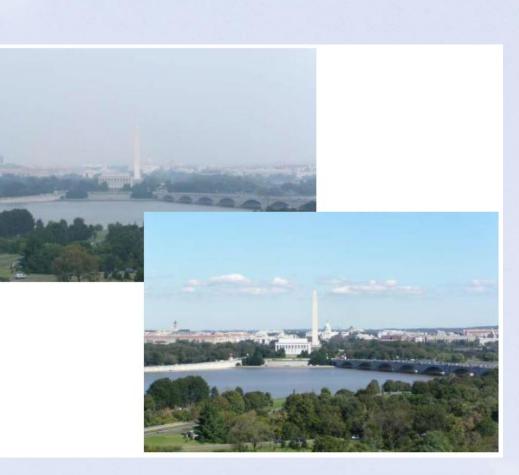
Item 3

PM2.5 Maintenance Plan OVERVIEW

Joan Rohlfs Environmental Resources Program Director MWCOG 3/28/12

Air Pollution: Fine Particles

- Chemical, particulate matter or aerosol that modifies the natural characteristics of the atmosphere
- Created locally by emissions from coal combustion, cars & trucks, road construction
- Causes respiratory problems
- Impairs visibility

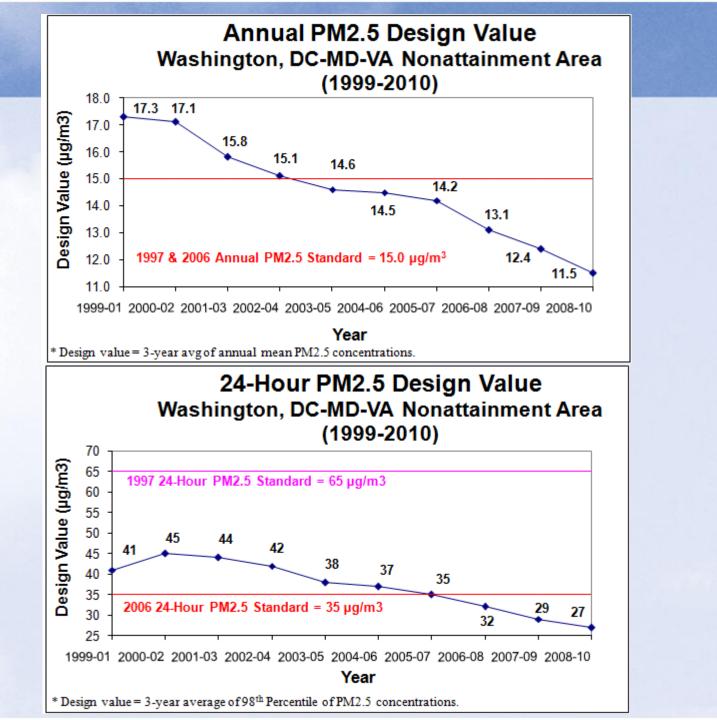


Steps to Official "Attainment" Status

- 2005 Air quality monitors indicate that average annual concentrations are below the national health standard
- 2008 MWAQC, States submitted PM2.5 plan (SIP) showing attainment by 2009
- 2009 EPA issued a "Clean Data Determination
- 2012 -States request redesignation to attainment and submit a plan to maintain low levels of fine particle pollution for 10 years into future

Benefits of Attainment

- Official recognition and public awareness:
 - Fine particle pollution (PM_{2.5}) levels are lower in the metropolitan Washington area than the level required by the federal health standard
 - Control measures such as cleaner engines, controls on power plants, diesel retrofit measures are working.
- Reduces a significant obstacle for locating new cleaner generation capacity (economic development)



Maintenance Plan

Emissions Inventories

- Continued emissions reduction in future

Mobile Budgets

 Mobile emissions ceiling for transportation conformity purposes

Contingency Measures

 Emissions controls to be implemented if region exceeds PM2.5 standard in future

Emissions Inventories: 2002, 2007, 2017, 2025

Point Source (Electric Generating Units & Non-EGU)



Area Source (residential wood burning, road dust)



Nonroad Source (lawn mowers, marine engine, airport, railroad)



Onroad Source (motor vehicles)

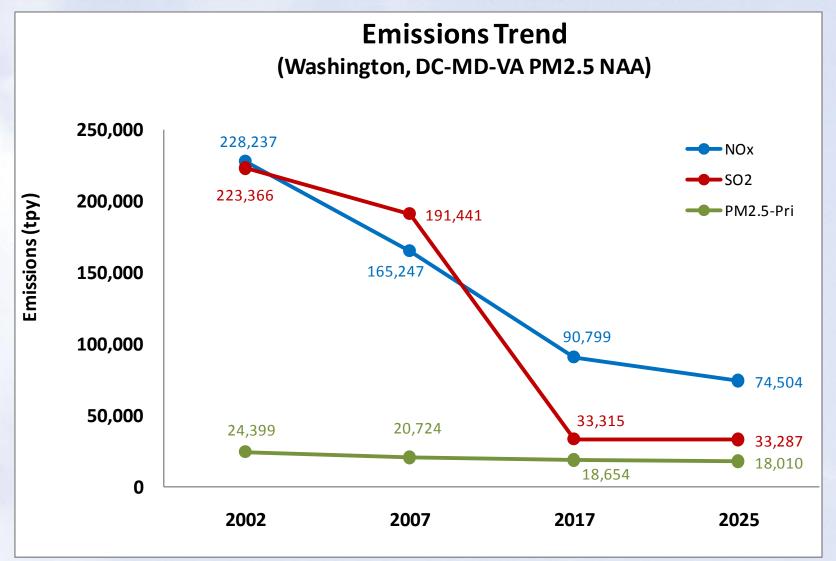
Redesignation Request & Maintenance Plan Timeframe

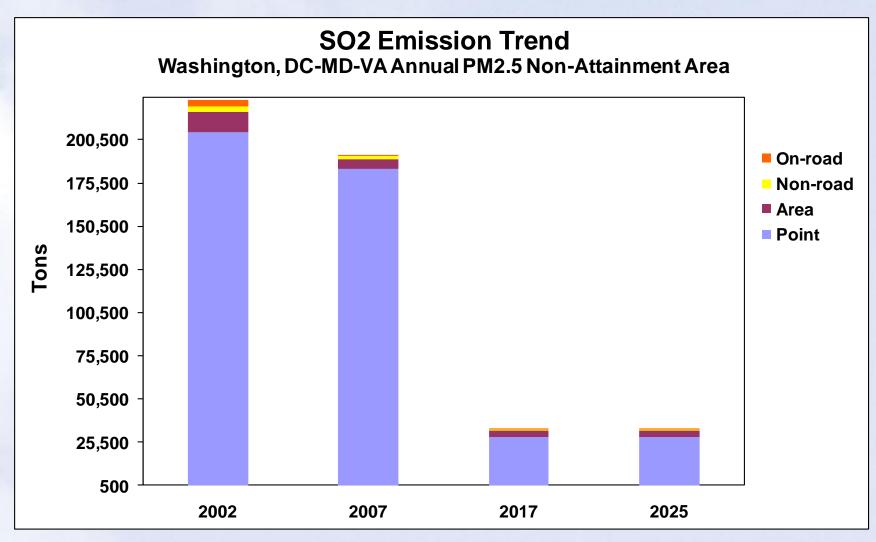


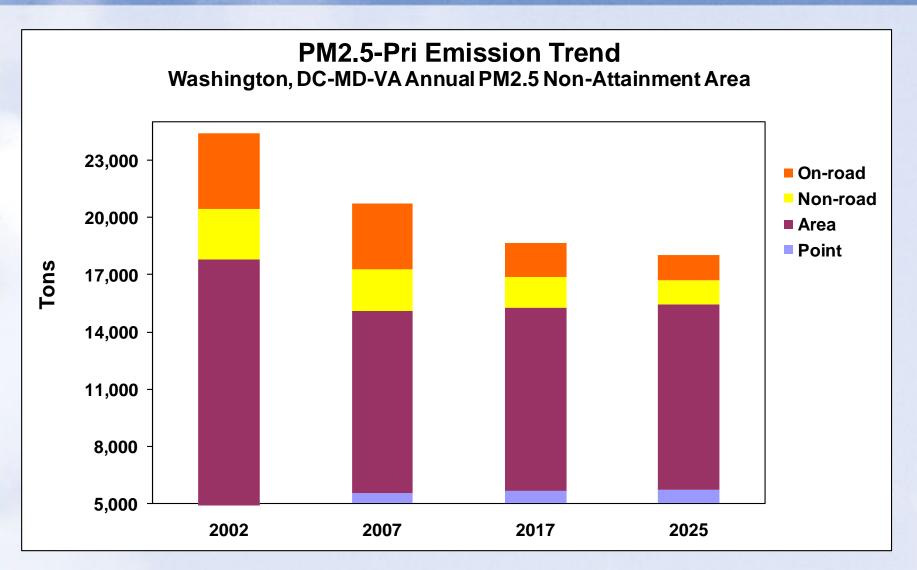
Redesignation Request

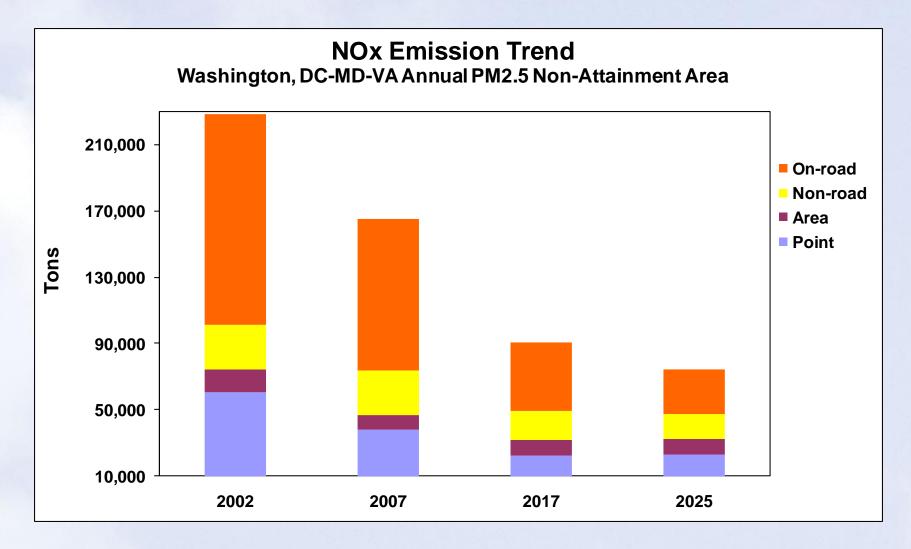
Maintenance Plan

Emissions Trends, NOx, SO2, PM2.5 2007-2025









PM2.5 Maintenance Plan

– NOx, SO2, & PM2.5-Primary emissions

- 2002 > 2007
 - Reduced emission satisfies the criterion for Redesignation Request
- 2007 > 2017
- 2007 > 2025
 - Downward trend demonstrates continued maintenance of 1997 annual PM2.5 standard (15 ug/m3)

How Do Transportation Plans Relate to the SIP?

• The SIP sets the *mobile budget*, the maximum allowable emissions from vehicles.

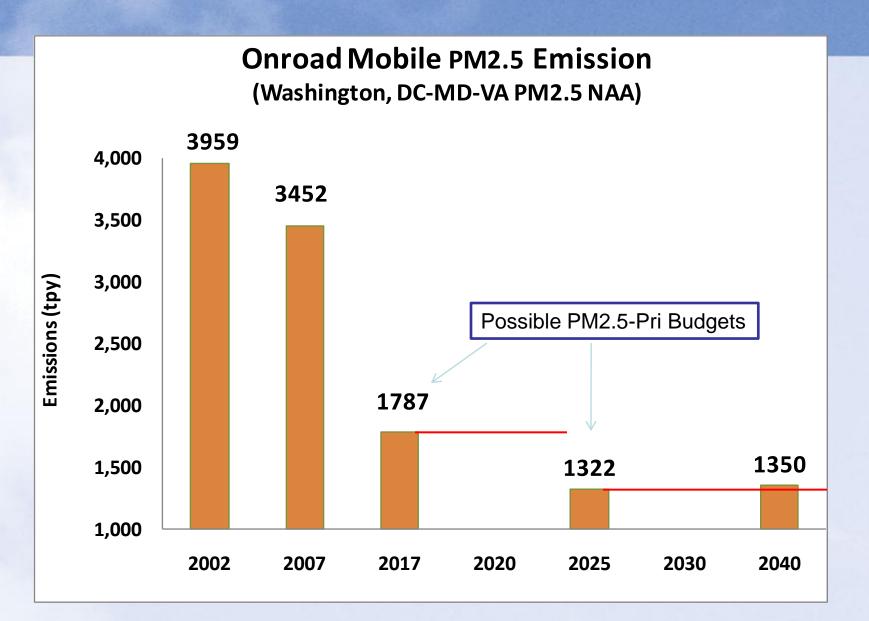
• TPB must ensure that the regional transportation plan does not result in emissions above this level.

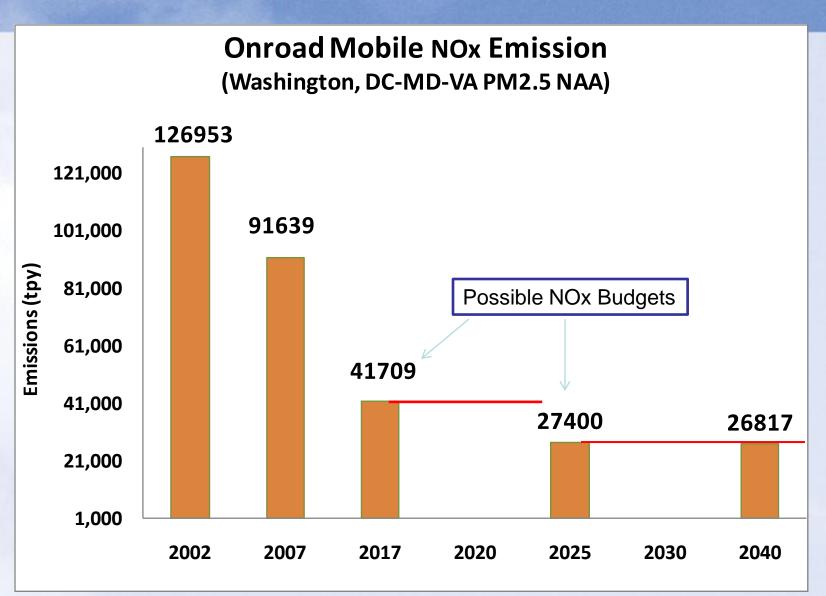
Maintenance Plan/SIP



Maintenance Plan: Mobile Budgets

- The Maintenance Plan sets two mobile emissions ceilings ("budgets") for future years (NOx and PM2.5)
- Clean Air Act requires transportation sector emissions can not go over the ceiling (conformity assessment)
- Transportation sector emissions are estimated whenever a new TIP is proposed







- Protect public health by reducing emissions
- Need to reduce NO_x emissions to lower ozone and fine particle pollution
- New, tougher ozone and fine particle standards in the next year
- Establish mobile budgets (emissions limits) that will conform to the plan and allow new transportation improvements to move ahead

PM2.5 Schedule to Redesignation

