Date: July 19, 2019

To: Patrick H. West, City Manager

From: Claudia Lewis, Interim Director, Long Beach Airport

For: Mayor and Members of the City Council

Subject: Presentation of Draft Air Quality Improvement Plan for the Long Beach Airport

In May 2018, the South Coast Air Quality Management District’s (SCAQMD) Governing Board directed SCAQMD staff to pursue Memorandums of Understanding (MOUs) with the five commercial airports in the South Coast Air Basin, including Long Beach Airport (Airport). The purpose of the MOUs is to have a voluntary agreement between SCAQMD and each airport to achieve emission reductions by having each develop, adopt, and implement Air Quality Improvement Plans (AQIPs). The AQIPs include measures and initiatives to reduce emissions from non-aircraft airport sources. The measures must be technically and economically feasible, without infringing on federal jurisdiction regarding regulation of aeronautical activities or being more stringent than existing regulations.

As a component of the MOU, and consistent with the Airport’s efforts to become a leader in airport sustainability, the Airport would be responsible for implementing and enforcing the AQIP/MOU measures and initiatives, establishing emission reduction or performance targets for the measures, and tracking progress of the AQIP implementation. Some of the measures or initiatives under consideration by the Airport apply to the following areas:

- Ground Support Equipment
- Clean Construction
- Airport-Owned Clean Fleet
- Electric Vehicle Charging Stations
- LEED Design
- Renewable Energy
- Transportation Network Company (TNC) Rematch

As part of the process outlined in the MOU, SCAQMD asked the Airport to provide the public with an opportunity to review and provide comments on elements of the AQIP. To provide such an opportunity, Airport staff presented a draft version of the elements that are likely to be included in the AQIP (Attachment) at the July 18, 2019 meeting of the Airport Advisory Commission to comment. A final version of the MOU and AQIP will be presented to the City Council for adoption later in 2019.

If you have any questions or require additional information, please contact Ryan
McMullan, Noise and Environmental Affairs Officer, at (562) 570-2673.

ATTACHMENT

CC: CHARLES PARKIN, CITY ATTORNEY
    LAURA L. DOUD, CITY AUDITOR
    DOUGLAS HAUBERT, CITY PROSECUTOR
    TOM MODICA, ASSISTANT CITY MANAGER
    KEVIN J. JACKSON, DEPUTY CITY MANAGER
    REBECCA GARNER, ADMINISTRATIVE DEPUTY TO THE CITY MANAGER
Long Beach Airport Sustainability
Air Quality Improvement Plan (AQIP)
Long Beach Airport will develop a plan to lead the nation on sustainability for airports and work with the airlines serving LGB and other partners to become an incubator of clean tech in aviation, with goals of becoming a carbon neutral facility.

Mayor Robert Garcia
August 14, 2018
Aviation Presents an Excellent Opportunity
Plan Will Evaluate:

• Air Emissions
• Energy
• Water Conservation
• Water Quality
• Solid Waste and Recycling
• Carbon Accreditation
1. 2017 and 2023 Business-as-Usual (BAU) Inventory
2. Measures and Initiatives / Emission Benefits
   • GSE Policy
   • Clean Construction Policy
   • Airport Clean Vehicle Fleet Policy
   • EV Charger and Electrification Program
   • LEED Policy
   • Renewable Energy Initiatives
   • TNC Initiative
3. Approval Process
## LGB 2017 AQIP Emissions Inventory

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<tr>
<th>Airport Emissions Source</th>
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<td>On-Airport Roadways &amp; Parking Lots</td>
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<td>Paved Road Dust Total</td>
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<td>GRAND TOTAL</td>
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## LGB 2023 AQIP BAU Emissions Inventory

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<td>GRAND TOTAL</td>
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</table>
Baseline Year end 2017: LGB GSE Fleet-Wide Average Factor of 1.5 g/bhp-hr
• Policy will require GSE Operators to reduce NOx+HC emissions to a fleet-wide average
• Enforcement: Lease and license requirements
• Airport to monitor compliance, require annual data collection, develop reporting procedures, and calculate emissions

Target Goals
• 2023: LGB GSE Fleet-Wide Average Factor of 0.93 g/bhp-hr
• 2031: LGB GSE Fleet-Wide Average Factor of 0.44 g/bhp-hr
Clean Construction Initiative

- LGB AIP Projects would require contractors to use the cleanest construction equipment on the market, and recycle construction and demolition debris.

- LGB’s Clean Construction Program seeks ensure contractors follow sustainable construction practices such as using low-emission equipment, recycling construction and demolition waste, and minimizing non-essential trips through efficient schedule coordination.
Clean Construction Initiative

• On-road medium-duty and larger diesel-powered trucks with a gross vehicle weight rating of at least 19,000 pounds shall, at a minimum, comply with USEPA 2010 on-road emissions heavy-duty diesel engine emissions standards. Contractor requirements to utilize such on-road haul trucks or the next cleanest vehicle.

• All self-propelled off-road diesel-powered construction equipment 25 horsepower or greater shall meet, at a minimum, USEPA/CARB Tier 4 off-road emissions standards. Contractor requirements to utilize Tier 4 (final) equipment or next cleanest equipment available.

• The on-road haul truck and off-road construction equipment requirements shall apply unless certain circumstances exist and the Contractor provides a written finding consistent with project contract requirements.

**Target Goal:** 100% compliance for Long Beach Airport CIP construction projects.
**Airport Vehicle Fleet**

**Policy Under Development:** Beginning Fall 2019, the Airport is exploring if it can obtain commercially available passenger car, light-duty truck, or medium-duty vehicles that are certified at ultra-low-emission standards (SULEV) or cleaner when adding or replacing a vehicle in its fleet. Police and fire vehicles will not be subject to the policy. The intent of this policy is to secure emission reductions in excess of SCAQMD Rule 1191.

**Target Goal:** Convert the Airport-owned fleet (excluding police and fire vehicles) to vehicles that are certified at super-ultra-low-emission standards (SULEV) or cleaner by December, 2023.
Electric Vehicle Charging

**Baseline Year End 2017:** Six (6) EV Charging Stations for 3,447 Public Parking Spaces (≈ 0.2% of spaces)

**Action Plan Under Development:**
Conduct pilot study to identify installation costs of EV charging stations.
Develop Electric Vehicle Supply Equipment (EVSE) master plan including a building electrical capacity assessment and identify roles and responsibilities related to purchasing, installing, maintaining and replacing EV charging stations.
Explore grant funding to support EV infrastructure.
Collaborate with external stakeholders in a regional response to EV infrastructure challenges.

**Target Goals:** provide EV charging stations in public parking lots – potentially up to 2% of spaces by 2023 (a 10-fold increase in EV charging spaces from baseline), expand as necessary to accommodate demand in 2031.
LEED Design

LGB is committed to advancing sustainable design for its redevelopment program.

**Design Initiatives:**

- LEED Silver Policy will mandate energy efficient design, fundamental commissioning of building energy systems and optimization of overall energy performance.

- LEED Silver will be required as part of sustainable design construction scoring criteria in future procurement process

- LEED Sustainability Review Committee will be developed upon RFP Award to support LEED policy implementation and to monitor enforcement
Renewable Energy

Action Plan:
To provide additional clean energy to Long Beach’s power grid, the City and Airport are exploring a solar feasibility study for the campus to assess the viability of installing additional photovoltaic solar.
TNC Initiative

• Rematching TNCs (Uber, Lyft...etc) that departing passengers use to arrive at the Airport with arriving passengers looking to leave the Airport in a TNC

• Unmatched TNC trips represent 3.5 tpy NOx in 2023, and represent 2.2 tpy NOx 2031
Thank You!

long beach airport

where the going is easy