



SAN DIEGO
INTERNATIONAL
AIRPORT

The Alternative Fuel Vehicle Program at SDIA

Faster Freight – Cleaner Air California : A Summit on
North American Goods Movement and Air Quality

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AIRPORT MASTER PLAN
SAN DIEGO INTERNATIONAL AIRPORT

San Diego International Airport

Single Runway/18.3 MAP/661 Acres



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San Diego County Regional Airport Authority

- **Established by state law to operate SDIA and to address the region's long-term air transportation needs**
- **Governed by an appointed Board**
- **Nation's busiest single-runway commercial service airport**
- **18.3 million passengers in 2007**



San Diego County Regional Airport Authority

- **Recently Adopted Sustainability Policy**
- **Charter Member - San Diego Regional Sustainability Partnership**
- **Goods Movement Emissions Reduction Program (GMERP) Coordination**



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SAN DIEGO INTERNATIONAL AIRPORT

AQMP - Alternative Fuel Vehicle Program

- Required to mitigate future impacts by NEPA/CEQA
- We are not currently legally mandated but want to be proactive
- We want to work both in a regulatory framework and with business incentives *“Carrot and Stick”*

Page 5



AIRPORT MASTER PLAN
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AQMP: Initial Steps

- GSE Inventory
- SDCRAA Vehicle Inventory
- Taxi and Shuttle Inventory
- **Alternative Fuel Vehicle Program**
- Emissions Inventory
- Agency Coordination

Page 6



AQMP - Alternative Fuel Vehicle Program

- **CNG Shuttle Bus Fleet**
- **Airside Fuel Options/Expandability**
- **Landside Fuel Options**
- **Create Incentives**
- **Funding Opportunities**
 - **Carl Moyer, CMAQ, Prop 1B, VALE, etc.**



AQMP - Alternative Fuel Vehicle Program

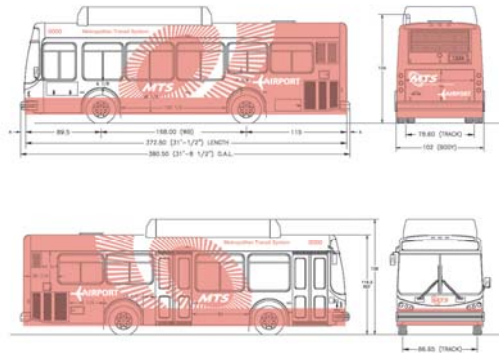
- **Route 992 Bus: CNG, 40-foot, low-floor**
- **CNG Vehicles/Fuel Scenario**
- **GSE**
- **Carl Moyer Program**



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San Diego International Airport

New CNG Buses MTS Route 992



Page 9



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Other Components of the AQMP

- **GSE Inventory**
- **SDCRAA Vehicle Inventory**
- **Taxi and Shuttle Inventory**
- **Emissions Inventory**
- **Agency Coordination**

Page 10



GSE Inventory

- 370 Gasoline/Diesel GSE
- 45 Electric GSE (11%)
- 415 Total GSE
- New Airlines – Update Inventory



Diesel Push Back Tug





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Electric Baggage Tug Connected to Charging Station

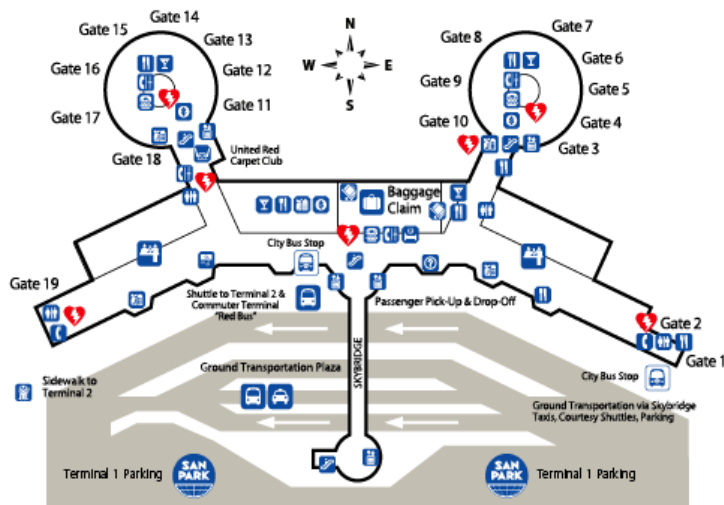


Page 13



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Electric Charger Project



Page 14



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Electric Charger Project

- Southwest Airlines
 - 10 Gates
 - Potential Equipment
 - 20 Electric Tractors
 - 20 Electric Bag Tugs
 - 10 Aircraft Tractors
 - Chargers
 - 10 Dual-port gate charger
 - 2 Dual-port chargers near break room
 - 1 Single-port shop charger



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Other Components of the AQMP

- GSE Inventory
- **SDCRAA Vehicle Inventory**
- Taxi and Shuttle Inventory
- Emissions Inventory
- Agency Coordination



SDCRAA Vehicle Inventory

- **Gasoline/Diesel Vehicles**
- **CNG/Electric Vehicles**
- **Age of Vehicles**
- **Fueling Scenario**



Other Components of the AQMP

- **GSE Inventory**
- **SDCRAA Vehicle Inventory**
- **Taxi and Shuttle Inventory**
- **Emissions Inventory**
- **Agency Coordination**



Taxi and Shuttle Inventory

- Inventory
- Conventional/Alternative Fuel
- Age of Vehicles
- Create Incentives
- Monitoring System
- Retirement of Aging Vehicles



Other Components of the AQMP

- GSE Inventory
- SDCRAA Vehicle Inventory
- Taxi and Shuttle Inventory
- Emissions Inventory
- Agency Coordination



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AQMP - Emissions Inventory

- **Vehicular Traffic**

- **Passenger Aircraft**
 - Aircraft Operations
 - At-Gate Scenario
 - GSE

- **Air Cargo Activities**
 - Aircraft Operations
 - Truck Trips
 - GSE Data

Page 21



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Other Components of the AQMP

- GSE Inventory

- SDCRAA Vehicle Inventory

- Taxi and Shuttle Inventory

- Emissions Inventory

- **Agency Coordination**

Page 22

Agency Coordination

- APCD of San Diego County
- Marine Corps Recruit Depot
- Airlines
- Airport Stakeholders
- Taxi/Shuttle
- Rental Cars

Facility Requirements

Consistent with Airport Master Plan



Airfield Facility Requirements



Terminal Facility Requirements



Ground Transportation Facility Requirements



Airport Support Facility Requirements



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AQMP - Alternative Fuel Vehicle Program

Next Steps

- Continue Agency Coordination
- Airline/Stakeholder Involvement
- Continue Phase In of Alternative Fuel Vehicles
 - Authority Vehicles
 - Airlines/GSE
 - Taxis and Shuttle Buses

Page 25



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Questions

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