



Accelerating San Joaquin Valley Air Quality Progress

California Air Resources Board

November 15, 2007

Sacramento, CA

◆ ◆ ◆ Actions Since June Board Meeting

- ARB adopted strengthened State Strategy
- Carried out Board-level public outreach
- Staff completed additional review of District rules for stringency
- Staff recommending path forward: District and local government action, ARB focus on Valley

Progress with Strengthened SIP

Arvin	50%
Bakersfield - California Str.	93%
Bakersfield - Golden Ave.	100%
Clovis	100%
Edison	69%
Fresno - Drummond Str.	100%
Fresno - First Str.	87%
Fresno - Sierra Skypark	33%
Hanford	100%
Madera	100%
Maricopa	100%
Merced	100%
Modesto	100%
Oildale	75%
Parlier	63%
Shafter	100%
Sequoia N.F. - Mineral King Rd	100%
Sequoia N.F. - Lower Kaweah	100%
Stockton	100%
Tracy	100%
Turlock	100%
Visalia	100%

- 90% valley-wide improvement in compliance with federal standard by 2018
- 22 ozone monitoring sites valley-wide
- 4 attain today
- 15 projected to attain by 2018 (100% improvement)



ARB Measures Key to Valley Progress

- Strengthened ARB Strategy
 - Private diesel truck fleet rule
 - Construction equipment--SOON
 - Agricultural equipment--tractors
- 50% more mobile source reductions with September action
- Total Valley NOx reduced 70% by 2017
- NOx reductions key to attainment

Air Resources Board Valley Outreach

- Five task force meetings
 - Industry, environmental, government representatives
- Three community meetings
 - Merced, Parlier, Arvin
- Air Resources Board members participated in all the meetings

Recent ARB Reviews of Valley District Rules

- 2003: PM10 SIP
- 2003: Transport mitigation rule review
- 2004: 1-hour ozone SIP
- 2004: SB 656 PM rule assessment
- 2005: Program review
- 2006: 8-hour ozone SIP
- 2007: Re-review of 8-hour ozone SIP

Latest ARB Revisit of Valley Rules

- Latest review covered >90% of stationary NOx inventory
 - Gas and Liquid Fuel-fired Boilers
 - Solid Fuel-fired Boilers
 - Stationary Gas Turbines
 - Stationary Internal Combustion Engines
 - Glass Production Furnaces
 - Dryers, Dehydrators, and Ovens
 - Flares
- Also looked at: Composting and Biosolids, Dairies, Burning



Major District Rulemakings

- Since 2000, 16 significant NOx rules
 - Boilers, dryers and dehydrators, IC engines, glass furnaces, turbines
- In 2005, adopted first-in-state indirect source rule
- In 2006, complied with ARB regulation for dairies and livestock operations

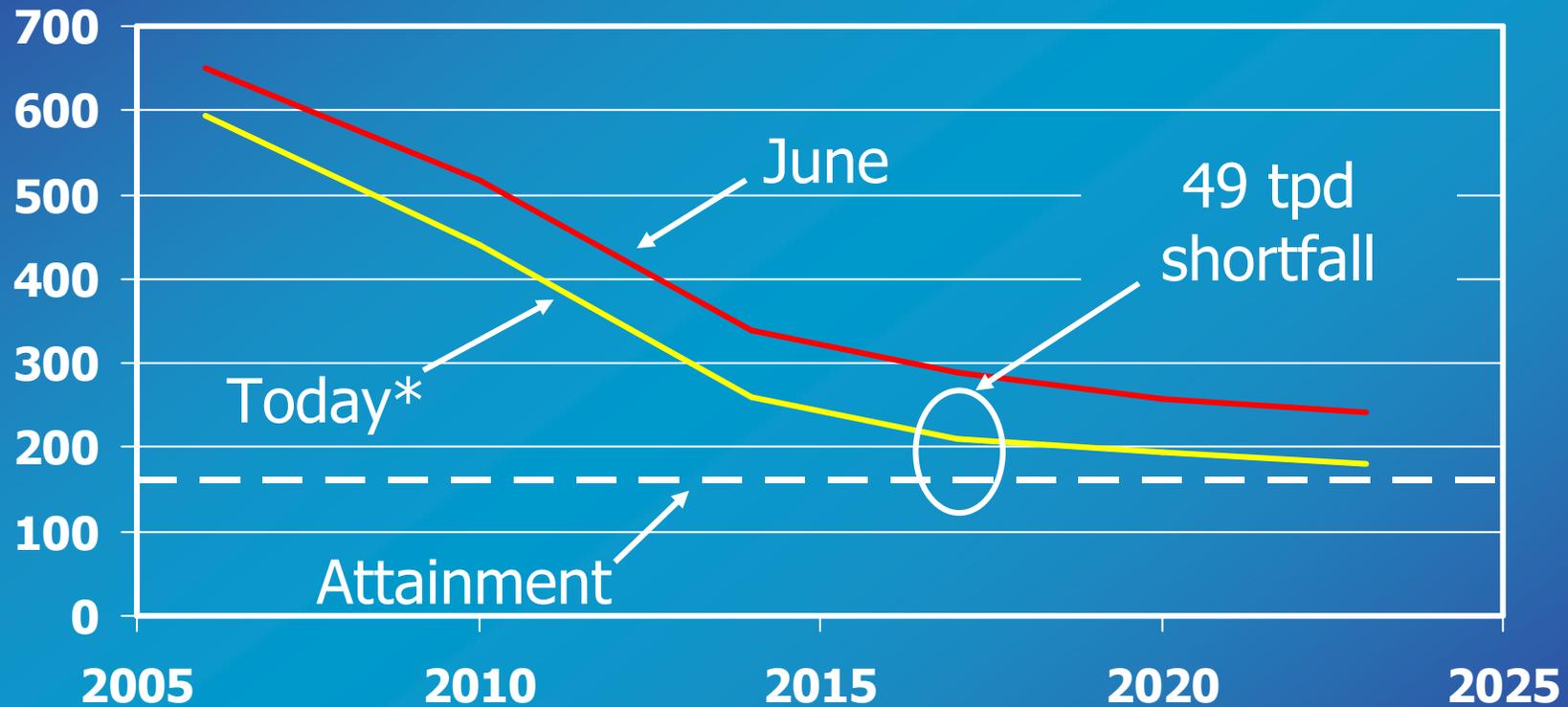
Feasibility of Industrial Control Technologies

- High level of control in place
- Quantification of additional incremental benefit needs source-by-source analysis:
 - Can it be installed?
 - Are the operating conditions the right ones?
 - Will it interfere with existing controls?
 - Is it cost-effective?

Emission Inventory Improvements

- Natural gas category historically over-estimated: analysis complete
- More complete accounting of District rule benefits: early 2008
- ARB refining diesel truck inventory as part of rulemaking: late 2008
- Refined agricultural equipment inventory: 2008/2009

Progress Toward Attainment (NOx emissions, tpd)



*Includes strengthened SIP measures and estimated inventory refinements



How big is 49 tpd?

NOx reductions in 2017

- Construction rule with SOON 10 tpd
- Agricultural equip. measure 5-10 tpd
- Strengthened truck measure 62 tpd

ISSRC Ideas Complete or In Process

- Adopted turbine rule
- Secured incentives
- SOON
- Clean Air Days
- Open burning
- Agricultural IC Engines

ISSRC Ideas Without Adequate Foundation

- Further strengthened construction rule and proposed Ag equipment measure
- SCR on all glass plants
- Further control on dryers and dehydrators



Large ROG Sources

- Large emissions: 135 tpd in 2017
- District rulemaking underway
- Livestock waste: pursue co-benefits of GHG measures for manure management
- Composting and biosolids: needs multi-regional, multi-media approach

SIP Needed to Set New Conformity Budgets

- Time has run out on old budgets
 - Used old model and data for October analysis
 - No longer option under federal regs.
- Federal approval of TIPs next October
- New federal public process requirements
- Caltrans has moved its schedule up from August 1st to June 1st

SIP Submittal Timing for Conformity

- Caltrans deadline June 1st
- COG adoption May
- Draft TIPs in early 2008
 - Public process must include conformity findings
- U.S. EPA 90-day budget review process
 - Mid to late February
- Submittal needed now for transportation plans

◆ ◆ ◆ Staff Recommendations ◆ ◆ ◆ to Accelerate Progress

- District: push technology for local sources, provide regional leadership
- Local government: address growth impacts and use CMAQ effectively
- ARB: continue aggressive mobile source actions, push technology, maintain Valley focus



Conclusion

- Strengthened SIP provides 90% progress toward federal standard by 2018
- Recommended actions will help maintain new technology focus
- Legal attainment deadline remains
- Remaining emission reduction challenge reduced:
 - 2017: cut by over one-half
 - 2023: reduced to one-fourth