



# National Ambient Air Quality Standards (NAAQS) for Particulate Matter (PM) Schedule and Overview of Policy Assessment (Primary Standards)



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# Current Schedule

Final Integrated Science Assessment (ISA)	December 2009
2 <sup>nd</sup> Draft Urban-Focused Visibility Assessment (UFVA)	January 2010
2 <sup>nd</sup> Draft Risk Assessment (RA)	February 2010
1 <sup>st</sup> Draft Policy Assessment (PA)	March 2010
CASAC and public review of 2 <sup>nd</sup> draft RA and UFVA	March 10 -11, 2010
CASAC and public review of 1 <sup>st</sup> draft PA	April 8-9, 2010
Final RA and Final UFVA	April 2010
2 <sup>nd</sup> draft PA	May 2010
CASAC and public review of 2 <sup>nd</sup> draft PA	June 2010
Final PA	July 2010
Proposed Rule	November 2010
Final Rule	July 2011

For additional information, see [http://www.epa.gov/ttn/naaqs/standards/pm/s\\_pm\\_index.html](http://www.epa.gov/ttn/naaqs/standards/pm/s_pm_index.html)



## Chapter 2 - Primary Standards for Fine Particles Adequacy of Current Standards

*Does the currently available scientific evidence and risk-based information, as reflected in the ISA and second draft RA, support or call into question the adequacy of the protection afforded by the current suite of fine particle standards?*

- Evidence-based considerations
  - Newly available evidence of associations
  - Susceptible populations
  - Air quality data from epidemiological studies
- Risk-based considerations
  - Nature, magnitude, and uncertainties of long- and short-term exposure related-risks
  - Roles of annual and 24-hour standards
  - Representativeness of urban study areas



## Chapter 2 - Primary Standards for Fine Particles Alternative Standards

*What alternative suites of fine particle standards are supported by the currently available scientific evidence and risk-based information, as reflected in the ISA and 2<sup>nd</sup> draft RA?*

- Indicator
  - PM<sub>2.5</sub> mass-based indicator
  - Ultrafine particles
  - Components
- Averaging Times
  - Annual and 24-hour averaging times
  - Subdaily
  - Seasonal



## Chapter 2 - Primary Standards for Fine Particles Alternative Standards (cont.)

- Forms - additional air quality analyses planned to inform 2<sup>nd</sup> draft PA
  - Annual standard - discuss in conjunction with alternative levels
  - 24-hour standard - consider current form (98<sup>th</sup> percentile value)
- Levels
  - Evidence-based considerations
    - Air quality data from epidemiological studies
    - Susceptible populations
  - Risk-based considerations
    - Nature, magnitude, and uncertainties of long- and short-term exposure related risks
    - Roles of annual and 24-hour standards
  - Integration



## Chapter 3 - Primary Standard for Thoracic Coarse Particles: Adequacy of Current Standard

*Does the currently available scientific evidence, as reflected in the ISA, support or call into question the appropriateness of maintaining a standard to protect against effects associated with exposure to thoracic coarse particles and the adequacy of the protection afforded by the current 24-hour  $PM_{10}$  standard against those effects?*

- Newly available evidence of associations
- Susceptible populations
- Air quality data ( $PM_{10}$ ) from epidemiological studies
- Important uncertainties



## Chapter 3 - Primary Standards for Thoracic Coarse Particles: Alternative Standards

*What alternative standards to protect against exposures to  $PM_{10-25}$  could be supported by the currently available scientific evidence, as reflected in the ISA?*

- Indicator
  - Protection for all thoracic coarse particles
  - Urban and non-urban environments
- Averaging Time
  - Continued use of 24-hour averaging time
- Level and Form
  - Additional analyses planned to inform 2<sup>nd</sup> draft PA