

APPENDIX D

Public Process for Development of the Proposed Action

For the Proposed Zero-Emission Airport Shuttle Regulation



**California Air Resources Board
1001 I Street
Sacramento, California, 95814**

Date of Release: December 31, 2018

This appendix provides documents used in the public interaction in developing this proposed regulation.

- Meeting Notice Mail-Out # MSC 17-02 for the February 22, 2017 Workshop
- List Serve Notice for the June 30, 2017 Workgroup Meeting
- List Serve Notice for the December 4, 2017 Workgroup Meeting
- List Serve Notice for the January 17, 2018 Workgroup Meeting
- Meeting Notice Mail-Out # MSC 18-05 for the March 7 or 8, 2018 Workshop Series



Matthew Rodriguez
Secretary for
Environmental Protection

Air Resources Board

Mary D. Nichols, Chair
1001 I Street • P.O. Box 2815
Sacramento, California 95812 • www.arb.ca.gov



Edmund G. Brown Jr.
Governor

DATE: January 18, 2017 Mail-Out # MSC 17-02

TO: All Interested Parties

SUBJECT: PUBLIC WORKSHOP TO DISCUSS A STRATEGY TO INCREASE
DEPLOYMENT OF ZERO-EMISSION VEHICLES THAT TRANSPORT
PASSENGERS TO AND FROM CALIFORNIA AIRPORTS

The Air Resources Board (ARB) invites you to participate in a public workshop on Wednesday, February 22, 2017, to begin the discussion on how to accelerate the deployment of zero-emission transportation at airports.

The meeting will be held at the following time and place:

Date: Wednesday, February 22, 2017
Time: 1:00 p.m. to 3:00 p.m.
Place: Cal/EPA Headquarters Building
Sierra Hearing Room
1001 I Street, Second Floor
Sacramento, California 95814

The workshop will be webcast for those who cannot participate in person and may be accessed at <https://video.calepa.ca.gov/> on the day of the workshop. Information on submitting questions and comments will be provided during the webcast for remote participants. Staff's presentation and related materials will be available prior to the workshop at <https://www.arb.ca.gov/msprog/asb/asb.htm>. Please note that the workshop may end prior to the specified end time if all questions and comments are addressed in a timely manner.

Background

Promoting the development and use of zero-emission airport transportation will help ARB achieve the emission reduction strategies outlined in the Mobile Source Strategy, Draft State Implementation Plan and the Sustainable Freight Action Plan. Vehicles such as airport shuttle buses that operate on fixed routes, have stop-and-go operations, maintain low average speeds, and are centrally maintained and fueled are ideal

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: <http://www.arb.ca.gov>.

California Environmental Protection Agency

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candidates for targeting zero-emission electric technologies. Additionally, experience gained from demonstrating the viability zero-emission operation in these fleets will benefit other heavy-duty on-road markets and enable cleaner transportation in other fields.

The overall goals of this effort will:

- Complement existing programs to achieve NOx and GHG emission reductions through the use of zero-emission technology.
- Increase the penetration of the first wave of zero-emission heavy-duty technology into transportation applications at airports, such as buses that transport passengers to and from car parking lots and airport terminals as well as those that transport passengers to airport car rental facilities.

Meeting Information

At this workshop, staff will be soliciting input on the best-suited vehicles for targeting zero-emission airport transportation and how best to deploy those technologies. Additionally, staff is seeking comments on the role that regulations, incentives, and voluntary agreements may play in enabling this effort. Staff is also interested in comments regarding an expanded scope that could include similar fixed-route vehicles entering and exiting airports.

Contact

We welcome and encourage the public's participation. For questions regarding the workshop or this effort, please contact Ms. Katherine Garrison, Air Resources Engineer, at (916) 322-1522 or by email at Katherine.Garrison@arb.ca.gov.

ARB staff will use the Airport Shuttle Bus list serve to notify stakeholders of updates to this development effort and of opportunities for public input throughout the process. To sign up for the list serve, please visit:
https://www.arb.ca.gov/listserv/listserv_ind.php?listname=asb.

Special Accommodations

If you require special accommodations or need this document in an alternate format (i.e., Braille, large print or another language, please contact Mr. Anthony Poggi, Air Pollution Specialist, at (916) 324-9424 or by email at Anthony.Poggi@arb.ca.gov as soon as possible and no later than ten business days before the scheduled meeting. TTY/TDD/Speech to Speech users may dial 711 for the California Relay Service.

All Interested Parties
January 18, 2017
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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 alterno u otro idioma.
- 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) 324-0342 o envíe un fax (916) 327-8524 lo más pronto posible, pero no menos de 10 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.

Sincerely,

/s/

Jack Kitowski, Chief
Mobile Source Control Division

cc: Katherine Garrison
Air Resources Engineer
Mobile Source Control Division

Anthony Poggi
Air Resources Specialist
Mobile Source Control Division

The California Air Resources Board (CARB) invites you to participate in a Zero-Emission Airport Shuttle Bus (ASB) public workgroup meeting. The discussion will focus on possible regulatory concepts for fleet transition to zero-emission shuttle buses, cost sharing opportunities for vehicle purchase and infrastructure, as well as data needs and a proposed vehicle survey. This workgroup meeting is open to the public and in-person participation is encouraged. The workgroup meeting will be held at the following time and place:

Date: Friday, June 30, 2017
Time: 10:00 a.m. to 3:00 p.m. (PST)
Place: Cal/EPA Headquarters Building
Sierra Hearing Room
1001 I Street
Sacramento, California 95814

This meeting will also be available via webcast for stakeholders who are unable to attend in person and can be accessed on the day of the meeting at <https://video.calepa.ca.gov/>. Stakeholders viewing by webcast can submit comments and questions to staff during the meeting through email at sierrarm@calepa.ca.gov.

All meeting materials, including agenda and presentation, will be posted on CARB's ASB meetings website at:
<https://www.arb.ca.gov/msprog/asb/asb.htm>.

Background:

Promoting the development and use of zero-emission airport transportation will help CARB achieve the emission reduction strategies outlined in the Mobile Source Strategy, State Implementation Plan and the Sustainable Freight Action Plan.

Vehicles such as airport shuttle buses that operate on fixed routes, have stop-and-go operations, maintain low average speeds, and are centrally maintained and fueled are ideal candidates for targeting zero-emission electric technologies. Additionally, experience gained from demonstrating the viability zero-emission operation in these fleets will benefit other heavy-duty on-road markets and enable cleaner transportation in other fields.

For more information on this meeting, please visit CARB's updated ASB website at: <https://www.arb.ca.gov/msprog/asb/asb.htm>.

Contact:

For questions about the Zero-Emission Airport Shuttle Bus Measure please contact Ms. Katherine Garrison, Air Resources Engineer, at (916) 322-1522 or by email at katherine.garrison@arb.ca.gov or Mr. Anthony Poggi, Air Pollution Specialist, at (916) 324-9424 or by mail at anthony.poggi@arb.ca.gov.

ASB - Zero-Emission Shuttle Bus Workgroup Meeting
California Air Resources Board sent this bulletin at 12/01/2017 09:45 AM PST

Having trouble viewing this email? [View it as a Web page.](#)



December 1, 2017

CORRECTION: ASB - Zero-Emission Shuttle Bus Workgroup Meeting

Invitation to Participate

The California Air Resources Board (CARB) invites you to participate in a Zero-Emission Airport Shuttle Bus (ASB) public workgroup meeting. The discussion will focus on survey results, incentives, cost numbers, outreach efforts, environmental analysis, and the proposed regulatory compliance schedule. This workgroup meeting is open to the public and in-person participation is encouraged. Please confirm your attendance by [contacting staff](#). The workgroup meeting will be held at the following time and place:

Date: Monday, December 4, 2017
Time: 10:00 a.m. to 3:00 p.m.*(PST) *Meeting may end sooner
Location: [Cal/EPA Headquarters Building](#)
Coastal Hearing Room
1001 I Street, Second Floor
Sacramento, California 95814

This meeting will also be available via [webcast](#) for stakeholders who are unable to attend in person and can be accessed on the day of the meeting. Stakeholders viewing by webcast can [submit comments](#) and questions to staff during the meeting.

All meeting materials, including agenda and presentation, will be posted on the [ASB meetings website](#).

Background

Promoting the development and use of zero-emission airport transportation will help CARB achieve the emission reduction strategies outlined in the Mobile Source Strategy, State Implementation Plan and the Sustainable Freight Action Plan.

Vehicles such as airport shuttle buses that operate on fixed routes, have stop-and-go operations, maintain low average speeds, and are centrally maintained and fueled are ideal candidates for zero-emission electric technologies. Additionally, experience gained from demonstrating the viability of zero-emission operation in these fleets will benefit other heavy-duty on-road markets and enable cleaner transportation in other fields.

[More Information](#)

Environmental Analysis

At the workgroup meeting, staff will also provide an overview of CARB's process for preparing the environmental analysis (EA) and its content. Staff welcomes public input at the workgroup meeting on the appropriate scope and content of the EA at the beginning of our process, including the reasonably foreseeable methods of compliance with the proposal, the potential significant adverse impacts associated with the methods of compliance, potential feasible mitigation measures, and feasible alternatives to the proposal that could reduce or eliminate any significant adverse impacts. A draft of the EA will be released for public review and comment in 2018.



For questions about the Zero-Emission Airport Shuttle Bus Measure please contact:

[Ms. Katherine Garrison](#), Air Resources Engineer, (916) 322-1522

[Mr. Anthony Poggi](#), Air Pollution Specialist, (916) 324-9424.

ASB - Zero-Emission Shuttle Bus Workgroup Conference Call

California Air Resources Board sent this bulletin at 12/26/2017 12:23 PM PST



December 26, 2017

ASB - Zero-Emission Shuttle Bus Workgroup Conference Call

Invitation to participate

The California Air Resources Board (CARB) invites you to participate in a Zero-Emission Airport Shuttle Bus (ASB) focused conference call. The discussion will focus on zero-emission shuttle bus infrastructure including: managing demand charges, site specific construction charges, utility upgrades, cost-sharing opportunities, and incentive programs. This workgroup meeting is open to the public and participation is encouraged. The conference call can be accessed with the following number and passcode and will be held at the following time and date:

Date: Wednesday, January 17, 2018

Time: 9:00 a.m. to 12:00 p.m.* (PST)
**Meeting may end sooner*

Location: Via Conference Call
Conference Call Number: (888) 455-9749
Participant Passcode: 4988629

All meeting materials, including a detailed agenda, will be posted on CARB's [ASB meetings website](#).

Background

Promoting the development and use of zero-emission airport transportation will help CARB achieve the emission reduction strategies outlined in the Mobile Source Strategy, State Implementation Plan and the Sustainable Freight Action Plan.

Vehicles such as airport shuttle buses that operate on fixed routes, have stop-and-go operations, maintain low average speeds, and are centrally maintained and fueled are ideal candidates for zero-emission electric technologies. Additionally, experience gained from demonstrating the viability of zero-emission operation in these fleets will benefit other heavy-duty on-road markets and enable cleaner transportation in other fields.

[More Information](#)



For questions about the Zero-Emission Airport Shuttle Bus Measure please contact:

[Ms. Katherine Garrison](#), Air Resources Engineer, (916) 322-1522

[Mr. Anthony Poggi](#), Air Pollution Specialist, (916) 324-9424.



Mary D. Nichols, Chair
Matthew Rodriguez, CalEPA Secretary
Edmund G. Brown Jr., Governor

January 25, 2018

Mail-Out #MSC 18-05

TO: All Interested Parties
SUBJECT: PUBLIC WORKSHOPS TO DISCUSS ZERO-EMISSION AIRPORT SHUTTLE BUS (ASB) MEASURE

The California Air Resources Board (CARB) invites you to participate in a series of public workshops on Wednesday, March 7, 2018, and Thursday, March 8, 2018, to continue our discussion on strategies to expand the use of zero-emission shuttle vehicles at airports. This strategy supports CARB's effort to protect public health for millions of Californians that still breathe unhealthy air and to meet California's greenhouse gas emission reduction targets as part of the global action needed to slow global warming and achieve climate stabilization. The meetings will focus on the scope of the regulation, the compliance schedule, opportunities for incentives, and draft regulatory language.

The workshop will be held at the following times and locations:

Date: Wednesday, March 7, 2018
Time: 10:00 a.m. to 12:00 p.m. (PST)
Place: Cal/EPA Headquarters Building
Sierra Hearing Room
1001 I Street
Sacramento, California 95814

Date: Thursday, March 8, 2018
Time: 1:00 p.m. to 3:00 p.m. (PST)
Place: Los Angeles International Airport
Clinton Moore Administration Building
Samuel Greenberg Board Room
1 World Way West
Los Angeles, California 90045

The workshop on Wednesday, March 7, 2018, in Sacramento will be webcast for those unable to attend in person. The broadcast can be accessed on that day at: <https://video.calepa.ca.gov/>. Information on submitting questions and comments will be provided during the webcast for remote participants.

Staff's presentation and any associated documents will be identical for both workshops and posted prior to the workshop on CARB's website at:
<https://www.arb.ca.gov/msprog/asb/asbmtgs.htm>.

Background

Achieving California's long-term air quality, climate, and public health goals will require a transition from conventional combustion technologies to zero-emission technologies, where feasible. Promoting the development and use of zero-emission airport shuttle buses will help CARB achieve its emission reduction strategies as outlined in the State Implementation Plan, Sustainable Freight Action Plan, Senate Bill 350 (De León, Chapter 547, Statutes of 2015), and Assembly Bill 32 (Nuñez, Chapter 488, Statutes of 2006) .

Staff has visited several California airports that use shuttle buses. During these visits, staff learned that airports have unique operating parameters and constraints and that each airport may have a different capability for deploying zero-emission vehicles. In September 2017, staff conducted a survey of airports and ground transportation companies which provided valuable data regarding vehicle inventory and operational characteristics. This data has been used to calculate the potential emission benefits of the proposed regulation and potential costs, as well as the suitability for zero-emission technology.

Multiple workgroup meetings were held with stakeholders in 2017. These meetings included staff presentations and discussions about regulatory options, vehicle and infrastructure costs, incentive opportunities, survey results, and zero-emission vehicle cost-savings.

CARB staff will use the ASB email list to notify stakeholders of updates to the measure development and of opportunities for public input throughout the rulemaking process. To sign up for the ASB email list, please visit:
https://public.govdelivery.com/accounts/CARB/subscriber/new?topic_id=asb.

Contact

We welcome and encourage public participation in this effort. If you have questions regarding the workshop or on the Zero-Emission Airport Shuttle Bus Measure, please contact Ms. Katherine Garrison, Air Resources Engineer, at (916) 322-1522 or by email at Katherine.Garrison@arb.ca.gov.

Special Accommodations

If you require a special accommodation, or need this document in an alternate format (i.e., Braille, large print) or need language assistance, please contact Ms. Alanzandra Heslep, Office Technician, no later than ten business days before the scheduled meeting. TTY/TDD/Speech to Speech users may dial 711 for the California Relay Service.

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Sincerely,

/s/

Mike Carter
Assistant Division Chief
Mobile Sources Control Division

cc: Katherine Garrison
Air Resources Engineer
Mobile Source Control Division

Alanzandra Heslep
Office Technician
Mobile Source Control Division