OFICI - DETERIORATION FACTORS

- Submit the durability plan to ARB prior to conducting any durability tests
- Durability testing is required to calculate the deterioration factor (DF) for each engine family
- Within each engine family, manufacturers may choose the worst case model for durability test to minimize their testing burden
Worst case model is defined as the model with the highest emissions deterioration:
- Factors to consider include highest fueling rate, aftertreatment technology etc.
- “Sales-weighted” model is not the worst case model

DFs can be additive or multiplicative:
- Aftertreatment device – multiplicative
- No Aftertreatment device – additive
OFCI - DETERIORATION FACTORS

- For established emission control technology
  - Use minimum 1,000 hours of durability testing and extrapolate to useful life
- For new emission control technologies, such as DPFs and catalysts
  - Age the engine to at least half of the useful life and extrapolate the results to useful life
- Manufacturers may carry-across DFs to other engine families subject to ARB approval
- DF carry-over to subsequent model years is allowed, if no change