



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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## 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”*

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## AQMP: Initial Steps

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

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## **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**

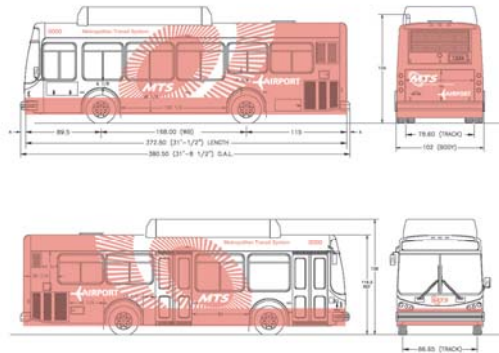
- **Route 992 Bus: CNG, 40-foot, low-floor**
- **CNG Vehicles/Fuel Scenario**
- **GSE**
- **Carl Moyer Program**



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## San Diego International Airport

### New CNG Buses MTS Route 992



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## Other Components of the AQMP

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

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## 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

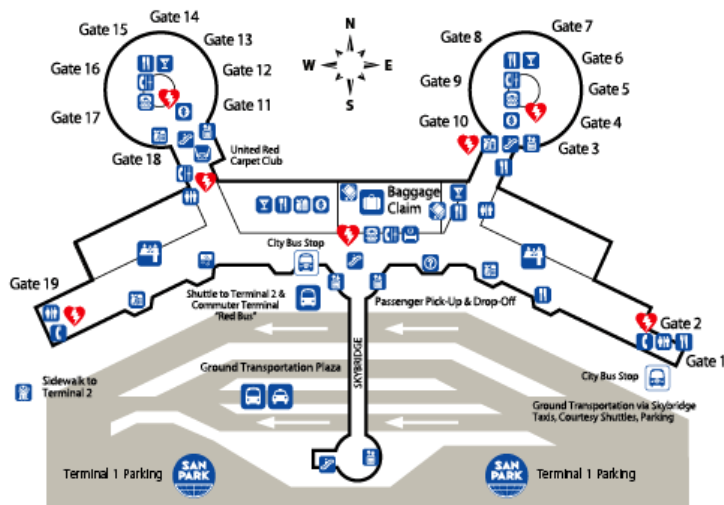


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## Electric Charger Project



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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



## 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



## **AQMP - Emissions Inventory**

- **Vehicular Traffic**
  
- **Passenger Aircraft**
  - Aircraft Operations
  - At-Gate Scenario
  - GSE
  
- **Air Cargo Activities**
  - Aircraft Operations
  - Truck Trips
  - GSE Data



## **Other Components of the AQMP**

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

## 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

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# Questions

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