

# 124- Air Pollution Control

Clean Air Act of 1970-

Federal standard for cars, except California

- thus, MTBE was national program

States must achieve standards without controlling mobile sources.

- Limits to controls on stationary sources

- no state with significant automobile reduction strategies

Ambient Air Quality Standards

- Primary (health)

- Secondary (property)

Problem with approach:

- widely varying receptors

- children; elderly; asthmatic (25% of population)

Criteria Pollutants

1. SO<sub>x</sub>

2. NO<sub>x</sub>

3. Particulates

4. CO

5. Ozone

6. Lead

Toxic Air Pollutants- pre-1990

- major problem with where to draw the line

benzene

vinyl chloride

asbestos

chlorinated dioxins

beryllium  
mercury  
arsenic  
radionuclides  
coke oven emissions

1990 CAA Amendments-

1. add another 180 toxic pollutants
2. Bhopal type emergency requirements (CA AB 1985)

HOW THE LAW IS IMPLEMENTED

1. EPA develops the standards
2. States must enforce them. States submit SIP.
3. CA is only state with local districts. They submit plan to CARB.

Failure to achieve compliance by 1973 makes you an  
"nonattainment area."

Book: 1/3 of country is nonattainment

No excuse for being downwind  
(Sacto- San Joaquin)

Enforcement-

1. Cut off highway funds
2. EPA runs program for you

Book: no enforcement for 81 areas out of compliance in 1989  
Permit System- focus on point/stationary source

What about clean air areas?

No significant deterioration (NSD)

APD issues permit

At time of permitting, it must use BACT (new source performance standards.)

Cumulative total for area is supposed to keep under ambient air quality standard (bubble for the air quality basin).

In practice, no more to squeeze from stationary sources.

Focus on non-point sources

e.g. fireplaces

deodorants

gardeners (blowers; mowers)

two stroke engines (snow and water ski jets)

hydrocarbon recovery (nozzle in non-attainment; paint vapors)

Inspection and Maintenance Programs -

one of the things states can do.

EPA very aggressive

Enforcement- The practical problem

Other key terminology-

review glossary