

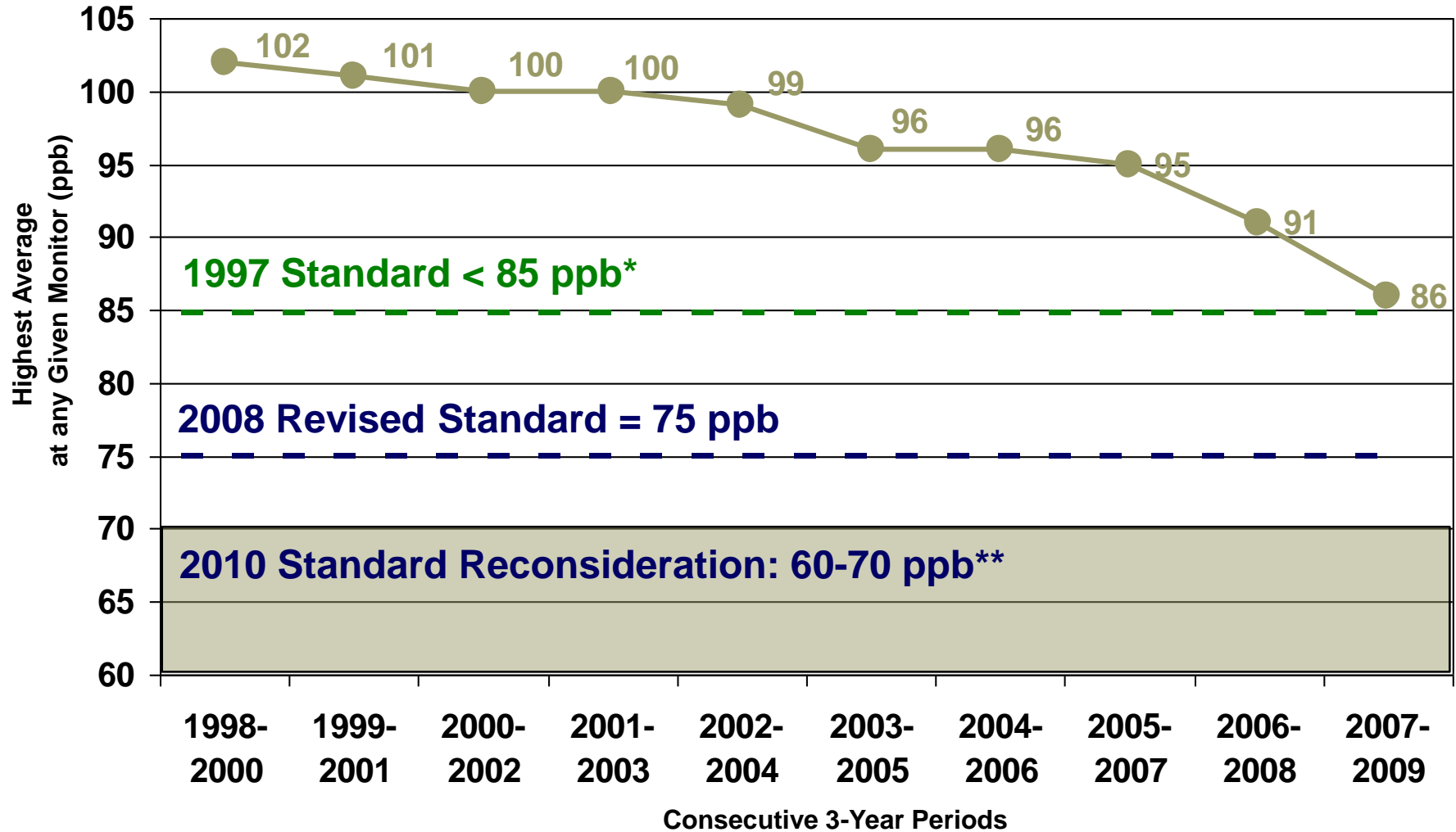
NCTCOG Clean Construction Specification and Demonstration Project

NCTCOG Clean Construction Workshop

May 7, 2010

**Carrie Reese and Lori P. Clark
Transportation Department
Air Quality Planning and Operations**

Dallas-Fort Worth 8-Hour Ozone Trend



* 2010 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).

** Primary Ozone Standard is currently under reconsideration by the EPA and will likely be revised in August 2010 to between 60 and 70 ppb.

State Implementation Plan Commitments

Voluntary Mobile Emissions Reduction Program – NCTCOG Commitments	Sector Targeted
Clean Vehicle Program	Light- and Heavy-Duty On-Road Fleets
Diesel Idle Reduction Program	Trucking; Heavy-Duty On-Road Fleets
Locally Enforced Idling Restrictions	Trucking; Heavy-Duty On-Road Fleets
SmartWay Transport Demonstration Project	Trucking
Employee Trip Reduction	General Public; Light-Duty On-Road Fleets
Aviation Efficiencies	Aviation
<i>Public Agency Policy for Construction Equipment</i>	<i>Construction Fleets</i>

Existing Specifications

General Applicability

Illinois – Cook County

Massachusetts Bay Transportation Authority

Massachusetts Department of Environmental Protection

New York City

New York Metropolitan Transportation Authority

New York – Westchester County

Project-Specific Applicability

Connecticut Department of Transportation

Illinois Department of Transportation

Illinois O'Hare Modernization Program

Maryland State Highway Administration Program

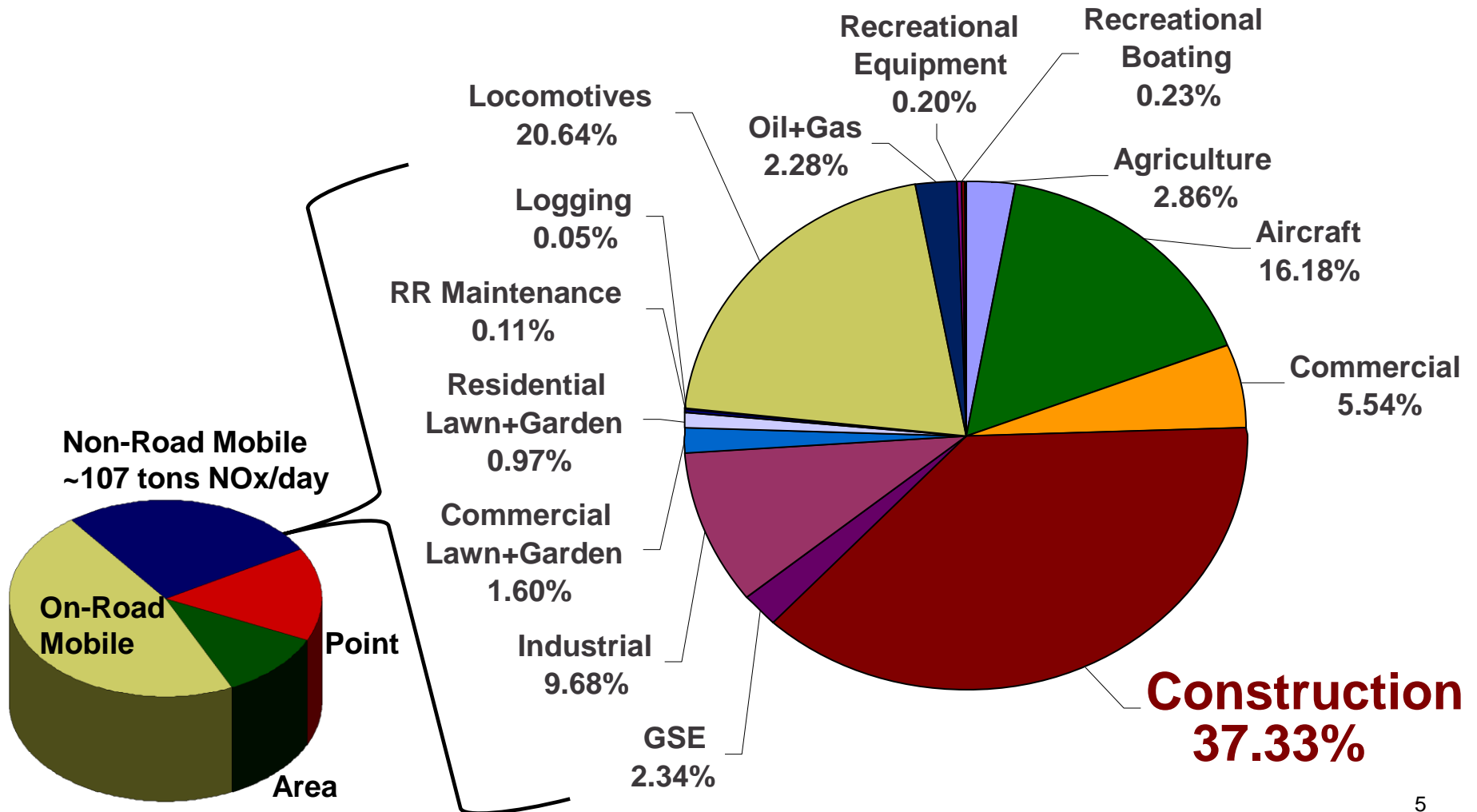
Massachusetts Dana Farber Cancer Institute

Massachusetts Highway Department

Michigan – University of Michigan Hospitals

Dallas-Fort Worth Emissions Inventory

2009 Non-Road Nitrogen Oxides (NO_x) Sources



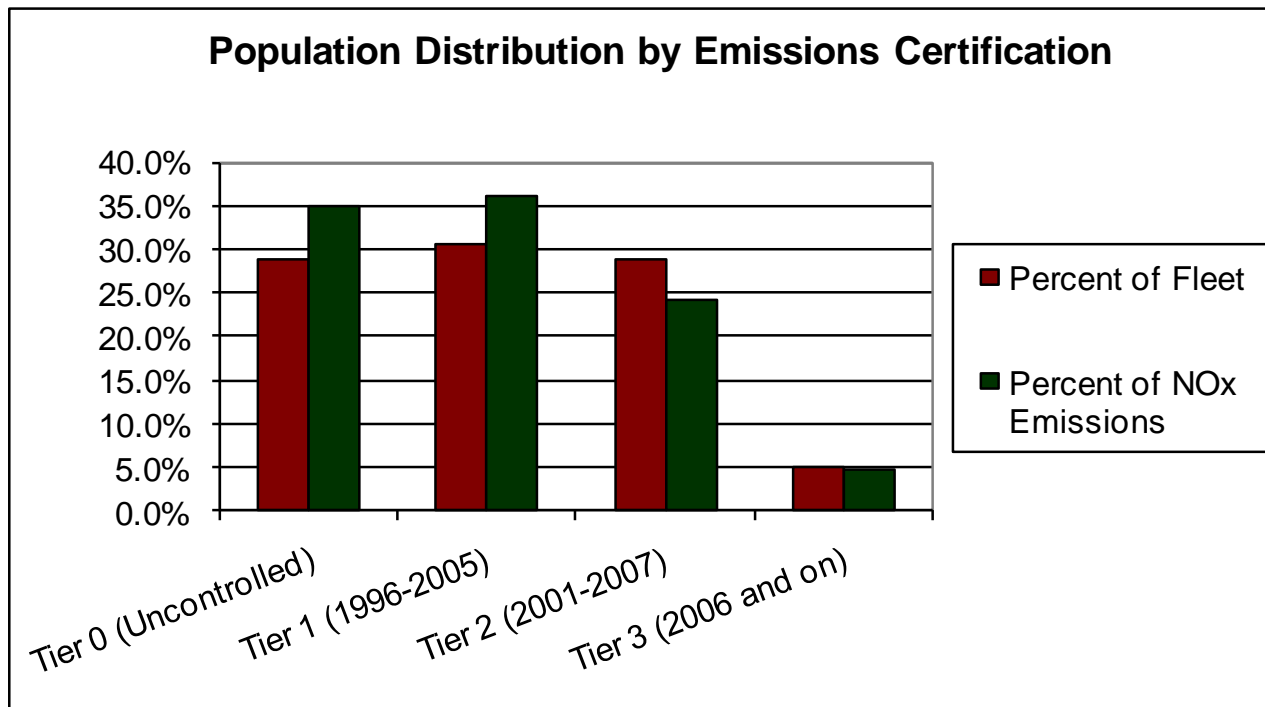
Source: Texas Commission on Environmental Quality

Rationale

10% (40 tons/day) of all DFW Nonattainment Area Nitrogen Oxides (NO_x) Emissions Attributed to Construction Equipment Public Works is ~ 20-25% of All Construction Activity

Existing Fleet Composition

Approximately 60% Uncontrolled and Tier 1 Engines



Development and Implementation Process

Initial Stakeholders' Meeting – May 9, 2007

Statewide Collaboration – Started April 2008

Stakeholders' Meeting – June 25, 2009

Task Force Meetings – Sept. 14, Oct. 5, Nov. 2, Nov. 23, 2009

**RTC Sustainability and Environment Subcommittee –
February 11, 2010**

Implementation of Demonstration Project

**Solicit Comments from Regional Partners to Determine
Next Steps**

Demonstration Project Overview

Applicable to Equipment Owned by, Operated by, or on Behalf of, or Leased by a Local Government/Public Agency

Goal: Gather Information on Potential Impacts

Bid Price

Emissions

Administrative Process

One Year Beginning Late Spring/Early Summer 2010

Local Government Involvement

NCTCOG Staff Effort

Seek “Mock” Bids for Recently Awarded Projects

Support Local Government Implementation

Clean Construction Specification

Equipment/Engine Requirements

Tier 2 or Equivalent Engine Standard

(Tier 2 Market Introduction Between 2001-2006)

Certified Engines, Repowers, Retrofits Eligible

Recommended Exemptions

Engine Age

Equipment Subject to Grant Usage Requirements

Low-Use Equipment

Emergency Situations

Clean Construction Specification

Operational Requirements

Use of Ultra Low Sulfur Diesel Fuel

Restriction on Idling

Staging/Minimizing Use of Equipment

Reporting to Contracting Entity

Inventory of Equipment Used On-Site

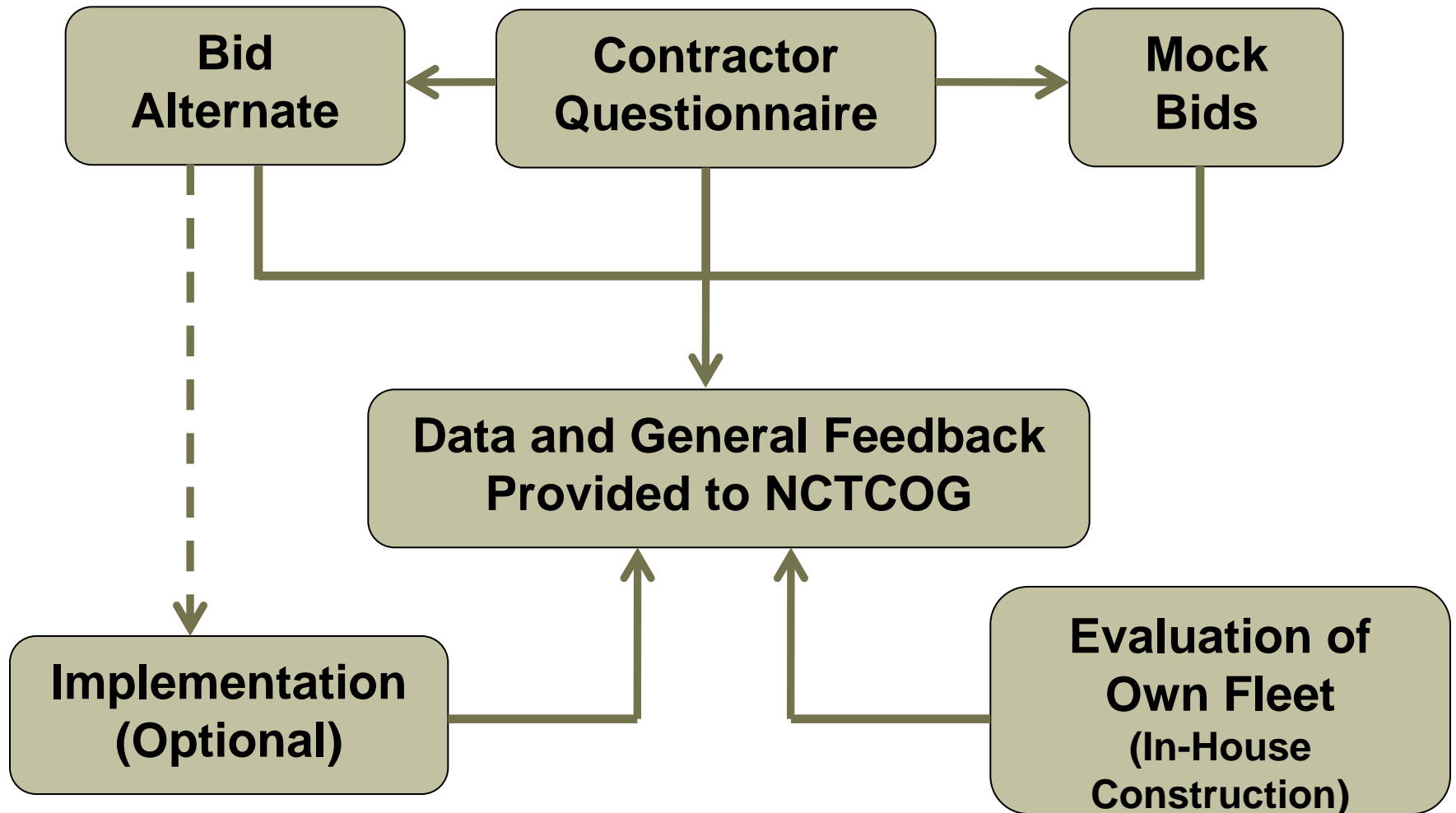
Documentation for Low Use Exemption

Enforcement

Entity Standard Contracting Procedures

Option for Penalties/Fines

Local Government Participation



Specification Implementation

Inspection

Engine Horsepower (hp)	Compliant Engine Model Years
Less than 25 hp	No Requirements
25 – 100 hp	2004 and newer
100 – 300 hp	2003 and newer
300 – 600 hp	2001 and newer
600 – 750 hp	2002 and newer
Over 750 hp	2006 and newer

Enforcement

Reporting

Contractor to Owner

Owner to NCTCOG

Implementation Schedule

Milestone	Date
STTC Action	February 26, 2010
RTC Action	March 11, 2010
<i>Implementation Workshop</i>	<i>May 7, 2010</i>
Begin Demonstration Project	Late Spring/Early Summer 2010
Solicit Comment/Feedback	Ongoing
Present Results to Committees and Determine Next Steps	Late Spring/Early Summer 2011

NCTCOG Resources

Template Forms

Model Specification

Contractor Questionnaire

Equipment Inventory

Low Use Exemption Form

Cost-Benefit Estimation

www.nctcog.org/construction

Other Needs?

Industry Funding Opportunities

Program	Timeframe	Funds Available
Heavy-Duty Vehicle and Equipment Grant Program	Ongoing	Up to \$10.7 Million <i>Approximately \$1.7 Million Remaining</i>
TERP Rebate Grant Program	Anticipated Spring 2010	Up to \$10 Million
TERP Emission Reduction Incentive Grant Program	Anticipated May 2010	Up to Approximately \$70-80 Million
<i>North Central Texas Clean Construction Project</i>	<i>Anticipated Late 2010</i>	<i>Approximately \$500,000</i>

Contact Information

Lori P. Clark
Senior Transportation Planner
817-695-9232
lclark@nctcog.org

Carrie Reese
Program Manager
817-608-2353
creese@nctcog.org

www.nctcog.org/construction