

AWMA - October 2007

Session 5: More Hot Air

Baton Rouge Ozone Update

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Overview

- Fenceline Monitoring Project
- Plans
- 8-hr Ozone Status
- New Ozone Standard



Fenceline Monitoring Project

Background

- Some ozone exceedance days were showing increases of >40ppb per hour
- Texas was experiencing the same and had attributed the increases to HRVOC
- DEQ VOC monitors were picking up HRVOC
- Fenceline monitors were designed to help locate sources of HRVOC
- Orders issued to 15 facilities in BR area



Summary of Results

- Monitoring period: May-1-05 to Dec -31-06
- 1 million data points per month
- Approximately 2,500 samples analyzed
- Trigger set points higher than LDEQ monitors
- Plants found source about 25% of time
- Portion of samples contained HRVOC, especially ethylene and propylene



Results (continued)

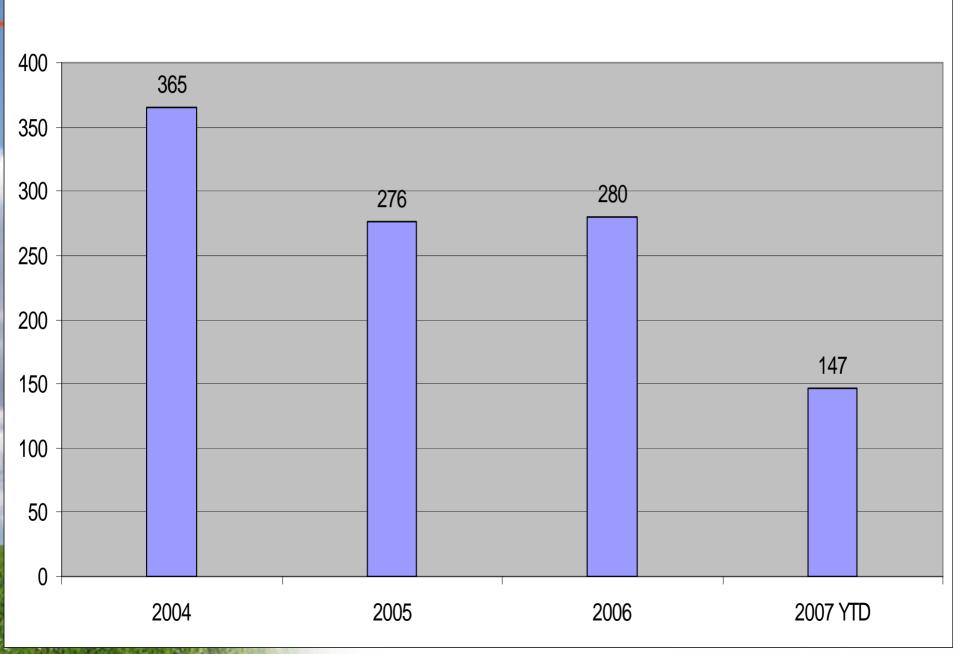
- Majority of samples contained evaporative gasoline compounds
- Monitors picked up large amount of emissions from floating roof tanks, especially during roof landings
- Plants attributed some emissions to flares
- Plants gained an increased awareness of the effect of operations on emissions



Results (continued)

- VOC strikes at DEQ monitors dropped by 25% (see graphs)
- Chapter 39 HRVOC reportable quantities (RQs) declined significantly (see table)

Strikes at DEQ Monitors





Results (continued)

- VOC strikes at DEQ monitors dropped by 25% (see graph)
- Chapter 39 HRVOC reportable quantities (RQs) declined significantly (see table)



Chapter 39 HRVOC Reportable Quantities: >100 lbs

		Total Amount	>1000	>10,000	Largest
	Number	(lbs)	(lbs)	(lbs)	(lbs)
2004	71	250,000	25	3	66,000
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2005	24	80,000	10	3	21,000
2006	29	57,300	11	0	9,800
Thru 10/1/07	22	66,800	7	3	22,300



Plans

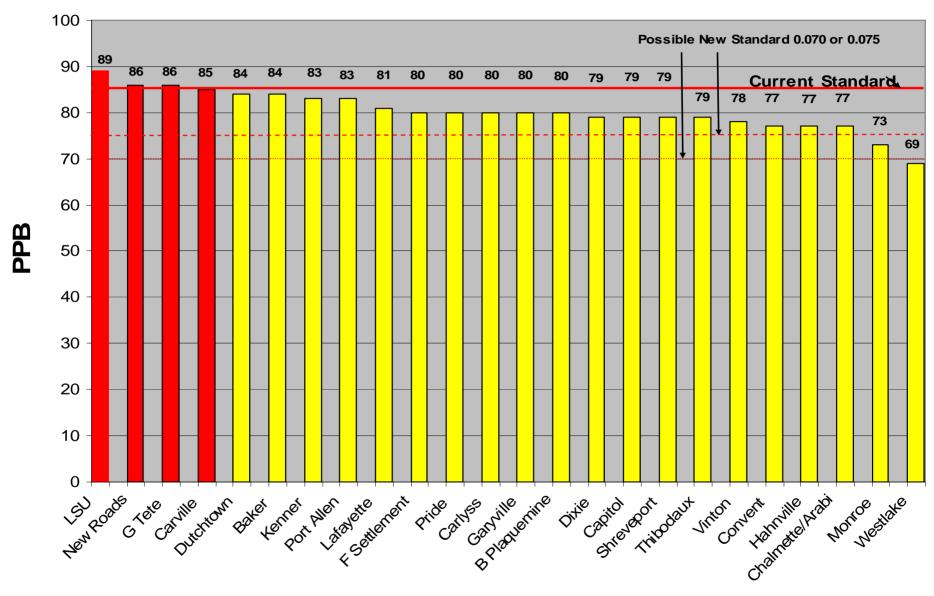
- One facility will put domes and vent controls on 13 floating roof tanks
- Some facilities are evaluating if non-emergency streams can be removed from the flare header
- DEQ is considering 'procedural' revisions to tank and flare regulations
- Will wait for model before considering major rule revisions



8-hr Ozone Status

- 4 monitoring stations in nonattainment
 - LSU April 30
 - Grosse Tete June 22
 - Carville June 22
 - New Roads (P Coupee) May 20
- 23 exceedances on 14 days
- Missed June 15, 2007 attainment date waiting for bump-up to 'moderate' by end of year

8-Hr Design Value as of October 1, 2007

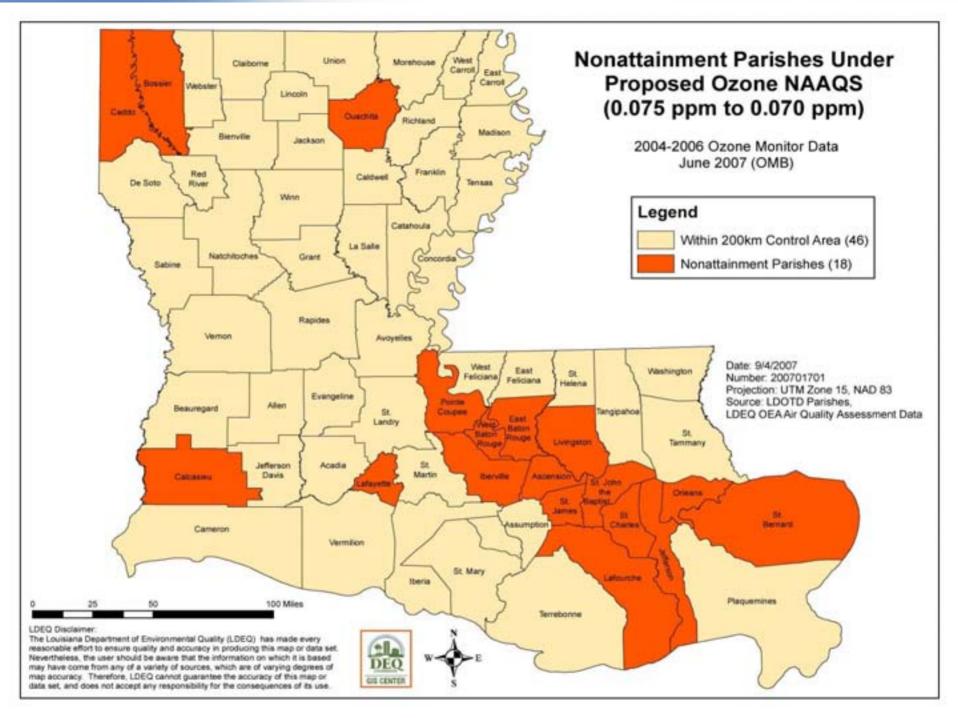


Site



New Standard Overview

- EPA has proposed revisions to lower the 8-hr ozone standard to the 70 to 75 ppb range.
- Also, considering 84 ppb and down to 60 ppb
- Revisions reflect new scientific evidence about ozone and its effects on people and the public welfare.
- Agency will issue final rule by March 12, 2008.





Federal Regulations Applied by 2020

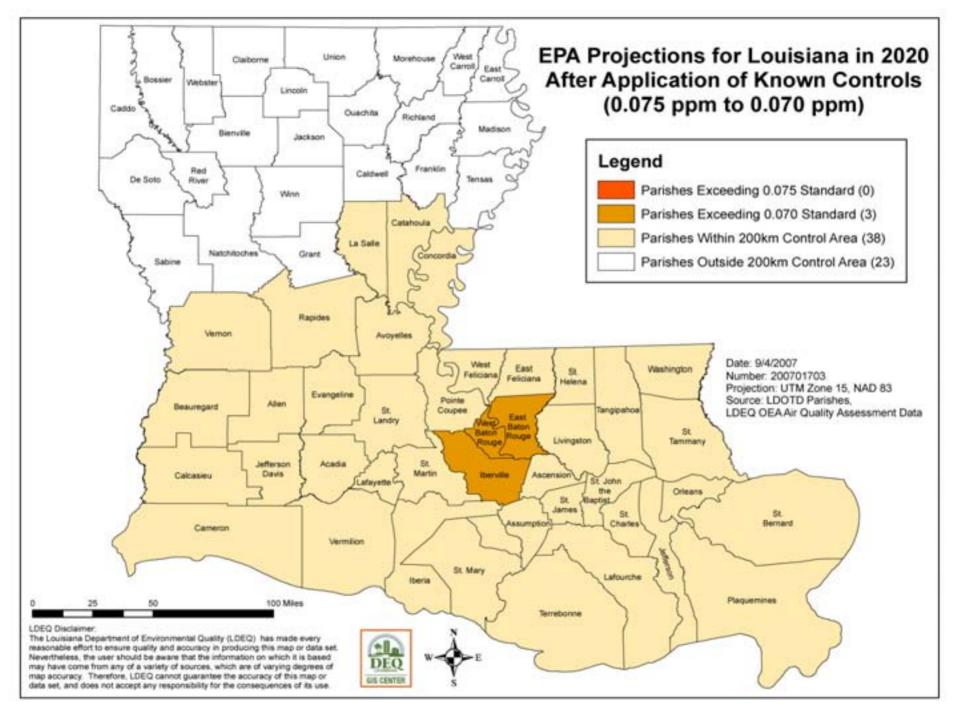
- CAIR
- CAMR
- Clean Air Visibility Rule
- Clean Air Nonroad Diesel Rule
- Light-Duty Vehicle Tier 2 Rule
- Heavy Duty Diesel Rule
- Locomotive and Marine Vessel Rule
- Small Spark-Ignition Engine Rule



EPA Proposal to Apply Known Controls by 2020

Applied in nonattainment parishes and parishes within 200 km (approx. 125 mi.)

- Point Sources maximum controls applied to industrial sources
- Controls on Area Sources (dry cleaners, bakeries, paint shops, etc.)
- Mobile Sources diesel trucks, continuous I/M, eliminate truck idling, commuter programs





The End