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What is MOVES2010?

- State-of-the-art upgrade to EPA’s modeling tools for estimating emissions from vehicles
- Replaces the MOBILE6.2 model
Why is EPA replacing MOBILE6.2 with MOVES2010?

- CAA requires EPA to regularly update its mobile source emission models
- Represents the Agency’s most up-to-date assessment of on-road mobile emission sources
Can MOVES2010 be used for state implementation plans (SIP) and transportation conformity?

- MOVES2010 can be used to estimate air pollution emissions from cars, trucks, motorcycles, and buses.
- Best available tool for quantifying criteria pollutant and precursor emissions, as well as other emissions analyses of the transportation sector.
- EPA’s approved motor vehicle emission factor model for estimating:
  - VOCs, NOx, CO and direct PM (PM10 and PM2.5) and other pollutants.
When should MOVES2010 be used for SIP and transportation conformity analysis?

- Should be used as expeditiously as possible
- It is approved for SIP and transportation conformity analysis as of March 2, 2010.
- There is a 2-year grace period before MOVES2010 emissions model is required to be used in new regional emissions analyses for transportation conformity
- Grace period ends March 2, 2012
When should MOVES2010 be used for project-level transportation conformity hot-spot analyses?

- MOVES2010 has **not** yet been approved for project-level hot-spot analyses
- Draft Transportation Conformity Guidance for Quantitative Hot-spot Analyses in PM2.5 and PM10 Nonattainment and Maintenance Areas
  - Released on May 26, 2010
  - Comments due to EPA by July 19, 2010
  - Finalized late 2010
  - **2-year grace period** *(this will be a separate grace period from the SIP and transportation conformity grace period)*
Can MOVES2010 be used to estimate greenhouse gas emissions (GHG)?

- Currently the best available tool that EPA has for estimating GHG emissions
Can MOVES2010 be used to estimate mobile source air toxics (MSATs)?

- MOVES 2010 estimates emissions for the following MSATs:
  - benzene, 1,3-butadiene, formaldehyde, acetaldehyde, acrolein, naphthalene, ethanol and MTBE
- Best available tool for quantifying emissions
- EPA working to integrate additional MSATs into the MOVES modeling framework
- There are no SIP and transportation conformity requirements for air toxics
- MSAT are addressed as a part of the National Environmental Policy Act (NEPA) process
Why has EPA changed the name of its mobile source model from “MOBILE” to “MOVES”? 

- Motor Vehicle Emissions Simulator
- New approach to projecting mobile source emissions
- Not merely an upgrade of the previous MOBILE model
- Brand new software, designed from the ground-up
- Estimates emissions at a more detailed level
- MOVES 2010 is named to indicate the first year that the model maybe used in SIPs and conformity determinations
What has EPA done to prepare users for the release of MOVES2010?

- Draft MOVES2009 released in April 2009
- EPA and FHWA conducted 20 training sessions across the country
- Documents:
  - MOVES2010 User Guide
    - [www.epa.gov/otaq/models/moves/index.htm](http://www.epa.gov/otaq/models/moves/index.htm)
  - Policy Guidance on the Use of MOVES2010 for SIP Development, Transportation Conformity and Other Purposes
    - [www.epa.gov/otaq/models/moves/index.htm](http://www.epa.gov/otaq/models/moves/index.htm)
  - Technical Guidance on the Use of MOVES2010 for Emission Inventory Preparation in SIPs and Transportation Conformity
    - [www.epa.gov/otaq/models/moves/index.htm](http://www.epa.gov/otaq/models/moves/index.htm)
  - Transportation Conformity Guidance for Quantitative Hot-spot Analysis in PM2.5 and PM10 Nonattainment and Maintenance Areas
    - [www.epa.gov/otaq/stateresources/transconf/policy.htm](http://www.epa.gov/otaq/stateresources/transconf/policy.htm)
MOVES Schedule

- **January 2005**
  - MOVES2004 released
  - Includes energy consumption, greenhouse gases
- **May 2007**
  - MOVES Demo released
  - Basic structure of MOVES without criteria pollutant emission factors
- **April 2009**
  - Release of Draft MOVES2009
  - Adds draft criteria pollutant emission factors
MOVES Schedule (continued)

- **December 2009**
  - EPA released the final version of MOVES2010

- **March 2, 2010**
  - EPA announced the availability of MOVES2010 for SIPs and certain transportation conformity analyses
  - Started 2-year grace period for transportation conformity determinations
  - **Not** approved for project level transportation conformity hot-spot analyses

- **May 26, 2010**
  - Draft Transportation Conformity Guidance for Quantitative Hot-spot analyses in PM2.5 and PM10 Nonattainment and Maintenance Areas
  - Comments due to EPA by July 19, 2010
Contact Information

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Questions?