

Albuquerque/Bernalillo County Air Quality Control Board

New Board Member Orientation March 30, 2009

Glen L. Dennis, Division Manager Louis Jaramillo, Quality Assurance Supervisor Gina Ortega, Customer Service Supervisor Vehicle Pollution Management Division Albuquerque Environmental Health Department



VPMD Headquarters 1500 Broadway Blvd NE





Motor Vehicle Emission Control Programs

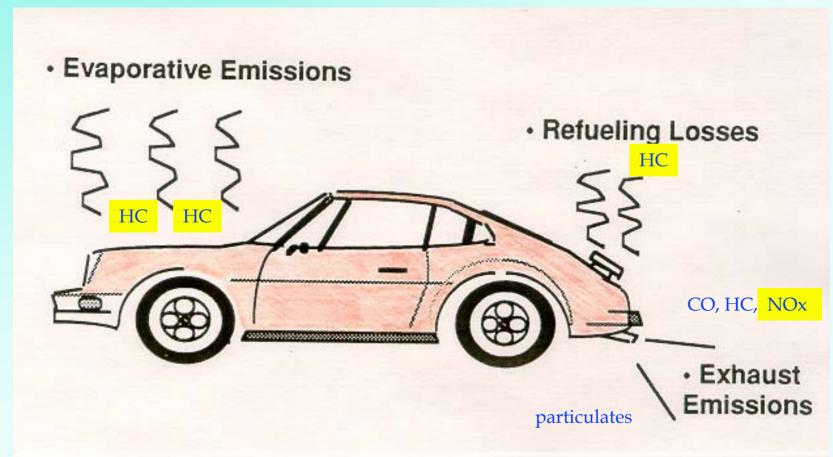
- **◆** Inspection and Maintenance
 - identify and repair excessive polluters (test 250,000 per year)
- **◆** Oxyfuel (Oxygenated Fuel)
 - provide cleaner burning gasoline during winter pollution season
- Smoking Vehicles
 - citizens report/police cite gross polluters

Combined CO reduction of more than 1/3

- shifted focus in 2004 to ozone precursors (especially HC)



Tailpipe test 1982-83, 1989-2004 added OBDII & gas cap test in 2004





Emission testing in Albuquerque a brief history

- **◆ 1977 Clean Air Act Amendments**
 - Bernalillo County designated CO nonattainment area
- ◆ 1982-83 centralized emission testing
 - dynamometer 2 facilities, 8 lanes annual test
- **◆ 1985-88 Federal Highway Funding Sanctions**
- ◆ 1989 Decentralized BAR84 idle test (biennial)
 - SIP also included mandatory Oxyfuel (2%) and "No-Burn"
- **◆ 1996** BAR90 two-speed test (2500 rpm)
- ◆ 2004 BAR97 two-speed w/ OBDII & gas cap



Inspector Training/Certification (200 new, 400 recertify per year)



2 days classroom



1 to 3 days practical testing



Quality Assurance monthly visits to over 130 stations

- Materials audits
 - Calibration gas, filters, sample probes, condition
- ◆ Gas audits (CO, CO₂, & HC at 4 levels)
 - average deviation < 2%, allow 5%, lock-out at 7%
- **◆** Covert audits (fraud investigation)
 - assure passing cars pass and failing cars fail
- ◆ Retest/Referee Bay (free retests)
 - find honest inspector mistakes refund, retest, retrain
 - consumer protection repair effectiveness



Quarterly Gas Audits





Emission Testing Changes in 2004

- ◆ 1996 newer receive quick new OBDII test
 - On-Board Diagnostic, trouble codes, detects pending failures
- ◆ 1975 to 1985 vehicles tested every year
 - newer "marginal pass" vehicles issued one year certificate
- **◆** Gas caps pressure tested for vapor leaks
- **◆** Commuter vehicles >4 years old require test
- ◆ New vehicles exempted for <u>up to</u> 4 years
- **◆** Alternative fuel and hybrids exempted



Current Program Status 130 Air Care Stations



- ◆ ½ Test Only or "On-Demand" (oil change, car wash)
- ◆ ¹/4 Dealerships (used cars) & ¹/4 repair shops
- ◆ Average cost is \$20



Future Considerations

- Extend & simplify exemption for new vehicles (EPA recommends 5 year)
- ◆ Commuter vehicle testing enforcement (revisit employer based program)
- ◆ 'Horseless Carriage' collector car exemption (rolling 35 year window, 75's in 2010)
- Diesel testing of '98 and newer with OBDII (older diesels tested at VPMD at title change)



Winter Oxygenated Fuels Program Nov. – Feb. (2.7% $O_2 = 8\%$ etOH) >99% compliance, 10% ethanol





Smoking Vehicle Complaints 764-1110 or Air-Care (247-2273) or www.cabq.gov/aircare

