# Air Quality Calls for Projects Recommendations

#### Surface Transportation Technical Committee February 26, 2021

#### Jason Brown Principal Air Quality Planner





### **Available Funding**

# **Funding Source:** Environmental Protection Agency (EPA) National Clean Diesel Funding Assistance Program

| Calls for Projects  | Project Types   | Available<br>Funding |
|---|---|----------------------|
| Clean Fleets North Texas<br>(CFNT) 2020 – <b>Bucket 1</b>                         | Replace Heavy-Duty Diesel Vehicles and Equipment  | \$659,820*           |
| North Texas Emissions<br>Reduction Project<br>(NTERP) 2020 – <b>Bucket 2</b>      | Replace High-Use Diesel<br>Vehicles/Equipment, Rail/Switch Yard<br>Idle Reduction Technologies                  | \$2,350,000          |
| North Texas Freight<br>Terminal Electrification<br>(NTFTE) 2020 – <b>Bucket 3</b> | Installation of Transport Refrigerated<br>Unit Electrified Parking Spaces,<br>Connection Kits, Power Monitoring | \$960,225            |

\* Available from a prior EPA award. Some funding was previously awarded through CFNT 2018 and CFNT 2019 Calls for Projects.

### **Project Eligibility**

|                        | Bucket 1  | Bucket 2  | Bucket 3  |  |
|------------------------|---|---|---|--|
| Eligible<br>Activities | Replace On-Road Diesel Trucks*16,001 GVWR and Up;Model Year 1996-2006;(Model Year 2007-2009 if Replacing with Electric)Replace Non-Road Diesel Equipment*Must Operate >500 Hours/Year;Eligible Model Years Vary   |   | Transport Refrigerated Unit<br>Electrified Parking Spaces (EPS),<br>Power Monitoring Equipment,<br>Electric Power Kit |  |
|                        |   | Rail and Switch Yards Idling<br>Control Technology Installation |   |  |
| Funding<br>Threshold   | <ul> <li>45% Cost if New is Electric;</li> <li>35% Cost if New is Powered by Engine Certified to CARB</li> <li>Optional Low-NO<sub>X</sub> Standards</li> <li>(Both Natural Gas and Propane Engines Currently Available);</li> <li>25% Cost for All Others</li> </ul> |   | 30% of unit cost  |  |
|                        |   |   |   |  |

\*All old vehicles/equipment must be scrapped; other model years eligible on case-by-case basis. California Air Resources Board (CARB); Gross Vehicle Weight Rating (GVWR) \*\*All equipment and installation must be completed by EPA SmartWay Verified Technology Vendor.

### **Eligibility and Selection**

|                  | Bucket 1   | Bucket 2                                   | Bucket 3   |  |  |  |  |
|------------------|--|--|--|--|--|--|--|
|                  | Operate in Required Geographic Area  |  |  |  |  |  |  |
| Eligibility      | Engaged Beyond G   | Funding for Fleets that are                |  |  |  |  |  |
|                  | Cost Per Ton NO <sub>X</sub> Emis<br>Purpose: Maximize   | ssions Reduced 75%<br>Emissions Reductions |  |  |  |  |  |
| Scoring Criteria | Subrecipient Oversight Criteria 25%<br>Purpose: Balance Project Benefits<br>with Administrative Burden |  | Location and Oversight Criteria<br>25%<br>Purpose: Balance Project<br>Benefits with Administrative<br>Burden 4 |  |  |  |  |

### **Bucket 1** - Summary of Applications

|  | Activities | Applicant | tivities Applicant | Applicant Activities Funds | Activities Funds | Funds     | Recommended |  |
|--|------------|-----------|--------------------|----------------------------|------------------|-----------|-------------|--|
| Applicant                                    | Requested  |           |                    | Requested                  | Activities       | Funds     |             |  |
| City of<br>Kennedale                         | 1          | Yes       | 1                  | \$165,000                  | 1                | \$165,000 |             |  |
| City of Dallas*                              | 6          | Yes       | 0                  | \$689,786                  | 0                | 0         |             |  |
| Funds Remaining after Recommended Subaward** |            |           |                    |                            |                  | \$494,820 |             |  |

Refer to Electronic Item 3.2 for more details.

\* City of Dallas May Submit a New Application in Next Round \*\* Next Round of Calls for Projects Currently Open for Remaining Balances

### **Bucket 2 and Bucket 3 - Summary of** Applications

#### Bucket 2

|                                  | Activities  | Applicant | Activities Funds Recomme |           | mended     |           |
|----------------------------------|-------------|-----------|--------------------------|-----------|------------|-----------|
| Applicant                        | Requested   |           |                          | Requested | Activities | Funds     |
| Alliance<br>Aviation<br>Services | 2           | Yes       | 2                        | \$108,770 | 2          | \$108,770 |
| Paccar Leasing                   | 1           | Yes       | 1                        | \$161,555 | 1          | \$161,555 |
| Funds Remaining                  | \$2,079,675 |           |                          |           |            |           |

#### **Bucket 3**

No Applications Received; EPA Funds Remaining \$960,225

Refer to Electronic Item 3.3 for more details.

\*Next Round of Calls for Projects Currently Open for Remaining Balances

### Schedule

| Milestone   | Estimated Timeframe |
|---|---------------------|
| STTC Action to Recommend Subaward and Rebate  | February 26, 2021   |
| RTC Approval of Recommended Subaward and Rebate   | March 11, 2021      |
| Executive Board Authorization   | March 25, 2021      |
| Next Interim Application Deadline<br>(Rolling 90-Day Deadline until All Funds Awarded<br>or Final Application Deadline Reached) | April 9, 2021       |
| Final Application Deadline  | October 8, 2021     |
| Project Implementation Deadline   | February 26, 2023*  |

\*Deadline has been extended per EPA no cost time extension.

### **Action Requested**

Action Requested: Recommend RTC Approval of Subaward and Rebate

#### **Bucket 1** - Clean Fleets North Texas 2020

\$165,000 to the City of Kennedale to Replace One Firetruck

Any Funds Released From Prior Awards to be Applied to Balance Available to Future Awards

#### **Bucket 2** - North Texas Emissions Reduction Project 2020

\$108,770 to Alliance Aviation Services to Replace Two Airport Support Equipment;

\$161,555 to Paccar Leasing to Replace One Class 6-7 Service Truck

#### **Amy Hodges**

Senior Air Quality Planner 817-704-2508 <u>AHodges@nctcog.org</u>

#### Lori Clark

Program Manager DFW Clean Cities Coordinator 817-695-9232 LClark@nctcog.org

#### Jason Brown

Principal Air Quality Planner 817-704-2514 JBrown@nctcog.org

Chris Klaus

Senior Program Manager 817-695-9286 <u>CKlaus@nctcog.org</u>

#### Website www.nctcog.org/aqfunding

COVID-19 Infrastructure Program #015: Transit Partnership

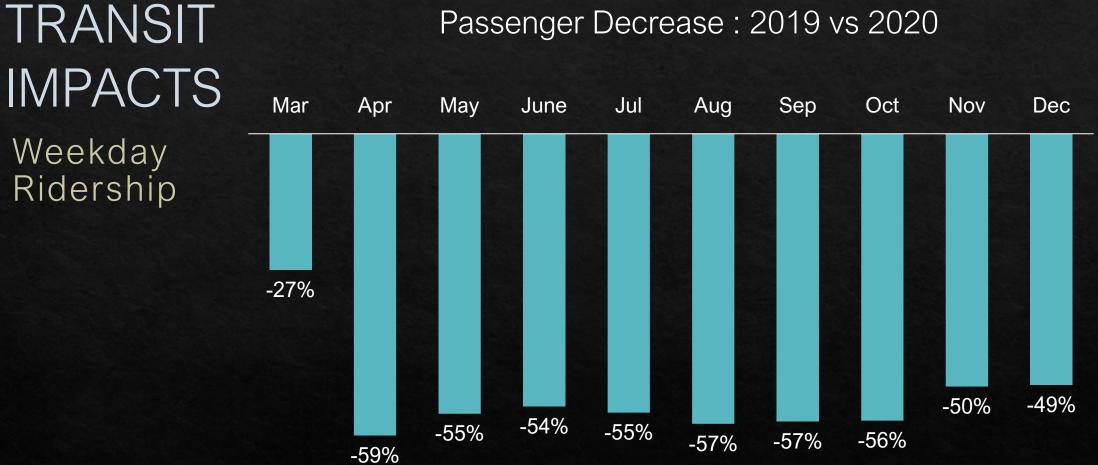
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Surface Transportation Technical Committee February 26, 2021

# BACKGROUND

- Due to the recent COVID-19 outbreak, transit ridership has declined significantly.
- In response, the Regional Transportation Council (RTC) approved \$25,000,000 in Surface Transportation Block Grant (STBG) funds for investments in transit in the COVID-19 Round 3 Infrastructure Program in November 2020.
- Since then, discussions have occurred regarding how the funding should be allocated at the project level.



#### Passenger Decrease : 2019 vs 2020

# ORIGINALLY IDENTIFIED PROJECT CATEGORIES

• Scope: Specific scopes to be determined, but will focus on these areas:

- Response to COVID-19 impacts
- Insurance for passenger rail integration onto freight lines
- Engineering funds for passenger rail/roadway interfaces
- Next generation high-intensity bus expansion
- Review of bus stop amenities
- Partnership(s) with Class 1 Railroads on passenger rail corridors
- RTC Policies/Federal Performance Measures Addressed: Transit, Air Quality, Freight

### REGIONAL TRANSIT EDUCATIONAL CAMPAIGN PROGRAM

- During the COVID-19 pandemic, transit ridership has remained approximately 50% of what it was for the same period in 2019.
- Bringing riders back to the system will require targeted outreach.
- A two-phased education campaign is proposed:
  - Phase 1 focus on growing consumer confidence
  - Phase 2 focus on increasing ridership
- Program involves seeking out partnerships in the business community and local news networks.
- \$1,000,000 STBG funds proposed for the program (to be matched with Regional Transportation Development Credits (TDC))
- In order to expedite funding, this program may be implemented by a funding exchange with the transit agencies.



# INSURANCE FOR PASSENGER RAIL INTEGRATION

- Transit authorities are required to have insurance for passenger operations on freight rail lines.
- Agencies in our region have previously had sufficient revenue for annual premiums, but revenue decreases have presented an issue.



- Additionally, premiums in the industry have increased dramatically.
- \$5,000,000 STBG funds are proposed to assist transit authorities in securing insurance until premiums level out.
- The funds would be matched with Regional TDCs.

### REGIONAL CLASS 1 RAILROAD DESIGN REVIEW

- In recent months, a need has been identified to facilitate the review of engineering plans for transportation projects crossing or utilizing Class 1 railroad lines.
- Proposed project/program involves:
  - Funding professional engineering agreements with Class 1 railroads (i.e., Union Pacific, BNSF Railway, and Fort Worth and Western Railroad)
  - Agreements to expedite the design review of regionally significant projects throughout the region
  - \$7,000,000 of STBG funds (to be matched with Regional TDCs)



# **REGIONAL BUS STOPS**

- Many bus stops leave transit riders waiting in the grass and dirt.
- Proposed project involves:
  - Funding concrete foundations and/or overhead shelters
  - \$1,000,000 STBG funds (to be matched with Regional TDCs) for bus stops in the Trinity Metro service area with specific locations to be identified by NCTCOG and Trinity Metro
- Stops in the DCTA and DART service areas to be identified for future improvement



# NEXT STEPS

- Seek RTC action on the project list
- Add projects to the Transportation Improvement Program (TIP) and Statewide TIP
- Identify potential projects for the remaining \$11,000,000 of funding
- Bring proposals back to STTC and RTC for consideration

# **REQUESTED ACTION**

- Recommend RTC approval of:
  - The proposed COVID-19 Infrastructure Program: Transit Partnership investments
  - Administratively amending the Transportation Improvement Program (TIP)/Statewide Transportation Improvement Program (STIP) and amending other planning/administrative documents to incorporate these projects.

### CONTACT/QUESTIONS?

Christie J. Gotti Senior Program Manager – Transportation Project Programming Ph: (817) 608-2338 cgotti@nctcog.org

Brian Dell Senior Transportation Planner Ph: (817) 704-5694 bdell@nctcog.org Cody Derrick Transportation Planner III Ph: (817) 608-2391 cderrick@nctcog.org

### STATUS REPORT RELATED TO PREVIOUS ACTION ON FEDERAL TRANSIT ADMINISTRATION FUNDING ALLOCATIONS IN RESPONSE TO COVID RELIEF 2.0 FUNDING AUTHORIZATION

### SURFACE TRANSPORTATION TECHNICAL COMMITTEE FEBRUARY 26, 2021

SHANNON STEVENSON, SENIOR PROGRAM MANAGER

TRANSIT MANAGEMENT & PLANNING

### CORONAVIRUS RESPONSE AND RELIEF SUPPLEMENTAL APPROPRIATIONS ACT OF 2021

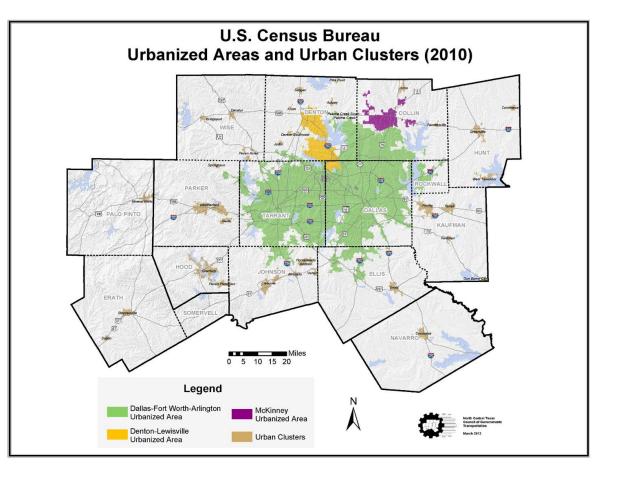
- The Coronavirus Response and Relief Supplemental Appropriations Act of 2021 (CRRSAA) was enacted on December 27, 2020; providing \$14 billion nationwide in additional emergency funds to help alleviate funding shortfalls for the nation's largest public transportation systems due to the COVID-19 public health emergency through the Urbanized Area Formula Program (Section 5307) with a small amount of funding for the Enhanced Mobility of Seniors and Individuals with Disabilities Program (Section 5310)
- Second round of COVID-19 relief funding provided to the transit industry following the <u>Coronavirus Aid, Relief and Economic</u> <u>Security (CARES) Act</u>, which was signed at the end of March 2020 and provided \$25 billion nationwide to the industry
- Primary objective is to ensure public transit agencies receive sufficient funding; under this bill, when combined with their CARES Act apportionments, to equal at least 75% of urbanized areas' public transit operating costs based on 2018 expenses
- The Dallas-Fort Worth-Arlington Urbanized Area is receiving Urbanized Area Formula Program funding (Section 5307) because only DART falls below the 75% threshold
- NCTCOG will not retain any funds for administrative purposes

### CORONAVIRUS RESPONSE AND RELIEF FUNDING FOR THE REGION

NCTCOG: Designated Recipient of FTA Urbanized Area (UZA) Formula funds for North Texas<sup>1</sup>

#### Available Funding for North Texas

| UZA                   | Section 5307  | Section 5310 | TOTAL         |
|-----------------------|---------------|--------------|---------------|
| DFW-<br>Arlington     | \$128,511,228 | \$661,250    | \$129,172,478 |
| Denton-<br>Lewisville | \$0           | \$41,938     | \$41,938      |



### **5307 ALLOCATION METHODOLOGY**

| DFW-Arlington UZA   | 2018 Operating Expenses            | 75% of 2018 Operating Expenses | CARES Act Allocation | Recommended for CRRSAA<br>Funding? |
|---|------------------------------------|--------------------------------|----------------------|------------------------------------|
| City of Arlington   | \$3,291,878                        | \$2,468,909                    | \$10,955,694         | No                                 |
| City of Grand Prairie                                     | \$801,084                          | \$600,813                      | \$3,852,375          | No                                 |
| City of Mesquite  | Reported to NTD by STAR<br>Transit | N/A                            | \$3,442,401          | No                                 |
| City/County Transportation                                | \$310,255                          | \$232,692                      | \$899,600            | No                                 |
| Community Transit Services                                | \$193,513                          | \$145,135                      | \$1,781,036          | No                                 |
| Dallas Area Rapid Transit                                 | \$527,011,156                      | \$395,258,367                  | \$229,627,520        | Yes                                |
| Trinity Metro/ Fort Worth Transportation Authority (FWTA) | \$54,709,434                       | \$41,032,076                   | \$55,161,034         | No                                 |
| North Central Texas Council of Governments                | N/A                                | N/A                            | \$796,572            | No                                 |
| Northeast Transportation Services (NETS)                  | Reported to NTD by<br>FWTA         | N/A                            | \$4,813,723          | No                                 |
| Public Transit Services                                   | \$472,239                          | \$354,180                      | \$396,081            | No                                 |
| Span, Inc.  | \$1,026,700                        | \$770,025                      | \$2,204,136          | No                                 |
| STAR Transit  | \$3,869,114                        | \$2,901,836                    | \$4,698,957          | No                                 |
| Denton-Lewisville UZA                                     | 2018 Operating Expenses            | 75% of 2018 Operating Expenses | CARES Act Allocation | Recommended for CRRSAA<br>Funding? |
| Denton County Transportation Authority                    | \$28,350,849                       | \$21,263,137                   | \$23,461,867         | Not Available                      |

### **METHODICAL REVIEW OF FUNDING ALLOCATIONS**

# **STEP 1: FORMULA ALLOCATIONS**

# Are annual formula allocations correct and accurately account for TRE?



# **STEP 2: CARES ACT ALLOCATIONS**

# Did the RTC correctly allocate CARES Act funding and account for TRE?



## **STEP 3: CONGRESSIONAL EVALUATION**

Did Congress allocate any CRRSAA funding to North Texas because any agencies were below the 75% threshold?



## **STEP 4: AGENCIES BELOW 75% THRESHOLD**

# Was DART the only transit agency in North Texas below the 75% threshold?

Yes

# **STEP 5: RTC DISCRETION**

# Does the RTC have discretion on how to distribute CRRSAA funds?

Yes

Other than 2018 NTD Authorities with Disparate Tools Federal Awareness of TRE

### **STEP 5: RTC DISCRETION CONTINUED**

| Agency           | 2018 Operating<br>Expenses*                               | 75% of 2018<br>Operating<br>Expenses             | CARES Act<br>Allocation | Percent of<br>2018<br>Operating<br>Expenses<br>(CARES Act<br>Only) | Recommended<br>CRRSAA<br>Allocation | Total<br>Recommended<br>COVID-19 Relief<br>Funding (CARES<br>Act + CRRSAA) | Percent of 2018<br>Operating<br>Expenses (Total<br>COVID-19 Relief<br>Funding) |
|------------------|---|--|-------------------------|--|-------------------------------------|--|--|
| DART             | \$527,011,156 -<br>\$16,742,596 =<br><b>\$510,268,560</b> | <b>\$382,701,420</b><br><del>\$395,258,367</del> | \$229,627,520           | 45%  | \$128,511,228                       | \$358,138,748  | 70%  |
| Trinity<br>Metro | \$54,709,434 +<br>\$16,742,596 =<br><b>\$71,452,030</b>   | <b>\$53,589,023</b><br><del>\$41,032,076</del>   | \$55,161,034            | 77%  | Not<br>Recommended                  | \$55,161,034   | 77%  |

# **CONTACT INFORMATION**

Shannon Stevenson

Senior Program Manager

sstevenson@nctcog.org

817-608-2304

Edgar Hernandez

Senior Transportation Planner

ehernandez@nctcog.org

817-704-5640

# CHANGING MOBILITY

DATA, INSIGHTS, AND DELIVERING INNOVATIVE PROJECTS DURING COVID RECOVERY

Surface Transportation Technical Committee February 2021

Michael Morris, PE Director of Transportation

### TRAVEL BEHAVIOR BY MODE

Bicycle/Pedestrian (+36%, December)

Freeway Volumes (-9%, November) Toll Road (-19%, November) Airport Passengers (-46%, November) Transit Ridership (-49%, December)

## TRANSIT IMPACTS

Weekday Ridership



#### Passenger Decrease : 2019 vs 2020

Source: DART, DCTA, and Trinity Metro

### FINANCIAL IMPLICATIONS

#### Transit Sales Tax Allocations (0.34%, September)

Sales Tax (-0.3%, January) Motor Fuel Tax (-4.7%, January) Motor Vehicle Sales and Rental Tax (-13.4%, January)

# FUNDING IMPACT

NTTA Transactions, Including SH 360



Change in Tollway Transactions:

Source: NTTA Note: Change for NTTA includes 360 Tollway Additional Note: Despite decline in transactions, the revenues are sufficient to meet debt service for SH 360. No current impact to RTC backstop expected.

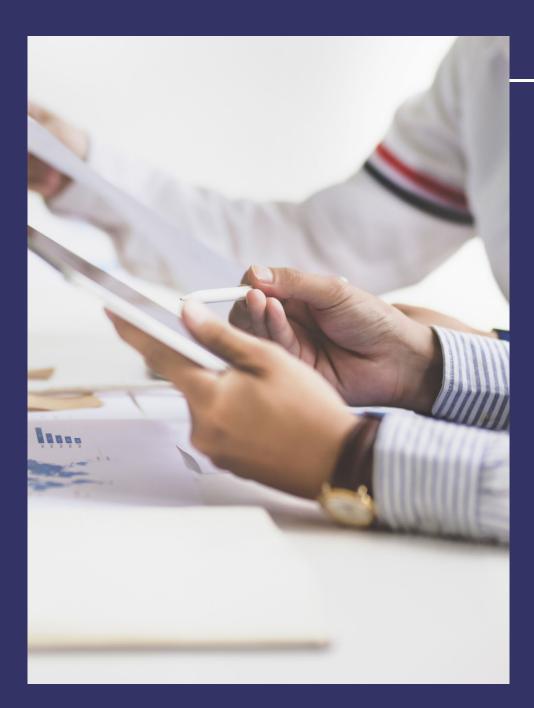
#### Construction Cost Changes October 2019 to January 2021

Monthly Average Construction Cost Changes (Letting Low Bid vs. Sealed Engineer's Est.)



Sources: TxDOT Connect and Monthly TxDOT Letting Reports

Notes: Does not include CSJ 2266-02-151; Includes grouped and non-grouped projects; Includes Dallas and Fort Worth District data



#### CANDIDATE PROJECTS

High Speed Rail: Dallas to Houston High Speed Rail: Dallas to Fort Worth Autonomous Transit (Tarrant, Midtown) Technology (Freeway Induction Loops) State Highway 183 (Section 2E+) Y Connector (IH820/IH20) COVID-19 #00X Program

#### Status of Federal Discretionary Grant Program Project Proposals – Not Awarded (2016-20)

| YEAR          | EAST/<br>WEST | GRANT<br>TYPE | PROJECT  | TOTAL<br>COST | GRANT<br>FUNDS | UPDATED STATUS (VIA OTHER MEANS) |               |                                 |
|---------------|---------------|---------------|--|---------------|----------------|----------------------------------|---------------|---------------------------------|
|               |               |               |  |               |                | NEPA                             | FUNDING       | DELIVERY                        |
| 2016          | WEST          | TIGER         | East Lancaster Ave. Complete Streets                         | \$107.0M      | \$25.0M        | NO                               | YES (partial) | 2021 UTP (FY 2021-24 Let Date)  |
| 2020          | EAST          | BUILD         | Enhancing Mobility Within the<br>Southern Dallas Inland Port | \$12.0M       | \$9.3M         | NO                               | YES (partial) | COVID-19 #00X Round 3 (partial) |
| 2021<br>(NEW) | EAST          | INFRA         | IH 30 Downtown (Co-Sponsor)                                  |               |                | FONSI                            | YES (partial) | 2021 UTP (FY 2021-24 Let Date)  |

#### LEGISLATIVE UPDATE

Nicholas Allen, Communications Coordinator NCTCOG Surface Transportation Technical Committee February 26, 2021

## FEDERAL UPDATE

#### **Biden Administration**

- Pete Buttigieg has been confirmed as Secretary of Transportation by the US Senate
- The House Budget Committee has approved President Biden's "American Rescue Plan" totaling \$1.9 trillion
- \$50.7 billion will go to transportation and infrastructure; transit and airport relief with \$30.5 billion in dedicated funds

#### **Executive Orders**

- Established the White House Office of Domestic Climate Policy and National Climate Task Force
- Promoted COVID-19 safety during travel; face masks now required on public transportation

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#### TEXAS LEGISLATURE

#### House and Senate Committee Assignments

Senate Transportation

- No change to Chair, Senator Robert Nichols
- North Texas Members: Senators Hancock & West

#### House Transportation

- No Change to Chair, Representative Terry Canales
- North Texas Members: Representatives Yvonne Davis, Glenn Rogers

## TEXAS LEGISLATURE

#### **Upcoming Committee Hearings**

• Senate Finance & Redistricting; House Appropriations, Redistricting, Transportation, & State Affairs

#### **Governor Abbott's Emergency Items**

- Broadband expansion
- Prohibiting cities from defunding the police
- Bail system reform
- Election integrity
- Pandemic liability protections for businesses
- \*ERCOT reform

#### **TEXAS LEGISLATURE**

#### **Bill Topics**

- Tolls / CDAs
- Roadway Safety
- Gas / Diesel Fuel Tax Increases
- Electric Vehicle Charging Station Infrastructure, Emissions Reductions
- Eminent Domain

#### **CONTACT INFORMATION**

#### **Amanda Wilson**

Program Manager (817) 695-9284 awilson@nctcog.org

#### **Rebekah Hernandez**

Communications Manager (682) 433-0477 rhernandez@nctcog.org

#### **Nicholas Allen**

Communications Coordinator (817) 704-5699 nallen@nctcog.org Kyle Roy Communications Coordinator (817) 704-5610 kroy@nctcog.org



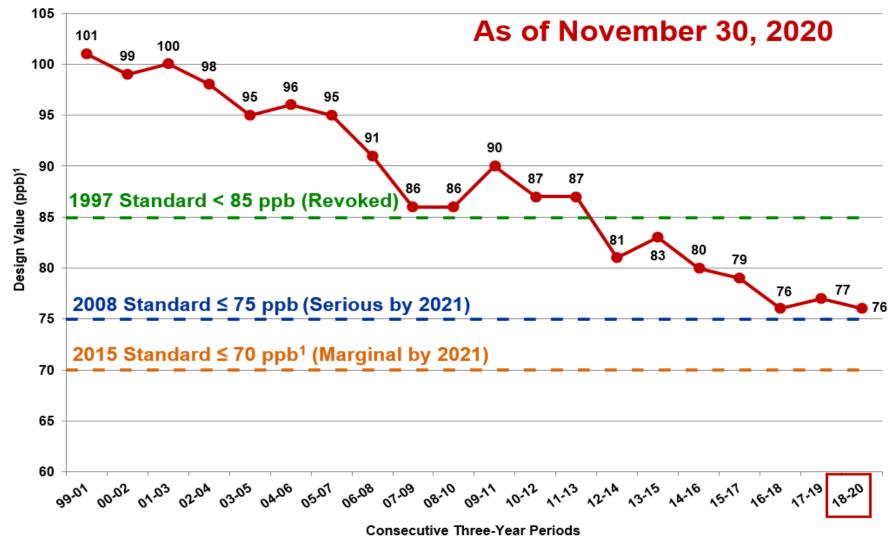
#### NCTCOG PRESENTATION

# REQUIREMENTS OF OZONE RECLASSIFICATIONS

SURFACE TRANSPORTATION TECHNICAL COMMITTEE

FEBRUARY 26, 2021 VIVEK THIMMAVAJJHALA

#### **OZONE DESIGN VALUE TREND**



<sup>1</sup>Attainment Goal - According to the US EPA National Ambient Air Quality Standards, attainment is reached when, at each monitor, the *Design Value* (three-year average of the annual fourth-highest daily maximum eight-hour average ozone concentration) is equal to or less than 70 parts per billion (ppb).

## **NEW ATTAINMENT DEADLINES**

2008 NAAQS Attainment Date (<75 ppb):

Reclassify from <u>Serious to Severe</u> No later than July 20, 2027, to reach attainment Based on <u>2024-2026 Ozone Monitor Data</u> Air Quality Plan (SIP) based on analysis year <u>2026</u> modeling

2015 NAAQS Attainment Date (<70 ppb):

Reclassify from <u>Marginal to Moderate</u> No later than August 3, 2024, to reach attainment Based on <u>2021-2023 Ozone Monitor Data</u> Air Quality Plan (SIP) based on analysis year <u>2023</u> modeling

## **AIR QUALITY PLANS**

State Implementation Plans (SIPs) need to be updated by the Texas Commission on Environmental Quality (TCEQ) as a result of reclassifications

SIPs include emissions from multiple sectors such as on-road vehicles, non-road engines, off-road engines, area sources, point sources, oil and gas, and biogenic sources. The two types of SIPs are:

Reasonable Further Progress SIP – To ensure at least 3% reduction of Ozone precursor emissions (Oxides of Nitrogen – NO<sub>X</sub> and Volatile Organic Compounds – VOC) per year

**Attainment Demonstration SIP – Forecasts compliance to Ozone NAAQS** 

**On-Road El's generate Motor Vehicle Emission Budgets (MVEB) for use in future transportation conformity analyses** 

## NCTCOG SUPPORTING EFFORTS

| ACTIVITIES  | 2008<br>STANDARD | 2015<br>STANDARD | TCEQ<br>CONTRACT |   |
|---|------------------|------------------|------------------|---|
| On-road Emission<br>Inventory for<br>Reasonable Further<br>Progress (RFP) SIP | ✓                | ✓                | YES              |   |
| On-road Emission<br>Inventory for<br>Attainment<br>Demonstration (AD) SIP     | •                | ✓                | YES              |   |
| VMT Growth Offset   | ✓                | ×                | YES              |   |
| Weight of Evidence  | $\checkmark$     | ✓                | NO               |   |
| Transportation Control<br>Strategies  | ?                | ?                | ?                | 5 |

# NECESSARY TOOLS, INPUTS, & TIMEFRAME

New In-House Travel Demand Model – TAFT

- **New EPA Emission Factor Model MOVES3**
- **New Post Processing Utilities**

**Updated Local Data –** 

**Vehicle Registration**,

Vehicle Classification/Automatic Traffic Recording Data,

Meteorological Data,

**Fuel Formulations, etc.** 

**Demographics (population/employment)** 

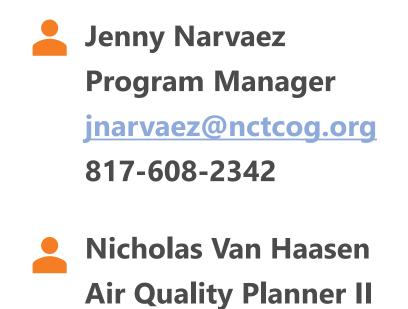
**Network Analysis Years –** 

2011, 2017, 2018, 2019, 2020, 2023, 2024, 2026, 2027

**Draft Emission Inventories Due In April, Final Due In June/July** 

# FOR MORE INFORMATION

- Chris Klaus Senior Program Manager cklaus@nctcog.org 817-695-9286
- Vivek Thimmavajjhala
   Transportation System Modeler II
   <u>vthimmavajjhala@nctcog.org</u>
   817-704-2504



817-608-2335

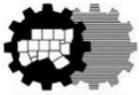
nvanhaasen@nctcog.org

https://www.nctcog.org/trans/quality/air/ozone

## Discussion on Proposed Amendments to the Manual on Uniform Traffic Control Devices for Streets and Highways

#### Michael Morris, P.E. and NCTCOG Staff

Surface Transportation Technical Committee February 26, 2021



North Central Texas Council of Governments

## MUTCD DISCUSSION OVERVIEW

A notice of proposed amendments to the Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD) was recently published in the Federal Register.

The proposed changes would promote uniformity, safety, efficiency, and incorporate technology advances.

NCTCOG Senior Program Managers will be submitting comments in their areas of expertise and will each provide a short overview today.

Deadline to submit comments is May 14, 2021

Chair Brian Moen wishes to initiate discussion with STTC members

# NCTCOG AREAS OF COMMENT

| Staff Member    | Section  | Comments  |
|-----------------|--|---|
| Thomas Bamonte  | Part 5: Automated Vehicles (New)                                   | AV Guidance   |
| Natalie Bettger | Sections 2G.16 – 2G.19: Managed<br>Lane Signage                    | No Comments   |
|                 | Part 6: Temporary Traffic Control<br>(Traffic Incident Management) | Traffic Incident Duration Classes<br>(Section 60.01)<br>Temporary Traffic Control Plans for<br>Unplanned Activity (Section 6B.01) |

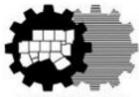
## NCTCOG AREAS OF COMMENT, CONTINUED

| Staff Member | Section        | Comments  |
|--------------|----------------|---|
| Lori Clark   | Section 2B.54  | Design of Parking, Standing, and Stopping Signs |
|              | Sections 2H.14 | Alternative Fuel Corridor Signage               |
|              | Sections 2I2J  | General Service and Specific Service<br>Signs   |

Thomas Bamonte, Senior Program Manager Automated Vehicles Program

#### MUTCD Part 5: Automated Vehicles

Surface Transportation Technical Committee February 26, 2021



North Central Texas Council of Governments

#### Part 5A: General

The MUTCD <u>does not address</u> standardizing several areas that might be important to AV technologies such as <u>digital infrastructure</u>, <u>geometric</u> <u>road design</u>, setting <u>maintenance levels</u> for all traffic control devices, and setting minimum condition levels for paving materials. [5A.01]

<u>Improvements</u> to traffic control device uniformity and improved maintenance policies and practices that keep traffic control devices in good working order with high levels of conspicuity <u>that benefit the</u> <u>human vehicle operator will benefit DAS vehicles</u> as well. [5A.04]

#### Part 5B: Provisions for Traffic Control Devices

<u>Signs</u>: *Refresh rate of the LEDs should be greater than 200 Hz* [5B.01]

<u>Markings</u>: Good markings assist machine vision [5B.02]

<u>Traffic Signals</u>: Consistent design; Where possible, CAV needs...are better addressed through vehicle to infrastructure (V2I) [5B.03]

<u>Temporary Traffic Control</u>: Clear, complete channelization [5B.04]

<u>RR Crossings</u>: Consistent signage; V2I communication should be used to relay information on the arrival or presence of a train at a highway-rail grade crossing [5B.05]

<u>Bicycles</u>: To better accommodate machine vision..., bicycle facilities should be segregated from other vehicle traffic using physical barriers where practicable. [5B.06]

#### Part 5C: Future Considerations

(Reserved)

## Questions Contact Information

**Thomas Bamonte, NCTCOG** 

Senior Program Manager

**Automated Vehicles** 

tbamonte@nctcog.org

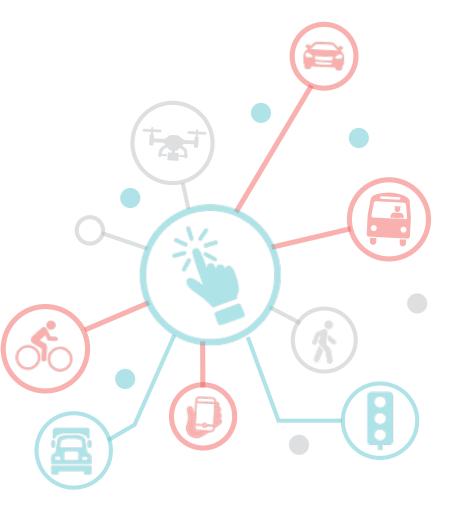
@TomBamonte

Clint Hail, NCTCOG

**Transportation Planner** 

**Automated Vehicles** 

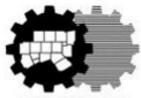
chail@nctcog.org



Natalie Bettger, Senior Program Manager

## MUTCD Part 2G and 6

Surface Transportation Technical Committee February 26, 2021



North Central Texas Council of Governments

# Managed Lanes Signage and Traffic Incident Management

#### Sections 2G.16 – 2G.19 – Managed Lane Signage No Comments

Part 6: Temporary Traffic Control (Traffic Incident Management Traffic Incident Duration Classes (Section 60.01) Temporary Traffic Control Plans for Unplanned Activity (Section 6B.01)

# Questions Contact Information

**Natalie Bettger** 

Senior Program Manager

nbettger@nctcog.org

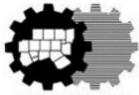
Sonya Landrum

Program Manager

slandrum@nctcog.org

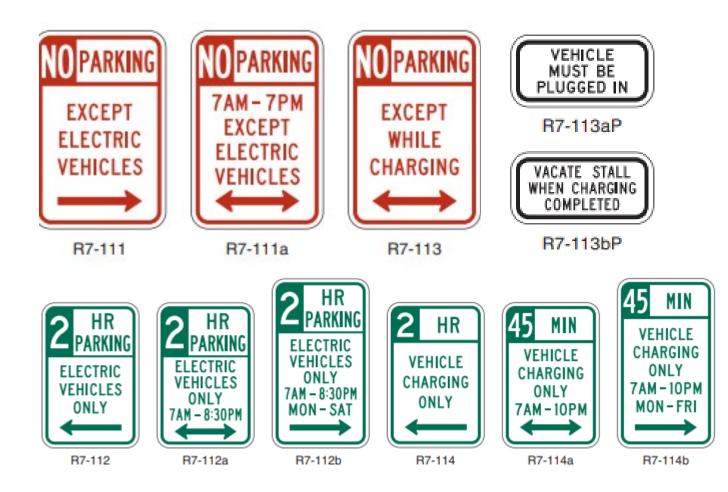


#### MUTCD Section 2B.54 Section 2H.14 Section 2I Section 2I Section 2J February 26, 2021



North Central Texas Council of Governments

# Section 2B.54 Design of Parking, Standing and Stopping Signs



Signage for Electric Vehicle Parking

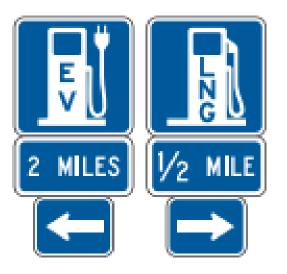
**Express Support** 

#### Section 2H.14 Alternative Fuel Corridor Signage Section 2I General Service Signs Section 2J Specific Service Signs

**Corridor Signage** Potential Comments



General Services Signage Express Support



Specific Services Signage Potential Comments

