

# Blue Skyways Collaborative

Technical Committee  
Kickoff Meeting  
February 15, 2006

Dean McMath  
Regional Environmental Program Manager  
Airports Division  
Southwest Region



Federal Aviation  
Administration



# Aviation Discussion



## Available opportunities, funding and technology to reduce air emissions

**Voluntary Airport Low Emissions (VALE) Program**

**Operational Measures**

**Engine Certification**

# Aviation Discussion



## Voluntary Airport Low Emissions (VALE) Program

### Funding Sources

**Airport Improvement Program (Noise/Air Set Aside = \$300-350 Mil/year)**

**Passenger Facility Charge (Over \$2 Bil/year)**

# Aviation Discussion



## VALE

- AIP assists in purchase of airport-owned alternative fuel vehicles**
- PFC purchases new and retrofit AFVs and clean conventional vehicles**
- Both funding sources can build new infrastructure**
  - refueling/recharging stations (may be available to public)**
  - from tanker trucks to hydrant systems and fuel carts**
  - reduce APU emissions with electric ground power**

# Aviation Discussion



## VALE (continued)

### 2 Airports participated in FY 2005

- **George Bush-Houston Intercontinental Airport, Texas**  
**\$43K for 10 electric hybrid cars**
- **Albany International Airport, New York**  
**\$400K for 7 electric tugs, 3 electric loaders, 2 CNG buses,**  
**12 recharging stations, and a CNG station**

# Aviation Discussion



## Operational Measures

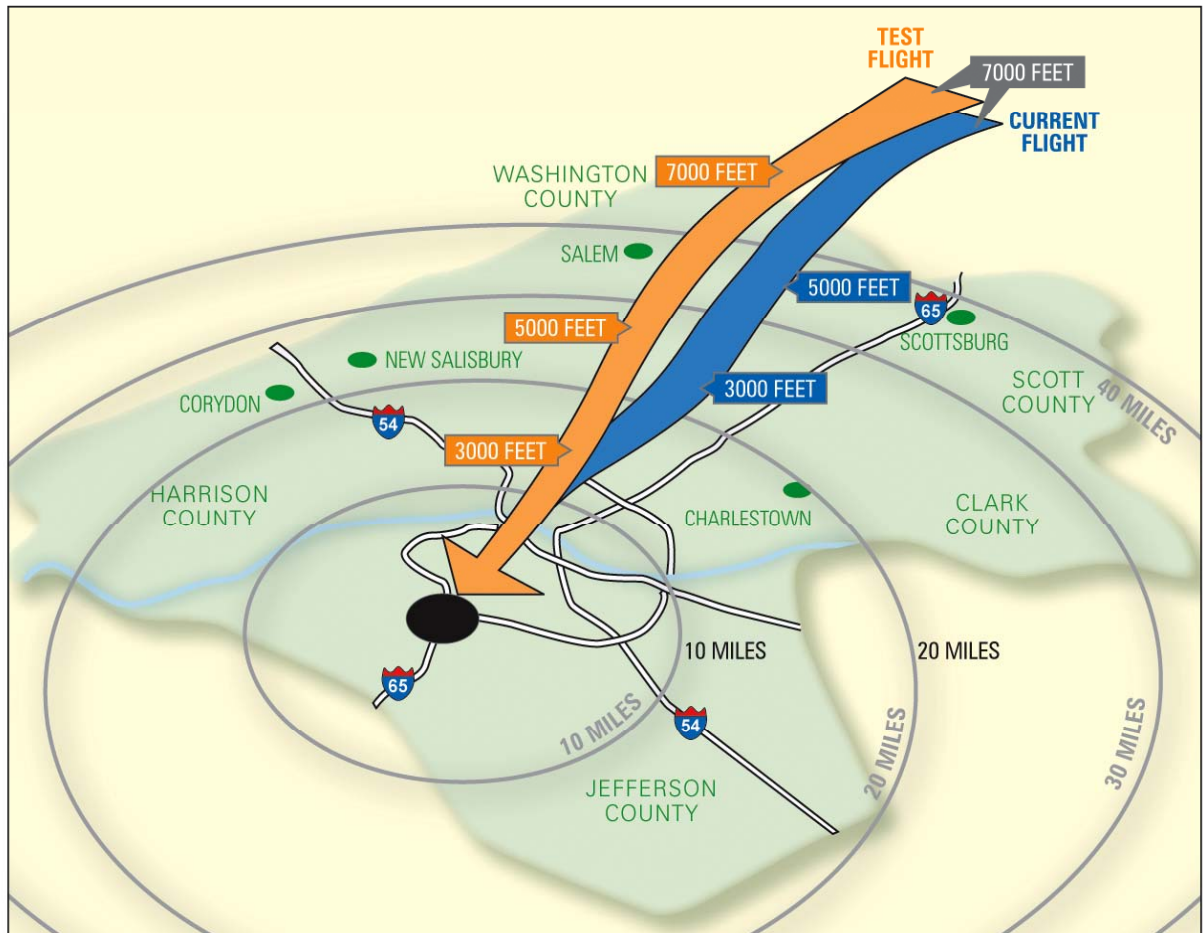
### Continuous Descent Approach

# Continuous Descent Approach

- Rapid transition to application (2006)
- Testing with 125 UPS aircraft
- Louisville Airport
- FAA, NASA, MIT

## Reductions by aircraft for equivalent landings

- 3-6 dB noise
- 120 lbs. fuel
- 2-3 min. flight time
- ~35% NO<sub>x</sub>
- ~13-20% CO
- ~11-25% HC



# Aviation Discussion



## Forthcoming Trends/Regulations/Priorities

**Voluntary Airport Low Emissions (VALE) Program to continue**

**More efficient flight operations through satellite based technology**

**Better inclusion of aviation emissions in SIPs**

**Air Quality equal or overtake noise as top aviation environmental concern**

# Aviation Discussion



## Opportunity for Blue Skyways Collaborative

Promotion of VALE Program to airports and states