of Peak Hour Excessive Delay Per Capita: Worcester, MACT	6.8%	7.0	5.0
Percent of Non-Single Occupancy Vehicle (Non-SOV) Travel: BridgeportStamford, CTNY	30.4%	27.8%	27.8%
Percent of Non-Single Occupancy Vehicle (Non-SOV) Travel: Hartford, CT	22.1%	19.8%	19.8%
Percent of Non-Single Occupancy Vehicle (Non-SOV) Travel: New Haven, CT	25.1%	23.5%	23.5%
Percent of Non-Single Occupancy Vehicle (Non-SOV) Travel: NorwichNew London, CTRI	22.3%	19.4%	18.5%
Percent of Non-Single Occupancy Vehicle (Non-SOV) Travel: Springfield, MACT	21.5%	22.2%	22.2%
Percent of Non-Single Occupancy Vehicle (Non-SOV) Travel: Worcester, MACT	23.4%	25.4%	26.1%
Total Emission Reductions: PM2.5	0.000	6.290	6.290
Total Emission Reductions: NOx	0.000	81.978	81.978
Total Emission Reductions: VOC	0.000	87.346	87.346
Total Emission Reductions: PM10	0.000	0.000	0.000
Total Emission Reductions: CO		0.000	0.000

### **Overview**

OVERVI	EW SECTION 1	
01	Metropolitan Planning Organization (MPO) Coordination: Please provide a description of how the State DOT is coordinating with relevant MPOs in target selection. [23 CFR 490.105(e)(2)]	The Connecticut Department of Transportation (CTDOT) led coordination with relevant Metropolitan Planning Organizations (MPOs) throughout the target setting process. Prior to establishing and recommending targets, CTDOT identified MPOs that are relevant in the target setting activities, from involvement in a statewide performance measure, to measures required for individual urbanized areas (6). All MPOs in the state were notified of target setting activities through emails, meetings, and monthly coordination efforts between CTDOT and MPOs. The target setting process featured feedback from relevant MPOs prior to selecting the finalized targets for the upcoming target setting year. In addition, CTDOT presented to each MPO the statewide and urbanized measures (that affected the MPO) along with attending and addressing questions at MPO meetings virtually.
02	Please use this space to provide any general comments that may assist FHWA in its review of your submission. You can use this space to provide greater context for your targets and baseline condition/performance, provide additional background detail or clarification, note any assumptions, or discuss complications. (Optional)	The CTDOT has used its Transportation Asset Management Plan (TAMP) to develop infrastructure condition measure targets, as it faithfully reflects Department programs focused on these performance measures. Performance forecasts for the system reliability, freight movement, air quality, and congestion measure targets were developed by considering statewide initiatives focused on congestion and operational improvements, the Congestion Mitigation and Air Quality program, and its recently drafted and submitted Freight Plan, including bottleneck analysis and actions to support this target.
OVERVI	EW SECTION 2	1,
О3	Who should FHWA contact with questions?	Edgardo D. Block, PE
04	What is the phone number for this contact?	8605942495
O5	What is the email address for this contact?	edgardo.block@ct.gov

#### **Pavement**

#### **Pavement Performance Overview**

Р1

General Comments: Please use this space to provide any general comments that may assist FHWA in its review of this part of the submission. You can use this space to provide greater context for your targets and baseline condition, provide additional background detail or clarification, note any assumptions, or discuss complications. (Optional)

Ongoing trends and projections, including planned increases in pavement-preservation investment, are reflected in the performance projections over the performance period, so the change in condition over time is consistent with investments set out in the TAMP and carried out by the Department over this upcoming performance period. The pavement performance measure is highly dependent on the underlying pavement condition data and the ability of the data collection systems to detect distress. This has created a complication in the target-setting process. In 2021 the crackdetection system was upgraded to a system with increased image resolution, resulting in a higher number, length, and area of cracking, one of three components in the pavement performance measure. The Data Quality Management Plan (DQMP) developed has been followed through the migration, including the relevant standards and protocols, but nevertheless this has created a discontinuity in pavement-condition-data history, with the higher detection rate and resolution presenting a drop in condition.

#### **Interstate System Pavement Performance Overview**

P2

Relationship to Other Performance Expectations: Discuss how the 2-year and 4-year targets established for the 2022-2025 Performance Period for the pavements on the statewide Interstate System [23 CFR 490.105(c)(1)], which indicates the anticipated near-term direction or trend, support the achievement of both the long-term national infrastructure condition performance goal of maintaining the highway infrastructure asset system in a state of good repair identified in 23 U.S.C. §150(b), and goal of improving project and investment decision making through performance-based planning and programming [23 U.S.C. 150(a)]

Include how the established targets for the pavements on the statewide Interstate System for the Performance Period support expectations documented in longer range plans, such as the State asset management plan required by 23 U.S.C. 119(e) and the long-range statewide transportation plan. [23 CFR 490.107(b)(1)(ii)(C)]

The Transportation Asset Management Plan (TAMP) outlines a strategy to achieve infrastructure condition goals in the required bridge, pavement, and other CTDOT assets. The CTDOT TAMP is comprehensive in scope, as it focuses on the entire network of infrastructure assets under the jurisdiction of the CTDOT (all state-maintained bridges and pavements) which encompass the vast majority of the NHS, and its planning horizon is 10 years, which is longer than the performance period. Individual management systems in bridges and pavements, used to project performance and develop targets as defined in the national measures, consider

		lan man tima a hanimana
		longer time horizons commensurate with expected
		individual asset life cycles. These
		systems optimize condition based
		on state-of-good-repair metrics
		and measures which provide the
		most impact on decision-making.
		The impact of these investments
		on the Interstate and non-
		Interstate National Highway System (NHS) is translated to the
		definitions and measures for the
		national TPM framework. The
		performance targets included in
		this report are the faithful
		reflection of our long-term strategy
		of optimizing the performance of
		the assets at a minimum lifecycle cost.
Statewic	□ de Performance Targets for the Percentage of Pavements of the Ir	
Condition		in dood
P3	Baseline: Statewide Percentage of Pavements of the Interstate	68.6
	System in Good Condition. [23 CFR 490.107(b)(1)(ii)(B)]	70.0
P4	2-year Target: Provide the 2-year target for the statewide Percentage of Pavements of the Interstate in Good Condition that	72.0
	the State DOT has established for the 2022-2025 Performance	
	Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should reflect	
	expected condition by the end of 2023.	
P5	4-year Target: Provide the 4-year target for the statewide	70.0
	Percentage of Pavements of the Interstate System in Good	
	Condition that the State DOT has established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should	
	reflect expected condition by the end of 2025.	
P6	Basis for Targets: Provide a discussion of the basis for the 2-year	The targets are based on the
	and 4-year targets established for the 2022-2025 Performance	investment strategy laid out in the
	Period for the statewide Percentages of Pavements of the	Transportation Asset
	Interstate System in Good Condition. [23 CFR 490.107(b)(1)(ii)(A)] This includes an explanation of the data, method(s), and/or	Management Plan and are the reflection of the quantitative
	process(s) used to identify the targets.	impacts of each investment on the
	process(e) accurate receiving and tangents	condition of the asset on which
		the investment is made, at the
		project level, in terms of this
		performance measure and its
		definition. A significant
		component of the actions in the early years of the plan is already
		in the Capital Plan and the year of
		completion is included in the
		development of condition
		projections through the
01 1	de Berfermanne Terrate ( d. B. d. d. C. d. C. d.	performance period.
Condition	de Performance Targets for the Percentage of Pavements of the Ir on	nerstate system in Poor
P7	Baseline: Statewide Percentage of Pavements of the Interstate	0.2
De	System in Poor Condition. [23 CFR 490.107(b)(1)(ii)(B)]	1.0
P8	2-year Target: Provide the 2-year target for the statewide Percentage of Pavements of the Interstate in Poor Condition that	1.0
	the State DOT has established for the 2022-2025 Performance	
	Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should reflect	
	expected condition by the end of 2023.	
P9	4-year Target: Provide the 4-year target for the statewide	1.3
	Percentage of Pavements of the Interstate System in Poor	

Condition that the State DOT has established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should reflect expected condition by the end of 2025.

P10

Basis for Targets: Provide a discussion of the basis for the 2-year and 4-year targets established for the 2022-2025 Performance Period for the statewide Percentages of Pavements of the Interstate System in Poor Condition. [23 CFR 490.107(b)(1)(ii)(A)] This includes an explanation of the data, method(s), and/or process(s) used to identify the targets.

The targets are based on the investment strategy laid out in the Transportation Asset Management Plan and are the reflection of the quantitative impacts of each investment on the condition of the asset on which the investment is made, at the project level, in terms of this performance measure and its definition. A significant component of the actions in the early years of the plan is already in the Capital Plan and the year of completion is included in the development of condition projections through the performance period.

#### **Non-Interstate NHS Pavement Performance Overview**

P11

Relationship to Other Performance Expectations: Discuss how the 2-year and 4-year targets established for the 2022-2025 Performance Period for the pavements on the statewide Non-Interstate NHS [23 CFR 490.105(c)(2)], which indicates the anticipated near-term direction or trend, support the achievement of both the long-term national infrastructure condition performance goal of maintaining the highway infrastructure asset system in a state of good repair identified in 23 U.S.C. §150(b), and goal of improving project and investment decision making through performance-based planning and programming [23 U.S.C. 150(a)]

Include how the established targets for the pavements on the statewide Non-Interstate NHS for the performance period support expectations documented in longer range plans, such as the State asset management plan required by 23 U.S.C. 119(e) and the long-range statewide transportation plan. [23 CFR 490.107(b)(1)(ii)(C)]

The Transportation Asset Management Plan (TAMP) outlines a strategy to achieve infrastructure condition goals in the required bridge, pavement, and other CTDOT assets. The CTDOT TAMP is comprehensive in scope, as it focuses on the entire network of infrastructue assets under the jurisdiction of the CTDOT (all state-maintained bridges and pavements) which encompass the vast majority of the NHS, and its planning horizon is 10 years, which is longer than the performance period. Individual management systems in bridges and pavements, used to project performance and develop targets as defined in the national measures, consider longer time horizons commensurate with expected individual asset life cycles. These systems optimize condition based on state-of-good-repair metrics and measures which provide the most impact on decisionmaking. The impact of these investments on the Interstate and non-Interstate National Highway System (NHS) is translated to the definitions and measures for the national TPM framework. The performance targets included in this report are the faithful reflection of our long-term strategy of optimizing the performance of the assets at a minimum lifecycle

		cost.
	ride Performance Targets for the Percentage of Pavements of the	Non-Interstate NHS in Good
Condit P12	Baseline: Statewide Percentage of Pavements of the Non- Interstate NHS in Good Condition. [23 CFR 490.107(b)(1)(ii)(B)]	37.9
P13	2-year Target: Provide the 2-year target for the statewide Percentage of Pavements of the Non-Interstate NHS in Good Condition that the State DOT has established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should reflect expected condition by the end of 2023.	37.0
P14	4-year Target: Provide the 4-year target for the statewide Percentage of Pavements of the Non-Interstate NHS in Good Condition that the State DOT has established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should reflect expected condition by the end of 2025.	35.0
P15	Basis for Targets: Provide a discussion of the basis for the 2-year and 4-year targets established for the 2022-2025 Performance Period for the statewide Percentages of Pavements of the Non-Interstate NHS in Good Condition. [23 CFR 490.107(b)(1)(ii)(A)] This includes an explanation of the data, method(s), and/or process(s) used to identify the targets.	The targets are based on the investment strategy laid out in the Transportation Asset Management Plan and are the reflection of the quqntitative impacts of each investment on the condition of the asset on which the investment is made, at the project level, in terms of this performance measure and its definition. A significant component of the actions in the early years of the plan is already in the Capital Plan and the year of completion is included in the development of condition projections through the performance period.
Statew	ride Performance Targets for the Percentage of Pavements of the	
Condit	tion	
P16	Baseline: Statewide Percentage of Pavements of the Non- Interstate NHS in Poor Condition. [23 CFR 490.107(b)(1)(ii)(B)]	1.8
P17	2-year Target: Provide the 2-year target for the statewide Percentage of Pavements of the Non-Interstate NHS in Poor Condition that the State DOT has established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should reflect expected condition by the end of 2023.	2.7
P18	4-year Target: Provide the 4-year target for the statewide Percentage of Pavements of the Non-Interstate NHS in Poor Condition that the State DOT has established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should reflect expected condition by the end of 2025.	3.5
P19	Basis for Targets: Provide a discussion of the basis for the 2-year and 4-year targets established for the 2022-2025 Performance Period for the statewide Percentages of Pavements of the Non-Interstate NHS in Poor Condition. [23 CFR 490.107(b)(1)(ii)(A)] This includes an explanation of the data, method(s), and/or process(s) used to identify the targets.	The targets are based on the investment strategy laid out in the Transportation Asset Management Plan and are the reflection of the quantitative impacts of each investment on the condition of the asset on which the investment is made, at the project level, in terms of this performance measure and its definition. A significant component of the actions in the early years of the plan is already in the Capital Plan and the year of completion is included in the

		development of condition projections through the performance period.
	above marks the end of the required reporting. Everything below Optional Additional Pavement Performance Target #1 [23 CFR 490]	
P20	Additional Target: Which measure are you establishing an optional additional target? Percentage of Pavements on the: (Optional)	
P21	Area(s) for Target: Please indicate what area(s) the State DOT is establishing this additional target for (UZA stands for Urbanized Area).	
P22	UZA(s): If this target is for a single UZA or group of UZAs, please indicate which UZA(s) are included in this target. This field is not applicable if the target is for the statewide urbanized area (all UZAs) or the non-UZA area (Statewide Rural and Small Urban Areas).	
P23	Baseline: Provide the baseline condition for the selected measure in this target area. [23 CFR 490.107(b)(1)(ii)(B)]	
P24	2-year Target: Provide the 2-year target for the selected measure in this target area that the State DOT has established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should reflect expected performance by the end of 2023.	
	Target must be reported to the nearest tenth of a percent. [23 CFR 490.101 (Target definition) and 23 CFR 490.513] Enter 86.5% as 86.5.	
P25	4-year Target: Provide the 4-year target for the selected measure in the target area that the State DOT has established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should reflect expected performance by the end of 2025.	
	Target must be reported to the nearest tenth of a percent. [23 CFR490.101 (Target definition) and 23 CFR 490.513] Enter 86.5% as 86.5.	
P26	Basis for Targets: Provide a discussion of the basis for the 2-year and 4-year targets established for the 2022-2025 Performance Period for the selected measure in the target area. [23 CFR 490.107(b)(1)(ii)(A)] This includes an explanation of the data, method(s), and/or process(s) used to identify the targets.	
	Include the source of the urbanized dataset used to establish the targets. [23 CFR 490.107(b)(1)(ii)(D)]	

#### **Bridge**

#### **Bridge Performance Overview**

B1 General Comments: Please use this space to provide any general comments that may assist FHWA in its review of this part of the submission. You can use this space to provide greater context for your targets and baseline condition, provide additional background detail or clarification, note any assumptions, or discuss complications. (Optional)

Ongoing trends and projections, including planned increases in bridge-preservation investment, are reflected in the performance projections over the performance period, so the change in condition over time is consistent with investments set out in the TAMP and carried out by the Department over this upcoming performance period.

Relationship to Other Performance Expectations: Discuss how the 2-year and 4-year targets established for the 2022-2025
Performance Period for the statewide Bridges on the NHS [23 CFR 490.105(c)(3)], which indicates the anticipated near-term direction or trend, support the achievement of both the long-term national infrastructure condition performance goal of maintaining the highway infrastructure asset system in a state of good repair identified in 23 U.S.C. §150(b), and goal of improving project and investment decision making through performance-based planning and programming [23 U.S.C. 150(a)]

The Transportation Asset Management Plan (TAMP) outlines a strategy to achieve infrastructure condition goals in the required bridge, pavement, and other CTDOT assets. The CTDOT TAMP is comprehensive in scope, as it focuses on the entire network of infrastructue assets under the jurisdiction of the CTDOT (all state-maintained bridges and pavements) which encompass the vast majority of the NHS, and its planning horizon is 10 years, which is longer than the performance period. For this performance period the TAMP reflects increased investment in bridges, including bridge preservation. Individual management systems in bridges and pavements, used to project performance and develop targets as defined in the national measures, consider longer time horizons commensurate with expected individual asset life cycles. These systems optimize condition based on state-of-goodrepair metrics and measures which provide the most impact on decisionmaking. The impact of these investments on the Interstate and non-Interstate National Highway System (NHS) is translated to the definitions and measures for the national TPM framework. The performance targets included in this report are the faithful reflection of our longterm strategy of optimizing the performance of the assets at a minimum lifecycle cost.

#### Statewide Performance Targets for Bridges on the NHS Classified as in Good Condition

B3 Baseline: Statewide Percentage of deck area of Bridges on the NHS Classified as in Good Condition. [23 CFR 490.107(b)(1)(ii)(B)]

14.1

<b>D</b> 4	O T ID 11 11 O 1 11 11 11	44.0
B4	2-year Target: Provide the 2-year target for the statewide Percentage of deck area of Bridges on the NHS Classified as in Good Condition that the State DOT has established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should reflect expected condition by the end of 2023.	14.2
B5	4-year Target: Provide the 4-year target for the statewide Percentage of deck area of Bridges on the NHS classified as in Good Condition that the State DOT has established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should reflect expected condition by the end of 2025.	14.5
B6	Basis for Targets: Provide a discussion of the basis for the 2-year and 4-year targets established for the 2022-2025 Performance Period for the statewide Percentage of deck area of Bridges on the NHS Classified as in Good Condition. [23 CFR 490.107(b)(1)(ii)(A)] This includes an explanation of the data, method(s), and/or process(s) used to identify the targets.	The Transportation Asset Management Plan (TAMP) outlines a strategy to achieve infrastructure condition goals in the required bridge, pavement, and other CTDOT assets. The CTDOT TAMP is comprehensive in scope, as it focuses on the entire network of infrastructue assets under the jurisdiction of the CTDOT (all state-maintained bridges and pavements) which encompass the vast majority of the NHS, and its planning horizon is 10 years, which is longer than the performance period. For this performance period the TAMP reflects increased investment in bridges, including bridge preservation. Individual management systems in bridges and pavements, used to project performance and develop targets as defined in the national measures, consider longer time horizons commensurate with expected individual asset life cycles. These systems optimize condition based on state-of-good- repair metrics and measures which provide the most impact on decisionmaking. The impact of these investments on the Interstate and non-Interstate National Highway System (NHS) is translated to the definitions and measures for the national TPM framework. The performance targets included in this report are the faithful reflection of our long-term strategy of optimizing the performance of the assets at a minimum lifecycle cost.
Statewic	lde Performance Targets for Bridges on the NHS Classified as in P	
B7	Baseline: Statewide Percentage of deck area of Bridges on the NHS Classified as in Poor Condition. [23 CFR 490.107(b)(1)(ii)(B)] FHWA calculated this condition value from the latest data collected through the beginning date of the performance period specified in	7.7

This includes an explanation of the data, method(s), and/or process(s) used to identify the targets.  the required bridge, pavement and other CTDOT assets. The CTDOT TAMP is comprehensed the comprehense are comprehensed.	statowida 6.2	
Percentage of deck area of Bridges on the NHS Classified as in Poor Condition that the State DOT has established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should reflect expected condition by the end of 2025.  Basis for Targets: Provide a discussion of the basis for the 2-year and 4-year targets established for the 2022-2025 Performance Period for the statewide Percentage of deck area of Bridges on the NHS Classified as in Poor Condition. [23 CFR 490.107(b)(1)(ii)(A)] This includes an explanation of the data, method(s), and/or process(s) used to identify the targets.  The Transportation Asset Management Plan (TAMP) outlines a strategy to achieve infrastructure condition goals the required bridge, pavement and other CTDOT assets. The CTDOT TAMP is comprehensed.	Classified as in ned for the 2022- 1)(ii)(A)] Target	B8
Basis for Targets: Provide a discussion of the basis for the 2-year and 4-year targets established for the 2022-2025 Performance Period for the statewide Percentage of deck area of Bridges on the NHS Classified as in Poor Condition. [23 CFR 490.107(b)(1)(ii)(A)] This includes an explanation of the data, method(s), and/or process(s) used to identify the targets.  The Transportation Asset Management Plan (TAMP) outlines a strategy to achieve infrastructure condition goals the required bridge, pavement and other CTDOT assets. The CTDOT TAMP is comprehensed to the condition of the data and other CTDOT assets.	Classified as in ned for the 2022- 1)(ii)(A)] Target	В9
assets under the jurisdiction of CTDOT (all state-maintained bridges and pavements) which encompass the vast majority of the NHS, and its planning hor is 10 years, which is longer that the performance period. For it performance period the TAMF reflects increased investment bridges, including bridge preservation. Individual management systems in bridge and pavements, used to proje performance and develop targe as defined in the national measures, consider longer tim horizons commensurate with expected individual asset life cycles. These systems optim condition based on state-of-grepair metrics and measures which provide the most impact decisionmaking. The impact of these investments on the Interstate and non-Interstate and non-Interstate and Individual System (NH is translated to the definitions measures for the national TPF framework.  The performance targets incluin this report are the faithful reflection of our long-term strate of optimizing the performance	The Transportation Asset Management Plan (TAMP) outlines a strategy to achieve infrastructure condition goals in the required bridge, pavement, and other CTDOT assets. The CTDOT TAMP is comprehensive in scope, as it focuses on the entire network of infrastructue assets under the jurisdiction of the CTDOT (all state-maintained bridges and pavements) which encompass the vast majority of the NHS, and its planning horizon is 10 years, which is longer than the performance period. For this performance period the TAMP reflects increased investment in bridges, including bridge preservation. Individual management systems in bridges and pavements, used to project performance and develop targets as defined in the national measures, consider longer time horizons commensurate with expected individual asset life cycles. These systems optimize condition based on state-of-good- repair metrics and measures which provide the most impact on decisionmaking. The impact of these investments on the Interstate and non-Interstate National Highway System (NHS) is translated to the definitions and measures for the national TPM framework. The performance targets included in this report are the faithful reflection of our long-term strategy of optimizing the performance of the assets at a minimum lifecycle	B10
The line above marks the end of the required reporting. Everything below this line is related to optiona	g. Everything below this line is related to optional	
targets.Optional Additional Bridge Performance Target #1 [23 CFR 490.105(e)(3)]		
Additional Target: Which measure are you establishing an optional additional target? Percentage of deck area of Bridges on the NHS classified as in:	ridges on the NHS	
B12 Area(s) for Target: Please indicate what area(s) the State DOT is establishing this additional target for (UZA stands for Urbanized Area).		B12

B13	UZA(s): If this target is for a single UZA or group of UZAs, please indicate which UZA(s) are included in this target. This field is not applicable if the target is for the statewide urbanized area (all UZAs) or the non-UZA area (Statewide Rural and Small Urban Areas).	
B14	Baseline: Provide the baseline condition for the selected measure in this target area. [23 CFR 490.107(b)(1)(ii)(B)]	
B15	2-year Target: Provide the 2-year target for the selected measure in this target area that the State DOT has established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should reflect expected condition by the end of 2023.	
B16	4-year Target: Provide the 4-year target for the selected measure in the target area that the State DOT has established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should reflect expected condition by the end of 2025.	
B17	Basis for Targets: Provide a discussion of the basis for the 2-year and 4-year targets established for the 2022-2025 Performance Period for the selected measure in the target area. [23 CFR 490.107(b)(1)(ii)(A)] This includes an explanation of the data, method(s), and/or process(s) used to identify the targets.	

#### Reliability

#### **Travel Time Reliability Performance Overview**

R1 General Comments: Please use this space to provide any general comments that may assist FHWA in its review of this part of the submission. You can use this space to provide greater context for your targets and baseline performance, provide additional background detail or clarification, note any assumptions, or discuss complications. (Optional)

The baseline year system reliability performance reflects ongoing changes to travel patterns caused by the COVID-19 pandemic, some of which are expected to be permanent in nature (such as reduced commuting traffic volumes due to remote work) but uncertain in magnitude, as this secular change in how we work and move plays out over time; other resulting trends have uncertain or negative effect (such as rail transit ridership, bus ridership, ecommerce trends, and shared mobility changes.) There is not an established causal relationship between these transit trends and vehicle registrations in Connecticut, but the latter have continued to increase and vehicle miles traveled on our highways have largely recovered to prepandemic levels. This generates a high degree of uncertainty in forecasts, since traditional relationships between overall volume and travel time are experiencing changes (with somewhat lower volumes measured during certain peak hours at some locations.) The CTDOT approach to considering data gathered during 2020 and 2021 has been to exclude it, since although the later periods suggest a return to previous trends to some degree, this is not a straightforward return to status quo ante.

Relationship to Other Performance Expectations: Discuss how the 2-year and 4-year targets established for the 2022-2025
Performance Period for the statewide Travel Time Reliability [23 CFR 490.105(c)(4)], which indicates the near-term direction or trend, support both the long-term national system reliability performance goal of improving the efficiency of the surface transportation system identified in 23 U.S.C. §150(b) and the goal of improving project and investment decision making through performance-based planning and programming. [23 U.S.C. 150(a)]

Include how the established targets for the statewide Travel Time Reliability for the Performance Period support expectations documented in longer range plans, such as the long-range statewide transportation plan. [23 CFR 490.107(b)(1)(ii)(C)]

Travel patterns are reflected as a component of the congestion aspects of the long-range transportation plan for both state DOTs and the relevant MPOs. These are statewide or regionwide plans and there are ongoing programs aligned with these plans that have an impact on performance. However, travel time reliability as a specific objective is not the focus of these plans of programs since the reliability perspective on mobility is newer than traditional methods (volumes, capacity, and throughput) used to develop our

Statewic Reliable	de Performance Target for the Percent of the Person-Miles Travele	investments. Nevertheless, travel time reliability is closely (though not directly or linearly) related to congestion, so there is an expectation that the projects, guided by the long-range transportation plan in general terms, will have positive impacts on travel time reliability at the locations where these improvements are made.
R3	Baseline: Statewide Percent of Person-Miles Traveled on the	86.2
N3	Interstate That Are Reliable. [23 CFR 490.107(b)(1)(ii)(B)] FHWA calculated this performance value from the latest data collected through the beginning date of the performance period specified in 23 CFR 490.105(e)(4)(i). [23 CFR 490.107(b)(1)(ii)	00.2
	The data must be reported to the nearest tenth of a percent.	
R4	2-year Target: Provide the 2-year target for the statewide Percent of the Person-Miles Traveled on the Interstate That Are Reliable that the State DOT has established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should reflect expected performance by the end of 2023  Target must be reported to the nearest tenth of a percent. [23	78.6
	CFR490.101 (Target definition) and 23 CFR 490.513(b)] Enter 86.5% as 86.5.	
R5	4-year Target: Provide the 4-year target for the statewide Percent of the Person-Miles Traveled on the Interstate That Are Reliable that the State DOT has established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should reflect expected performance by the end of 2025.  Target must be reported to the nearest tenth of a percent. [23 CFR490.101 (Target definition) & 23 CFR 490.513(b)] Enter 86.5% as 86.5.	78.6
R6	Basis for Targets: Provide a discussion of the basis for the 2-year and 4-year targets established for the 2022-2025 Performance Period for the statewide Percent of the Person-miles Traveled on the Interstate That Are Reliable. [23 CFR 490.107(b)(1)(ii)(A)] This includes an explanation of the data, method(s), and/or process(s) used to identify the targets.	The 2-year and 4-year targets for travel time reliability on the Interstate were established based on a) a review of the level of project activity expected during the performance period relative to current and recent levels, b) an evaluation of recent disruptions to normal travel patterns, including the COVID-19 pandemic, and whether they will produce permanent effects on performance; and c) other factors influencing performance. Based on a generally stable project activity level and the conclusion that travel disruptions due to the pandemic were close to returning to pre-pandemic levels in 2022, the targets have been based on removing 2020 and 2021 data when projecting trends, applying linear regression to understand

the trends, considering the coefficient of determination of the resulting coefficients, and considering other covariates in setting targets for this urbanized area. These factors included changes in travel patterns (telework in particular), data such as vehicle registration, and the relationship between fuel prices and travel demand. Finally, the target adoption taken was conservative (there is a desire to achieve the target with a high degree of reliability) given that a) planned levels of transportation investment targeted at congestion mitigation in general but not specifically to travel time reliability as an objective, b) 2020-21 and 2021-22 have been abnormally mild in terms of snow precipitation, which greatly increases travel time during these events, and c) the travel time on the Interstate system was the first in the state highway network to exhibit the impact of returning to higher travel volumes, as measured in continuous-count stations and in other AADT and VMT measurements.

# Statewide Performance Targets for the Percent of the Person-Miles Traveled on the Non-Interstate NHS That Are Reliable

I IIat Ai	e iveliable	
R7	Baseline: Statewide Percent of Person-Miles Traveled on the Non-Interstate NHS That Are Reliable. [23 CFR 490.107(b)(1)(ii)(B)]  FHWA calculated this performance value from the latest data collected through the beginning date of the performance period specified in 23 CFR 490.105(e)(4)(i). [23 CFR 490.107(b)(1)(ii)  The data must be reported to the nearest tenth of a percent.	90.0
R8	2-year Target: Provide the 2-year target for the statewide Percent of the Person-Miles Traveled on the Non-Interstate NHS That Are Reliable that the State DOT has established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should reflect expected performance by the end of 2023.  Target must be reported to the nearest tenth of a percent. [23 CFR490.101 (Target definition) and 23 CFR 490.513(b)] Enter 86.5% as 86.5.	84.9
R9	4-year Target: Provide the 4-year target for the statewide Percent of the Person-Miles Traveled on the Non-Interstate NHS That Are Reliable that the State DOT has established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should reflect expected performance by the end of 2025.  Target must be reported to the nearest tenth of a percent. [23 CFR490.101 (Target definition) and 23 CFR 490.513(c)] Enter 86.5% as 86.5.	84.9
R10	Basis for Targets: Provide a discussion of the basis for the 2-year and 4-year targets established for the 2022-2025 Performance	The 2-year and 4-year targets for travel time reliability on the non-

Period for the statewide Percent of the Person-miles Traveled on the Non-Interstate NHS That Are Reliable. [23 CFR 490.107(b)(1)(ii)(A)] This includes an explanation of the data, method(s), and/or process(s) used to identify the targets.

Interstate NHS were established based on a) a review of the level of project activity expected during the performance period relative to current and recent levels, b) an evaluation of recent disruptions to normal travel patterns, including the COVID-19 pandemic, and whether they will produce permanent effects on performance; and c) other factors influencing performance. Based on a generally stable project activity level and the conclusion that travel disruptions due to the pandemic were close to returning to pre-pandemic levels in 2022, the targets have been based on removing 2020 and 2021 data when projecting trends, applying linear regression to understand the trends, considering the coefficient of determination of the resulting coefficients, and considering other covariates in setting targets for this urbanized area. These factors included changes in travel patterns (telework in particular), data such as vehicle registration, and the relationship between fuel prices and travel demand. Finally, the target adoption taken was conservative (there is a desire to achieve the target with a high degree of reliability) given that a) planned levels of transportation investment targeted at congestion mitigation in general but not specifically to travel time reliability as an objective, and b) 2020-21 and 2021-22 have been abnormally mild in terms of snow precipitation, which greatly increases travel time during these

The line above marks the end of the required reporting. Everything below this line is related to optional targets. Optional Additional Reliability Performance Target #1 - Reliable Travel Times [23 CFR 490.105(e)(3)]

490.10	(e)(3)]
R11	Additional Target: Which measure are you establishing optional additional targets? Percentage of Person-miles Traveled on the: (Optional)
R12	Area(s) for Target: Indicate what area(s) the State DOT is establishing this additional target for (UZA stands for Urbanized Area).  For each measure, a State DOT can only establish one additional target for the non-UZA area within their State. They can establish additional targets for any number and combination of UZAs.
R13	UZA(s): If this target is for a single UZA or group of UZAs, please indicate which UZA(s) are included in this target. This field is not applicable if the target is for the statewide urbanized area (all

	UZAs) or the non-UZA area (Statewide Rural and Small Urban Areas).	
	Please enter the UZA with its official name, state abbreviation, and 5- digit UZA code in parentheses. For example: BIRMINGHAM, AL (07786).	
	For a group of UZAs, please separate them with a semi-colon. For example: BIRMINGHAM, AL (07786); AUBURN, AL (04033).	
R14	Baseline: Provide the baseline performance for the selected measure in this target area. [23 CFR 490.107(b)(1)(ii)(B)]	
	The data submitted must cover the performance derived from the latest data collected through the beginning date of the performance period specified in 23 CFR 490.105(e)(4)(i). [23 CFR 490.107(b)(1)(ii)]	
	The data must be reported to the nearest tenth of a percent.	
R15	2-year Target: Provide the 2-year target for the selected measure in this target area that the State DOT has established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should reflect expected performance by the end of 2023.	
	Target must be reported to the nearest tenth of a percent. [23 CFR 490.101 (Target definition) and 23 CFR 490.513] Enter 86.5% as 86.5.	
R16	4-year Target: Provide the 4-year target for the selected measure in the target area that the State DOT has established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should reflect expected performance by the end of 2025.	
	Target must be reported to the nearest tenth of a percent. [23 CFR490.101 (Target definition) and 23 CFR 490.513] Enter 86.5% as 86.5.	
R17	Basis for Targets: Provide a discussion of the basis for the 2-year and 4-year targets established for the 2022-2025 Performance Period for the selected measure in the target area. [23 CFR 490.107(b)(1)(ii)(A)] This includes an explanation of the data, method(s), and/or process(s) used to identify the targets.	
	Include the source of the urbanized dataset used to establish the targets. [23 CFR 490.107(b)(1)(ii)(D)]	

### **Freight**

#### Freight Reliability (Movement) Performance Overview

F1 General Comments: Please use this space to provide any general comments that may assist FHWA in its review of this part of the submission. You can use this space to provide greater context for your targets and baseline performance, provide additional background detail or clarification, note any assumptions, or discuss complications. (Optional)

The Freight reliability performance and target were developed informed by our work on the statewide Freight Plan which was used to carry out bottleneck analysis, following FHWA guidance on the topic, and inform our strategic investments in freight movement. One of the bottleneck analysis findings was that the top bottlenecks are related to congestion as opposed to geometric or highway-physicalcharacteristics causes. Consequently, our performance targets for this area have a similar basis to those for the travel-time reliability of the entire vehicle fleet, both in passenger cars as well as trucks. The baseline year system reliability performance reflects ongoing changes to travel patterns caused by the COVID-19

pandemic, some of which are expected to be permanent in nature (such as reduced commuting traffic volumes due to remote work) but uncertain in magnitude, as this secular change in how we work and move plays out over time; other resulting trends have uncertain or negative effect (such as rail transit ridership, bus ridership, ecommerce trends, and shared mobility changes.) There is not an established causal relationship between these transit trends and vehicle registrations in Connecticut, but the latter have continued to increase and vehicle miles traveled on our highways have largely recovered to prepandemic levels. This generates a high degree of uncertainty in forecasts, since traditional relationships between overall volume and travel time are experiencing changes (with somewhat lower volumes measured during certain peak hours at some locations.) The CTDOT approach to considering data gathered during 2020 and 2021 has been to exclude it. since although the later periods suggest a return to previous trends to

		some degree, this is not a direct return to previous condition.
F2	Truck Freight Bottlenecks: Attach a PDF document listing locations of truck freight bottlenecks within the State, including those identified in the National Freight Strategic Plan. If the State DOT has prepared a State Freight Plan under 49 U.S.C. 70202, within the last 2 years, then it may serve as the basis for identifying truck freight bottlenecks. [23 CFR 490.107(b)(1)(ii)(E)]  Note: Please upload the document meeting the truck freight bottleneck PDF requirements in the "Attachment" tab.	
F3	If the required document was not included in this biennial reporting, please explain.	
F4	Relationship to Other Performance Expectations: Discuss how the 2-year and 4-year targets established for the 2022-2025 Performance Period for the statewide Freight Reliability (movement) on the Interstate System [23 CFR 490.105(c)(6), which indicates the near-term direction or trend, support both the long-term national freight movement and economic vitality performance goal of improving the National Highway Freight Network, strengthening the ability of rural communities to access national and international trade markets, and supporting regional economic development identified in 23 U.S.C. \$150(b) and the goal of improving project and investment decision-making through performance-based planning and programming. [23 U.S.C. 150(a)] Include how the established targets for the statewide freight movement on the Interstate System for the Performance Period support expectations documented in longer range plans, such as the long-range statewide transportation plan. [23 CFR 490.107(b)(1)(ii)(C)]	The 2-year and 4-year targets for travel time reliability on the Interstate were established based on a) a review of the level of project activity expected during the performance period relative to current and recent levels, b) an evaluation of recent disruptions to normal travel patterns, including the COVID-19 pandemic, and whether they will produce permanent effects on performance; and c) other factors influencing performance. Based on a generally stable project activity level and the conclusion that travel disruptions due to the pandemic were close to returning to pre-pandemic levels in 2022, the targets have been based on removing 2020 and 2021 data when projecting trends, applying linear regression to understand the trends, considering the coefficient of determination of the resulting coefficients, and considering other covariates in setting targets for this urbanized area. These factors included changes in travel patterns (telework in particular), data such as vehicle registration, and the relationship between fuel prices and travel demand. Finally, the target adoption taken was conservative (there is a desire to achieve the target with a high degree of reliability) given that a) planned levels of transportation investment targeted at congestion mitigation in general but not specifically to travel time reliability as an objective, b) 2020-21 and 2021-22 have been abnormally mild in terms of snow precipitation, which greatly increases travel time during these events, and c) the travel time on the Interstate system was the first

		in the state highway network to exhibit the impact of returning to higher travel volumes, as measured in continuous-count stations and in other AADT and VMT measurements.  The freight-movement analyses and projections conducted on the national-measure target-setting process inform the freight-plan performance component.
	de Performance Targets for the Truck Travel Time Reliability (TTT	
F5	Baseline: Statewide Truck Travel Time Reliability Index. [23 CFR 490.107(b)(1)(ii)(B)]  FHWA calculated this performance value from the latest data collected through the beginning date of the performance period specified in 23 CFR 490.105(e)(4)(i). [23 CFR 490.107(b)(1)(ii)  The data must be reported to the nearest hundredth of a percent.	1.56
F6	2-Year Target: Provide the 2-year target for the statewide Truck Travel Time Reliability Index established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should reflect expected performance by the end of 2023.  Target must be reported to the nearest hundredth. [23 CFR 490.101 (Target definition) and 23 CFR 490.613(b)] For example, enter 2.54.	1.95
F7	4-Year Target: Provide the 4-year target for the statewide Truck Travel Time Reliability Index established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should reflect expected performance by the end of 2025.  Target must be reported to the nearest hundredth. [23 CFR 490.101 (Target definition) & 23 CFR 490.613(b)] For example, enter 2.54.	2.02
F8	Basis for Targets: Provide a discussion of the basis for the 2-year and 4-year targets established for the 2022-2025 Performance Period for the statewide Truck Travel Time Reliability Index. [23 CFR 490.107(b)(1)(ii)(A)] This includes an explanation of the data, method(s), and/or process(s) used to identify the targets.	The 2-year and 4-year targets forfreight movement on the Interstate system were established based on a) a review of the level of project activity expected during the performance period relative to current and recent levels, b) an evaluation of recent disruptions to normal travel patterns, including the COVID-19 pandemic, and whether they will produce permanent effects on performance; and c) other factors influencing performance. The freight movement expected performance was developed in parallel with the development of a statewide freight plan including bottleneck analysis. Based on the expected project activity level and the conclusion that travel disruptions due to the pandemic were close to returning to prepandemic levels in 2022, the targets have been based on

removing 2020 and 2021 data when projecting trends, applying linear regression to understand the trends, considering the coefficient of determination of the resulting coefficients, and considering other covariates in setting targets for this urbanized area. These factors included changes in travel patterns (telework in particular), data such as vehicle registration, and the relationship between fuel prices and travel demand. Finally, the target adoption taken was conservative (there is a desire to achieve the target with a high degree of reliability) given that the freight bottlenecks and travel times have been found to be a function of overall highway congestion as opposed to physical infrastructure constraints, and a) planned levels of transportation investment targeted at congestion mitigation in general but not specifically to travel time reliability as an objective, b) 2020-21 and 2021-22 have been abnormally mild in terms of snow precipitation, which greatly increases travel time during these events, c) the level of ecommerce and delivery of goods via truck to consumers is expected to impact this measure in the negative direction, and d) the travel time on the Interstate system was the first in the state highway network to exhibit the impact of returning to higher travel volumes, as measured in continuous-count stations and in other AADT and VMT measurements.

The line above marks the end of the required reporting. Everything below this line is related to optional targets.

Optiona	Optional Additional Freight Reliability Performance Target (TTTR) #1 [23 CFR 490.105(e)(3)]	
F9	Additional Target: Are you establishing optional targets for Freight Reliability Performance?	
F10	Area(s) for Target: Indicate what area(s) the State DOT is establishing this additional target for (UZA stands for Urbanized Area).  For each measure, a State DOT can only establish one additional target for the non-UZA area within their State. They can establish	
	additional targets for any number and combination of UZAs.	
F11	UZA(s): If this target is for a single UZA or group of UZAs, please indicate which UZA(s) are included in this target. This field is not applicable if the target is for the statewide urbanized area (all	

	UZAs) or the non-UZA area (Statewide Rural and Small Urban Areas).	
	Please enter the UZA with its official name, state abbreviation, and 5- digit UZA code in parentheses. For example: BIRMINGHAM, AL (07786).	
	For a group of UZAs, please separate them with a semi-colon. For Example: BIRMINGHAM, AL (07786); AUBURN, AL (04033).	
F12	Baseline: Provide the baseline performance for this measure in this target area. [23 CFR 490.107(b)(1)(ii)(B)]	
	The data submitted must cover the performance derived from the latest data collected through the beginning date of the performance period specified in 23 CFR 490.105(e)(4)(i). [23 CFR 490.107(b)(1)(ii)]	
	The data must be reported to the nearest hundredth. [23 CFR 490.101 (Target definition) and 23 CFR 490.613(b)]. For example, enter 2.54.	
F13	2-year Target: Provide the 2-year target for the measure in this target area that the State DOT has established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] The target should reflect expected performance by the end of 2023.	
	Target must be reported to the nearest hundredth. [23 CFR 490.101 (Target definition) and 23 CFR 490.613(b)]. For example, enter 2.54.	
F14	4-year Target: Provide the 4-year target for the measure in the target area that the State DOT has established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] The target should reflect expected performance by the end of 2025.	
	Target must be reported to the nearest hundredth. [23 CFR 490.101 (Target definition) & 23 CFR 490.613(b)] For example, enter 2.54.	
F15	Basis for Targets: Provide a discussion of the basis for the 2-year and 4-year targets established for the 2022-2025 Performance Period for the selected measure in the target area. [23 CFR 490.107(b)(1)(ii)(A)] This includes an explanation of the data, method(s), and/or process(s) used to identify the targets.	
	Include the source of the urbanized dataset used to establish the target. [23 CFR 490.107(b)(1)(ii)(D)]	

### Peak Hour Excess Delay (PHED)

#### Annual Hours of Peak Hour Excessive Delay (PHED) Per Capita Performance Overview General Comments: Please use this space to provide any general The Peak Hour Excessive Delay comments that may assist FHWA in its review of this part of the (PHED) per Capita is based on submission. You can use this space to provide greater context for the same data set as the travelyour targets and baseline performance, provide additional time reliability. The baseline year background detail or clarification, note any assumptions, or discuss PHED performance reflects ongoing changes to travel complications. (Optional) patterns caused by the COVID-19 pandemic, some of which are expected to be permanent in nature (such as reduced commuting traffic volumes due to remote work) but uncertain in magnitude, as this secular change in how we work and move interacts with other socioeconomic factors at play: other resulting trends have uncertain or negative effect (such as rail transit ridership, bus ridership, e-commerce trends, and shared mobility changes.) There is not an established causal relationship between these transit trends and vehicle registrations in Connecticut, but the latter have continued to increase and vehicle miles traveled on our highways have largely recovered to prepandemic levels. This generates a high degree of uncertainty in forecasts, since traditional relationships between overall volume and travel time are experiencing changes (with somewhat lower volumes measured during certain peak hours at some locations.) The CTDOT approach to considering data gathered during 2020 and 2021 has been to exclude it. since although the later periods suggest a return to previous trends to some degree, this is not a straightforward return to status quo ante. D2 The total number of applicable UZA(s) required to establish targets 6 and report progress for the Traffic Congestion Measures in your State are: Urbanized Area Target #1 - Annual Hours of Peak Hour Excessive Delay Per Capita **D3** Urbanized Area: Bridgeport--Stamford, CT--NY Relationship to Other Performance Expectations: Discuss how the Congestion reduction is a D4 2-year and 4-year targets established for the 2022-2025 component of the long-range transportation plan for both state Performance Period Annual Hours of Peak Hour Excessive Delay Per Capita in this UZA [23 CFR 490.105(c)(7)], which indicates the DOTs and the relevant MPOs in anticipated near-term direction or trend, support the achievement this urbanized area. These are

of both the long-term national congestion reduction performance

goal to achieve a significant reduction in congestion on the NHS

identified in 23 U.S.C. §150(b), and goal of improving project and

statewide or region-wide plans

and there are ongoing programs

aligned with these plans that have

	investment decision making through performance-based planning and programming [23 U.S.C. 150(a)]	an impact on performance. However, there is no specific
	Include how the established targets for Annual Hours of Peak Hour Excessive Delay Per Capita in this UZA for the Performance Period support expectations documented in longer range plans, such as the long-range statewide transportation plan. [23 CFR 490.107(b)(1)(ii)(C)]	major, transformative initiative targeted geographically on this urbanized area beyond these programs developed to meet the goals of the transportation plans. These targets reflect this through a continuation of existing statewide programs to relieve and address congestion.
D5	Please report the agencies that established the unified Annual Hours of Peak Hour Excessive Delay Per Capita target for this urbanized area. Use a semicolon to separate multiple agencies. (Optional)  All State DOTs and MPOs that contain, within their respective boundaries, any portion of the NHS network in this urbanized area shall agree on and report the same unified target for this measure. [23 CFR 490.105(e)(8)(iii)(B)] and 23 CFR [490.105(f)(5)(iii)(B)]	A single, joint, unified set of 2- and 4-year targets has been selected by the target setting process on the Peak Hour Excessive Delay (PHED) measure for this urbanized area. The data analytics was led by Connecticut Department of Transportation (CTDOT) Performance Management Unit. The list of agencies deciding to set this single set of targets are Connecticut Department of Transportation (CTDOT); Greater Bridgeport / Valley MPO; Housatonic Valley MPO; Housatonic Valley MPO; South Western MPO; South Central Region Council of Governments (SCRCOG); and Naugatuck Valley Council of Governments (NVCOG).
D6	Baseline: Annual Hours of Peak Hour Excessive Delay Per Capita in this UZA. [23 CFR 490.107(b)(1)(ii)(B)]  FHWA calculated this performance value from the latest data	12.6
	collected through the beginning date of the performance period specified in 23 CFR 490.105(e)(4)(i). [23 CFR 490.107(b)(1)(ii)]  The data must be reported to the nearest tenth of a percent.	
D7	2-year Target: Provide the 2-year target for the Annual Hours of Peak Hour Excessive Delay Per Capita in this UZA that was established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] and 23 CFR [490.107(c)(3)(ii)(A)] The target should reflect expected performance by the end of 2023.  The target must be reported to the nearest tenth. [23 CFR 490.101 (Target definition) & 23 CFR 490.713(b)] For example, enter 7.1.	20.0
D8	4-year Target: Provide the 4-year target for the Annual Hours of Peak Hour Excessive Delay Per Capita in this UZA that was established for the 2022- 2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] and 23 CFR [490.107(c)(3)(ii)(A)] The target should reflect expected performance by the end of 2025.  The target must be reported to the nearest tenth. [23 CFR 490.101 (Target definition) and 23 CFR 490.713(b)] For example, enter 7.1.	21.9
D9	Basis for Targets: Provide a discussion of the basis for the 2-year and 4-year targets established for the 2022-2025 Performance Period for the Annual Hours of Peak Hour Excessive Delay Per Capita in this UZA. [23 CFR 490.107(b)(1)(ii)(A)] This includes an explanation of the data, method(s), and/or process(s) used to identify the targets.	The 2-year and 4-year targets were established based on a) a review of the level of project activity expected during the performance period relative to current and recent levels, b) an

Include the source of the urbanized dataset used to establish the targets. [23 CFR 490.107(b)(1)(ii)(D)]

evaluation of recent disruptions to normal travel patterns, including the COVID-19 pandemic, and whether they will produce permanent effects on performance; and c) other factors influencing performance. Based on a generally stable project activity level and the conclusion that travel disruptions due to the pandemic were close to returning to pre-pandemic levels in 2022, the targets have been based on removing 2020 and 2021 data when projecting trends, applying linear regression to understand the trends, considering the coefficient of determination of the resulting coefficients, and considering other covariates in setting targets for this urbanized area. These factors included changes in travel patterns (telework in particular), data such as vehicle registration, and the relationship between fuel prices and travel demand. Finally, the target adoption taken was conservative (there is a desire to achieve the target with a high degree of reliability particularly with uncertainty in future trends in this area, which has the highest PHED level of any within the state of Connecticut.)

#### Urbanized Area Target #2 - Annual Hours of Peak Hour Excessive Delay Per Capita D10 Urbanized Area: Hartford, CT Relationship to Other Performance Expectations: Discuss how the **D11** Congestion reduction is a 2-year and 4-year targets established for the 2022-2025 component of the long-range transportation plan for both state Performance Period Annual Hours of Peak Hour Excessive Delay DOTs and the relevant MPOs in Per Capita in this UZA [23 CFR 490.105(c)(7)], which indicates the anticipated near-term direction or trend, support the achievement this urbanized area. These are of both the long-term national congestion reduction performance statewide or region-wide plans goal to achieve a significant reduction in congestion on the NHS and there are ongoing programs aligned with these plans that have identified in 23 U.S.C. §150(b), and goal of improving project and investment decision making through performance-based planning an impact on performance. and programming [23 U.S.C. 150(a)] However, there is no specific major, transformative initiative Include how the established targets for Annual Hours of Peak Hour targeted geographically on this Excessive Delay Per Capita in this UZA for the Performance Period urbanized area beyond these support expectations documented in longer range plans, such as programs developed to meet the the long-range statewide transportation plan. [23 CFR goals of the transportation plans. 490.107(b)(1)(ii)(C)] These targets reflect this through a continuation of existing statewide programs to relieve and address congestion. A single, joint, unified set of 2-D12 Please report the agencies that established the unified Annual Hours of Peak Hour Excessive Delay Per Capita target for this and 4-vear targets has been urbanized area. Use a semicolon to separate multiple agencies. selected by the target setting (Optional) process on the Peak Hour Excessive Delay (PHED) measure

	All State DOTs and MPOs that contain, within their respective boundaries, any portion of the NHS network in this urbanized area shall agree on and report the same unified target for this measure. [23 CFR 490.105(e)(8)(iii)(B)] and 23 CFR [490.105(f)(5)(iii)(B)]	for this urbanized area. The data analytics was led by Connecticut Department of Transportation (CTDOT) Performance Management Unit. The list of agencies deciding to set this single set of targets are Connecticut Department of Transportation (CTDOT); Capital Region Council of Governments (CRCOG); Lower Connecticut River Valley MPO; and Naugatuck Valley Council of Governments (NVCOG).
D13	Baseline: Annual Hours of Peak Hour Excessive Delay Per Capita in this UZA. [23 CFR 490.107(b)(1)(ii)(B)]  FHWA calculated this performance value from the latest data collected through the beginning date of the performance period specified in 23 CFR 490.105(e)(4)(i). [23 CFR 490.107(b)(1)(ii)]  The data must be reported to the nearest tenth of a percent.	5.7
D14	2-year Target: Provide the 2-year target for the Annual Hours of Peak Hour Excessive Delay Per Capita in this UZA that was established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] and 23 CFR [490.107(c)(3)(ii)(A)] The target should reflect expected performance by the end of 2023.  The target must be reported to the nearest tenth. [23 CFR 490.101 (Target definition) & 23 CFR 490.713(b)] For example, enter 7.1.	9.8
D15	4-year Target: Provide the 4-year target for the Annual Hours of Peak Hour Excessive Delay Per Capita in this UZA that was established for the 2022- 2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] and 23 CFR [490.107(c)(3)(ii)(A)] The target should reflect expected performance by the end of 2025.  The target must be reported to the nearest tenth. [23 CFR 490.101 (Target definition) and 23 CFR 490.713(b)] For example, enter 7.1.	9.8
D16	Basis for Targets: Provide a discussion of the basis for the 2-year and 4-year targets established for the 2022-2025 Performance Period for the Annual Hours of Peak Hour Excessive Delay Per Capita in this UZA. [23 CFR 490.107(b)(1)(ii)(A)] This includes an explanation of the data, method(s), and/or process(s) used to identify the targets.  Include the source of the urbanized dataset used to establish the targets. [23 CFR 490.107(b)(1)(ii)(D)]	The 2-year and 4-year targets were established based on a) a review of the level of project activity expected during the performance period relative to current and recent levels, b) an evaluation of recent disruptions to normal travel patterns, including the COVID-19 pandemic, and whether they will produce permanent effects on performance; and c) other factors influencing performance. Based on a generally stable project activity level and the conclusion that travel disruptions due to the pandemic were close to returning to pre-pandemic levels in 2022, the targets have been based on removing 2020 and 2021 data when projecting trends, applying linear regression to understand the trends, considering the coefficient of determination of the

resulting coefficients, and considering other covariates in setting targets for this urbanized area. These factors included changes in travel patterns (telework in particular), data such as vehicle registration, and the relationship between fuel prices and travel demand. Finally, the target adoption taken was conservative (there is a desire to achieve the target with a high degree of reliability particularly with the uncertainty in future trends in this area as described in this paragraph.) Urbanized Area Target #3 - Annual Hours of Peak Hour Excessive Delay Per Capita D17 Urbanized Area: New Haven, CT D18 Relationship to Other Performance Expectations: Discuss how the Congestion reduction is a 2-year and 4-year targets established for the 2022-2025 component of the long-range Performance Period Annual Hours of Peak Hour Excessive Delay transportation plan for both state Per Capita in this UZA [23 CFR 490.105(c)(7)], which indicates the DOTs and the relevant MPOs in anticipated near-term direction or trend, support the achievement this urbanized area. These are of both the long-term national congestion reduction performance statewide or region-wide plans goal to achieve a significant reduction in congestion on the NHS and there are ongoing programs identified in 23 U.S.C. §150(b), and goal of improving project and aligned with these plans that have investment decision making through performance-based planning an impact on performance. and programming [23 U.S.C. 150(a)] However, there is no specific major, transformative initiative Include how the established targets for Annual Hours of Peak Hour targeted geographically on this Excessive Delay Per Capita in this UZA for the Performance Period urbanized area beyond these support expectations documented in longer range plans, such as programs developed to meet the the long-range statewide transportation plan. [23 CFR goals of the transportation plans. 490.107(b)(1)(ii)(C)] These targets reflect this through a continuation of existing statewide programs to relieve and address congestion. D19 Please report the agencies that established the unified Annual A single, joint, unified set of 2-Hours of Peak Hour Excessive Delay Per Capita target for this and 4-year targets has been selected by the target setting urbanized area. Use a semicolon to separate multiple agencies. process on the Peak Hour (Optional) Excessive Delay (PHED) measure All State DOTs and MPOs that contain, within their respective for this urbanized area. The data boundaries, any portion of the NHS network in this urbanized area analytics was led by Connecticut shall agree on and report the same unified target for this measure. Department of Transportation [23 CFR 490.105(e)(8)(iii)(B)] and 23 CFR [490.105(f)(5)(iii)(B)] (CTDOT) Performance Management Unit. The list of agencies deciding to set this single set of targets are Connecticut Department of Transportation (CTDOT); South Central Regional COG (SCCOG); Lower Connecticut River Valley MPO; and Naugatuck Valley Council of Governments (NVCOG). **D20** Baseline: Annual Hours of Peak Hour Excessive Delay Per Capita 7.5

in this UZA. [23 CFR 490.107(b)(1)(ii)(B)]

influencing performance. Based on a generally stable project activity level and the conclusion that travel disruptions due to the pandemic were close to returning to pre-pandemic levels in 2022, the targets have been based on removing 2020 and 2021 data when projecting trends, applying linear regression to understand the trends, considering the coefficient of determination of the resulting coefficients, and considering other covariates in setting targets for this urbanized area. These factors included changes in travel patterns (telework in particular), data such as vehicle registration, and the relationship between fuel prices and travel demand. Finally, the target adoption taken was			
2-year Target: Provide the 2-year target for the Annual Hours of 49.0.107(b)(1)(ii)(A) and 23 CFR [490.107(b)(3)(ii)(A)] The target should reflect expected performance by the end of 2023.  The target must be reported to the nearest tenth. [23 CFR 490.101 (Target definition) & 23 CFR 490.171(b)) For example, enter 7.1.  P22		collected through the beginning date of the performance period specified in 23 CFR 490.105(e)(4)(i). [23 CFR 490.107(b)(1)(ii)]	
4-year Target: Provide the 4-year target for the Annual Hours of Peak Hour Excessive Delay Per Capita in this UZA that was established for the 2022- 2025 Performance Period. [23 CFR 490.107(b)(1)(iii)(A)] and 23 CFR [490.107(c)(3)(iii)(A)] The target should reflect expected performance by the end of 2025.  The target must be reported to the nearest tenth. [23 CFR 490.101 (Target definition) and 23 CFR 490.173(b)] For example, enter 7.1.  Basis for Targets: Provide a discussion of the basis for the 2-year and 4-year targets established for the 2022-2025 Performance Period for the Annual Hours of Peak Hour Excessive Delay Per Capita in this UZA. [23 CFR 490.107(b)(1)(iii)(A)] This includes an explanation of the data, method(s), and/or process(s) used to identify the targets.  Include the source of the urbanized dataset used to establish the targets. [23 CFR 490.107(b)(1)(iii)(D)]  The 2-year and 4-year targets were established based on a) a review of the level of project activity expected during the performance period relative to current and recent levels, b) an evaluation of recent disruptions to normal travel patterns, including the COVID-19 pandemic, and whether they will produce permanent effects on performance. Based on a generally stable project activity level and the conclusion that travel disruptions due to the pandemic were close to returning to pre-pandemic levels in 2022, the targets have been based on removing 2020 and 2021 data when projecting trends, applying linear regression to understand the trends, considering the coefficient of determination of the resulting coefficients, and considering the coefficient of determination of the resulting targets for this urbanized area. These factors included changes in travel patterns (telework in particular), data such as vehicle registration, and the relationship between fuel prices and travel demand. Finally, the target adoption taken was	D21	2-year Target: Provide the 2-year target for the Annual Hours of Peak Hour Excessive Delay Per Capita in this UZA that was established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] and 23 CFR [490.107(c)(3)(ii)(A)] The target should reflect expected performance by the end of 2023.  The target must be reported to the nearest tenth. [23 CFR 490.101]	7.9
Basis for Targets: Provide a discussion of the basis for the 2-year and 4-year targets established for the 2022-2025 Performance Period for the Annual Hours of Peak Hour Excessive Delay Per Capita in this UZA. [23 CFR 490.107(b)(1)(ii)(A)] This includes an explanation of the data, method(s), and/or process(s) used to identify the targets.  Include the source of the urbanized dataset used to establish the targets. [23 CFR 490.107(b)(1)(ii)(D)]  Basis for Targets: Provide a discussion of the basis for the 2-year and 4-year targets were established based on a) a review of the level of project activity expected during the performance period relative to current and recent levels, b) an evaluation of recent disruptions to normal travel patterns, including the COVID-19 pandemic, and whether they will produce permanent effects on performance; and c) other factors influencing performance. Based on a generally stable project activity level and the conclusion that travel disruptions due to the pandemic were close to returning to pre-pandemic levels in 2022, the targets have been based on removing 2020 and 2021 data when projecting trends, applying linear regression to understand the trends, considering the coefficient of determination of the resulting coefficients, and considering other covariates in setting targets for this urbanized area. These factors included changes in travel patterns (telework in particular), data such as vehicle registration, and the relationship between fuel prices and travel demand. Finally, the target adoption taken was	D22	4-year Target: Provide the 4-year target for the Annual Hours of Peak Hour Excessive Delay Per Capita in this UZA that was established for the 2022- 2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] and 23 CFR [490.107(c)(3)(ii)(A)] The target should reflect expected performance by the end of 2025.  The target must be reported to the nearest tenth. [23 CFR 490.101]	7.9
achieve the target with a high degree of reliability particularly with the uncertainty in future trends in this area as described in this paragraph. In addition, for this urbanized area in particular,	D23	Basis for Targets: Provide a discussion of the basis for the 2-year and 4-year targets established for the 2022-2025 Performance Period for the Annual Hours of Peak Hour Excessive Delay Per Capita in this UZA. [23 CFR 490.107(b)(1)(ii)(A)] This includes an explanation of the data, method(s), and/or process(s) used to identify the targets.  Include the source of the urbanized dataset used to establish the	were established based on a) a review of the level of project activity expected during the performance period relative to current and recent levels, b) an evaluation of recent disruptions to normal travel patterns, including the COVID-19 pandemic, and whether they will produce permanent effects on performance; and c) other factors influencing performance. Based on a generally stable project activity level and the conclusion that travel disruptions due to the pandemic were close to returning to pre-pandemic levels in 2022, the targets have been based on removing 2020 and 2021 data when projecting trends, applying linear regression to understand the trends, considering the coefficient of determination of the resulting coefficients, and considering other covariates in setting targets for this urbanized area. These factors included changes in travel patterns (telework in particular), data such as vehicle registration, and the relationship between fuel prices and travel demand. Finally, the target adoption taken was conservative (there is a desire to achieve the target with a high degree of reliability particularly with the uncertainty in future trends in this area as described in this paragraph. In addition, for

pre-pandemic trends reflected significant improvements resulting from the opening of the Hartford Line commuter rail service in 2018 and the completion of the I-91 and I-95 intersection multi-year project. While these improvements continnue to result in permanently-improved excessive delay conditions, they represent major one-time capital improvements for this particular location and there is not a project of that magnitude that was foreseen to be completed within the performance period, at the time of target-setting.)

#### Urbanized Area Target #4 - Annual Hours of Peak Hour Excessive Delay Per Capita

#### **D24**

Urbanized Area:

D25

Relationship to Other Performance Expectations: Discuss how the 2-year and 4-year targets established for the 2022-2025 Performance Period Annual Hours of Peak Hour Excessive Delay Per Capita in this UZA [23 CFR 490.105(c)(7)], which indicates the anticipated near-term direction or trend, support the achievement of both the long-term national congestion reduction performance goal to achieve a significant reduction in congestion on the NHS identified in 23 U.S.C. §150(b), and goal of improving project and investment decision making through performance-based planning and programming [23 U.S.C. 150(a)]

Include how the established targets for Annual Hours of Peak Hour Excessive Delay Per Capita in this UZA for the Performance Period support expectations documented in longer range plans, such as the long-range statewide transportation plan. [23 CFR 490.107(b)(1)(ii)(C)]

**D26** 

Please report the agencies that established the unified Annual Hours of Peak Hour Excessive Delay Per Capita target for this urbanized area. Use a semicolon to separate multiple agencies. (Optional)

All State DOTs and MPOs that contain, within their respective boundaries, any portion of the NHS network in this urbanized area shall agree on and report the same unified target for this measure. [23 CFR 490.105(e)(8)(iii)(B)] and 23 CFR [490.105(f)(5)(iii)(B)]

Norwich--New London, CT--RI Congestion reduction is a component of the long-range transportation plan for both state DOTs and the relevant MPOs in this urbanized area. These are statewide or region-wide plans and there are ongoing programs aligned with these plans that have an impact on performance. However, there is no specific major, transformative initiative targeted geographically on this urbanized area beyond these programs developed to meet the goals of the transportation plans. These targets reflect this through a continuation of existing statewide programs to relieve and address congestion.

A single, joint, unified set of 2and 4-year targets has been selected by the target setting process on the Peak Hour Excessive Delay (PHED) measure for this urbanized area. The data analytics was led by Connecticut Department of Transportation (CTDOT) Performance Management Unit, as the majority of the urbanized area geographically is within the CTDOT.

The list of agencies deciding to set this single set of targets are Connecticut Department of Transportation; Rhode Island Department of Transportation (RIDOT); the Rhode Island Metropolitan Planning Organization (RIMPO): Southeastern Connecticut Council of Governments (SCCOG); and

		the Lower Connecticut River Valley MPO.
D27	Baseline: Annual Hours of Peak Hour Excessive Delay Per Capita in this UZA. [23 CFR 490.107(b)(1)(ii)(B)]  FHWA calculated this performance value from the latest data collected through the beginning date of the performance period specified in 23 CFR 490.105(e)(4)(i). [23 CFR 490.107(b)(1)(ii)]	3.6
	The data must be reported to the nearest tenth of a percent.	
D28	2-year Target: Provide the 2-year target for the Annual Hours of Peak Hour Excessive Delay Per Capita in this UZA that was established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] and 23 CFR [490.107(c)(3)(ii)(A)] The target should reflect expected performance by the end of 2023.  The target must be reported to the nearest tenth. [23 CFR 490.101]	4.0
D29	(Target definition) & 23 CFR 490.713(b)] For example, enter 7.1.  4-year Target: Provide the 4-year target for the Annual Hours of Peak Hour Excessive Delay Per Capita in this UZA that was established for the 2022- 2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] and 23 CFR [490.107(c)(3)(ii)(A)] The target should reflect expected performance by the end of 2025.  The target must be reported to the nearest tenth. [23 CFR 490.101 (Target definition) and 23 CFR 490.713(b)] For example, enter 7.1.	4.0
D30	Basis for Targets: Provide a discussion of the basis for the 2-year and 4-year targets established for the 2022-2025 Performance Period for the Annual Hours of Peak Hour Excessive Delay Per Capita in this UZA. [23 CFR 490.107(b)(1)(ii)(A)] This includes an explanation of the data, method(s), and/or process(s) used to identify the targets.  Include the source of the urbanized dataset used to establish the targets. [23 CFR 490.107(b)(1)(ii)(D)]	The 2-year and 4-year targets were established based on a) a review of the level of project activity expected during the performance period relative to current and recent levels, b) an evaluation of recent disruptions to normal travel patterns, including the COVID-19 pandemic, and whether they will produce permanent effects on performance; and c) other factors influencing performance. Based on a generally stable project activity level and the conclusion that travel disruptions due to the pandemic were close to returning to pre-pandemic levels in 2022, the targets have been based on removing 2020 and 2021 data when projecting trends, applying linear regression to understand the trends, considering the coefficient of determination of the resulting coefficients, and considering other covariates in setting targets for this urbanized area. These factors included changes in travel patterns (telework in particular), data such as vehicle registration, and the relationship between fuel prices and travel demand. Finally, the target adoption taken was conservative (there is a desire to achieve the target with a high

degree of reliability, and there is not a major congestion-relief initiative in this urbanized area, particularly given that the absolute levels of peak-hour excessive delay are low) given the planned levels of transportation investment targeted at congestion mitigation.

#### Urbanized Area Target #5 - Annual Hours of Peak Hour Excessive Delay Per Capita

#### D31 Urbanized Area:

D32

Relationship to Other Performance Expectations: Discuss how the 2-year and 4-year targets established for the 2022-2025 Performance Period Annual Hours of Peak Hour Excessive Delay Per Capita in this UZA [23 CFR 490.105(c)(7)], which indicates the anticipated near-term direction or trend, support the achievement of both the long-term national congestion reduction performance goal to achieve a significant reduction in congestion on the NHS identified in 23 U.S.C. §150(b), and goal of improving project and investment decision making through performance-based planning and programming [23 U.S.C. 150(a)]

Include how the established targets for Annual Hours of Peak Hour Excessive Delay Per Capita in this UZA for the Performance Period support expectations documented in longer range plans, such as the long-range statewide transportation plan. [23 CFR 490.107(b)(1)(ii)(C)]

r Capita
Springfield, MA--CT

Taking account MassDOT's longterm goal of reducing peak hour excessive delay on all roadways, CTDOT collaborated with MassDOT to ensure the targets are relevant to the long-term goal. As part of MassDOT's ongoing development of its 2050 Statewide Long Range Transportation Plan (SLRTP), traffic congestion is continuing to emerge as an important theme during public outreach and other analyses. As such, congestion reduction will be articulated as one of MassDOT's priority areas through the SLRTP and progress toward decreasing congestion will be continually tracked. As part of SLRTP development and the federal Transportation Performance Management (TPM) process, MassDOT will identify the locations that are most in need of improvements in this area. Following on those analyses, the SLRTP, the State **Transportation Improvement** Program (STIP), and Transportation Improvement Programs (TIPs) will articulate strategies for program and project development that addresses these locations with the larger goal of reducing congestion.

Additionally, the SLRTP will account for trends in the areas of telework, climate change, migration impacts, and technology, all of which will likely have an impact on congestion. Specifically, trends indicate increasing telework relative to prepandemic levels and congestion being spread out across the day rather than concentrated during peak periods. Given these trends, in conjunction with MassDOT's ongoing efforts to reduce congestion and improve reliability

		through its various federal and state programs, it is anticipated that peak hour excessive delay will be reduced relative to prepandemic levels and between the two-year and four-year performance periods in the Springfield urbanized area (UZA).
		Specifically, MassDOT's Intersection Improvements, Roadway Reconstruction, and Bicycle and Pedestrian Programs in the STIP contain several investments over the performance period in the Springfield UZA that are intended to reduce congestion. Additional programs such as MassDOT's Local Bottleneck Reductions Program also support reducing congestion.
D33	Please report the agencies that established the unified Annual Hours of Peak Hour Excessive Delay Per Capita target for this urbanized area. Use a semicolon to separate multiple agencies. (Optional)  All State DOTs and MPOs that contain, within their respective boundaries, any portion of the NHS network in this urbanized area shall agree on and report the same unified target for this measure. [23 CFR 490.105(e)(8)(iii)(B)] and 23 CFR [490.105(f)(5)(iii)(B)]	A joint, unified set of 2- and 4-year targets was adopted for this measure by all agencies involved. The following agencies were consulted as part of the target setting process on the Peak Hour Excessive Delay (PHED) measure, led by Massachusetts Department of Transportation (MASSDOT) Office of Transportation (OTP); the Connecticut Department of Transportation (CTDOT) Performance Management Unit; Capitol Region Council of Governments; and the Pioneer Valley Planning Commission (PVPC).
D34	Baseline: Annual Hours of Peak Hour Excessive Delay Per Capita in this UZA. [23 CFR 490.107(b)(1)(ii)(B)]  FHWA calculated this performance value from the latest data collected through the beginning date of the performance period specified in 23 CFR 490.105(e)(4)(i). [23 CFR 490.107(b)(1)(ii)]  The data must be reported to the nearest tenth of a percent.	6.2
D35	2-year Target: Provide the 2-year target for the Annual Hours of Peak Hour Excessive Delay Per Capita in this UZA that was established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] and 23 CFR [490.107(c)(3)(ii)(A)] The target should reflect expected performance by the end of 2023.  The target must be reported to the nearest tenth. [23 CFR 490.101 (Target definition) & 23 CFR 490.713(b)] For example, enter 7.1.	6.5
D36	4-year Target: Provide the 4-year target for the Annual Hours of Peak Hour Excessive Delay Per Capita in this UZA that was established for the 2022- 2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] and 23 CFR [490.107(c)(3)(ii)(A)] The target should reflect expected performance by the end of 2025.	6.0

D37

The target must be reported to the nearest tenth. [23 CFR 490.101 (Target definition) and 23 CFR 490.713(b)] For example, enter 7.1. Basis for Targets: Provide a discussion of the basis for the 2-year and 4-year targets established for the 2022-2025 Performance Period for the Annual Hours of Peak Hour Excessive Delay Per Capita in this UZA. [23 CFR 490.107(b)(1)(ii)(A)] This includes an explanation of the data, method(s), and/or process(s) used to identify the targets.

Include the source of the urbanized dataset used to establish the targets. [23 CFR 490.107(b)(1)(ii)(D)]

The targets for Annual Hours of Peak Hour Excessive Delay (PHED) Per Capita for the Springfield Urbanized Area are established using year-end HPMS reports as well as data on travel time and population. Prior to the pandemic, PHED for the Springfield UZA was declining. The pandemic resulted in a sharper decline in excessive delay. However, the delay increased after 2020. As there is no data for 2022, it is unclear whether excessive delay will continue to increase. Additionally, the excessive delay will also be affected by the increasing adoption of telework arrangements. Since the pandemic, the peak travel volume has continued to move towards pre-pandemic levels. At the same time the peak has become less pronounced and more spread out across times of day. Considering these factors, CTDOT and MASSDOT is establishing targets that represent improvements from the pre-pandemic excessive delay while leaving room for excessive delay to move towards prepandemic level in the near term. The targets consider the uncertainty of recent trends while setting a path towards lowering excessive delay.

#### Urbanized Area Target #6 - Annual Hours of Peak Hour Excessive Delay Per Capita

D38

Urbanized Area:

**D39** 

Relationship to Other Performance Expectations: Discuss how the 2-year and 4-year targets established for the 2022-2025 Performance Period Annual Hours of Peak Hour Excessive Delay Per Capita in this UZA [23 CFR 490.105(c)(7)], which indicates the anticipated near-term direction or trend, support the achievement of both the long-term national congestion reduction performance goal to achieve a significant reduction in congestion on the NHS identified in 23 U.S.C. §150(b), and goal of improving project and investment decision making through performance-based planning and programming [23 U.S.C. 150(a)]

Include how the established targets for Annual Hours of Peak Hour Excessive Delay Per Capita in this UZA for the Performance Period support expectations documented in longer range plans, such as the long-range statewide transportation plan. [23 CFR 490.107(b)(1)(ii)(C)]

Worcester, MA--CT

Taking account MassDOT's longterm goal is to reduce peak hour excessive delay on all roadways, CTDOT collaborated with MassDOT to ensure the targets are relevant to the long-term goal. As part of MassDOT's ongoing development of its 2050 Statewide Long Range Transportation Plan (SLRTP), traffic congestion is continuing to emerge as an important theme during public outreach and other analyses. As such, congestion reduction will be articulated as one of MassDOT's priority areas through the SLRTP and progress toward decreasing congestion will be continually tracked. As part of SLRTP development and the

federal Transportation
Performance Management (TPM)
process, MassDOT will identify
the locations that are most in
need of improvements in this
area. Following on those
analyses, the SLRTP, the State
Transportation Improvement
Program (STIP), and
Transportation Improvement
Programs (TIPs) will articulate
strategies for program and project
development that addresses
these locations with the larger
goal of reducing congestion.

Additionally, the SLRTP will account for trends in the areas of telework, climate change, migration impacts, and technology, all of which will likely have an impact on congestion. Specifically, trends indicate increasing telework relative to prepandemic levels and congestion being spread out across the day rather than concentrated during peak periods. Given these trends, in conjunction with MassDOT's ongoing efforts to reduce congestion and improve reliability through its various federal and state programs, it is anticipated that peak hour excessive delay will be reduced relative to prepandemic levels and between the two-year and four-year performance periods in the Worcester urbanized area (UZA).

Specifically, MassDOT's Intersection Improvements, Roadway Reconstruction, and Bicycle and Pedestrian Programs in the STIP contain several investments over the performance period in the Worcester UZA that are intended to reduce congestion. Additional programs such as MassDOT's Local Bottleneck Reductions Program also support reducing congestion. A joint, unified set of 2- and 4-year targets was adopted by all agencies listed below for this urbanizaed area. The following agencies were consulted as part of the target setting process on the Peak Hour Excessive Delay (PHED) measure, led by MassDOT's Office of

Please report the agencies that established the unified Annual Hours of Peak Hour Excessive Delay Per Capita target for this urbanized area. Use a semicolon to separate multiple agencies. (Optional)

All State DOTs and MPOs that contain, within their respective boundaries, any portion of the NHS network in this urbanized area shall agree on and report the same unified target for this measure. [23 CFR 490.105(e)(8)(iii)(B)] and 23 CFR [490.105(f)(5)(iii)(B)]

D41	Baseline: Annual Hours of Peak Hour Excessive Delay Per Capita in this UZA. [23 CFR 490.107(b)(1)(ii)(B)]  FHWA calculated this performance value from the latest data collected through the beginning date of the performance period specified in 23 CFR 490.105(e)(4)(i). [23 CFR 490.107(b)(1)(ii)]	Transportation Planning (OTP); the Connecticut Department of Transportation; Northeastern Connecticut Council of Governments; the Central Massachusetts MPO; the Montachusett MPO; and the Boston Region MPO.  6.8
D42	The data must be reported to the nearest tenth of a percent.  2-year Target: Provide the 2-year target for the Annual Hours of Peak Hour Excessive Delay Per Capita in this UZA that was established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] and 23 CFR [490.107(c)(3)(ii)(A)] The target	7.0
D43	should reflect expected performance by the end of 2023.  The target must be reported to the nearest tenth. [23 CFR 490.101 (Target definition) & 23 CFR 490.713(b)] For example, enter 7.1.  4-year Target: Provide the 4-year target for the Annual Hours of	5.0
540	Peak Hour Excessive Delay Per Capita in this UZA that was established for the 2022- 2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] and 23 CFR [490.107(c)(3)(ii)(A)] The target should reflect expected performance by the end of 2025.  The target must be reported to the nearest tenth. [23 CFR 490.101 (Target definition) and 23 CFR 490.713(b)] For example, enter 7.1.	
D44	Basis for Targets: Provide a discussion of the basis for the 2-year and 4-year targets established for the 2022-2025 Performance Period for the Annual Hours of Peak Hour Excessive Delay Per Capita in this UZA. [23 CFR 490.107(b)(1)(ii)(A)] This includes an explanation of the data, method(s), and/or process(s) used to identify the targets.  Include the source of the urbanized dataset used to establish the targets. [23 CFR 490.107(b)(1)(ii)(D)]	The targets for Annual Hours of Peak Hour Excessive Delay (PHED) Per Capita for the Worcester Urbanized Area are established using year-end HPMS Reports as well as data on travel time and population. Prior to the pandemic, PHED for the Worcester UZA was declining. The pandemic resulted in a sharper decline in PHED but the number has since increased. Without 2022 data, it is unclear whether excessive delay will continue to increase. Additionally, the excessive delay will also be affected by the increasing adoption of telework arrangements. Since the pandemic, the peak travel volume has continued to move towards pre-pandemic levels. At the same time the peak has become less pronounced and more spread out across time. Considering these factors, CTDOT in collaboration with MassDOT is establishing targets that represent improvements from the pre-pandemic PHED while leaving

room for excessive delay to move towards pre-pandemic levels in the near term. The targets are set by considering of the uncertainty of recent trends while setting a path towards lowering excessive delay.

## **Percent of Non-SOV Travel**

Percent of Non-Single Occupancy Vehicle (Non-SOV) Travel Performance Overview		
T2	General Comments: Please use this space to provide any general comments that may assist FHWA in its review of this part of the submission. You can use this space to provide greater context for your targets and baseline performance, provide additional background detail or clarification, note any assumptions, or discuss complications. (Optional)  The total number of applicable UZA(s) required to establish targets and report progress for the Traffic Congestion Measures in your	The CTDOT elected to use the American Community Survey data to measure and project non-SOV percentage. The baseline year non-SOV share reflects ongoing changes to travel patterns caused by the COVID-19 pandemic, some of which are expected to be permanent in nature (such as reduced commuting traffic volumes due to remote work) but uncertain in magnitude, as this secular change in how we work and move interacts with other socioeconomic factors at play; other resulting trends have uncertain or negative effect (such as rail transit ridership, bus ridership, e-commerce trends, and shared mobility changes.) There is not an established causal relationship between these transit trends and vehicle registrations in Connecticut, but the latter have continued to increase and vehicle miles traveled on our highways have largely recovered to prepandemic levels. This generates a high degree of uncertainty in forecasts, since traditional relationships between overall volume and travel time are experiencing changes (with somewhat lower volumes measured during certain peak hours at some locations,) as are the modes used for the journey to work, where telework is expected to be an increasing share. The CTDOT approach to considering data gathered during 2020 and 2021 has been to exclude it, since although the later periods suggest a return to previous trends to some degree, this is not a foregone conclusion and the actual new patterns may differ from those before the pandemic.
Urbaniz	State are: ed Area Targets #1 - Percent of Non-Single Occupancy Vehicle (N	lon-SOV) Travel
T3	Urbanized Area:	BridgeportStamford, CTNY
T4	Relationship to Other Performance Expectations: Discuss how the 2-year and 4-year targets established for the 2022-2025 Performance Period for Percent of Non-SOV Travel in this UZA [23 CFR 490.105(c)(7)], which indicates the anticipated near-term	Congestion reduction is a component of the long-range transportation plan for both state DOTs and the relevant MPOs in

	direction or trend, support the achievement of both the long-term national congestion reduction performance goal to achieve a significant reduction in congestion on the NHS identified in 23 U.S.C. §150(b), and goal of improving project and investment decision making through performance-based planning and programming [23 U.S.C. 150(a)]  Include how the established targets for Percent of Non-SOV Travel in this UZA for the Performance Period support expectations documented in longer range plans, such as the long-range statewide transportation plan. [23 CFR 490.107(b)(1)(ii)(C)]	this urbanized area. These are statewide or region-wide plans and there are ongoing programs aligned with these plans that have an impact on performance. However, there are also substantial changes, particularly in remote work patterns, that may remain as a feature of our journey to work in the future well beyond the recent pandemic, for example.
Т5	Please report the agencies that established the unified Non-SOV target for this urbanized area. Use a semicolon to separate multiple agencies. (Optional)	A single, joint, unified set of 2- and 4-year targets has been selected by the target setting process on the non-SOV measure
	All State DOTs and MPOs that contain, within their respective boundaries, any portion of the NHS network in this urbanized area shall agree on and report the same unified targets for this measure. [23 CFR 490.105(e)(8)(iii)(B) and 23 CFR 490.105(f)(5)(iii)(B)]	for this urbanized area. The data analytics was led by Connecticut Department of Transportation (CTDOT) Performance Management Unit. The list of agencies deciding to set this single set of targets are Connecticut Department of Transportation (CTDOT); Greater Bridgeport / Valley MPO; Housatonic Valley MPO; South Western MPO; South Central Region Council of Governments (SCRCOG); and Naugatuck Valley Council of Governments (NVCOG).
T6	Method: Please provide the data collection method for the Percent of Non-SOV Travel measure. [23 CFR 490.107(b)(1)(ii)(I)]	Method A - American Community Survey
		Survey
Т6а	Please provide a brief description of the method for the Percent of Non- SOV Travel measure if either Method B or Method C were	Survey
T6a	Please provide a brief description of the method for the Percent of Non- SOV Travel measure if either Method B or Method C were used. [23 CFR 490.709 (f)(2)]  Baseline: Percent of Non-SOV Travel. [23 CFR 490.107(b)(1)(ii)(B) and 23 CFR 490.107(c)(3)(ii)(C)]	30.4
	Please provide a brief description of the method for the Percent of Non- SOV Travel measure if either Method B or Method C were used. [23 CFR 490.709 (f)(2)]  Baseline: Percent of Non-SOV Travel. [23 CFR 490.107(b)(1)(ii)(B)	•
	Please provide a brief description of the method for the Percent of Non- SOV Travel measure if either Method B or Method C were used. [23 CFR 490.709 (f)(2)]  Baseline: Percent of Non-SOV Travel. [23 CFR 490.107(b)(1)(ii)(B) and 23 CFR 490.107(c)(3)(ii)(C)]  The data submitted must cover the performance derived from the latest data collected through the beginning date of the performance period specified in 23 CFR 490.105(e)(4)(i). [23 CFR 490.107(b)(1)(ii)]  The data must be reported to the nearest tenth of a percent. [23 CFR 490.101 (Target definition) and 23 CFR 490.713(d)] Enter 86.5% as 86.5.  If you select Method A in T6, the baseline data will be Prepopulated based on American Community Survey (ACS) data. If you select Method B or Method C in T6, please provide the	
	Please provide a brief description of the method for the Percent of Non- SOV Travel measure if either Method B or Method C were used. [23 CFR 490.709 (f)(2)]  Baseline: Percent of Non-SOV Travel. [23 CFR 490.107(b)(1)(ii)(B) and 23 CFR 490.107(c)(3)(ii)(C)]  The data submitted must cover the performance derived from the latest data collected through the beginning date of the performance period specified in 23 CFR 490.105(e)(4)(i). [23 CFR 490.107(b)(1)(ii)]  The data must be reported to the nearest tenth of a percent. [23 CFR 490.101 (Target definition) and 23 CFR 490.713(d)] Enter 86.5% as 86.5.  If you select Method A in T6, the baseline data will be Prepopulated based on American Community Survey (ACS) data. If you select Method B or Method C in T6, please provide the baseline performance calculated by the State DOT here.  2-year Target: Provide the 2-year target for the Percent of Non-SOV Travel established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should reflect expected performance by the end of 2023.  Target must be reported to the nearest tenth of a percent. [23 CFR 490.101 (Target definition) and 23 CFR 490.713(d)] Enter 86.5%	•
T7	Please provide a brief description of the method for the Percent of Non- SOV Travel measure if either Method B or Method C were used. [23 CFR 490.709 (f)(2)]  Baseline: Percent of Non-SOV Travel. [23 CFR 490.107(b)(1)(ii)(B) and 23 CFR 490.107(c)(3)(ii)(C)]  The data submitted must cover the performance derived from the latest data collected through the beginning date of the performance period specified in 23 CFR 490.105(e)(4)(i). [23 CFR 490.107(b)(1)(ii)]  The data must be reported to the nearest tenth of a percent. [23 CFR 490.101 (Target definition) and 23 CFR 490.713(d)] Enter 86.5% as 86.5.  If you select Method A in T6, the baseline data will be Prepopulated based on American Community Survey (ACS) data. If you select Method B or Method C in T6, please provide the baseline performance calculated by the State DOT here.  2-year Target: Provide the 2-year target for the Percent of Non-SOV Travel established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should reflect expected performance by the end of 2023.  Target must be reported to the nearest tenth of a percent. [23 CFR	30.4

490.107(b)(1)(ii)(A)] Target should reflect expected performance by the end of 2025.

Target must be reported to the nearest tenth of a percent, [23 CFR] 490.101 (Target definition) and 23 CFR 490.713(d)] Enter 86.5% as 86.5.

T10 Basis for Targets: Provide a discussion of the basis for the 2-year and 4-year targets established for the 2022-2025 Performance Period for the Percent of Non-SOV Travel in this UZA. [23 CFR 490.107(b)(1)(ii)(A)] This includes an explanation of the data, method(s), and/or process(s) used to identify the targets. Include the source of the urbanized dataset used to establish the targets.

[23 CFR 490.107(b)(1)(ii)(D)]

The targets for Percentage of Non-Single Occupancy Vehicle travel for the Bridgeport -Stamford Urbanized Area are established by utilizing the American Community Survey (ACS) five-year estimates on means of transportation to work. A linear regression model was created to project trends for the two and four-year targets, utilizing ACS data from 2015 to 2019. Non-SOV data from 2020 was excluded due to the Pandemic, as the percent was an anomaly. In addition, CTDOT analyzed trends in vehicle registrations and gas price fluctuations to identify correlations in percent of people traveling to work alone. CTDOT is taking a conservative approach, through selecting a number on the low range of the observed trends prior to the Pandemic in the ACS data. The linear regression model has a low confidence in the projections (high p-value) and based on the commuting trends, people will be utilizing their vehicles as VMT and PHED will be increasing.

### Urbanized Area Targets #2 - Percent of Non-Single Occupancy Vehicle (Non-SOV) Travel

T11 Urbanized Area: Hartford, CT T12 Relationship to Other Performance Expectations: Discuss how the Congestion reduction is a 2-year and 4-year targets established for the 2022-2025 component of the long-range transportation plan for both state Performance Period for Percent of Non-SOV Travel in this UZA [23] CFR 490.105(c)(7)], which indicates the anticipated near-term DOTs and the relevant MPOs in direction or trend, support the achievement of both the long-term this urbanized area. These are national congestion reduction performance goal to achieve a statewide or region-wide plans significant reduction in congestion on the NHS identified in 23 U.S.C. §150(b), and goal of improving project and investment decision making through performance-based planning and programming [23 U.S.C. 150(a)] Include how the established targets for Percent of Non-SOV Travel in this UZA for the Performance Period support expectations documented in longer range plans, such as the long-range statewide transportation plan. [23 CFR 490.107(b)(1)(ii)(C)]

All State DOTs and MPOs that contain, within their respective boundaries, any portion of the NHS network in this urbanized area shall agree on and report the same unified targets for this measure.

Please report the agencies that established the unified Non-SOV

target for this urbanized area. Use a semicolon to separate multiple

and there are ongoing programs aligned with these plans that have an impact on performance. However, there are also substantial changes, particularly in remote work patterns, that may remain as a feature of our journey to work in the future well beyond the recent pandemic, for example. A single, joint, unified set of 2and 4-year targets has been selected by the target setting process for the non-SOV measure for this urbanized area. The data analytics was led by Connecticut Department of Transportation

T13

agencies. (Optional)

	[23 CFR 490.105(e)(8)(iii)(B) and 23 CFR 490.105(f)(5)(iii)(B)]	(CTDOT) Performance Management Unit. The list of agencies deciding to set this single set of targets are Connecticut Department of Transportation (CTDOT); Capital Region Council of Governments (CRCOG); Lower Connecticut River Valley MPO; and Naugatuck Valley Council of Governments (NVCOG).
T14	Method: Please provide the data collection method for the Percent of Non-SOV Travel measure. [23 CFR 490.107(b)(1)(ii)(l)]	Method A - American Community Survey
T14a	Please provide a brief description of the method for the Percent of Non- SOV Travel measure if either Method B or Method C were used. [23 CFR 490.709 (f)(2)]	
T15	Baseline: Percent of Non-SOV Travel. [23 CFR 490.107(b)(1)(ii)(B) and 23 CFR 490.107(c)(3)(ii)(C)]  The data submitted must cover the performance derived from the latest data collected through the beginning date of the performance period specified in 23 CFR 490.105(e)(4)(i). [23 CFR 490.107(b)(1)(ii)]  The data must be reported to the nearest tenth of a percent. [23 CFR 490.101 (Target definition) and 23 CFR 490.713(d)] Enter 86.5% as 86.5.  If you select Method A in T6, the baseline data will be Prepopulated based on American Community Survey (ACS) data. If you select Method B or Method C in T6, please provide the baseline performance calculated by the State DOT here.	22.1
T16	2-year Target: Provide the 2-year target for the Percent of Non-SOV Travel established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should reflect expected performance by the end of 2023.  Target must be reported to the nearest tenth of a percent. [23 CFR 490.101 (Target definition) and 23 CFR 490.713(d)] Enter 86.5% as 86.5.	19.8
T17	4-yr Target: Provide the 4-year target for the Percent of Non-SOV Travel established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should reflect expected performance by the end of 2025.  Target must be reported to the nearest tenth of a percent. [23 CFR 490.101 (Target definition) and 23 CFR 490.713(d)] Enter 86.5% as 86.5.	19.8
T18	Basis for Targets: Provide a discussion of the basis for the 2-year and 4-year targets established for the 2022-2025 Performance Period for the Percent of Non-SOV Travel in this UZA. [23 CFR 490.107(b)(1)(ii)(A)] This includes an explanation of the data, method(s), and/or process(s) used to identify the targets. Include the source of the urbanized dataset used to establish the targets. [23 CFR 490.107(b)(1)(ii)(D)]	The targets for Percentage of Non-Single Occupancy Vehicle travel for the Hartford Urbanized Area are established by utilizing the American Community Survey (ACS) five-year estimates on means of transportation to work. A linear regression model was created to project trends for the two and four-year targets, utilizing ACS data from 2015 to 2019. Non-SOV data from 2020 was excluded due to the Pandemic, as the percent was an anomaly. In

addition, CTDOT analyzed trends in vehicle registrations and gas price fluctuations to identify correlations in percent of people traveling to work alone. CTDOT is taking a conservative approach, through selecting a number on the low range of the observed trends prior to the Pandemic in the ACS data and use a flat (zero) slope for the two and four-year targets. The linear regression model has a high confidence in the p-value (low value) and the coefficient is less than 0.1. Urbanized Area Targets #3 - Percent of Non-Single Occupancy Vehicle (Non-SOV) Travel T19 Urbanized Area: New Haven, CT T20 Relationship to Other Performance Expectations: Discuss how the Congestion reduction is a 2-year and 4-year targets established for the 2022-2025 component of the long-range transportation plan for both state Performance Period for Percent of Non-SOV Travel in this UZA [23 DOTs and the relevant MPOs in CFR 490.105(c)(7)], which indicates the anticipated near-term this urbanized area. These are direction or trend, support the achievement of both the long-term national congestion reduction performance goal to achieve a statewide or region-wide plans significant reduction in congestion on the NHS identified in 23 and there are ongoing programs U.S.C. §150(b), and goal of improving project and investment aligned with these plans that have decision making through performance-based planning and an impact on performance. programming [23 U.S.C. 150(a)] However, there are also substantial changes, particularly Include how the established targets for Percent of Non-SOV in remote work patterns, that may Travel in this UZA for the Performance Period support expectations remain as a feature of our journey documented in longer range plans, such as the long-range to work in the future well beyond statewide transportation plan. [23 CFR 490.107(b)(1)(ii)(C)] the recent pandemic, for example. T21 Please report the agencies that established the unified Non-SOV A single, joint, unified set of 2target for this urbanized area. Use a semicolon to separate multiple and 4-year targets has been agencies. (Optional) selected by the target setting process on the non-SOV measure for this urbanized area. The data All State DOTs and MPOs that contain, within their respective boundaries, any portion of the NHS network in this urbanized area analytics was led by Connecticut shall agree on and report the same unified targets for this measure. Department of Transportation [23 CFR 490.105(e)(8)(iii)(B) and 23 CFR 490.105(f)(5)(iii)(B)] (CTDOT) Performance Management Unit. The list of agencies deciding to set this single set of targets are Connecticut Department of Transportation (CTDOT); South Central Regional COG (SCCOG); Lower Connecticut River Valley MPO; and Naugatuck Valley Council of Governments (NVCOG). T22 Method: Please provide the data collection method for the Percent Method A - American Community of Non-SOV Travel measure. [23 CFR 490.107(b)(1)(ii)(I)] Survey T22a Please provide a brief description of the method for the Percent of Non- SOV Travel measure if either Method B or Method C were used. [23 CFR 490.709 (f)(2)] T23 Baseline: Percent of Non-SOV Travel. [23 CFR 490.107(b)(1)(ii)(B) 25.1 and 23 CFR 490.107(c)(3)(ii)(C)] The data submitted must cover the performance derived from the latest data collected through the beginning date of the performance period specified in 23 CFR 490.105(e)(4)(i). [23 CFR

	490.107(b)(1)(ii)]	
	The data must be reported to the nearest tenth of a percent. [23 CFR 490.101 (Target definition) and 23 CFR 490.713(d)] Enter 86.5% as 86.5.	
	If you select Method A in T6, the baseline data will be Prepopulated based on American Community Survey (ACS) data. If you select Method B or Method C in T6, please provide the baseline performance calculated by the State DOT here.	
T24	2-year Target: Provide the 2-year target for the Percent of Non-SOV Travel established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should reflect expected performance by the end of 2023.	23.5
	Target must be reported to the nearest tenth of a percent. [23 CFR 490.101 (Target definition) and 23 CFR 490.713(d)] Enter 86.5% as 86.5.	
T25	4-yr Target: Provide the 4-year target for the Percent of Non-SOV Travel established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should reflect expected performance by the end of 2025.	23.5
	Target must be reported to the nearest tenth of a percent. [23 CFR 490.101 (Target definition) and 23 CFR 490.713(d)] Enter 86.5% as 86.5.	
T26	Basis for Targets: Provide a discussion of the basis for the 2-year and 4-year targets established for the 2022-2025 Performance Period for the Percent of Non-SOV Travel in this UZA. [23 CFR 490.107(b)(1)(ii)(A)] This includes an explanation of the data, method(s), and/or process(s) used to identify the targets. Include the source of the urbanized dataset used to establish the targets. [23 CFR 490.107(b)(1)(ii)(D)]	The targets for Percentage of Non-Single Occupancy Vehicle travel for the New Haven Urbanized Area are established by utilizing the American Community Survey (ACS) fiveyear estimates on means of transportation to work. A linear regression model was created to project trends for the two and four-year targets, utilizing ACS data from 2015 to 2019. Non-SOV data from 2020 was excluded due to the Pandemic, as the percent was an anomaly. In addition, CTDOT analyzed trends in vehicle registrations and gas price fluctuations to identify correlations in percent of people traveling to work alone. CTDOT is taking a conservative approach, through selecting a number on the low range of the observed trends prior to the Pandemic in the ACS data and use a flat (zero) slope for the two and four-year targets. Based on the commuting trends, people will be utilizing their vehicles as VMT and PHED will be increasing.
Urbaniz	ed Area Targets #4 - Percent of Non-Single Occupancy Vehicle (N	Ion-SOV) Travel
T27	Urbanized Area:	NorwichNew London, CTRI
T28	Relationship to Other Performance Expectations: Discuss how the 2-year and 4-year targets established for the 2022-2025 Performance Period for Percent of Non-SOV Travel in this UZA [23]	Commuting travel patterns are reflected as a component of the congestion aspects of the long-

	CFR 490.105(c)(7)], which indicates the anticipated near-term direction or trend, support the achievement of both the long-term national congestion reduction performance goal to achieve a significant reduction in congestion on the NHS identified in 23 U.S.C. §150(b), and goal of improving project and investment decision making through performance-based planning and programming [23 U.S.C. 150(a)]  Include how the established targets for Percent of Non-SOV Travel in this UZA for the Performance Period support expectations documented in longer range plans, such as the long-range statewide transportation plan. [23 CFR 490.107(b)(1)(ii)(C)]	range transportation plan for both state DOTs and the relevant MPOs in this urbanized area. These are statewide or region-wide plans and there are ongoing programs aligned with these plans that have an impact on performance. However, there is no specific major, transformative initiative planned for the performance period, although there was a bus fare holiday for part of 2022 that may have a temporary impact on commutes with reliable and accessible bus service. Statewide programs are not specifically targeted to this urbanized area beyond these programs developed to meet the goals of the transportation plans. These targets reflect this through a continuation of existing statewide programs to relieve and address congestion, including
T29	Please report the agencies that established the unified Non-SOV target for this urbanized area. Use a semicolon to separate multiple agencies. (Optional)  All State DOTs and MPOs that contain, within their respective boundaries, any portion of the NHS network in this urbanized area shall agree on and report the same unified targets for this measure. [23 CFR 490.105(e)(8)(iii)(B) and 23 CFR 490.105(f)(5)(iii)(B)]  Method: Please provide the data collection method for the Percent	commute to work.  The following agencies were consulted as part of the target setting process on the Non-SOV Percentage measure, led by Connecticut Department of Transportation (CTDOT) Performance Management Unit; Rhode Island Department of Transportation (RIDOT); Southeastern Connecticut Council of Governments (SCCOG); and the Rhode Island Metropolitan Planning Organization (RIMPO).  Method A - American Community
T30a	of Non-SOV Travel measure. [23 CFR 490.107(b)(1)(ii)(l)]  Please provide a brief description of the method for the Percent of Non- SOV Travel measure if either Method B or Method C were used. [23 CFR 490.709 (f)(2)]	Survey
T31	Baseline: Percent of Non-SOV Travel. [23 CFR 490.107(b)(1)(ii)(B) and 23 CFR 490.107(c)(3)(ii)(C)]  The data submitted must cover the performance derived from the latest data collected through the beginning date of the performance period specified in 23 CFR 490.105(e)(4)(i). [23 CFR 490.107(b)(1)(ii)]  The data must be reported to the nearest tenth of a percent. [23 CFR 490.101 (Target definition) and 23 CFR 490.713(d)] Enter 86.5% as 86.5.  If you select Method A in T6, the baseline data will be Prepopulated based on American Community Survey (ACS) data. If you select Method B or Method C in T6, please provide the baseline performance calculated by the State DOT here.	22.3

T32	2-year Target: Provide the 2-year target for the Percent of Non-SOV Travel established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should reflect expected performance by the end of 2023.  Target must be reported to the nearest tenth of a percent. [23 CFR 490.101 (Target definition) and 23 CFR 490.713(d)] Enter 86.5% as 86.5.	19.4
Т33	<ul> <li>4-yr Target: Provide the 4-year target for the Percent of Non-SOV Travel established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should reflect expected performance by the end of 2025.</li> <li>Target must be reported to the nearest tenth of a percent. [23 CFR 490.101 (Target definition) and 23 CFR 490.713(d)] Enter 86.5% as 86.5.</li> </ul>	18.5
T34	Basis for Targets: Provide a discussion of the basis for the 2-year and 4-year targets established for the 2022-2025 Performance Period for the Percent of Non-SOV Travel in this UZA. [23 CFR 490.107(b)(1)(ii)(A)] This includes an explanation of the data, method(s), and/or process(s) used to identify the targets. Include the source of the urbanized dataset used to establish the targets. [23 CFR 490.107(b)(1)(ii)(D)]	The 2-year and 4-year targets for non-SOV percentage were established based on a) a review of the level of project activity expected during the performance period relative to current and recent levels, b) an evaluation of recent disruptions to normal travel patterns, including the COVID-19 pandemic, and whether they will produce permanent effects on performance; and c) other factors influencing performance. Based on a generally stable project activity level and the conclusion that travel disruptions due to the pandemic were close to returning to pre-pandemic levels in 2022, the targets have been based on removing 2020 and 2021 data when projecting trends, applying linear regression to understand the trends, considering the coefficient of determination of the resulting coefficients, and considering other covariates in setting targets for this urbanized area. These factors included changes in travel patterns (telework in particular), data such as vehicle registration, and the relationship between fuel prices and travel demand. Finally, the target adoption taken was conservative (there is a desire to achieve the target with a high degree of reliability, and there is not a major congestion-relief initiative in this urbanized area, particularly given that the absolute levels of peak-hour excessive delay are low) given the planned levels of transportation investment targeted at congestion mitigation in general and commutes to work in particular.

#### Urbanized Area Targets #5 - Percent of Non-Single Occupancy Vehicle (Non-SOV) Travel T35 Urbanized Area: Springfield, MA--CT T36 Relationship to Other Performance Expectations: Discuss how the Taking account MassDOT's long-2-year and 4-year targets established for the 2022-2025 term goal is to reduce congestion Performance Period for Percent of Non-SOV Travel in this UZA [23] and encourage non-SOV travel on CFR 490.105(c)(7)], which indicates the anticipated near-term all roadways, CTDOT direction or trend, support the achievement of both the long-term collaborated with MassDOT to national congestion reduction performance goal to achieve a ensure the targets are relevant to significant reduction in congestion on the NHS identified in 23 the long-term goal. As part of U.S.C. §150(b), and goal of improving project and investment MassDOT's ongoing development decision making through performance-based planning and of its 2050 Statewide Long Range programming [23 U.S.C. 150(a)] Transportation Plan (SLRTP), traffic congestion and mode shift Include how the established targets for Percent of Non-SOV are continuing to emerge as an Travel in this UZA for the Performance Period support expectations important themes during public documented in longer range plans, such as the long-range outreach and other analyses. As statewide transportation plan. [23 CFR 490.107(b)(1)(ii)(C)] such, congestion reduction and options to encourage travelers to use modes besides SOVs will be articulated as two of MassDOT's priority areas through the SLRTP and progress toward these goal areas will be continually tracked. As part of SLRTP development and the federal Transportation Performance Management (TPM) process. MassDOT will identify the locations that are most in need of improvements in these areas. Following on those analyses, the SLRTP, the State Transportation Improvement Program (STIP), and Transportation Improvement Programs (TIPs) will articulate strategies for program and project development that addresses these locations with the larger goal of reducing congestion and encouraging the use of non-SOV travel. Additionally, the SLRTP will account for trends in the areas of telework, climate change. migration impacts, and technology, all of which will likely have an impact on congestion and non-SOV travel. Specifically, trends indicate increasing telework relative to pre-pandemic levels and congestion being spread out across the day rather than concentrated during peak periods. Given these trends, in conjunction with MassDOT's ongoing efforts to reduce

congestion and encourage non-SOV travel through its various federal and state programs, it is anticipated that peak hour

		excessive delay will be reduced relative to pre-pandemic levels and between the two-year and four-year performance periods in the Springfield urbanized area (UZA).  Specifically, MassDOT's Intersection Improvements, Roadway Reconstruction, and Bicycle and Pedestrian Programs in the STIP contain several investments over the performance period in the Springfield UZA that are intended to reduce congestion and encourage non-SOV travel. Additional programs such as MassDOT's Local Bottleneck Reductions Program also support
Т37	Please report the agencies that established the unified Non-SOV target for this urbanized area. Use a semicolon to separate multiple agencies. (Optional)  All State DOTs and MPOs that contain, within their respective boundaries, any portion of the NHS network in this urbanized area shall agree on and report the same unified targets for this measure. [23 CFR 490.105(e)(8)(iii)(B) and 23 CFR 490.105(f)(5)(iii)(B)]	reducing congestion.  A joint, unified set of 2- and 4-year targets was set by all agencies listed below. The following agencies were consulted as part of the target setting process on the Non- SOV Percentage measure, led by MassDOT's Office of Transportation Planning (OTP); the Connecticut Department of Transportation; Capitol Region Council of Governments; and the Pioneer Valley Planning Commission.
T38	Method: Please provide the data collection method for the Percent of Non-SOV Travel measure. [23 CFR 490.107(b)(1)(ii)(I)]	Method A - American Community Survey
T38a	Please provide a brief description of the method for the Percent of Non- SOV Travel measure if either Method B or Method C were used. [23 CFR 490.709 (f)(2)]	
Т39	Baseline: Percent of Non-SOV Travel. [23 CFR 490.107(b)(1)(ii)(B) and 23 CFR 490.107(c)(3)(ii)(C)]  The data submitted must cover the performance derived from the latest data collected through the beginning date of the performance period specified in 23 CFR 490.105(e)(4)(i). [23 CFR 490.107(b)(1)(ii)]  The data must be reported to the nearest tenth of a percent. [23 CFR 490.101 (Target definition) and 23 CFR 490.713(d)] Enter 86.5% as 86.5.  If you select Method A in T6, the baseline data will be Prepopulated based on American Community Survey (ACS) data. If you select Method B or Method C in T6, please provide the baseline performance calculated by the State DOT here.	21.5
T40	2-year Target: Provide the 2-year target for the Percent of Non-SOV Travel established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should reflect expected performance by the end of 2023.	22.2

	Target must be reported to the nearest tenth of a percent. [23 CFR 490.101 (Target definition) and 23 CFR 490.713(d)] Enter 86.5% as 86.5.	
T41	4-yr Target: Provide the 4-year target for the Percent of Non-SOV Travel established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should reflect expected performance by the end of 2025.  Target must be reported to the nearest tenth of a percent. [23 CFR 490.101 (Target definition) and 23 CFR 490.713(d)] Enter 86.5% as 86.5.	22.2
T42	Basis for Targets: Provide a discussion of the basis for the 2-year and 4-year targets established for the 2022-2025 Performance Period for the Percent of Non-SOV Travel in this UZA. [23 CFR 490.107(b)(1)(ii)(A)] This includes an explanation of the data, method(s), and/or process(s) used to identify the targets. Include the source of the urbanized dataset used to establish the targets. [23 CFR 490.107(b)(1)(ii)(D)]	The targets for Percentage of Non-Single Occupancy Vehicle Travel for the Springfield Urbanized Area are established using ACS 5-year estimates on means of transportation to work. A rate of change is calculated using two non-overlapping 5-year ACS estimate, specifically 2010-2014 and 2015-2019. This is then used to create a trend line by projecting the 2016-2020 estimate. This trend line establishes the targets for 2024 and 2026. Since telework rates are expected to increase in the future, and due to MassDOT's ongoing efforts to encourage non-SOV travel and reduce congestion, the trend line is projected off from 2016-2020 estimate, a data point with a higher percentage of non-SOV travel due to the pandemic. CTDOT collaborated with MassDOT to ensure unified goals and target of the urbanized area.
Hrhania	│ ed Area Targets #6 -Percent of Non-Single Occupancy Vehicle (N	
T43	Urbanized Area:	Worcester, MACT
T44	Relationship to Other Performance Expectations: Discuss how the 2-year and 4-year targets established for the 2022-2025 Performance Period for Percent of Non-SOV Travel in this UZA [23 CFR 490.105(c)(7)], which indicates the anticipated near-term direction or trend, support the achievement of both the long-term national congestion reduction performance goal to achieve a significant reduction in congestion on the NHS identified in 23 U.S.C. §150(b), and goal of improving project and investment decision making through performance-based planning and programming [23 U.S.C. 150(a)]  Include how the established targets for Percent of Non-SOV Travel in this UZA for the Performance Period support expectations documented in longer range plans, such as the long-range statewide transportation plan. [23 CFR 490.107(b)(1)(ii)(C)]	Taking account MassDOT's long-term goal is to reduce congestion and encourage non-SOV travel on all roadways, CTDOT collaborated with MassDOT to ensure the targets are relevant to the long-term goal. As part of MassDOT's ongoing development of its 2050 Statewide Long Range Transportation Plan (SLRTP), traffic congestion and mode shift are continuing to emerge as an important themes during public outreach and other analyses. As such, congestion reduction and

articulated as two of MassDOT's

priority areas through the SLRTP and progress toward these goal areas will be continually tracked. As part of SLRTP development

and the federal Transportation Performance Management (TPM) process, MassDOT will identify the locations that are most in need of improvements in these areas. Following on those analyses, the SLRTP, the State Transportation Improvement Program (STIP), and Transportation Improvement Programs (TIPs) will articulate strategies for program and project development that addresses these locations with the larger goal of reducing congestion and encouraging the use of non-SOV travel.

Additionally, the SLRTP will account for trends in the areas of telework, climate change. migration impacts, and technology, all of which will likely have an impact on congestion and non-SOV travel. Specifically, trends indicate increasing telework relative to pre-pandemic levels and congestion being spread out across the day rather than concentrated during peak periods. Given these trends, in conjunction with MassDOT's ongoing efforts to reduce congestion and encourage non-SOV travel through its various federal and state programs, it is anticipated that peak hour excessive delay will be reduced relative to pre-pandemic levels and between the two-year and four-year performance periods in the Worcester urbanized area (UZA).

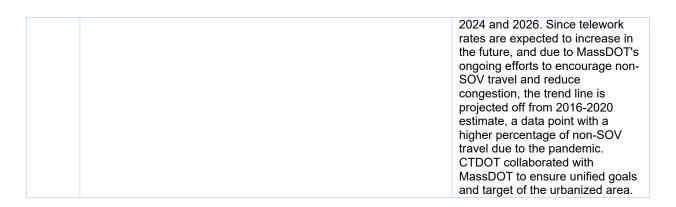
Specifically, MassDOT's Intersection Improvements, Roadway Reconstruction, and Bicycle and Pedestrian Programs in the STIP contain several investments over the performance period in the Worcester UZA that are intended to reduce congestion and encourage non-SOV travel. Additional programs such as MassDOT's Local Bottleneck Reductions Program also support reducing congestion.

T45

Please report the agencies that established the unified Non-SOV target for this urbanized area. Use a semicolon to separate multiple agencies. (Optional)

A joint, unified set of 2- and 4year targets was adopted by all agencies listed below. The following agencies were consulted

	All State DOTs and MPOs that contain, within their respective boundaries, any portion of the NHS network in this urbanized area shall agree on and report the same unified targets for this measure. [23 CFR 490.105(e)(8)(iii)(B) and 23 CFR 490.105(f)(5)(iii)(B)]	as part of the target setting process on the Non- SOV Percentage measure, led by MassDOT's Office of Transportation Planning (OTP); the Connecticut Department of Transportation; Northeastern Connecticut Council of Governments; the Central Massachusetts MPO; the Montachusett MPO; and the Boston Region MPO.
T46	Method: Please provide the data collection method for the Percent of Non-SOV Travel measure. [23 CFR 490.107(b)(1)(ii)(l)]	Method A - American Community Survey
T46a	Please provide a brief description of the method for the Percent of Non- SOV Travel measure if either Method B or Method C were used. [23 CFR 490.709 (f)(2)]	•
T47	Baseline: Percent of Non-SOV Travel. [23 CFR 490.107(b)(1)(ii)(B) and 23 CFR 490.107(c)(3)(ii)(C)]  The data submitted must cover the performance derived from the latest data collected through the beginning date of the performance period specified in 23 CFR 490.105(e)(4)(i). [23 CFR 490.107(b)(1)(ii)]  The data must be reported to the nearest tenth of a percent. [23 CFR 490.101 (Target definition) and 23 CFR 490.713(d)] Enter 86.5% as 86.5.  If you select Method A in T6, the baseline data will be Prepopulated based on American Community Survey (ACS) data. If you select Method B or Method C in T6, please provide the baseline performance calculated by the State DOT here.	23.4
T48	2-year Target: Provide the 2-year target for the Percent of Non-SOV Travel established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should reflect expected performance by the end of 2023.  Target must be reported to the nearest tenth of a percent. [23 CFR 490.101 (Target definition) and 23 CFR 490.713(d)] Enter 86.5% as 86.5.	25.4
T49	4-yr Target: Provide the 4-year target for the Percent of Non-SOV Travel established for the 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] Target should reflect expected performance by the end of 2025.  Target must be reported to the nearest tenth of a percent. [23 CFR 490.101 (Target definition) and 23 CFR 490.713(d)] Enter 86.5% as 86.5.	26.1
T50	Basis for Targets: Provide a discussion of the basis for the 2-year and 4-year targets established for the 2022-2025 Performance Period for the Percent of Non-SOV Travel in this UZA. [23 CFR 490.107(b)(1)(ii)(A)] This includes an explanation of the data, method(s), and/or process(s) used to identify the targets. Include the source of the urbanized dataset used to establish the targets. [23 CFR 490.107(b)(1)(ii)(D)]	The targets for Percentage of Non-Single Occupancy Vehicle Travel for the Worcester Urbanized Area are established using ACS 5-year estimates on means of transportation to work. A rate of change is calculated using two non-overlapping 5-year ACS estimate, 2010-2014 and 2015-2019. This is then used to create a trend line by projecting the 2016-2020 estimate. This trend line establishes the targets for



# **Emissions**

Emissio	ons Reduction Performance Overview	
E1	General Comments: Please use this space to provide any general comments that may assist FHWA in its review of this part of the submission. You can use this space to provide greater context for your targets and baseline performance, provide additional background detail or clarification, note any assumptions, or discuss complications. (Optional)	The Congestion Mitigation and Air Quality (CMAQ) program is the basis for both the baseline performance and the projected trends. At CTDOT, the CMAQ program has shifted to a largely qualitative-benefits set of actions, following the findings of an FHWA program review on a cost-effectivess approach to air quality improvement actions. This led, beginning in 2016 and 2017 and continuing through this performance period, to a different set of projects than those traditionally selected. The composition of the program is not expected to be altered significantly. In addition, major improvements achieved through large programs spanning multiple years (in particular the Hartford Line new commuter rail service), are only accrued in the year of obligation of funds.
E2	Relationship to Other Performance Expectations: Discuss how the 2-year and 4-year targets established for the FY 2022-2025 Performance Period for statewide Total Emissions Reduction [23 CFR 490.105(c)(8)] (as measured by the individual pollutants and precursors), which indicates the anticipated nearterm direction or trend, support the achievement of both the long-term national congestion reduction performance goal to achieve a significant reduction in congestion on the NHS identified in 23 U.S.C. §150(b), and goal of improving project and investment decision making through performance-based planning and programming [23 U.S.C. 150(a)]  Include how the established targets for Total Emissions Reduction [23 CFR 490.105(c)(8)] (as measured by the individual pollutants and precursors) for the Performance Period support expectations documented in longer range plans, such as the long-range statewide transportation plan. [23 CFR 490.107(b)(1)(ii)(C)]	The CMAQ program funds many projects that, although cost-effective and aligned with a program review of best practices and maximum benefit, are only able to reflect qualitative benefits. This CMAQ program composition has been in place since 2017 and informs projections and targets. The composition of the program is not expected to be altered significantly. The targets were set based on projects expected to reflect the submittals to the Public Access Database and are subject to these projects actually being completed with no changes to program funding source, which is the major factor influencing performance in this area.
E3	Does the State include any areas designated as nonattainment or maintenance for PM2.5?	Yes
E4	If the State includes any areas designated as nonattainment or maintenance for PM2.5, are NOx and/or VOC a significant contributor to PM2.5 emissions anywhere in the State?	Yes - NOx and VOC
E5	Does the State include any areas designated as nonattainment or maintenance for PM10?	Yes
E6	If the State includes any areas designated as nonattainment or maintenance for PM10, are NOx and/or VOC a significant contributor to PM10 emissions anywhere in the State?	No significant contributors

Does the State include any areas designated as nonattainment or maintenance for CO?	No
Does the State include any areas designated as nonattainment or maintenance for ozone?	Yes
Baseline: Provide the baseline cumulative estimated emissions reductions (daily kilograms) of PM2.5. [23 CFR 490.107(b)(1)(ii)(B) and 23 CFR 490.107(c)(3)(ii)(D)]	0.000
cumulative estimated emissions reductions (daily kilograms) for the previous 4 federal fiscal years before the start of the performance period.	
The data must be reported to the nearest one thousandths. [23 CFR 490.101 (Target definition) and 23 CFR 490.811(b)] For example, enter 86.512.	
Emissions Reduction (daily kilograms) of PM2.5 establish for the FY 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A) and 23 CFR 490.107(c)(3)(ii)(B)] Target should reflect expected performance by the end of Federal fiscal year 2023.	6.290
CFR490.101 (Target definition) and 23 CFR 490.811(b)] For example, enter 86.512.	
4-year Target: Provide the 4-year target for statewide Total Emissions Reduction (daily kilograms) of PM2.5 established for the FY 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] and [23 CFR 490.107(c)(3)(ii)(B)] Target should reflect expected performance by the end of Federal fiscal year 2025.	6.290
The target must be reported to the nearest one thousandths. [23 CFR490.101 (Target definition) and 23 CFR 490.811(b)] For example, enter 86.512.	
Basis for Targets: Provide a discussion of the basis for the 2-year and 4-year targets established for the FY 2022-2025 Performance Period for the statewide Total Emissions Reduction (daily kilograms) of PM2.5. [23 CFR 490.107(b)(1)(ii)(A)] This includes an explanation of the data, method(s), and/or process(s) used to identify the targets.	The 2- and 4- year targets are based on the emissions reductions calculated for projects that include quantitative benefits, are submitted to the Public Access Database, and fall within the performance period in question.
Baseline: Provide the baseline cumulative estimated emissions reductions (daily kilograms) of NOx. [23 CFR 490.107(b)(1)(ii)(B) and 23 CFR 490.107(c)(3)(ii)(D)]	0.000
cumulative statewide estimated emissions reductions (daily kilograms) for the previous 4 federal fiscal years before the start of the performance period.	
CFR490.101 (Target definition) and 23 CFR 490.811(b)] For example, enter 86.512.	
2-year Target: Provide the 2-year target for statewide Total Emissions Reduction (daily kilograms) of NOx established for the FY 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A) and 23 CFR 490.107(c)(3)(ii)(B)] Target	81.978
	or maintenance for CO?  Does the State include any areas designated as nonattainment or maintenance for ozone?  Ide Total Emission Reductions PM2.5 Target #1  Baseline: Provide the baseline cumulative estimated emissions reductions (daily kilograms) of PM2.5 [23 CFR 490.107(b)(1)(iii)(B) and 23 CFR 490.107(c)(3)(ii)(D)]  The baseline data for the performance period must include the cumulative estimated emissions reductions (daily kilograms) for the previous 4 federal fiscal years before the start of the performance period.  The data must be reported to the nearest one thousandths. [23 CFR 490.101 (Target definition) and 23 CFR 490.811(b)] For example, enter 86.512.  2-year Target: Provide the 2-year target for statewide Total Emissions Reduction (daily kilograms) of PM2.5 establish for the FY 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(iii)(A) and 23 CFR 490.107(c)(3)(ii)(B)] Target should reflect expected performance by the end of Federal fiscal year 2023.  The target must be reported to the nearest one thousandths. [23 CFR490.101 (Target definition) and 23 CFR 490.811(b)] For example, enter 86.512.  4-year Target: Provide the 4-year target for statewide Total Emissions Reduction (daily kilograms) of PM2.5 established for the FY 2022-2025 Performance Period. [23 CFR 490.811(b)] For example, enter 86.512.  The target must be reported to the nearest one thousandths. [23 CFR490.107(b)(1)(iii)(A)] and [23 CFR 490.107(c)(3)(ii)(B)] Target should reflect expected performance by the end of Federal fiscal year 2025.  The target must be reported to the nearest one thousandths. [23 CFR490.101 (Target definition) and 23 CFR 490.811(b)] For example, enter 86.512.  Basis for Targets: Provide a discussion of the basis for the 2-year and 4-year targets established for the FY 2022-2025 Performance Period for the statewide Total Emissions Reductions (daily kilograms) of PM2.5. [23 CFR 490.107(b)(1)(iii)(B) and 23 CFR 490.107(c)(3)(iii)(D)]  The baseline data for the performance period must include the cumulative statew

	should reflect expected performance by the end of Federal fiscal year 2023.	
	The target must be reported to the nearest one thousandths. [23 CFR490.101 (Target definition) and 23 CFR 490.811(b)] For example, enter 86.512.	
E18	4-year Target: Provide the 4-year target for statewide Total Emissions Reduction (daily kilograms) of NOx established for the FY 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A) and 23 CFR 490.107(c)(3)(ii)(B)] Target should reflect expected performance by the end of Federal fiscal year 2025.  The target must be reported to the nearest one thousandths. [23 CFR490.101 (Target definition) and 23 CFR 490.811(b)] For	81.978
	example, enter 86.512.	
E19	Basis for Targets: Provide a discussion of the basis for the 2-year and 4-year targets established for the FY 2022-2025 Performance Period for the statewide Total Emissions Reduction (daily kilograms) of NOx. [23 CFR 490.107(b)(1)(ii)(A)] This includes an explanation of the data, method(s), and/or process(s) used to identify the targets.	The 2- and 4- year targets are based on the emissions reductions calculated for projects that include quantitative benefits, are submitted to the Public Access Database, and fall within the performance period in question.
Statewi	de Total Emission Reductions VOC Target #3	
E20	Baseline: Provide the baseline cumulative estimated emissions reductions (daily kilograms) of VOC. [23 CFR 490.107(b)(1)(ii)(B) and 23 CFR 490.107(c)(3)(ii)(D)]  The baseline data for the performance period must include the cumulative statewide estimated emissions reductions (daily kilograms) for the previous 4 federal fiscal years before the start of the performance period.  The data must be reported to the nearest one thousandths. [23 CFR490.101 (Target definition) and 23 CFR 490.811(b)] For example, enter 86.512.	0.000
E21	2-year Target: Provide the 2-year target for statewide Total Emissions Reduction (daily kilograms) of VOC established for the FY 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] and [23 CFR 490.107(c)(3)(ii)(B)]  Target should reflect expected performance by the end of Federal fiscal year 2023.  The target must be reported to the nearest one thousandths. [23 CFR 490.101 (Target definition) and 23 CFR 490.811(b)] For example, enter 86.512.	87.346
E22	4-year Target: Provide the 4-year target for statewide Total Emissions Reduction (daily kilograms) of VOC established for the FY 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A)] and [23 CFR 490.107(c)(3)(ii)(B)]  Target should reflect expected performance by the end of Federal fiscal year 2025.  The target must be reported to the nearest one thousandths. [23 CFR 490.101 (Target definition) and 23 CFR 490.811(b)] For example, enter 86.512.	87.346
E23	Basis for Targets: Provide a discussion of the basis for the 2-	The 2- and 4- year targets are
	year and 4-year targets established for the FY 2022-2025	based on the emissions

	Performance Period for the statewide Total Emissions Reduction (daily kilograms) of VOC. [23 CFR 490.107(b)(1)(ii)(A)] This includes an explanation of the data, method(s), and/or process(s) used to identify the targets.	reductions calculated for projects that include quantitative benefits, are submitted to the Public Access Database, and fall within the performance period in question.
Statewi	de Total Emission Reductions PM10 Target #4	
E24	Baseline: Provide the baseline cumulative estimated emissions reductions (daily kilograms) of PM10. [23 CFR 490.107(b)(1)(ii)(B) and 23 CFR 490.107(c)(3)(ii)(D)]  The baseline data for the performance period must include the	0.000
	cumulative statewide estimated emissions reductions (daily kilograms) for the previous 4 federal fiscal years before the start of the performance period.	
	The data must be reported to the nearest one thousandths. [23 CFR490.101 (Target definition) and 23 CFR 490.811(b)] For example, enter 86.512.	
E25	2-year Target: Provide the 2-year target for statewide Total Emissions Reduction (daily kilograms) of PM10 established for the FY 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A) and 23 CFR 490.107(c)(3)(ii)(B)] Target should reflect expected performance by the end of Federal fiscal year 2023.	0.000
	The target must be reported to the nearest one thousandths. [23 CFR490.101 (Target definition) and 23 CFR 490.811(b)] For example, enter 86.512.	
E26	4-year Target: Provide the 4-year target for statewide Total Emissions Reduction (daily kilograms) of PM10 established for the FY 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A) and 23 CFR 490.107(c)(3)(ii)(B)] Target should reflect expected performance by the end of Federal fiscal year 2025.	0.000
	The target must be reported to the nearest one thousandths. [23 CFR490.101 (Target definition) and 23 CFR 490.811(b)] For example, enter 86.512.	
E27	Basis for Targets: Provide a discussion of the basis for the 2-year and 4-year targets established for the FY 2022-2025 Performance Period for the statewide Total Emissions Reduction (daily kilograms) of PM10. [23 CFR 490.107(b)(1)(ii)(A)] This includes an explanation of the data, method(s), and/or process(s) used to identify the targets.	The Connecticut DOT (CTDOT) did not set targets for this pollutant, and that is why these values are 0.000. The CTDOT has not collected data or analyzed emissions for this pollutant for a number of years. The CTDOT has previously informed the FHWA CT Division Office of this position.
Statewi	de Total Emission Reductions CO Target #5	
E28	Baseline: Provide the baseline cumulative estimated emissions reductions (daily kilograms) of CO. [23 CFR 490.107(b)(1)(ii)(B) and 23 CFR 490.107(c)(3)(ii)(D)]	
	The baseline data for the performance period must include the cumulative statewide estimated emissions reductions (daily kilograms) for the previous 4 federal fiscal years before the start of the performance period.	

	The data must be reported to the nearest one thousandths. [23 CFR490.101 (Target definition) and 23 CFR 490.811(b)] For example, enter 86.512.	
E29	2-year Target: Provide the 2-year target statewide Total Emissions Reduction (daily kilograms) of CO established for the FY 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A) and 23 CFR 490.107(c)(3)(ii)(B)] Target should reflect expected performance by the end of Federal fiscal year 2023.  The target must be reported to the nearest one thousandths. [23 CFR490.101 (Target definition) and 23 CFR 490.811(b)] For example, enter 86.512.	0.000
E30	4-year Target: Provide the 4-year target statewide Total Emissions Reduction (daily kilograms) of CO established for the FY 2022-2025 Performance Period. [23 CFR 490.107(b)(1)(ii)(A) and 23 CFR 490.107(c)(3)(ii)(B)] Target should reflect expected performance by the end of Federal fiscal year 2025.  The target must be reported to the nearest one thousandths. [23 CFR490.101 (Target definition) and 23 CFR 490.811(b)] For example, enter 86.512.	0.000
E31	Basis for Targets: Provide a discussion of the basis for the 2-year and 4-year targets established for the FY 2022-2025 Performance Period for the statewide Total Emissions Reduction (daily kilograms) of CO. [23 CFR 490.107(b)(1)(ii)(A)] This includes an explanation of the data, method(s), and/or process(s) used to identify the targets.	The Connecticut DOT (CTDOT) did not set targets for this pollutant, and that is why these values are 0.000. The CTDOT has not collected data or analyzed emissions for this pollutant for a number of years. The CTDOT has previously informed the FHWA CT Division Office of this position.
The line	above marks the end of the required reporting. Everything bel	ow this line is related to
egtiona E32	I targets.Optional Additional Emission Reductions Target #1 [2	3 CFR 490.105(e)(9)(IV)]
E32	General Comments: Please use this space to provide any general comments that may assist FHWA in its review of this part of the submission. You can use this space to provide greater context for your targets and baseline condition, provide additional background detail or clarification, note any assumptions, or discuss complications. (Optional)	
E33	What pollutant does this optional additional target apply?	
E34	Area(s) for Target: Please indicate what non-attainment and maintenance area or combination of areas that the State DOT is establishing this additional target. Please list the area name(s) as it appears in the EPA Green Book. [23 CFR 490.105(e)(9)(iv)] Separate multiple names using semicolons.	
E35	Baseline: Provide the baseline cumulative estimated emissions reductions (daily kilograms) of the pollutant for the selected non-attainment and maintenance area or combination of areas. [23 CFR 490.107(b)(1)(ii)(B)] and [23 CFR 490.107(c)(3)(ii)(D)]  The baseline data for the performance period must include the cumulative statewide estimated emissions reductions (daily kilograms) for the previous 4 federal fiscal years before the start of the performance period.	
	The data must be reported to the nearest one thousandths. [23 CFR490.101 (Target definition) and 23 CFR 490.811(b)] For example, enter 86.512.	
E36		

	for the FY 2022-2025 Performance Period for the selected non-attainment and maintenance area or combination of areas. [23 CFR 490.107(b)(1)(ii)(A) and 23 CFR 490.107(c)(3)(ii)(B)] Target should reflect expected performance by the end of Federal fiscal year 2023.  The target must be reported to the nearest one thousandths. [23 CFR490.101 (Target definition) and 23 CFR 490.811(b)] For example, anter 28 512	
E37	example, enter 86.512.  4-year Target: Provide the 4-year target for statewide Total Emissions Reduction (daily kilograms) of the applicable pollutant for the FY 2022-2025 Performance Period for the selected non-attainment and maintenance area or combination of areas. [23 CFR 490.107(b)(1)(ii)(A) and 23 CFR 490.107(c)(3)(ii)(B)] Target should reflect expected performance by the end of Federal fiscal year 2025.	
	The target must be reported to the nearest one thousandths. [23 CFR490.101 (Target definition) and 23 CFR 490.811(b)] For example, enter 86.512.	
E38	Basis for Targets: Provide a discussion of the basis for the 2-year and 4-year targets established for the FY 2022-2025 Performance Period of the pollutant for the selected non-attainment and maintenance area or combination of areas. [23 CFR 490.107(b)(1)(ii)(A)] This includes an explanation of the data, method(s), and/or process(s) used to identify the targets.	

# **Attachments**

S.No	Section	Attachment Name
1	Freight	2022_CT_Freight_CT Freight Plan Truck Bottleneck Analysis.pdf
2	Freight	2022_CT_Freight_CT Freight Plan Update_Draft Final Plan_toFHWA_11-3-22.pdf