

Proposed New PM NAAQS

Washington, DC Region Attainment Status

MWAQC TAC

February 10, 2006

Sunil Kumar



Proposed PM standards

- □ EPA proposed new 24-hour PM_{2.5} standard January 17, 2006
- □ Proposed standard 35 µg/m3; Current standard 65 µg/m3
- □ EPA retained current Annual PM_{2.5} standard at 15 µg/m3
- □ EPA announced a new PM_{10-2.5} standard 70 µg/m³
- Comments:
 - Alternative levels of 24-hour PM_{2.5} standard (25 65 µg/m3)
 - Annual PM_{2.5} standard (down to 12 μg/m3)
 - Alternative approaches for selecting the standard levels
 - Comment period: April 17, 2006



Comparison: Proposed & Current 24-Hour Average PM2.5 standards

- □ Proposed 24-hour average PM2.5 standard 35 µg/m3
- □ Current 24-hour average PM2.5 standard 65 µg/m3

- Exceedance of 24-hour average PM2.5 standard:
 - Design value (DV) for 24-hour average PM2.5 should not exceed the standard. DV is defined as the average of 98th percentile values of 24-hour average PM2.5 levels for any consecutive three year period (e.g., 2002-2004) in the region.



24-Hour Average PM2.5 Design Value (2002-04) in Washington, DC Region

98 th Percentile of 24-Hour Avg. PM 2.5 Levels (FRM) in Washington, DC Region				
LOCATION	2002	2003	2004	3-year Avg.
LOUDOUN CO., VA	32.3	35.3	34.2	33.9
Broad Run High School				
FAIRFAX CO., VA	37.9	32.6	35.3	35.3
Lee District Park				
ARLINGTON CO., VA	37.1	39.2	35.7	37.3
Aurora Hills Visitors Center				
FAIRFAX CO., VA	34.7	32.9	33.7	33.8
McLean Governmental Center				
FAIRFAX CO., VA	35	36.7		
Mason Governmental Center				
FAIRFAX CO., VA			34	
Annandale				
Rockville, MD	36.3	32.1	31.7	33.4
PG Eq. Center, MD	47.2	31.5	37.7	38.8
River Terrace, Washington, DC	56	39	42	45.7
Park Services Office, Ohio Dr., Washington,				
DC	36	39	36	37.0
McMillian, Washington, DC	41	35	35	37.0
Washington, DC PM2.5 NAA				45.7



Conclusions

- 24-hour average PM2.5 Design Value (2002-04) for Washington, DC region = 45.7 µg/m3
- Since the DV > 35 µg/m³, Washington, DC region was clearly in violation of the new proposed 24-hour PM2.5 standard during the period (2002-04).