

CALIFORNIA AIR RESOURCES BOARD

NOTICE OF PUBLIC MEETING TO UPDATE BOARD ON REDUCING EMISSIONS FROM SMALL OFF-ROAD ENGINES: OPERATOR EXPOSURE, HEALTH RISKS, AND PATHWAYS TO ZERO EMISSIONS

The California Air Resources Board (CARB or Board) will conduct a public meeting at the time and place noted below to consider an informational update on reducing emissions from small off-road engines.

DATE: November 15, 2018

TIME: 9:00 a.m.

LOCATION: California Environmental Protection Agency
California Air Resources Board
Byron Sher Auditorium
1001 I Street
Sacramento, California 95814

This item will be considered at a meeting of the Board, which will commence at 9:00 a.m., November 15, 2018, and may continue at 8:30 a.m., on November 16, 2018. Please consult the agenda for the meeting, which will be available at least ten days before November 15, 2018, to determine the day on which this item will be considered.

Background

Small off-road engines (SORE) are used extensively in the lawn and garden equipment industry. SORE are spark-ignited engines rated at or below 19 kilowatts (25 horsepower), and are an increasingly significant contributor to smog-forming emissions from mobile sources in California. Currently, the estimated 16.7 million SORE in California produce approximately 20 percent of the reactive organic gas emissions from mobile sources statewide. By 2031, without further controls, an estimated 19.7 million SORE will produce approximately 30 percent of mobile source reactive organic gas emissions. To achieve further significant reductions in statewide emissions, a shift to zero-emission equipment (ZEE) will be required.

In addition to SORE becoming a significant portion of mobile source emissions, operators of gasoline-powered lawn and garden equipment are often exposed to elevated levels of air pollutants emitted by these devices, due to their proximity to the exhaust. The potential environmental justice implications of these impacts are also a concern. To help determine the potential risks to operators from the exposure to air pollutants and noise from this equipment, CARB staff recently conducted a study and preliminary findings indicate elevated exposure to criteria and toxic air pollutants in the exhaust of some equipment; this may cause additional cancer risks and other adverse

health impacts. These findings show a need for additional study of volatile organic compound exposure levels and health effects on operators of this equipment, which staff intends to undertake in the future.

Proposed Action

CARB staff will present to the Board an update on potential approaches to converting California's SORE fleet to ZEE to reduce emissions. Staff's presentation will include information on incentive programs, case studies, compliance testing results for model year 2015-2017 engines, and the study of operator exposure.

Summaries of the compliance testing and exposure study may be obtained from CARB's Public Information Office, 1001 I Street, First Floor, Environmental Services Center, Sacramento, California, 95814, October 15, 2018. The summaries may also be obtained from CARB's website at <https://ww2.arb.ca.gov/our-work/programs/small-off-road-engines>.

Although this is not a regulatory item, CARB welcomes public comment on this informational item. Interested members of the public may present comments orally or in writing at the meeting and may provide comments by postal mail or by electronic submittal before the meeting. To be considered by the Board, written comments not physically submitted at the meeting, must be received **no later than 5:00 p.m., November 13, 2018**, and addressed to the following:

Postal mail: Clerk of the Board, California Air Resources Board
1001 I Street, Sacramento, California 95814

Electronic submittal: <http://www.arb.ca.gov/lispub/comm/bclist.php>

Please note that under the California Public Records Act (Government Code section 6250 et seq.), your written and oral comments, attachments, and associated contact information (e.g., your address, phone, email, etc.) become part of the public record and can be released to the public upon request.

CARB requests that written statements on this item be filed at least ten days prior to the meeting so that CARB staff and Board members have additional time to consider each comment. Further inquiries regarding this matter should be directed to Angus MacPherson, Air Resources Supervisor I, Testing and Certification Section, at (916) 445-4686 or Dorothy Fibiger, Air Resources Engineer, Testing and Certification Section, at (916) 324-8426.

SPECIAL ACCOMMODATION REQUEST

Consistent with California Government Code Section 7296.2, special accommodation or language needs may be provided for any of the following:

- An interpreter to be available at the meeting;
- Documents made available in an alternate format or another language; and
- A disability-related reasonable accommodation.

To request these special accommodations or language needs, please contact the Clerk of the Board at (916) 322-5594 or by facsimile at (916) 322-3928 as soon as possible, but no later than ten business days before the scheduled Board meeting.

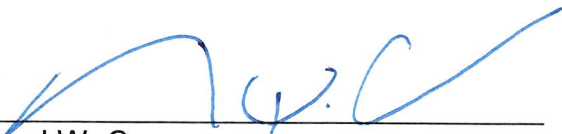
TTY/TDD/Speech to Speech users may dial 711 for the California Relay Service.

Consecuente con la sección 7296.2 del Código de Gobierno de California, una acomodación especial o necesidades lingüísticas pueden ser suministradas para cualquiera de los siguientes:

- Un intérprete que esté disponible en la audiencia;
- Documentos disponibles en un formato alternativo u otro idioma; y
- Una acomodación razonable relacionados con una incapacidad.

Para solicitar estas comodidades especiales o necesidades de otro idioma, por favor llame a la oficina del Consejo al (916) 322-5594 o envíe un fax a (916) 322-3928 lo más pronto posible, pero no menos de diez días de trabajo antes del día programado para la audiencia del Consejo. TTY/TDD/Personas que necesiten este servicio pueden marcar el 711 para el Servicio de Retransmisión de Mensajes de California.

CALIFORNIA AIR RESOURCES BOARD



Richard W. Corey
Executive Officer

Date: *October 12, 2018*

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our website at www.arb.ca.gov.