US ERA ARCHIVE DOCUMENT

Composite Exhaust Emissions

- FTP is the basis for MOBILE5 exhaust emission rates
- Uses the LA4 driving cycle
- * Includes two engine starts (one hot, one cold)

Proposed MOBILE6 Structure

- Engine starts split from running emissions
- Running emissions based on LA4 (without engine starts)
- Start emissions based on "cold" start (12 hour soak)
- * Hot start emissions calculated from the basic start emission rates based on soak time

FTP Weighting

- The FTP assumes two weighted LA4 trips
 - One "cold" start trip after a 12 hour soak
 - One "hot" start trip after a 10 minute soak
- "Cold" trip is weighted 43%
- * "Hot" trip is weighted 57%

Hot Start Emissions

- * Hot start emissions (after a 10 minute soak) calculated from the basic start emissions
- * Hot start emissions (grams) divided by the LA4 trip length (7.5 miles) to give grams per mile
- Weighted by 57%
- Added to the Running LA4 emissions

Cold Start Emissions

- Same as basic engine start emissions
- Cold start emissions (grams) divided by the LA4 trip length (7.5 miles) to give grams per mile
- Weighted by 43%
- Added to the Running LA4 & Hot start emissions

MOBILE6 Weighting

- Starts based on a soak time distribution
- Running LA4 emissions adjusted for facility type and average speed
- User options for local activity data