

CAAAC AQM Recommendations Implementation

Report to CAAAC

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Today's Meal Plan

- **Breakfast- *The Big Picture***
 - *What EPA is doing and how*
- **Dinner- *The Main Meal***
 - *Substantive discussion of recommendation status*
- **Dessert- *Final Comments***
- **Restaurant Review- *Final Feedback***
 - *Questions for the Committee*

Who's in the Kitchen?

- Each Recommendation has a team working on it.
- Teams are made up of EPA staff from across headquarters and the Regional Offices plus interested stakeholders
- Matrix shows the Head Chef
- Packet has more information about workplans for those interested

Breakfast

- **Setting Priorities**
 - CAAAC gave us the menu we are working from– 38 recommendations
 - This is a LOT of “food” for thought
 - How do we set priorities?
 - Comparing oranges, apples, bananas and pineapples
- **CAAAC Subcommittees are participating**
 - OTAQ recommendations being done through Mobile Sources Subcommittee of CAAAC
 - Subcommittee on Economic Incentives and Regulatory Innovation is providing some specific input.

Breakfast Continued

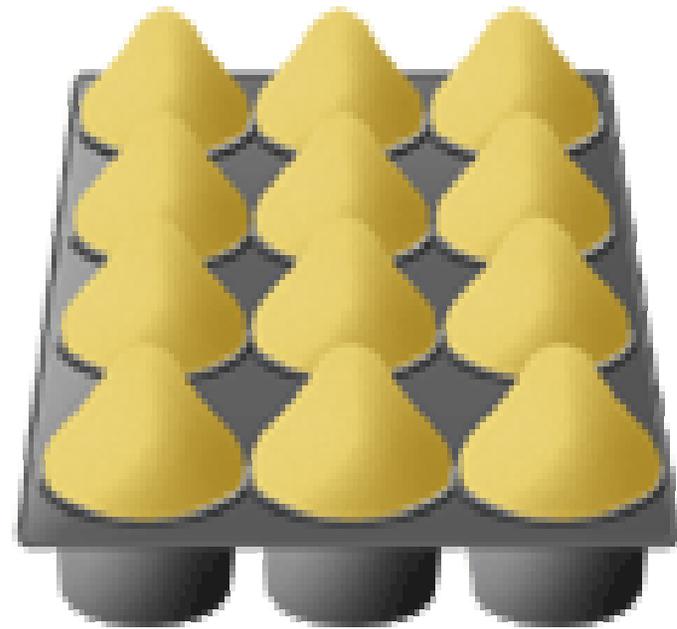
Bakery Items:

The timing for work on the 38 recommendations varies



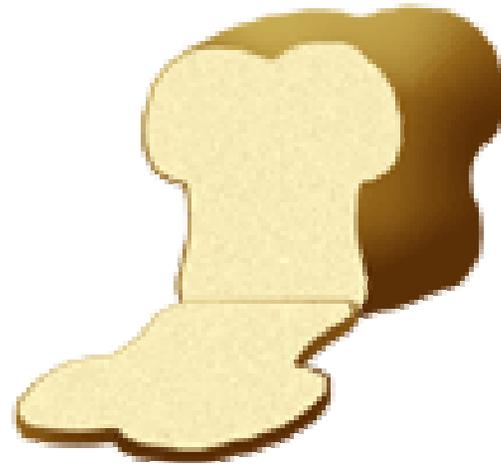
“Quickbreads”

- One third of the recommendations have already been or are being implemented; e.g.:
 - 2.5 Heavy-Duty Diesel
 - 3.3 SIP Clearinghouse
 - 3.4 Streamline Minor SIP Revisions
 - 4.3 Greenhouse Gas Co-benefits and Disbenefits



“Yeast Breads” – Need Time to Rise

- Another third are underway but won't be complete until later; e.g.:
 - 3.2 Protocol for SIP Development
 - 3.12- Regional Approaches to SIP Planning
 - 3.16- ABT in Gasoline Sulfur Program



“Sourdoughs” – Require a Starter

- Certain recommendations are long term changes
- Long term planning has begun
- Over \$1M committed already
- Mostly S&T recommendations



Dinnertime



Major NRC Recommendations- a Five Course Meal

1. Strengthen Scientific and Technical Capacity
2. Expand National and Multistate Control Strategies
3. Transform the SIP Process
4. Develop Integrated Program for Criteria and Hazardous Air Pollutants
5. Enhance Protection of Ecosystems and Public Welfare

NRC 1: Strengthen Scientific and Technical Capacity

RECOMMENDATION 1: Strengthen Scientific and Technical Capacity

ACTIONS: Improve emissions tracking, enhance air pollution monitoring, improve modeling, enhance exposure assessment, improve health and welfare assessment, track implementation costs, and invest in research and human and technical resources

NRC 1: Strengthen Scientific and Technical Capacity

- 1.1 Improve emissions measurements and reporting.
- 1.2 Improve emissions factors and emission estimation methods.
- 1.3 Quantify and take actions to reduce uncertainty in emissions inventories and air quality modeling applications.
- 1.4 Promote and improve integrated, multipollutant monitoring.
- 1.5 Undertake a systematic effort to track air quality achievements and evaluate air program results.

NRC 2: Expand National and Multistate Control Strategies

RECOMMENDATION 2: Expand National and Multistate Control Strategies

ACTIONS: Expand federal emission controls, emphasize technology-neutral standards, use market-based approaches, reduce existing-sources emissions, and address multistate regional transport

NRC 2: National/Multistate Strategies

Further Study and Possible National and Regional Regulations (stationary categories)

2.1 Industrial, Commercial, and Institutional Boilers

2.2 Industrial Surface Coatings

2.3 Non-Industrial Solvents

2.4 Architectural Surface Coatings

NRC 2: National/Multistate Strategies

Further Study and Possible National and Regional Regulations (mobile)

2.5 Existing heavy duty diesel fleet

- In-use testing
- Retrofits
- Idling practices
- Some supported more aggressive actions including retirements and retrofits

NRC 2: National/Multistate Strategies

Further Study and Possible National and Regional Regulations (mobile)

2.6 Emissions from ships, locomotives, aircraft, and mobile source air toxics

- Technology-forcing engine standards
- Fuel reformulations to address air toxics
- Development of model programs for operations at seaports, rail yards, and airports
- Regulatory initiatives already in the pipeline

NRC 2: National/Multistate Strategies

Evaluation of Additional Emissions Reductions Potential and Cost-Effectiveness (stationary)

2.7 Cement manufacturing, petroleum refining, pulp and paper

- Regulated but still significant emissions

2.8 Residential fossil fuel combustion

- Expand Energy Star program
- Low Sulfur fuel
- Work with manufacturers on incentives

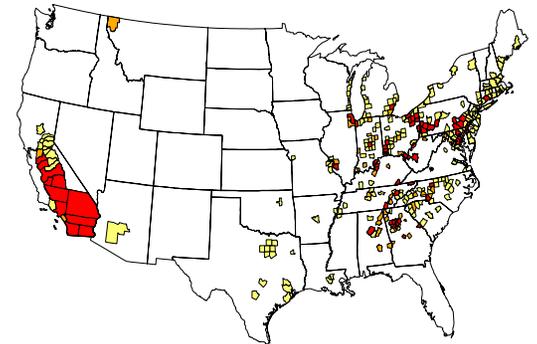
NRC 2: National/Multistate Strategies

National Guidance for Local Controls

2.9 Guidance by Oct 2005 to support upcoming ozone and PM_{2.5} SIP submittals

2.10 Residential wood smoke

2.11 Open burning



NRC 2: National/Multistate Strategies

Nat'l Guidance for Local Controls (cont)

2.12 High emitting gasoline vehicles

- Improve inventories
- Enhance in-use testing capabilities
- Support local testing and enforcement

2.13 Conformity

- Transportation planning should continue
- Protect sensitive populations/expand emissions budgets to limit other sectors

NRC 3: Transform the SIP Process

RECOMMENDATION 3: Transform the SIP Process

ACTIONS: Replace state implementation plan with integrated multipollutant air quality management plan and reform process to focus on tracking results using periodic reviews, encouraging innovative strategies, and retaining conformity and federal oversight

NRC 3: Transform the SIP Process

Streamlining the SIP Process

3.1 Align SIP Submittal Dates

3.2 Protocol for SIP Development

3.3 Clearinghouse of Approved SIPs

3.4 Streamline Minor SIP Revisions

3.5 Timely EPA Guidance

3.6 Avoid Unnecessary Public Hearings

3.7 Facilitate Redesignation Process for Certain Areas

NRC 3: Transform the SIP Process

Measures to Improve Communication to the Public

3.8 Effective Communications with Constituencies

3.9 Co-Benefits of Innovative Measures

NRC 3: Transform the SIP Process

Steps to Increase Adoption of Innovative Measures

3.10 Innovative and Voluntary Measures

3.11 SIP Credits for Bundled Innovative Measures

NRC 3: Transform the SIP Process

Increasing Collaboration in SIP Planning and Control-Strategy Development

3.12 Regional Approaches to SIP Planning

3.13 Federal and State Partnerships

NRC 3: Transform the SIP Process

Steps to Improve Tracking and Evaluation of Results

3.14 Weight-of-Evidence Demonstrations

3.15 Periodic Assessments to Track Progress

3.16 Averaging, Banking, and Trading in Gasoline Sulfur Program

NRC 4: Develop Integrated Program for Criteria and Hazardous Air Pollutant

RECOMMENDATION 4: Develop Integrated Program for Criteria and Hazardous Air Pollutants

ACTIONS: Set priorities for pollutants, institute dynamic review of pollutant classification, list potentially dangerous but unregulated pollutants, address multipollutants in standard-setting process, and enhance residual assessment

NRC 4: Develop Integrated Program for Criteria and Hazardous Air Pollutant

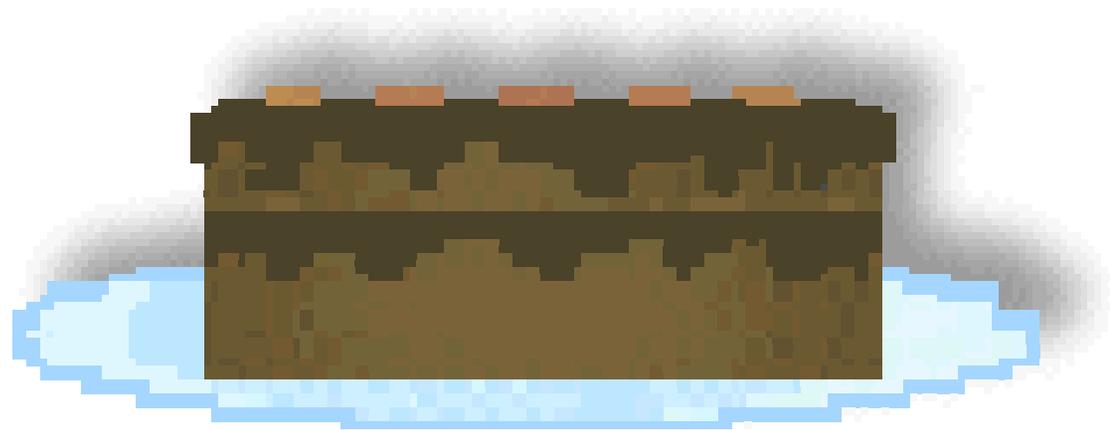
- 4.1 SIPS to Address Multipollutant Impacts
- 4.2 Multipollutant Benefits and Disbenefits in Standards Setting
- 4.3 Greenhouse Gas Co-benefits and Disbenefits

NRC 5: Enhance Protection of Ecosystems and Public Welfare

RECOMMENDATION 5: Enhance Protection of Ecosystems and Public Welfare

ACTIONS: Conduct review of standards to protect public welfare, develop ecosystem monitoring networks, establish acceptable ecosystem exposure levels, promulgate secondary standards, and track progress

Dessert- Final Comments



Restaurant Review

- How does CAAAC want to be kept informed?
 - Workplans on the web, notices of updates
 - Other information?

