

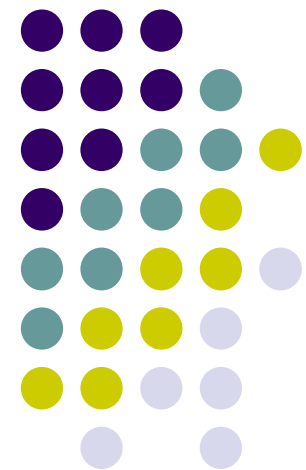
# SOx RECLAIM

## Working Group Meeting

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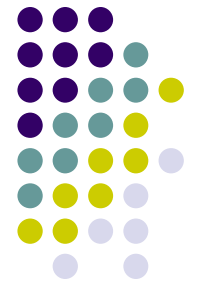
**South Coast  
Air Quality Management District**

**April 30, 2008**



# Feedback on Draft Staff Report

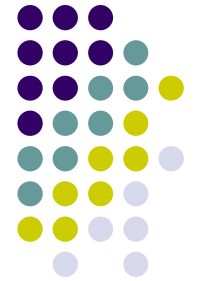
## Emission Inventory



- 33 RECLAIM Facilities. Top 11 Facilities.  
Top 7 Source Categories. Second Highest Ranking.
- 2002-03 Baseline
  - All Facilities: 11.70 TPD. Top 11 Emitting Facilities: 9.6 TPD
- 2005 Baseline
  - All 33 Facilities = 9.92 TP. Top 11 Facilities = 9.5 TPD
  - Top 7 Source Categories = 7.5 TPD (Average of Yr 2006 &2007)
- **2005 Baseline is Representative and Will Be Used As Baseline To Estimate Emission Reductions**
- **3 TPD SOx Reduction = ~ 45 TPD NOx Reduction or ~ 4.5 TPD PM2.5 Reduction**
- **Comments?**

# Feedback on Draft Staff Report

## Fluid Catalytic Cracking Units



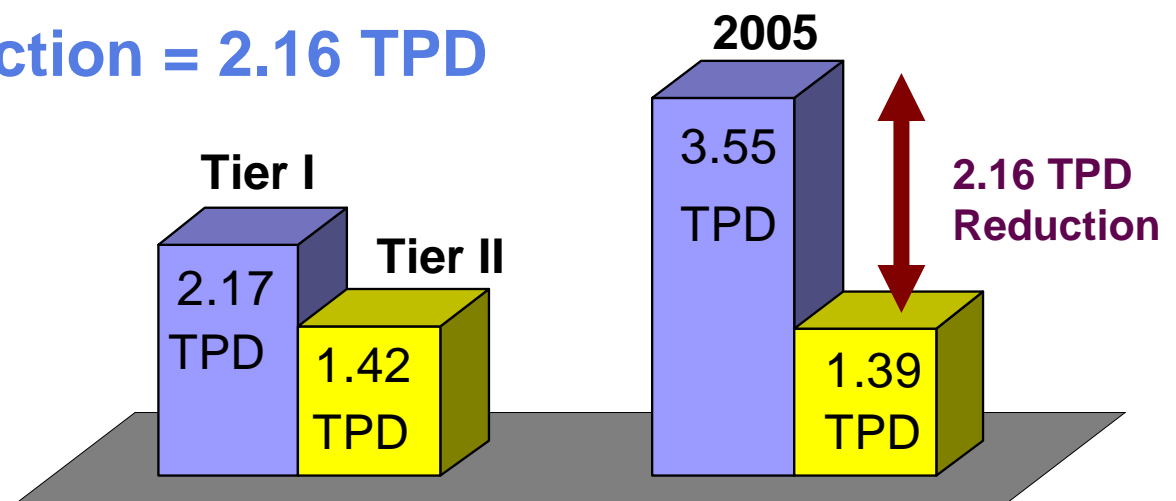
- **Survey Responses**

- Lowest 2005 Emission Rate = 7Lbs/MBarrels
- Lowest Outlet Concentration: 11 PPMV, Annual Average

- **Preliminary Draft Proposal**

- Hydrotreating, SOx Reducing Catalysts, Wet Scrubbers
- BARCT =  $\leq 7$  Lbs/MBarrels or  $\leq 10$  PPMV?
- Emission Reduction = 2.16 TPD

- **Comments?**



# Feedback on Draft Staff Report

## Refinery Boilers & Heaters



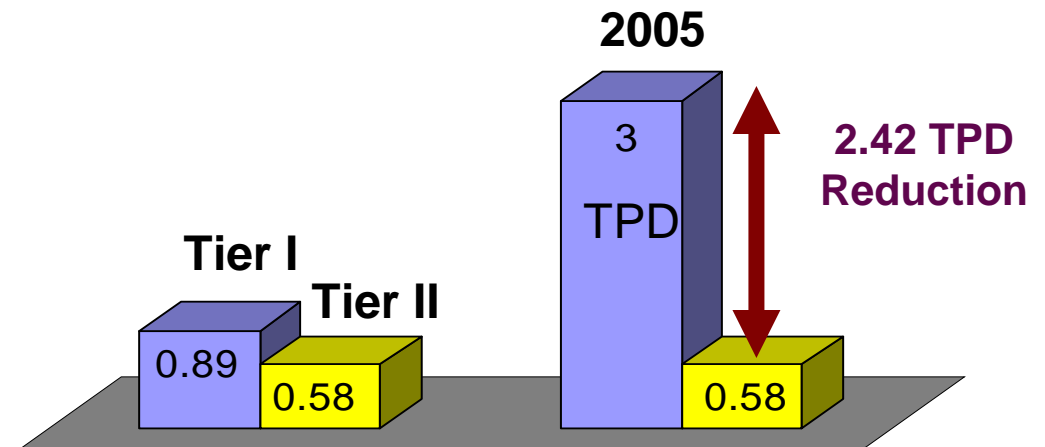
- **Survey Responses**

- Lowest Emission Rate = 23 PPMV Total Sulfur, 3 PPMV

- **Preliminary Draft Proposal**

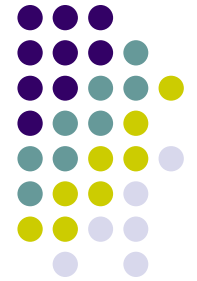
- Upgrading Fuel Gas Treatment System, Wet Scrubbers
- BARCT:  $\leq 25$  PPMV Total Sulfur,  $\leq 5$  PPMV SO<sub>x</sub>?
- Emission Reduction = 0.46 TPD - 2.42 TPD

- **Comments?**



# Feedback on Draft Staff Report

## Sulfur Recovery & Tail Gas Treatment



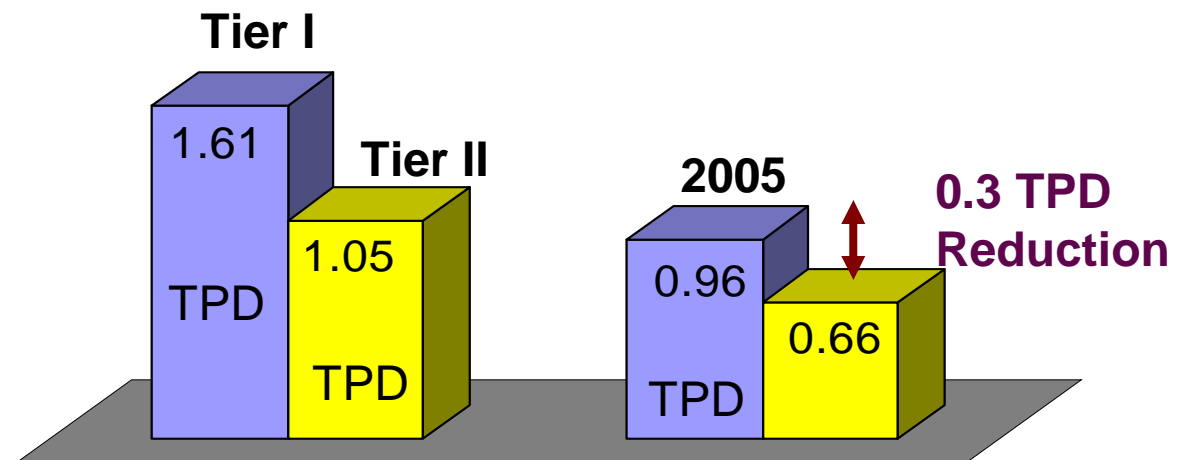
- **Survey Responses**

- Highest Sulfur Recovery Efficiency = 99.9% – 99.99%

- **Preliminary Draft Proposal**

- Upgrading SRUs/Tail Gas Systems, Wet Scrubbers
- BARCT:  $\geq 99.9\%$  Sulfur Recovery?
- Emission Reduction = 0.3 TPD

- **Comments?**



# Feedback on Draft Staff Report

## Sulfuric Acid Manufacturing Process



- **Survey Responses**

- Lowest Emission Rate: 0.22 Lbs/Ton – 0.36 Lbs/Ton, 26 PPMV from Facility With Wet Scrubber

- **Preliminary Draft Proposal**

- 0.2 – 0.3 Lbs/Ton?
- Emission Reduction = 1 TPD

- **Comments?**

# Feedback on Draft Staff Report

## Container Glass Manufacturing



- **Survey Responses**
  - Lowest Emission Rate: 0.63 Lbs/Ton, 80% Control
- **Preliminary Draft Proposal**
  - 0.1 Lbs/Ton, 99.9% Control?
  - Emission Reduction = 0.29 TPD
- **Comments?**

# Feedback on Draft Staff Report

Coke Calciner



- **Survey Responses**

- Current Emission Rates: 0.56 – 0.89 Lbs/Ton
- Lowest Emission Rates: 0.21 Lbs/Ton (Dry Scrubber), 0.14 Lbs/Ton (Wet Scrubber)

- **Preliminary Draft Proposal**

- 0.14 – 0.20 Lbs/Ton, 99.9% Control?
- Emission Reduction = 0.23 – 0.26 TPD

- **Comments?**



# Feedback on Draft Staff Report

## Cement Kilns & Coal-Fired Boiler



- Preliminary Draft Proposal
  - Scrubbers at 99% Control?
- Comments?

# Proposed Consultant Study



- Focus in Feasibility & Cost Effectiveness
- Site Specific Visits
- 3 Modules & 7 Sub-Modules
- Bid for Individual Module (or Sub-Module)
- Due By November 30, 2008

# A&WMA Conference



- **Innovative Control Strategies & Technologies for Stationary Sources**
- May 14, 2008 at Quiet Cannon, Montebello
- Conference Program
  - Federal, State and Local Perspective
  - SOx Reducing Catalysts Technology
  - Scrubbing Technology

# Tentative Schedule



- Next Working Group Meeting
- Public Workshop & CEQA Scoping: May-June
- Public Hearing: October-December