PM2.5 Redesignation Request and Maintenance Plan for Metropolitan Washington, DC-MD-VA

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PM2.5 Designation

- 1997 EPA set standard at
 - $-15.0 \text{ ug/m}^3 \text{ (annual)}$
 - 65 ug/m³ (24 hour average)
- 2006 EPA reduced 24 hour standard to 35 ug/m³
- EPA designated the Washington, DC-MD-VA as "nonattainment" for the standard in 2005
- Washington, DC-MD-VA region submitted PM2.5
 SIP in 2007

PM _{2.5} SIP Planning (submitted to EPA, 2008)



Clean Data

- Federal Reference Monitors (FRM) demonstrate compliance with 35 ug/m³ (daily standard)
- Regional monitors demonstrate compliance with annual 15 ug/m³ since 2005

24-hour Design Value is 27 ug/m³
Annual Design Value is 11.5 ug/m³

(based on 2008-2010 data)

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 SIP showing attainment by 2009.
- EPA issues a "Clean Data Determination," 2009
- 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 generation capacity (economic development)

Redesignation Request

- MWAQC/States must request redesignation
- Redesignation
 Request must
 demonstrate
 emissions decline
 from 2002-2007.

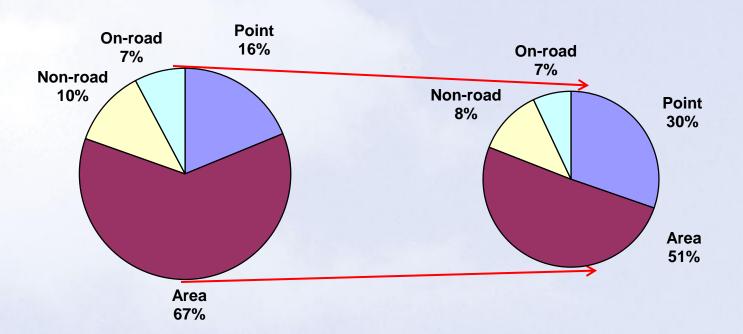


SIP Clean Data Designation

PM2.5 Emissions, 2002-2007

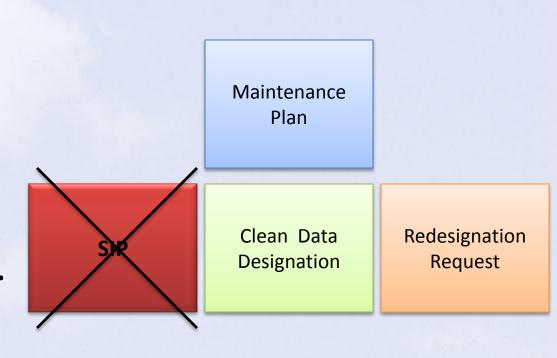
PM2.5 Base Year 2002 Emissions = 22,145 tpy

PM2.5 Attainment Year 2007 Emissions = 18,298 tpy



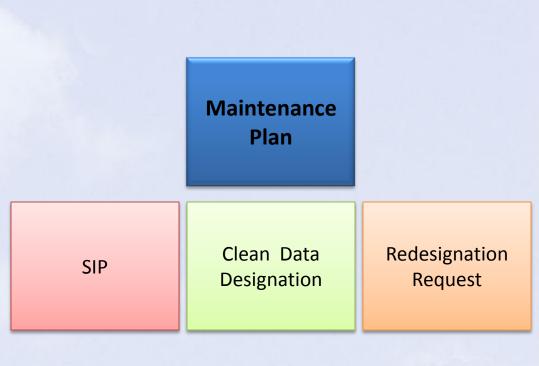
Withdraw PM_{2.5} SIP

States will withdraw the PM2.5 SIP in early 2012 before submitting the Redesignation Request and Maintenance Plan.



PM_{2.5} Maintenance Plan

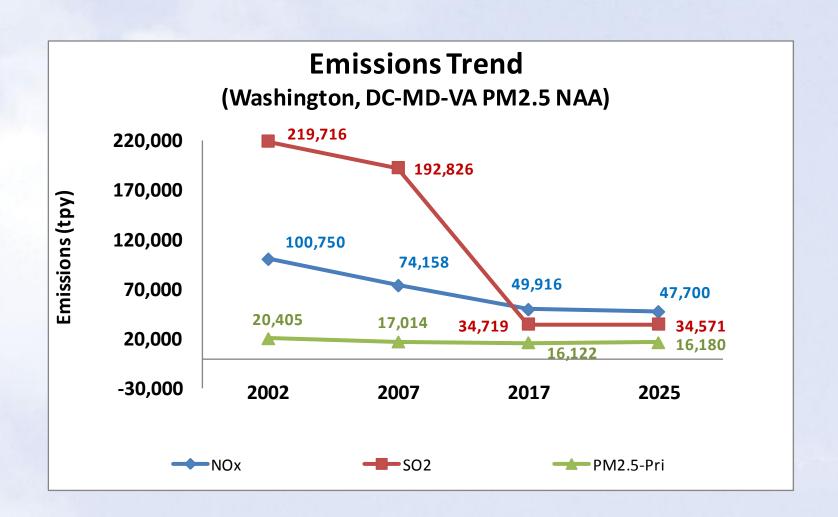
MWAQC/States
must prepare a plan
to maintain low
PM2.5 levels for 10
years beyond EPA
redesignation.

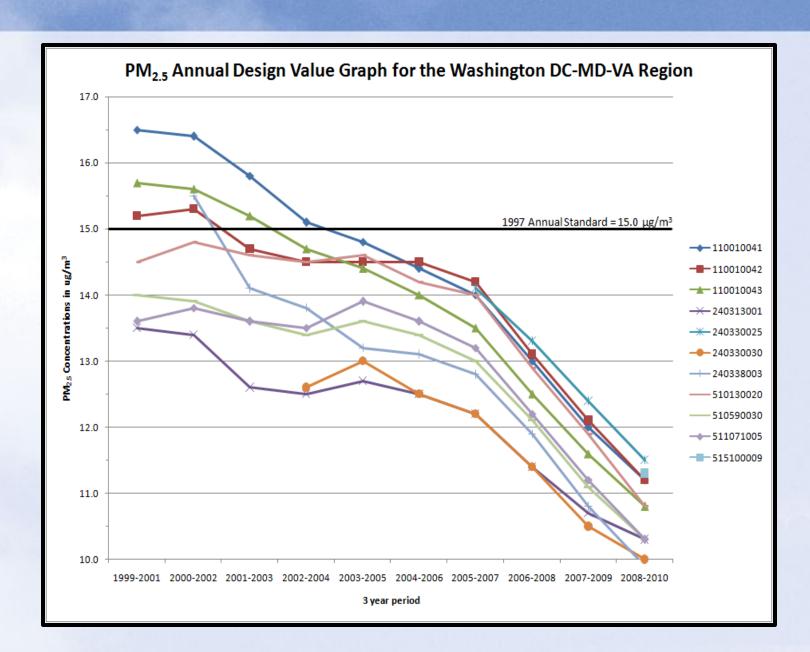


PM _{2.5} Redesignation and Maintenance timeline



Maintenance Plan





Request & Maintenance Plan

Redesignation Request

Base Year 2002, Attainment Year 2007

Demonstrate decline in PM2.5 from 2002-2007

Maintenance Plan

Demonstrate compliance ten years into future 2007, 2017, 2025

Contingency triggers, Contingency measures

Recommended Action

- MWAQC vote to approve that MWAQC and States request redesignation for PM2.5 standard
- MWAQC vote to request that States withdraw the PM2.5 SIP at an appropriate time (Jan-Feb 2012)