EPA Initiatives

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Discussion Overview

- Things I know a little about
- Things I know very little about
- Things I don’t know ...
Topics to be Covered:

- National Priorities
- Regional Priorities
Measures of Success (w/Enforcement Spin)

- State Partnerships
- State Program Integrity
- Human Health Impact
- Environmental Impact/Benefit
- Cost of Injunctive Relief
Things I Know A Little About

- National Priorities for Enforcement
- Regional Priorities for Enforcement
National Priorities: Air

- **New Source Review**
  - Cement Plants
  - Acid Plants
  - Glass Manufacturers

- **Air Toxics**
  - Flare Operations
  - Surface Coatings
  - LDAR
Flares Universe
Flares & 8-hr Ozone Nonattainment Areas

- 311 Facilities
- 1262 Facilities Nationwide
- 25% of Nation

- 2000 Flares
  - 300 fr Facilities
  - 1700 fr Natural Gas Compressor Stations
Potential Environmental Benefits

One billion lbs VOCs to flares (2005)

- 90% from Facilities
- 10% from Natural Gas Compressor Stations

New Technologies

- Automated Steam Assist
- Remote Detection with Infrared Camera
- Flare Gas Header Monitoring System
- Vents to Flare Header
National Priorities: Water

- CAFOs
- Combined Sewer Overflows
- Stormwater
CAFO UNIVERSE

2002 Inventory

1 Dot = 5,000

- Broilers
- Cattle
- Layers
- Pullets
- Turkeys
- Hogs

2002 TMDL segments
Potential Environmental Benefits

CAFO Pollutant Reduction Potential by State
(Billions of Pounds)

- TX: 1.2
- AR: 1.2
- OK: 0.6
- NM: 0.2
- LA: 0.2

Pollutant Reduction Potential - Species
(Billions of Pounds)

- Poultry: 2.3
- Beef: 0.6
- Dairy: 0.3
- Swine: 0.2

* Groundwater impacts would likely increase values at least 50%
National Priorities: Waste/RCRA

- CA Financial Responsibility
- Mineral Processing
- Surface Impoundments
Regional Priorities: Air

- 112r Pilot
- Oil & Gas – IR Camera
- Non-attainment Targeting
- Health-based Targeting
- Carbon Black
- Sugar Mills
- Bulk Terminals
Inhalation Targeting

Jefferson County, Texas Cumulative Inhalation Cancer Risk Profile for Residential Area
Aggregate Inhalation Impacts

Utilize facility unit-specific emissions information to conduct dispersion modeling and inhalation risk modeling to evaluate potential for offsite impacts.
Regional Priorities:  Water

- Drinking Water Quality & Health-based Limits
- SNC
- Targeting in Impaired Water-sheds
Regional Priorities: Waste/RCRA

- Multimedia
- Environmental Impact Emphasis
Things I Know Very Little About

- Multimedia Program Priorities
- (everything admittedly with an enforcement spin)
Air Program Priorities

- SIP Approvals
  - Esp. in Texas
  - HUGE issue in Texas
- Anyone Ever Heard of a Flexible Permit?
- Petition for Program Withdrawal ...
Water Program Priorities

- CAFO Rule
- WET Limits
  - Lethal
  - Sub-lethal
Waste/RCRA Program Priorities

- Land Reuse
- Resource Conservation Challenge
- Indoor Air ...
Things I Don’t Know

... but on which I’m willing to opine

- The Future
Program issues to watch …

**Air**
- Area Source MACT Standards
- New Ozone Standard
- GHGs

**Water**
- Raponos
New Ozone Standard 2008

Counties with Monitors Violating the 2008 8-Hour Ozone Standard of 0.075 parts per million (ppm)
(based on 2004-2006 Air Quality Data)

Notes:
1 345 monitored counties violate the 2008 8-hour ozone standard of 0.075 parts per million (ppm).
2 Monitored air quality data can be obtained from the AQS system at http://www.epa.gov/ttn/airsaqs/
Ground Level Ozone

County Monitoring Data
8-Hour Ozone Design Values

As of 03/11/2008, current 8-hour ozone standard = 0.08 ppm (allowed to go as high as 0.084 ppm). Design Values = 3-year average of the annual 4th highest 8-hour ozone maxima.

EPA will not designate areas as attainment or nonattainment for the revised primary ozone standard based on these data. EPA will likely base these designations on air quality data from 2006 through 2008 or later, which is expected to show air quality continuing to improve.

Sources:
US EPA AQS Dataset and State Agency Monitors.
Enforcement

- ... not broken but changing
- ... likely remain separate entity
- National Priorities – here to stay
- Region continue Air-centric path
- Metrics - no significant change
- Fewer cases - greater significance
- Activity numbers drop as targeting improves
Main Points to Remember

- State Partnerships
- State Program Integrity
- Human Health Impact
- Environmental Impact/Benefit
- Cost of Injunctive Relief
And...
Know Our Operational Philosophy

- Deference to States
- National Globals
- Regional Globals
We are evolving . . .
• We want to be predictable
• We want to be consistent
• We want to be equitable
• We value strong state programs!
Partnership

Hal  Steve  Peggy