Presentation to:
South Coast Air Quality Management District
Airports Mobile Source Working Group Meeting #3

July 18, 2019
John Wayne Airport, Orange County

- Owned & operated by County of Orange
- 503 acres
- Two runways
  - 5,700 feet
  - 2,887 feet (general aviation)
- Thomas F. Riley Terminal
  - 20 gates (loading bridge)
- $6 Billion to the local economy
Settlement Agreement 2014

• Million Annual Passengers (MAP)
  ✓ Phase 1: **10.8** MAP through December 31, 2020
  ✓ Phase 2: **11.8** MAP from January 1, 2021 through December 31, 2025
  ✓ Phase 3:
    - **12.2** MAP from January 1, 2026 through December 31, 2030 if less than 11.21 MAP is served in one calendar year between January 1, 2021 and December 31, 2025, **OR**;
    - **12.5** MAP from January 1, 2026 through December 31, 2030 if more than 11.21 MAP is served in one calendar year between January 1, 2021 and December 31, 2025
Settlement Agreement 2014

- **Average Daily Departures (ADDs)**
  - Maximum of 85 Class A ADDs for passenger service through December 31, 2020
  - Maximum of 95 Class A ADDs for passenger service from January 1, 2021 through December 31, 2030
  - 4 Class A ADDs designated for priority allocation to all-cargo service through December 31, 2030. Two of these may be allocated for passenger service. Historically, 2 all-cargo service Class A ADDs are requested and allocated to the cargo carriers.
Air Quality Improvement Plan

Key Elements

• Description of Measures and Initiatives
  ✓ Measure and Target Emission Reductions
  ✓ Initiatives

• Mobile Source Inventory Associated with the Initiatives and Measures
  ✓ Description of Inventory and Calculation Protocols
  ✓ Baseline 2017 Emissions

• Emissions Benefit Summary for 2023 and 2031
  ✓ Forecast: Business as Usual
  ✓ Forecast: with Implemented Measures

• Implementation and Progress Assessment
Emission Sources Evaluated by JWA

• **Direct Control**
  ✓ JWA Fleet: licensed on-road vehicles, unlicensed vehicles and equipment owned by JWA
  ✓ Contract fleet: parking lot shuttles

• **No Direct Control**
  ✓ Vehicles owned/contracted by airlines
  ✓ Ground support equipment (GSE) and fuel trucks
  ✓ Permit vehicles: limousines, shuttles, buses, taxis, transportation network companies (TNCs)
  ✓ Rental cars, delivery vehicles
  ✓ Personal vehicles owned by passengers, tenants and concessionaires; JWA employee vehicles
  ✓ Construction vehicles
Airport-related Emissions (2017 Baseline)

JWA ROG Emissions
- Measure 1: GSE 84%
- Measure 2: Fuel Delivery 4%
- Measure 4: JWA Fleets 3%
- Initiative 4: Rideshare 5%
- Measure 7: Smart Parking 3%

JWA NOx Emissions
- Measure 1: GSE 82%
- Measure 2: Fuel Delivery 14%
- Measure 4: JWA Fleets 2%
- Initiative 4: Rideshare 1%
- Measure 7: Smart Parking 1%
JWA Measures Under Development

- **Measure 1: Ground Support Equipment (GSE)**
  - Annual gr/bhp-hr fleet-wide target
- **Measure 2: Jet Fuel Delivery Trucks**
  - Eliminate routine truck trips upon startup of new pipeline system
- **Measure 3: Concessions Nighttime Delivery Policy**
  - Delivery during least congested traffic time
- **Measure 4: JWA Owned Vehicle Clean Fleet Policy**
  - Cleaner, alternative fuel or electric upon replacement
- **Measure 5: Parking Shuttle Bus Electrification**
  - Early progressive electrification of shuttle buses
JWA Measures Under Development (Cont.)

- **Measure 6: Clean Construction Program**
  - Tier 4 off-road engine emission standards

- **Measure 7: Smart Parking Features**
  - Lighted parking spaces, pay-on-foot, credit card entry/exist

- **Measure 8: Congestion and Passenger Vehicle Reduction**
  - Cell phone and taxi waiting lots

- **Measure 9: TNC Vehicle Miles Traveled Reduction Policy**
  - Designated location and re-matching
JWA Initiatives Under Development

• Initiative 1: Taxi Clean Fleet Policy
  ✓ Contract terms for progressively cleaner vehicle replacements

• Initiative 2: Electric Vehicle Charging Infrastructure
  ✓ Addition of chargers in parking lots, as demand dictates

• Initiative 3: Passenger Transportation Mode Shifts
  ✓ Continuing coordination with OCTA and mass transit links

• Initiative 4: Orange County Employee Rideshare Program
  ✓ Promote OC Rideshare program incentives
Monitoring and Reporting

• **JWA will monitor the progress towards each Measure and Initiative**
  - Quarterly internal status reports
  - Annual tabulations

• **Annual reports shall be provided to SCAQMD**
  - Status of achieving Measures goals
    - Corrective measures (if any)
  - Progress on Initiatives
  - Changes or updates to Measures or Initiatives
  - Items that may not have been covered in the AQIP (if any)
AQIP MOU Approval Process

• Public Comment
  ✓ SCAQMD Working Group Meetings
  ✓ Airport Commission Meeting
  ✓ Board of Supervisors Meeting

• Adoption of AQIP/MOU
  ✓ Airport Commission: Recommendation
  ✓ Orange County Board of Supervisors: Adoption
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