



Non-tailpipe Emissions: Regulatory Perspective

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EPA and Non-Tailpipe Emissions

- We are very engaged in reducing near-roadway emissions and exposures
 - Brake and tire wear are an increasingly important part of the near-roadway environment
- Brake and tire wear and road dust are considered along with other PM sources in the plans and measures to attain the PM National Ambient Air Quality Standard
 - EPA's motor vehicle emissions model (MOVES) estimates brake and tire wear PM emissions
- Brake and tire composition have been regulated under the Toxic Substances Control Act, but not under the Clean Air Act

EPA and Non-Tailpipe Emissions

- As we consider policies and measures to address non-tailpipe emissions and exposures, there are a number of areas we'd like to better understand
 - Emission rates
 - Chemical and physical properties of emissions
 - Chemical speciation and particle size distribution
 - Potential areas of high emission and/or exposure events
 - E.g., busy intersections, high-speed highway exits
 - Variability in materials currently being used and planned for future products
 - How changing materials impact emission rates and exposures
 - How brake and tire wear emissions can be reduced