

# Status of PM<sub>2.5</sub> Redesignation & Maintenance Plan

(Washington DC-MD-VA PM<sub>2.5</sub> Nonattainment Area)

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# Introduction

- **Washington region decided to develop for the 1997 annual PM<sub>2.5</sub> NAAQS (15 ug/m<sup>3</sup>)**
  - **PM<sub>2.5</sub> Redesignation Request Document, and**
  - **PM<sub>2.5</sub> Maintenance Plan**
- **Submission of PM<sub>2.5</sub> Redesignation Request – Needed to change the Washington region’s status officially from “Nonattainment” to “Maintenance” for the 1997 annual PM<sub>2.5</sub> NAAQS.**
- **Submission of PM<sub>2.5</sub> Maintenance Plan - Needed for demonstrating continued maintenance until 10 years from EPA’s redesignation.**

# Components of Redesignation Request

- **Evidence of NAAQS Compliance**
- **Demonstrate NAAQS compliance due to emissions reduction from control measures between 2002 (nonattainment year) & 2007 (attainment year)**
- **Emissions inventories – 2002 & 2007**

# Components of Maintenance Plan

- **Demonstrate continued maintenance of NAAQS**
  - Emissions reduction - Base Year to Maintenance Year
- **Emissions inventories needed for**
  - Base Year (2007)
  - Interim Year (2017)
  - Maintenance Year (2025)
- **Contingency measures – needed in case of NAAQS violation after redesignation**

# Status of Emissions Inventories - 1

- **Milestone Years**

- 2002, 2007, 2017, 2025

- **Inventories needed**

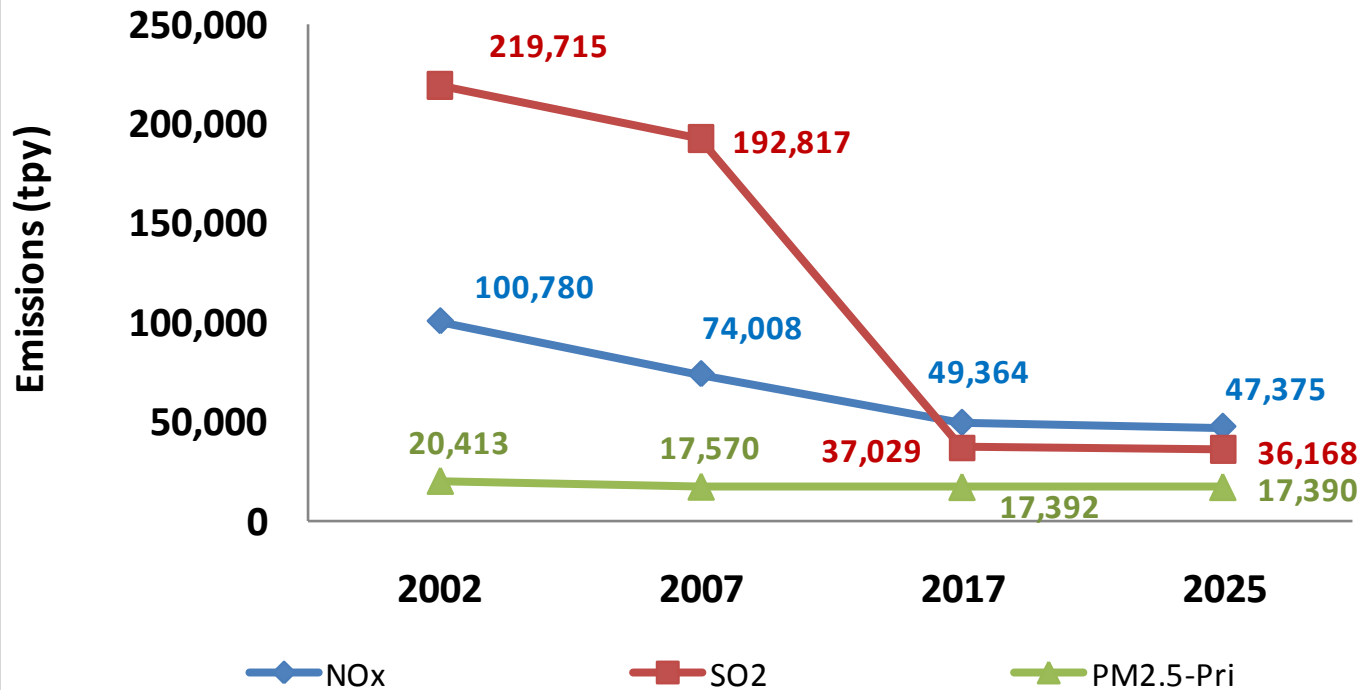
- Point Source (EGU & NEGU)
  - EGU = Electric Generating Unit, NEGU = Non Electric Generating Unit
- Area Source (Open burning, residential wood burning, dust (unpaved road), etc.)
- Nonroad Source (Lawn mowers, agricultural & construction equipments, aircraft, locomotive, etc.)
- Onroad Source (Motor vehicles)

# Status of Emissions Inventories – 2

Source	2002	2007	2017	2025
Point	Final	Final	Draft	Draft
Area	Draft	Draft	Draft	Draft
Nonroad	Draft	Final	Final	Final
Onroad *				


\* Onroad emissions (MOVES based) are scheduled to be developed by February 2012.

## Emissions Trend (Washington, DC-MD-VA PM2.5 NAA)



**MOVES emissions are not included.  
2002 Area and a few nonroad source emissions need revision.**

# Conclusion

- **NO<sub>x</sub>, SO<sub>2</sub>, & PM<sub>2.5</sub>-Pri emissions**
  - 2002 – 2007
  - 2007 – 2017
  - 2007 - 2025
- **Downward emissions trend**
  - 2002 – 2007: Satisfies the criterion for Redesignation Request
  - 2007 – 2017 & 2007 – 2025: Continued maintenance of 1997 annual PM<sub>2.5</sub> standard (15 ug/m<sup>3</sup>)
- **A number of inventories are still draft.**
- **Onroad Mobile Source – MOVES emissions need to be developed to complete the picture.**
- **Contingency measures to be decided**