

PUBLIC AGENCY POLICY FOR CONSTRUCTION EQUIPMENT

Regional Transportation Council

March 11, 2010

Carrie Reese

Transportation Department

Air Quality Planning and Operations

State Implementation Plan Commitments

Voluntary Mobile Emissions Reduction Program (VMEP) NCTCOG Commitments

Aviation Efficiencies

Clean Vehicle Program

Diesel Idle Reduction Program

Employee Trip Reduction

Locally Enforced Idling Restrictions

Public Agency Policy for Construction Equipment

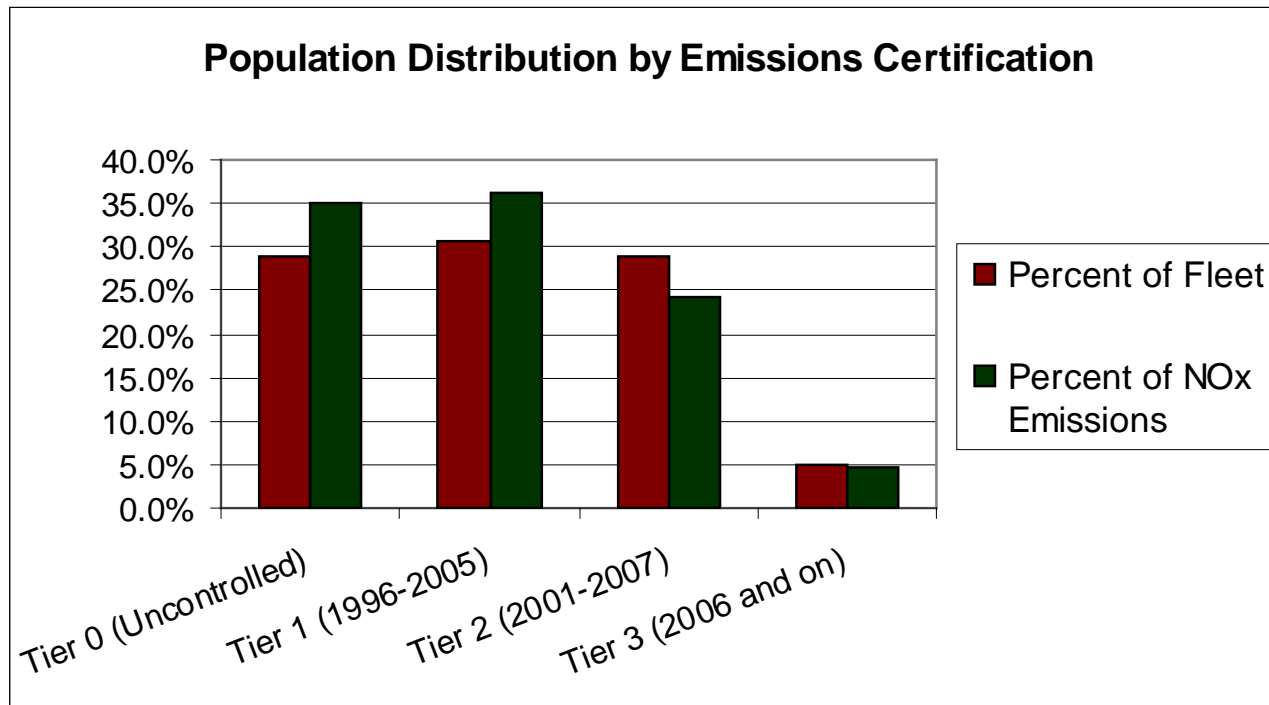
SmartWay Transport Demonstration Project

Rationale

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

Existing Fleet Composition

Approximately 60% Uncontrolled and Tier 1 Engines



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

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**

Draft Specification

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

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

Draft Specification

Operational Requirements

Fuel Usage

Restriction on Idling

Staging/Minimizing Use of Equipment

Reporting to Contracting Entity

Inventory of Equipment Used On-Site

Exemption Claims and Reports

NCTCOG-Provided Templates

Enforcement

Standard Contracting Procedures

Option for Penalties/Fines

May be Modified for Entities With Best-Value Bid Structure

Industry Funding Opportunities

Program	Timeframe	Funds Available
Heavy-Duty Vehicle and Equipment Grant Program	Ongoing	Up to \$10.7 Million
TERP Rebate Grant Program	Upcoming - Spring 2010	Up to \$10 Million
TERP Emission Reduction Incentive Grant Program	Upcoming - May 2010	Up to Approximately \$70-80 Million
<i>If Awarded: North Central Texas Clean Construction Project</i>	<i>Anticipated Late 2010</i>	<i>Up to \$1.5 Million</i>

Proposed Demonstration Project

Specification

Additional Elements

Stationary Engines Included

Green Cement Provisions Not Included

Process

Local Governments Incorporate Into Bid Process

-Bid Alternate

-Questionnaire

**Contractors for Recently Awarded Projects Submit
Mock Bids**

Timeframe

One Year Beginning Spring 2010

Policy Implementation Schedule

Milestone	Tentative Date
STTC Action	February 26, 2010
RTC Action	March 11, 2010
Implementation Workshop	March/April 2010
Begin Demonstration Project	Spring 2010 (1 year)
Solicit Comments to Determine Next Steps	Spring 2010-Spring 2011

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2009 Nitrogen Oxide (NOx) Emissions

On-Road and Non-Road Emission Sources in Tons per Day (tpd)

Light-Duty Gasoline	86.79	Diesel School Buses	2.65
Diesel 18-Wheelers	69.39	Ground Support Equipment	2.50
Construction	39.94	Oil and Gas	2.44
Locomotives	22.08	Diesel Transit Buses	2.15
Aircraft	17.31	Commercial Lawn+Garden	1.71
Other Heavy Duty Diesel	14.68	Residential Lawn+Garden	1.04
Public Construction	10.70*	Light-Duty Diesel	0.46
Industrial	10.36	Recreational Boating	0.25
Heavy-Duty Gasoline	7.88	Recreational Equipment	0.21
Commercial	5.93	RR Maintenance	0.12
Agriculture	3.06	Logging	0.05

Eight-Hour Ozone State Implementation Plan

Control Strategy Emissions Reductions in Tons per Day (tpd)

Aviation Efficiencies	0.95 tpd
HOV/Managed Lane Projects	0.79 tpd
Locally Enforced Idling Restriction	0.62 tpd
Employee Trip Reduction	0.43 tpd
Diesel Freight Idling Reduction	0.33 tpd
Rail Transit Projects	0.28 tpd
Clean Vehicle	0.24 tpd
Grade Separation Projects	0.18 tpd
Intersection Improvement Projects	0.15 tpd
Vanpool Projects	0.08 tpd
Policy for Construction Equipment	0.06 tpd
Park and Ride Improvement Projects	0.04 tpd
Bicycle/Pedestrian Projects	0.01 tpd
SmartWay Transport Demonstration Project	0.002 tpd