



Board Update 2007/08 State Implementation Plan

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SIP Development Overview

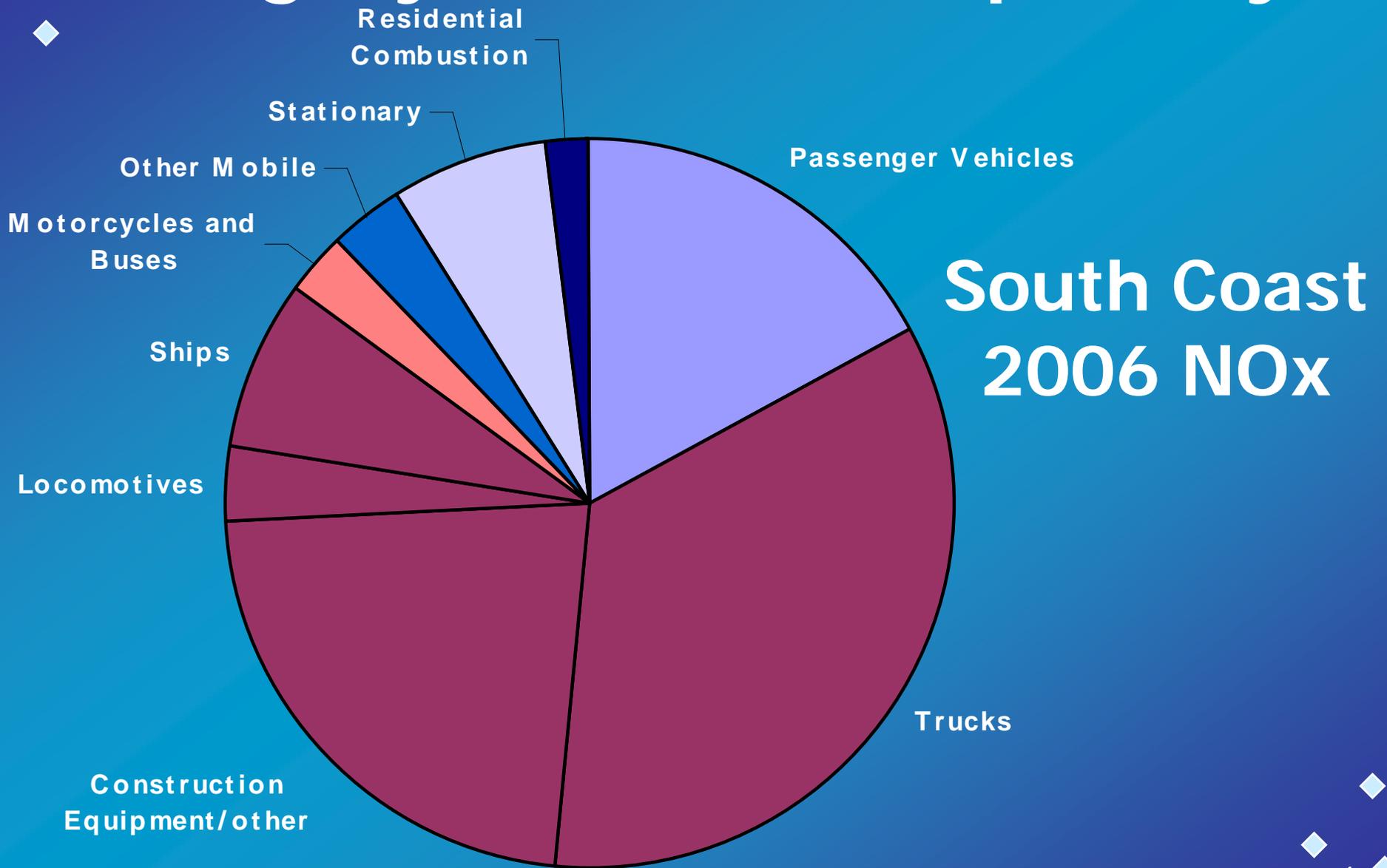
- San Joaquin PM2.5 – on track for 2015 attainment
- South Coast PM2.5 – incomplete
- South Coast and San Joaquin ozone – controversial but federally approvable



South Coast PM2.5 Problem

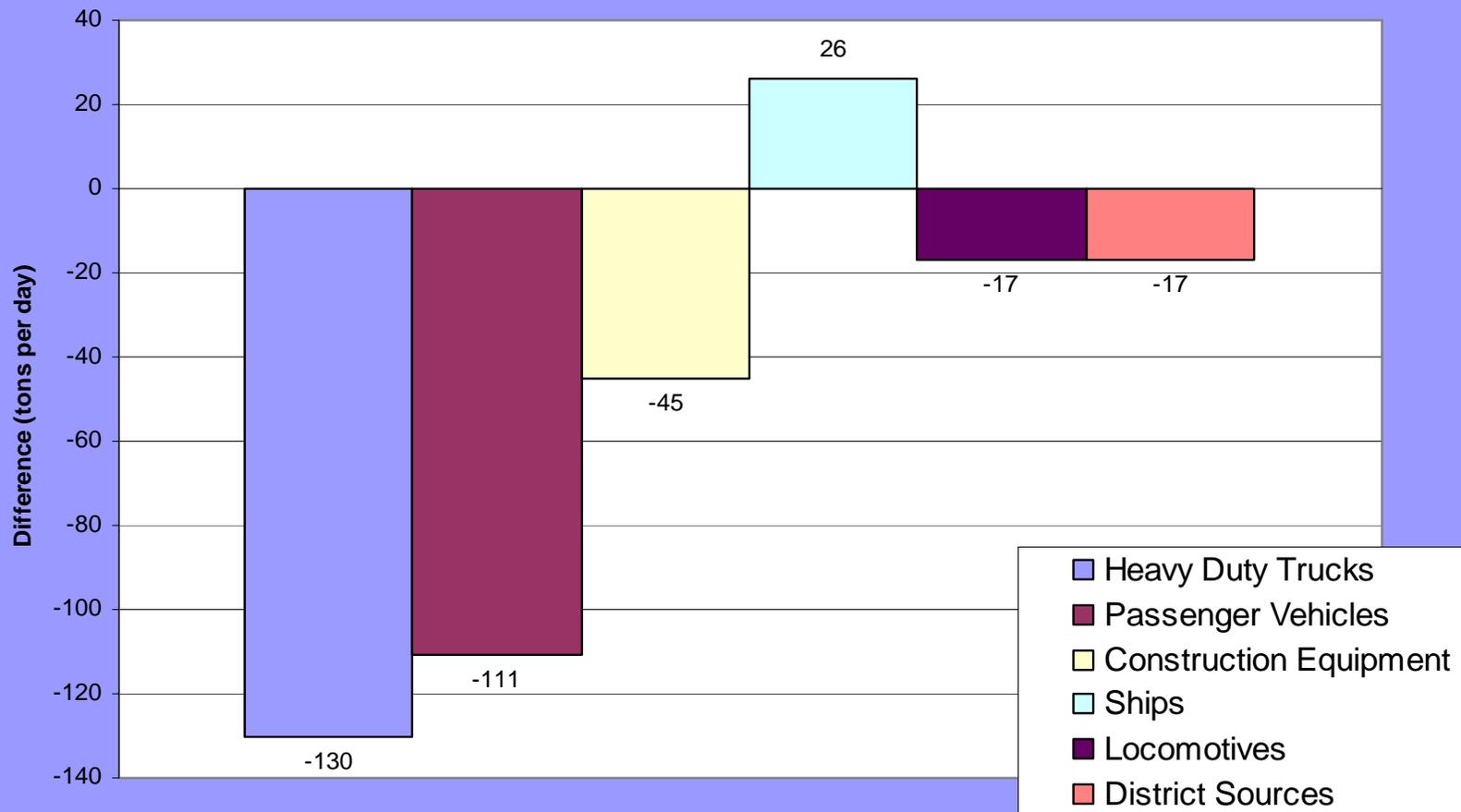
- Clean-up of legacy diesel fleet is key
- Cleanest U.S. EPA NOx standards:
 - Construction: 2013-15
 - Trucks: 2010
 - Locomotives: 2017 (proposed)
 - Marine: 2017 (proposed)
 - Ships: (none yet)

Legacy Fleet Clean-up is Key



South Coast
2006 NOx

NOx Emission Changes South Coast, 2006 - 2015





◆ Dual Diesel PM and NOx Goals

- Near-term diesel PM reductions ARB focus since 2000
- Now overlaying NOx reductions needed for PM_{2.5} and ozone attainment
- ARB rulemaking balancing dual goals



Approach for Diesel Fleets

- PM retrofits where available
- Engine/equipment replacement for NOx
- NOx retrofit not currently available
- Pursue early PM retrofits and accelerate introduction of NOx technology as it becomes available



◆ Staff Proposals for ARB Action

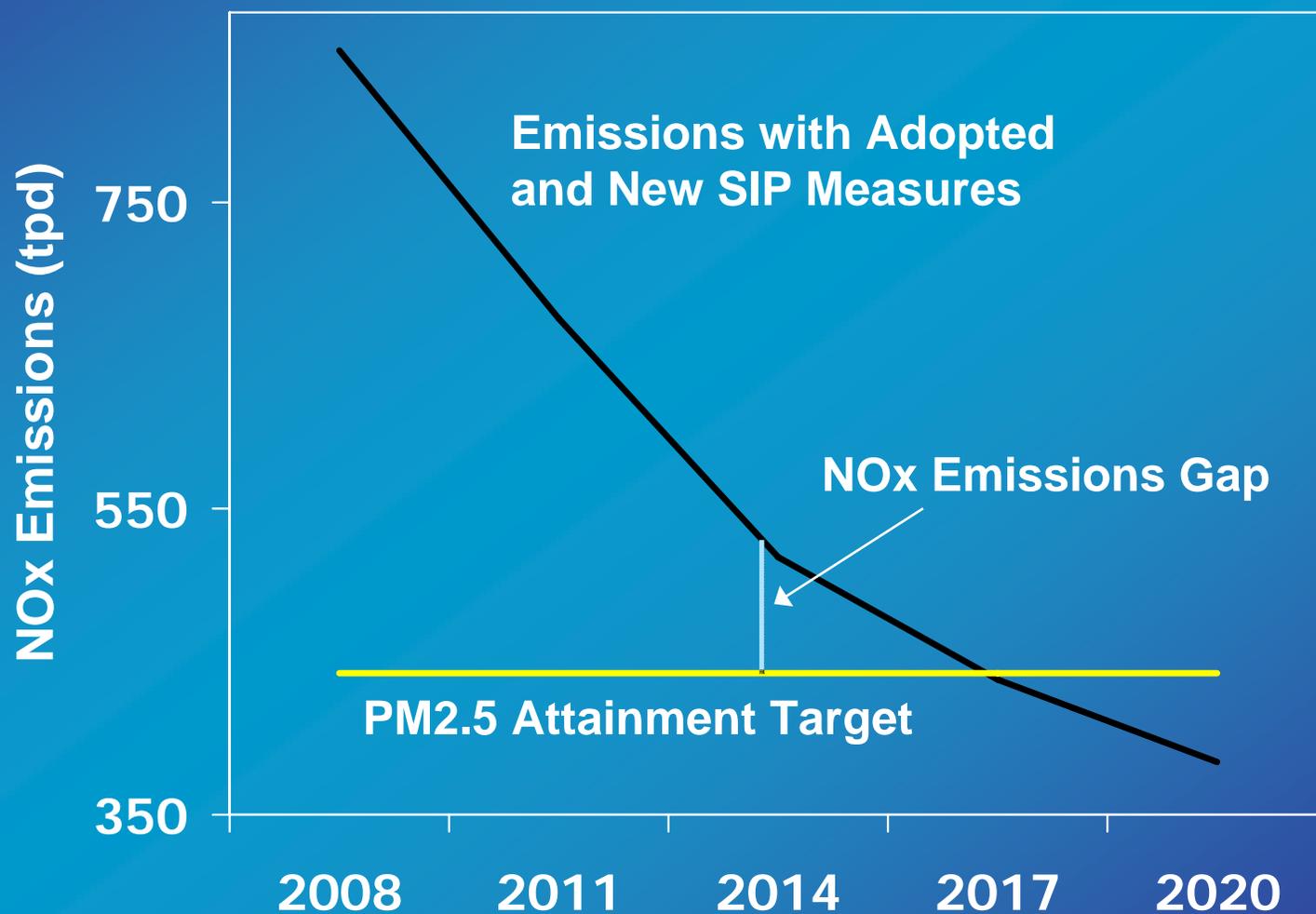
2014 NOx Reductions So. Coast (tons/day)

Construction fleet	13.8
Truck fleet	49.3
Passenger vehicles	14.4
Ships & Harbor Craft	43.1
Locomotives	<u>4.3</u>
TOTAL	125

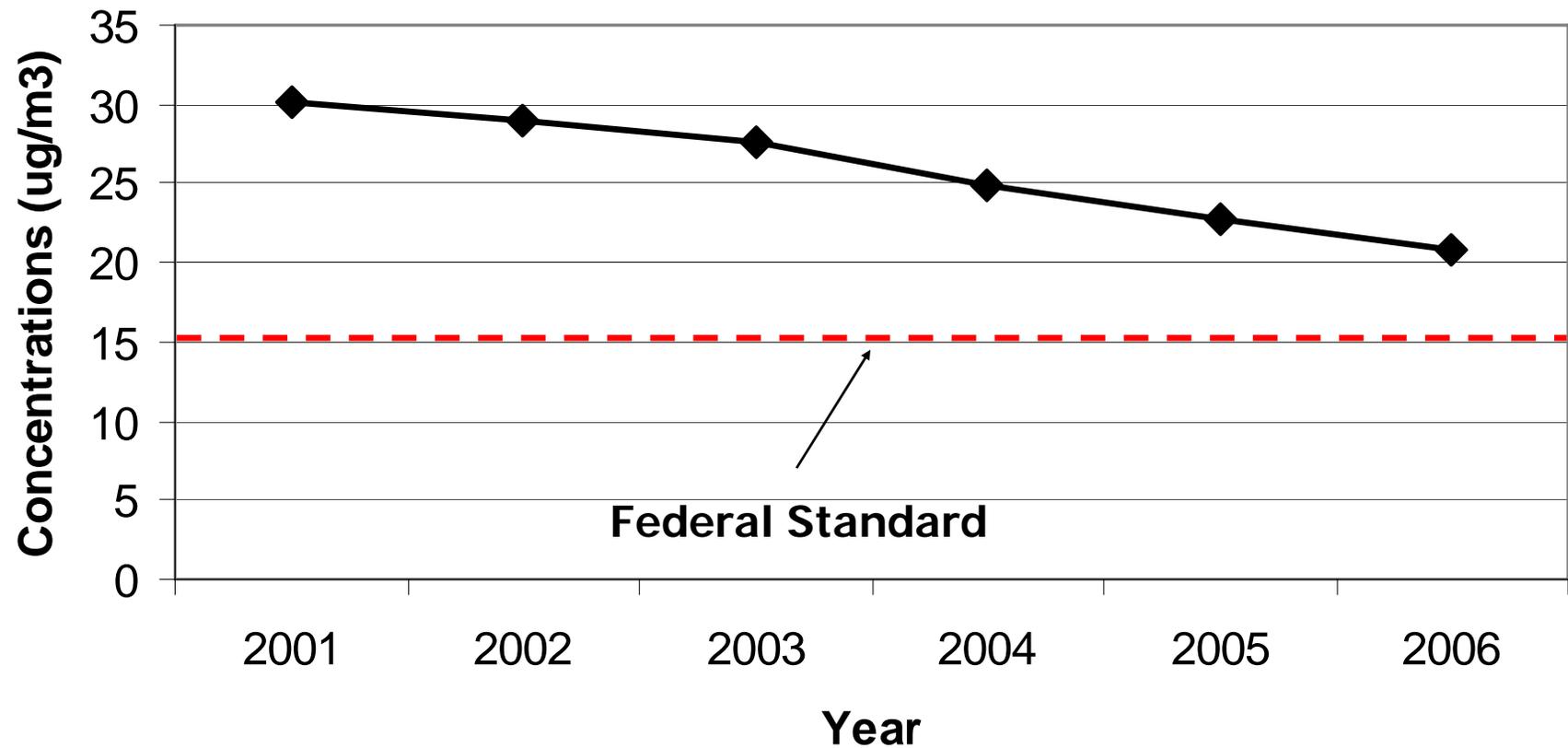
2014 Emissions Shortfall (tons per day)

	NOx	ROG	SOx	Direct PM2.5
Emission Reductions Needed	203	59	24	14
Reductions from New Measures	132	52	23	11
Shortfall	71	7	1	3

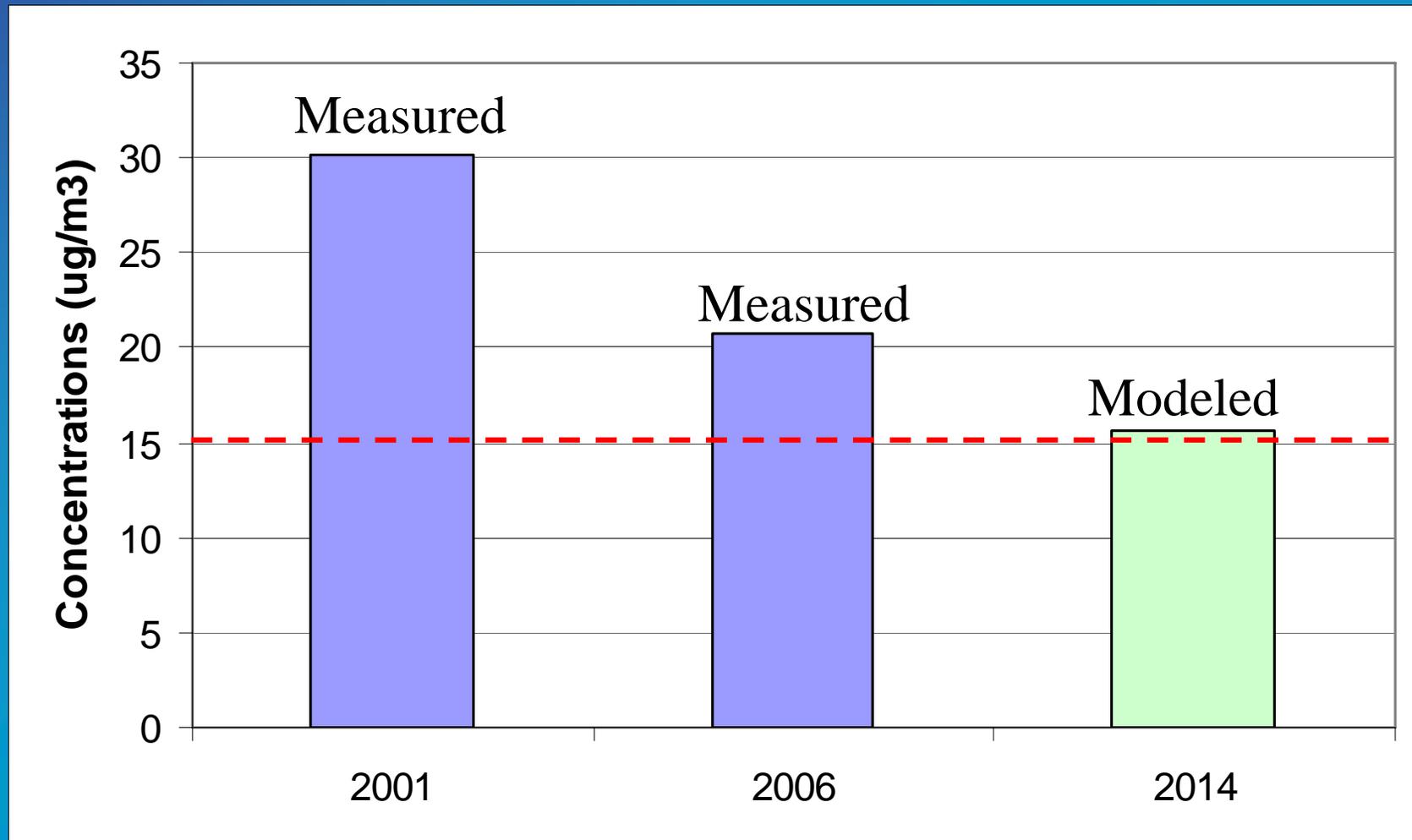
NOx Emission Trend



South Coast PM2.5 Monitoring (Rubidoux)



South Coast PM2.5 Air Quality and Modeling (Rubidoux)





SIP Legal Framework

- Federal Clean Air Act requires that SIPs be enforceable
- U.S. EPA rules establish criteria for SIP approval
- Court decisions frequently factor in
- EPA PM_{2.5} implementation rule expected by March 30, 2007
- State law charges ARB with ensuring SIPs are approvable



◆ Nature of Board Commitments

- Staff will propose tonnage commitments for attainment
- Staff will propose schedule for measure consideration
- Adopted commitments are enforceable once approved by U.S. EPA



◆ Topics for Upcoming Workshops

- Can monitoring and modeling be reconciled?
- Can further reductions be achieved by 2014?
- Is it possible to “buy” sufficient tons by 2014?
- Can SIP rely on NOx retrofit technology not currently available?



ARB Public Process

- Third round of ARB Workshops – April 5, 10 and 25
- ARB staff proposed SIP commitments and new reductions (public review document)
- ARB staff reports on local plans (public review document)
- Noticed ARB public hearings - June 14 (SJV) and June 21 (SC)