

A proposed revision of AP-42 Section 13.2.1 “Paved Roads” is available for review and comment. A draft update of the supporting background report is also available for review and comment. The revisions to the section and background report primarily include a revision of the empirical equation used to estimate the dust emissions from the road. Editorial updates of the text and notes supporting the revised equations were made for consistency with the revised equation. This revision was made as a result of the addition of emissions tests at seven locations. Four of these test locations involved vehicles traveling at lower speeds than the current data base.

In the analysis of the test data, test run specific vehicle emissions (engine exhaust, tire wear and brake wear) were estimated using EPA’s MOBILE6 and MOVES models. The vehicle emissions for each test were subtracted from the measured emissions to estimate the emissions due only to vehicle travel on the paved roadway. As with past methods for developing the empirical equation, stepwise multiple non-linear regression was used to estimate the exponents associated with the available independent variables and the constant in the final equation. The exponents derived for the final equation were 0.98 for silt, 0.53 for vehicle weight and 0.16 for vehicle speed. In addition, the assignment of the PM<sub>2.5</sub>/PM<sub>10</sub> ration was reevaluated. Based upon the underlying data and support for this ratio, a value of 0.25 was selected.

Comments and recommendations for revision are requested prior to July 21, 2010. For more information contact Ron Myers ([myers.ron@epa.gov](mailto:myers.ron@epa.gov), (919) 541-5407).