

# AIR QUALITY BRAINSTORMING

## Surface Transportation Technical Committee

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**September 27, 2013**

**Chris Klaus, Senior Program Manager**

North Central Texas Council of Governments

Transportation Department



# AIR QUALITY BRAINSTORMING

## Rationale

**Current Dallas-Fort Worth (DFW) Ozone Design Value = 87 ppb**

**Exceeds the 1997 8-hour Ozone Standard (<85 ppb)**

**Exceeds the 2008 8-hour Ozone Standard ( $\leq 75$  ppb)**

**EPA to Announce Decision Regarding 8-hour Ozone Standard in 2014**

**2015 State Implementation Plan Development**

**May Require Control Strategies for 2018 Attainment**

# AIR QUALITY BRAINSTORMING

## Next Steps

✓ DFW SIP Public Information Meeting  
September 5, 2013

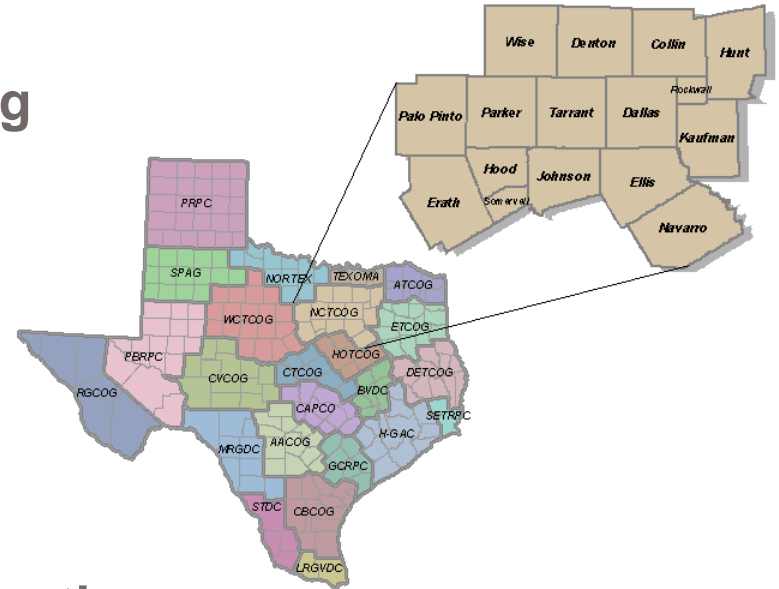
✓ STTC – Air Quality Brainstorming  
September 27, 2013

RTC – Air Quality Brainstorming  
October 10, 2013

DFW SIP Development Technical Meeting  
November 5, 2013

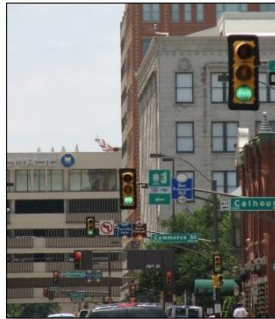
Texas Register Notice  
Request for Information/Technologies

Future Control Strategy Meetings



# EXISTING CONTROL STRATEGY EXAMPLES

## Transportation Sector



tryparkingit.com



# EXISTING CONTROL STRATEGY EXAMPLES

## Non-Transportation Sector

DFW Cement Kiln Rule

NO<sub>x</sub> Emission Limits from Natural Gas-Fired  
Small Boilers, Process Heaters, and Water Heaters

DFW Major Sector Utility Generation Source Rule

DFW Industrial Commercial Institutional Minor Source Rule

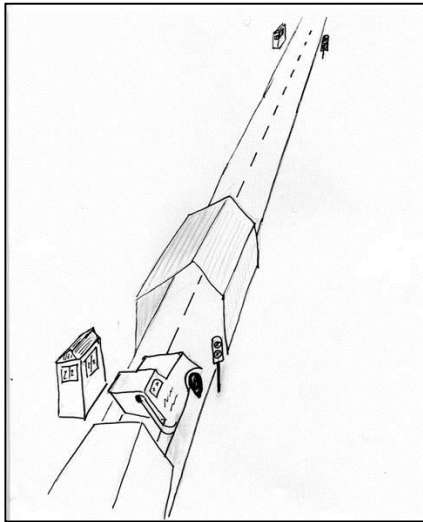
Leadership in Energy and Environmental Design



# NEW CONTROL STRATEGY EXAMPLES

## Transportation Sector

### Streamlined Heavy-Duty Emissions Detection (SHED)\*



Idea



Model



Pilot

\*Future Presentation of Results of Research

# AIR QUALITY BRAINSTORMING

## Ideas

### Control Strategies

Doing Now, Should Continue?

Doing Now, No Longer Applicable?

Existing (Not Inventoried)

New, Needs Additional Research

# NEW CONTROL STRATEGY BRAINSTORMING

## Transportation Sector

Retrofit Conventional Gas Stations to Include Alternative Fuels

All Intersections above Specific VMT Threshold Require Dedicated Right Turn Lanes

Ramp Metering

Bottleneck Removal

Remote Sensing

“Ozone-Eating” Photocatalytic Pavement (TxDOT Research)

Shaded and/or Cool Pavement

No Meetings on Ozone Alert Days

STTC Meetings

Webinar-Based Only





# CONTACT INFORMATION

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