

MOVES Training and Guidance

MOVES Workshop
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MOVES



Update on MOVES Training, Outreach, and Guidance

- **Guidance**
- **Training**
 - Two day hands-on training
 - Webinars
 - Hot-spot guidance training
- **Outreach**
 - MOVES inbox
 - FAQ

Guidance Documents

- **MOVES SIP and Conformity Policy Guidance**
- **MOVES Technical Guidance**
- **Quantitative PM Hotspot Guidance**
- **MOVES Project-Level CO Guidance**

MOVES SIP and Conformity Policy Guidance

- **Policy Guidance on the Use of MOVES2010 for State Implementation Plan Development, Transportation Conformity, and Other Purposes**
 - Published December 2009
www.epa.gov/otaq/models/moves/420b09046.pdf
 - Provides detailed guidance on when MOVES2010 should be used in SIPs and transportation conformity analyses
- **MOVES2010a Questions and Answers**
 - Published August 2010
www.epa.gov/otaq/models/moves/MOVES2010a/420f10050.pdf
 - Describes how SIP and Conformity Policy applies to MOVES2010a

MOVES Technical Guidance

- **Technical Guidance on the Use of MOVES2010 for Emission Inventory Preparation in State Implementation Plans and Transportation Conformity**
 - Originally published December 2009, updated April 2010
www.epa.gov/otaq/models/moves/420b10023.pdf
 - Provides guidance on appropriate inputs for MOVES2010 in SIPs and regional conformity analyses
 - Guidance applies to MOVES2010a as well

Quantitative PM Hotspot Guidance

- **Transportation Conformity Guidance for Quantitative Hot-spot Analyses in PM_{2.5} and PM₁₀ Nonattainment and Maintenance Areas**
 - Published December 2010
www.epa.gov/otaq/stateresources/transconf/policy/420b10040.pdf
 - To be used by state and local agencies to conduct quantitative PM “hot-spot analyses” for new highway and transit projects that involve significant diesel emissions
 - Describes how to estimate project emissions using MOVES
 - Also describes how to use air quality models for PM hotspot analysis and other components of analysis

MOVES Project-Level CO Guidance

- **Using MOVES in Project-Level Carbon Monoxide Analyses**
 - Published December 2010
www.epa.gov/otaq/stateresources/transconf/policy/420b10041.pdf
 - Describes how to use the MOVES to estimate CO emissions from transportation projects
 - Can be applied when using MOVES to complete any project-level quantitative CO analysis

MOVES 2-Day Training Course

- **Original goals in creating 2-day training course**
 - Provide a complete hands-on introduction to using MOVES for SIPs and regional conformity analyses
 - Start training early in order to give states a head-start on next round of SIPs
 - Keep training short enough to conserve federal, state, and local travel dollars
 - Combine training staff and resources with FHWA Resource Center
 - Use it as an opportunity to get feedback on MOVES

Draft MOVES2009 training

- **Developed training materials and schedule with FHWA Resource Center staff**
- **Designed as a head-start for state and local agencies before release of MOVES2010**
- **EPA and FHWA staff combined to give 20 sessions at locations around the country**
 - Class sizes ranged from 25 to 60; well over 600 people attended
 - Three sessions were abbreviated one-day versions of the course

What we learned from Draft MOVES2009 training

- Overall, training was well-received and users gave positive feedback
- User and course instructor feedback led to improvements in the MOVES interface and the creation of MOBILE to MOVES data converters
- Need to limit course size – 40-60 was too many for a hands-on course
- One-day version of the course is too short
- Need to adjust course material to give more time for county scale and county data manager training

Development of MOVES2010 Two-Day Course

- **Complete revision of course materials**
 - Updated to incorporate model improvements and guidance
 - Added training on use of data converters to change MOBILE inputs to MOVES format
 - Added new section on the use of MOVES in emission rates mode
 - Deleted section on using MOVES in national scale
 - Deleted most of introductory material comparing MOVES to MOBILE
 - Included short introduction to project-scale analysis

Presentation of MOVES2010 Two-Day Course

- Presented in 16 locations in 2010, 5 more so far in 2011
 - Plans for about 5 more classes this fiscal year
- Limited class size to 30, almost all classes have been full
 - Over 600 participants have taken course
- No longer doing abbreviated 1-day version

What's Next for Two-Day Course?

- Working on minor updates to the course
- Need input on continuing demand for the course

MOVES Webinars

- **Conducted two MOVES webinars during fall of 2010**
- **Introduction to MOVES**
 - How MOVES works and comparison to MOBILE6.2
 - Replaces introductory material removed from MOVES 2-day course
- **Using MOVES in batch mode**
 - Technical “how to” presentation
- **Slides from both webinars are available on the MOVES web site**

Quantitative PM Hot-Spot Course

- **New 3-day course that covers EPA's Quantitative PM Hotspot Analysis Conformity Guidance**
- **One day on using MOVES at the project level for PM hotspot analysis**
 - Much more detail on project level than in 2-day course
 - Includes a very detailed example
- **Remaining 2 days cover use of air quality dispersion models to determine PM concentrations based on MOVES output and other factors**
- **Currently determining dates and locations**
 - www.epa.gov/otaq/stateresources/transconf/training.htm

Status of PM Hotspot Course

- Draft course was presented to EPA and DOT staff in May
- Making final edits to course material
- Currently scheduling course dates and locations
 - Will be posted at:
www.epa.gov/otaq/stateresources/transconf/training.htm

MOVES Inbox

- **Use one e-mail address for all mobile source emissions modeling questions**
 - mobile@epa.gov
- **Have responded to about 1700 MOVES questions since release of MOVES2010**
- **Difficult to keep up with questions**
 - Many require us to try to replicate user results to determine if the user is making a mistake
 - Users can help by sending in all details of runs (RunSpec, input files, output files) with question

Frequently Asked Questions (FAQ)

- Recently added a Frequently Asked Questions section to the MOVES web page
- Taking questions and answers from Inbox, editing them to apply to a more general range of circumstances, and posting them on the FAQ
- Currently have 65 questions posted
 - Sorted by topic
- Will continue to keep adding questions
- Check the FAQ first – your question may have been covered there