
Control Measures Work in the Region

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Topics—Candidate measures for

- EGUs and other ICI Boilers
- Mobile Sources
- Other Sources
- Inter-regional Coordination

Note: multi-pollutant approach for ozone, PM, and haze, with consideration of co-benefits for reducing toxic air pollutants

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EGUs and other ICI Boilers

- CAIR is important, but not enough in some areas
- CAIR does not cover all sources covered by the NOx SIP call
- Some states are considering their own regulations or Clean Smoke Stacks Bills
 - E.g., extending the NOx SIP Call year-round
- Going beyond CAIR on a multi-state basis can provide significant improvement

Mobile Sources

- Many states have proposed or adopted to adopt California LEV standards for new vehicles
- State- or Region-wide RFG will be considered
- Reducing diesel emissions is a priority
 - Anti-idling, truck stop electrification, and retrofit programs underway
 - Northeast and Mid-Atlantic Diesel Collaboratives formed to facilitate coordination

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Other sources of VOC (etc.)

- Barge lightering off the Delaware coast—state rule under development
- Refinery emissions—developing permits to implement EPA consent orders and MARAMA studying need for additional regulations
- Evaluating AIM and Consumer Products programs
- Residential wood combustion RACM

Other Point Sources

- Distributed generation regulations—OTC model rule and state initiatives
- Controls for blast furnaces and coke ovens may be strengthened
- Controls for cement kilns may be strengthened
- Locomotives and marine vessels are becoming more important

Other Sources

- Outdoor wood burners will be regulated
- A regional initiative to limit the sulfur content of home heating fuel is being considered
- Voluntary measure packages likely
- In the long run, ammonia sources may be an issue, particularly after the PM-2.5 standard is strengthened

Coordination with other regions

- LADCO Phase I and II Candidate Measures
- VISTAS state-by-state analyses
- Many options have already been implemented in the OTR
- Additional ideas being investigated

LADCO Phase I Candidate Measures

- Point sources

- Electric Generating Units
- Industrial/Commercial/Institutional (ICI) Boilers
- Cement Kilns
- Petroleum Refineries
- Iron & Steel Plants
- Chemical Plants
- Surface Coating
- Degreasing

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LADCO Phase I Candidate Measures

- Area Sources
 - Industrial Surface Coating
 - Degreasing
 - Architectural Coatings
 - Portable Fuel Containers
 - Consumer Products
 - Auto Refinishing
 - Gasoline Dispensing Facilities

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LADCO Phase II Candidate Controls

- Mobile Sources—On-Road
 - CA LEV Program
 - Scrappage (high emitting vehicles)
 - Private fleet programs (fuel, LEV)
 - HDDV I/M Program, diesel retrofits, idle restrictions
 - Truck stop electrification
 - TCMs

LADCO Phase II Candidate Controls

- Nonroad Mobile Sources
 - Accelerated equipment turnover
 - CA engine standards
 - Locomotive controls
 - Diesel retrofits
 - Lawnmower buy-backs

VISTAS Control Measures Analysis

- State-by-state assessments of opportunities for additional reductions such as:
 - Clean Smoke Stacks bill or statewide combustion source NOx controls
 - I/M programs
 - Open burning restrictions
 - Early action compacts
 - Clean fuel requirements

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Conclusions

- Regional and local measures needed
- NOx and VOC are important for ozone
- Voluntary and mandatory measures will be considered
- Benefits for ozone, PM, haze, and toxics will all be considered
- Inter-regional coordination is underway
- No one control measure will be sufficient

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