

Large Spark Ignition (LSI) Engine Working Group Kick-Off Meeting

On January 14, Air Resources Board (ARB) staff from the Zero Emission Vehicle Implementation Section and Alternative Strategies Section of the Mobile Source Control Division (MSCD) kicked off the LSI working group with a conference call.

MSCD staff first provided background information on the [State Implementation Plan](#), the [proposed LSI measures](#) it contains (beginning on page II-D-1), existing state and federal LSI regulations, and the development of a new LSI regulation incorporating the emission reductions committed to in the LSI SIP measures.

Then, following the [agenda](#), the approximately 40 conference call participants identified some of the technical issues and questions associated with various control strategies (see following table).

Topic	Issues and questions
Federal harmonization	<ul style="list-style-type: none"> • Areas of divergence from 2007 federal standard • Emission standard vs. evaporative standard
Retrofit control strategy	<ul style="list-style-type: none"> • Engine criteria (e.g., tune up, engine age, wear, duty cycle, hours of operation, compression testing) • Engineering (e.g., layout and fit, wiring, plumbing, calibration) • Life expectancy • Certification (appropriate test cycle), warranty and field testing procedures • Anticipated emission reductions
Zero and near-zero emission control strategy	<ul style="list-style-type: none"> • Certification test cycle (for near-zero) • More stringent voluntary emission standards (Blue Sky or tiered/bin approach) • Anticipated emission reductions • Evaluation of near-zero and zero (electric and fuel cell) state of the art
Fleet emission standard	<ul style="list-style-type: none"> • Applicability by size, SIC • Basis (hours per year, size of fleet) • Inventory number of lifts (leased vs. owned)
Non-prescriptive approach	<ul style="list-style-type: none"> • Incentive grants (Carl Moyer?), scrappage

MSCD staff then discussed the rulemaking time frame. Staff will complete their information gathering this spring and will present their initial findings and control proposals at a May workshop. The staff report will be available in late September, and the proposal will be taken before the Board in November.