



Montana Petroleum Association Permitting & Modeling

Vickie Walsh
Montana Department of Environmental Quality
May 19, 2011

Background

- ▶ Department issues air quality permits
- ▶ Sources obligated to demonstrate compliance with the NAAQS in permit application
- ▶ Department must concur with NAAQS compliance determination prior to issuance of an air quality permit.

Permit Modeling

- ▶ Qualitative NAAQS demonstration
- ▶ Quantitative (modeling) NAAQS demonstration
- ▶ Modeling thresholds establish by pollutant

New NAAQS

- ▶ Nitrogen Dioxide (NO_2)
 - New 1 hour standard – 100 ppb
- ▶ Sulfur Dioxide (SO_2)
 - New 1 hour standard – 75 ppb
- ▶ Particulate Matter – small ($\text{PM}_{2.5}$)
 - 24 hour standard – $35 \mu\text{g}/\text{m}^3$
 - Annual standard – $15.0 \mu\text{g}/\text{m}^3$

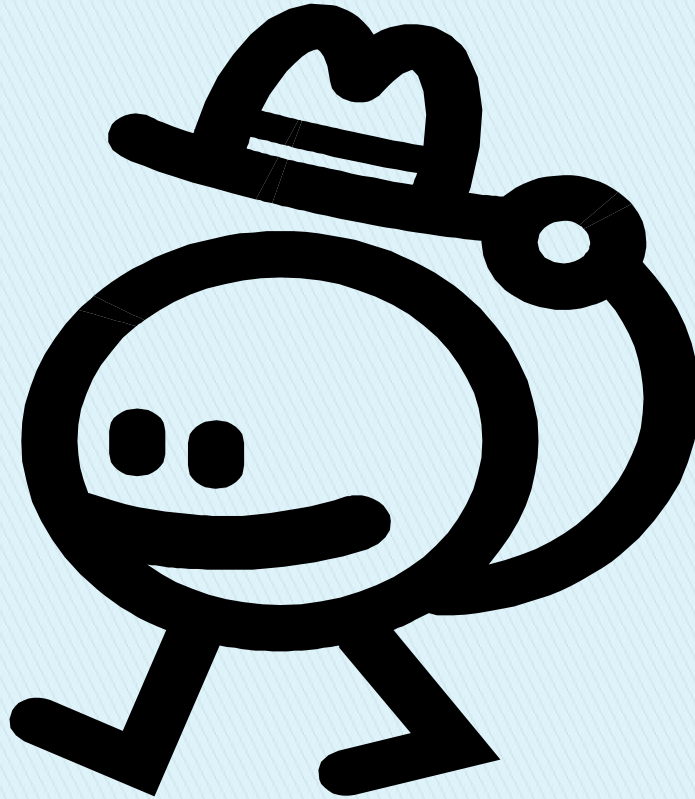
NO₂ and Modeling

- ▶ Department policy on minor sources
 - No modeling required for new sources unless the PTE is greater than 40 tpy
 - No modeling required for changes to existing sources unless the change itself has a PTE greater than 40 tpy
- ▶ Department policy on major sources
 - Follow EPA Guidance

PM_{2.5} and SO₂ and Modeling

- ▶ PM_{2.5}
 - Case-by-case modeling with other forms of PM
 - Background determined case-by-case

- ▶ SO₂
 - No actions have yet required review
 - Regional information – no real issues



Questions



Vickie Walsh
viwalsh@mt.gov
(406)444-9741