

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

Transportation Conformity Budget

- 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?



Division of Environmental Quality Director: Leanne Tippett Mosby

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