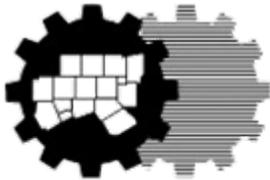


INNOVATIVE APPROACHES TO MEET CHALLENGING GOALS: WHAT WAS, WHAT IS, WHAT MAY BE

Air Quality Quandary: Facing New Deadlines

Clean Air Through Energy Efficiency December 16, 2008



**Chris Klaus
Senior Program Manager
North Central Texas Council of Governments**

STATE IMPLEMENTATION PLAN

Weight of Evidence Approach

Option in 8-Hour Ozone Modeling Guidance

Help Document if Attainment is Likely

Beneficial Due to Modeling Uncertainties

Opportunity to Document Innovative Strategies/Pilot Programs

Such Strategies May Yet to be Quantified

Allows Consideration of Historical Trends

CLEAN FLEET VEHICLE POLICY

Goal to Minimize Emissions Among Public Sector Fleet Vehicles

83 Adopting Entities to Date

Principles Applicable to All Fleets

Impact on Funding Requests

Criteria for Clean Vehicle Funding

Potential Consideration in General Funding Decisions

Comprehensive in Nature

Acquisitions

Operations

Maintenance

Annual Reporting

Fleet Benefits

Efficient Operations

Reduced Emissions

Consistent Fleet Goals

Public Recognition



Contact: Lori Pampell at 817-695-9232 or lpampell@nctcog.org

<http://www.nctcog.org/trans/air/vehicles/fleet/policy/index.asp>

PAY-AS-YOU-DRIVE INSURANCE

NCTCOG/Progressive Insurance Pilot Program

Participation (2006-2007)

High Level of Response to a Mileage-Based Insurance Program (> 3,000 Participants)

1996 or Newer Model Year Vehicles Required

***TripSense*® Device Plugged into On-Board Diagnostic (OBD) for 1-Year of Data Collection**

Financial Incentive for Reducing Mileage
\$50 for Participation
+ \$25 Per 5% Reduction in Miles

Results

PAYD Program Decreased Participant Miles Driven by An Average of 5%, or 560 Miles Per Year

Contact: Amanda Brimmer at 817-608-2354 or abrimmer@nctcog.org
<http://www.nctcog.org/trans/air/programs/payd/index.asp>



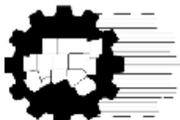
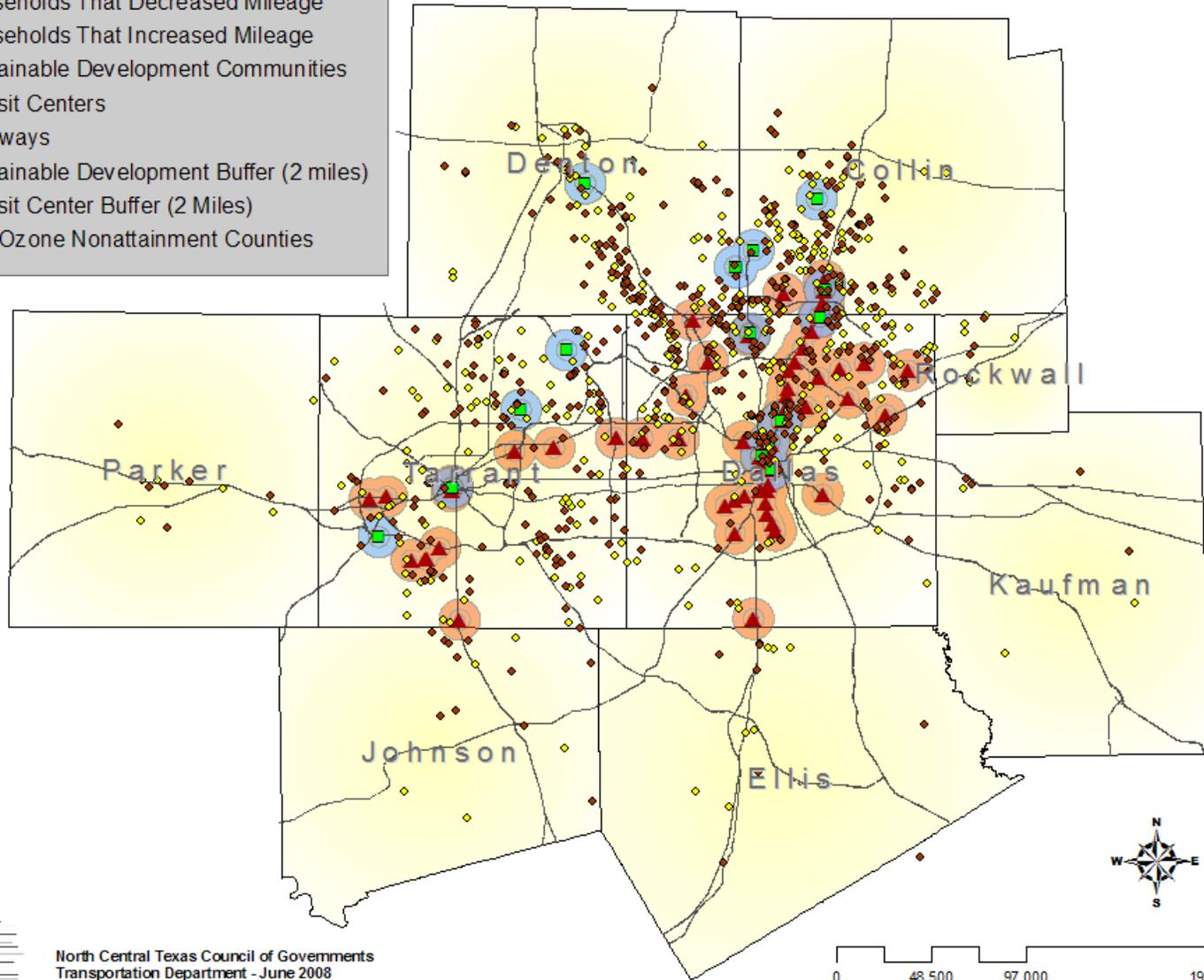
Photo source: www.atomerochbitar.se

PAY-AS-YOU-DRIVE INSURANCE

NCTCOG/Progressive Insurance Pilot Program

Legend

- ◆ Households That Decreased Mileage
- ◇ Households That Increased Mileage
- Sustainable Development Communities
- ▲ Transit Centers
- Highways
- Sustainable Development Buffer (2 miles)
- Transit Center Buffer (2 Miles)
- 8-hr Ozone Nonattainment Counties



NORTH TEXAS GREEN & GO

Clean Taxi Partnership

\$1.625 Million in Funds

Regional Transportation Council

The Sue Pope Fund



Grant Opportunity

\$5,000 Awards for Cleaner Vehicles

Taxi Companies and Individual Operators

Incentives

Longer Service Allowances

Extensive Marketing Campaign

Time Frame

**Call Closes December 31, 2008 (Stop Taking Applications
for Taxi Vehicle Replacements)**

Contact Jenny Danieau at 817-608-2342 or jdanieau@nctcog.org

<http://www.nctcog.org/trans/air/vehicles/fleet/regulated/GreenTaxi.asp>

LOCALLY ENFORCED IDLING RESTRICTIONS

Rule Requirements

Applies to Gasoline or Diesel Vehicles Over 14,000 LBS (GVWR)

Restricts Idling the Main Engine for No More than 5 Minutes

Applicable From April 1 Through October 31

No Driver Using Vehicle's Sleeper Berth May Idle in:

A Residential Neighborhood

A School Zone

Within 1,000 Feet of a Hospital or School

**Within a Two-Mile Radius of a Facility Offering
External Heating and Air Conditioning**



Adopted By 10 Entities To Date

LOCALLY ENFORCED IDLING RESTRICTIONS

Exemptions

Vehicle Type

Vehicles With Sleeper Berth

Military, Emergency or Law Enforcement Vehicles

Airport Ground Support Equipment

**The Owner of a Vehicle Rented or Leased to a Person Not Employed
By Owner**

Operations

Idling Due to Traffic Congestion

Motors Run as Power Source for Operations

Idling During Maintenance/Diagnostic Purposes

Operation Solely to Defrost a Windshield

Air Conditioning And Heating Provision

**For Passenger Comfort / Safety in Vehicles for Public/ Commercial
Passenger Transportation (≤ 30 Minutes)**

**For Employee Health or Safety While Employee Related to Roadway
Construction**

During Government-Mandated Rest Period

LOCALLY ENFORCED IDLING RESTRICTIONS

Education Campaign

NCTCOG is Developing for Regional Use:

Anti-Idling Signs

Driver Education Brochures

**Complaint Hotline and Web Site to Report
Idling Vehicles**

1-877-NTX-IDLE

www.EngineOffNorthTexas.org

**Contact: Amanda Brimmer at 817-608-2354 or
abrimmer@nctcog.org**



DIESEL IDLING REDUCTION PROGRAM

Call for Projects

Program Goals

Reduce NOx Emissions from Heavy Duty Diesel Idling
Incentivize Investment in Idle-Reduction Technologies

Funding

Federal And EPA (SmartWay) Funds – \$1,950,000



Eligible Project Types

On-Board Projects

Purchase and Installation of
Eligible Devices
Incremental Cost of New Vehicles
with Integrated Systems
Up to 50% of Project Cost

On-Site Projects

Installation of Infrastructure
Up to 80% of Project Cost



Contact: Lori Pampell at 817-695-9232 or lpampell@nctcog.org
<http://www.nctcog.org/trans/air/vehicles/fleet/policy/index.asp>

PREFERENTIAL PARKING

Clean Vehicle Incentive

Concept

**Provide Up-Front Parking Spaces for Clean Vehicles
Help Incentive More North Texans to Purchase These vehicles**

Research

New York, Chicago, St. Louis, Las Vegas, and Los Angeles

Model After Handicap Parking, Expectant Mothers Parking

Determine What Qualifies as a “Clean Vehicle”

SmartWay™ Certification

Tier/Bin Based

Develop Partnerships

Local Businesses

North Texas Clean Air Coalition

Chambers of Commerce

Implement Pilot Program with Select Business Partners

Contact: Pamela Burns at 817-704-2510 or pburns@nctcog.org

REGIONAL POLICY PROGRAMS

Construction Equipment

In Development for Publicly Owned and Contracted Equipment

Approximately 10% of all NOx Emissions Attributed to
Construction Equipment

Policy Goals

Encourage Use of Cleaner Equipment
Encourage Use of Existing Incentives
(i.e. TERP)



Includes Specification for Engines and Equipment Operation

Contact Lori Pampell at 817-695-9232 or lpampell@nctcog.org

<http://www.nctcog.org/trans/air/vehicles/fleet/constructionfleets/index.asp>

REGIONAL COORDINATION

Regional Energy Efficiency & Emissions Reduction Initiatives Roundtable

**Quarterly Forum to Share Knowledge on Energy Efficiency and
Air Quality Emissions Reduction Measures**

**Opportunity to Explore New Ideas and to Discuss Implementation
of Various Strategies Including Successes, Challenges, and
Lessons Learned**

**Typical Attendees: Cities, Counties, Airports, Independent School
Districts, Universities, State Agencies, Federal Agencies, and
Private Companies**

**Contact: Carrie Reese at 817-608-2353 or creese@nctcog.org
<http://www.nctcog.org/trans/committees/reri/index.asp>**

CITY OF DENTON

“Green” Fire Station No. 7

Gold LEED Certification

- First Building in Denton
- First Fire Station in Texas

30-35% Less Energy Use than Traditional Buildings

\$3.4 Million-Worth of Recycled Construction Materials

12 Geothermal Heat Pumps

High-Efficiency Lighting

Operable Windows in Bunk Rooms

Four 5,400-Gallon Cisterns to Collect Rainwater Runoff



Photo: www.texasarchitect.org

MANSFIELD ISD

Utility Conservation Program

ENERGY STAR Leader and Top Performer

ISD Adjusted Percent Energy Reduction Averaged 15.7%* (0%-28.2% Per Facility)

Cost Savings of \$706,000*

High Efficiency HVAC Equipment

T8 Fluorescent Lighting

Occupancy Sensors

Computerized Energy Management Systems

Auto Shut Down Software on 10,000+ Computers



CITY OF PLANO

Energy Efficient Education Program

Traveling Exhibit and Display

- Building Models
- Actual Materials and Products

Energy Audit Toolkits

- Audit Assessment Forms
- “What if?” Interactive Sites
- DVD Demonstrations

Energy Commitment Program

- Pledge Card with Suggestions
- Tracks Savings for Residents
- Free Programmable Thermostats

Rebate Program

- Up to maximum of 20% or \$2000



Examples include:

- Energy Star Appliances
- Air Conditioners (14 SEER+)
- Attic Insulation
- Solar Screens/Solar Film
- Radiant Barrier
- Duct Replacement/Insulation
- Low-e windows

MINIMIZING MOBILE IMPACTS

Other Initiatives



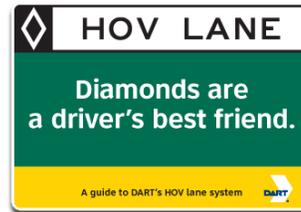
Don't Choke, Call #SMOKE



northcentral.texas.clean.school.bus.program



go green. breathe clean.

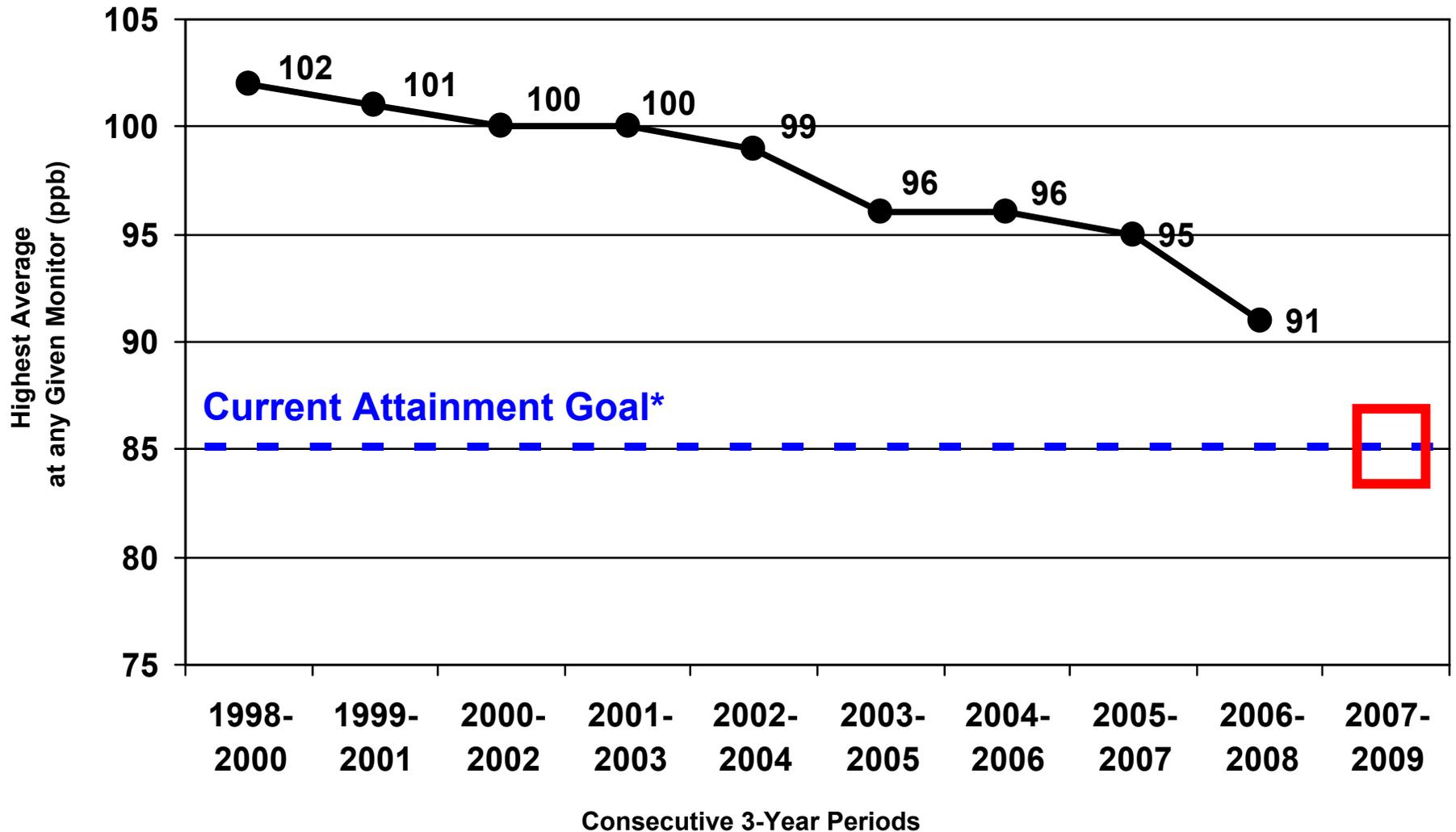


try parkingit.com



DFW NONATTAINMENT AREA

8-Hour Ozone Historical Trends



* Current Attainment Goal - According to the US EPA National Ambient Air Quality Standards, attainment is reached when, at each monitor, the three-year average of the annual fourth-highest daily maximum 8-hour average ozone concentration is less than 85 parts per billion (ppb).

BACK TO MEANING OF TITLE

Trends Facing Local Authorities

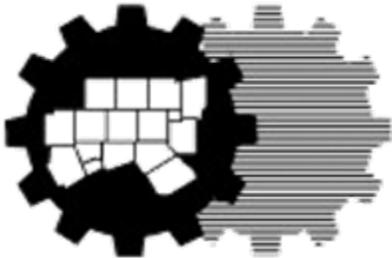
What Was: Voluntary

What Is: Voluntary & Policies

What May Be: Mix of Voluntary, Policies, And Mandatory

INNOVATIVE APPROACHES TO MEET CHALLENGING GOALS: WHAT WAS, WHAT IS, WHAT MAY BE

CONTACT INFORMATION



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