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)

DRAFT

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

DRAFT

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
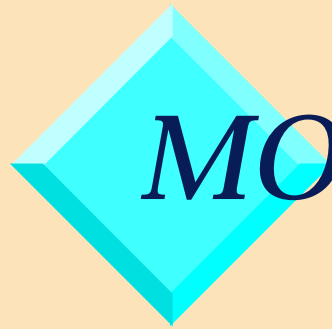- ❖ "Cold" trip is weighted 43%
- ❖ "Hot" trip is weighted 57%

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

DRAFT

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

5

DRAFT

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

DRAFT