Developing Motor Vehicle Emission Budgets for 2008 Ozone Redesignation

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Overview

- **General SIP Process**
  - Timeline

- **Transportation Conformity Budget**
  - Future year inventory
  - Growth methodology for mobile sources

**Heads up**
- Timeline for your review

**Your input needed**
- VMT and population growth to future years
General SIP Process

- Create SIP document with required parts like monitoring data, emissions, contingency measures and conformity
- Document must go through public notice and be approved by Missouri Air Conservation Commission (MACC) before submittal to EPA for its review/action
General SIP Process

Today: Consult on mobile details
June 1-30: Formal IACG review period
June 27: Begin formal public notice period
July 28: Public Hearing at MACC
Aug 4: Public notice period ends
Aug 25: Present for approval at MACC
Transportation Conformity Budget

- A number that will show the area continues to meet air quality goal of declining emissions from base year (2014) to future year (2030)
- Future year emission estimates benefit from consultation
Transportation Conformity Budget

• Future year mobile budget needs VMT and vehicle growth

• Proposing:
  – VMT growth from MoDOT
  – Vehicle population growth from FHWA
  – Vehicle age distribution unchanged from base to future year
• VMT growth:
  – Mike Teel with MoDOT provided 2009 to 2015 VMT growth rates for urban areas
  – The numbers vary from year to year, including the recession years and recent strong growth
  – Proposing to use median of 2013 to 2015 growth rates for all road types, 1.7%
  – FHWA travel monitoring data shows long term (1990-2014) growth of 1.7%
Transportation Conformity Budget

• Vehicle population growth:
  – FHWA Office of Highway Policy Information has monitored highway statistics, including vehicle populations (report VM-1)
  – 2009, 2011 and 2014 statewide population by vehicle type examined
  – Propose to use 2011 to 2014 percent change to get annual average growth (-2.9% cars, +4.8% trucks, -21.1% buses, +3.0% motorcycles)
Transportation Conformity Budget

- **Vehicle Age Distribution:**
  - EPA now provides a tool to project age distributions for future years in MOVES model
  - The tool is not required for use
  - As discussed in previous IACG meetings, documentation of the tool is not yet released, and it may show older, higher emitting fleets
  - Proposing to retain previous SIP budget method and use identical base and future year age distribution
Transportation Conformity Budget

- Once growth factors are reasonably agreed upon, will begin modeling runs for future years.
- Future year onroad vehicle emissions budget will depend on the combination of model output and other emission sectors (point, nonpoint/area, off road).
- Plan to have budget by June 1st for IACG review.

Comments?
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