

Revised Draft

**Air Resources Board's
Proposed State Strategy for California's
2007 State Implementation Plan**

Release Date: April 26, 2007

California Environmental Protection Agency



Air Resources Board

This document has been prepared by the staff of the California Air Resources Board. Publication does not signify that the contents reflect the views and policies of the Air Resources Board. The Air Resources Board will consider this document as a revision to the California State Implementation Plan at a noticed public meeting tentatively scheduled for June 21-22, 2007.

Electronic copies of this document can be found on ARB's website at <http://www.arb.ca.gov/planning/sip/sip.htm>. Alternatively, paper copies may be obtained from the Public Information Office, Air Resources Board, 1001 I Street, Visitors and Environmental Services Center, 1st Floor, Sacramento, California 95814, (916) 322-2990.

For individuals with sensory disabilities, this document is available in Braille, large print, audiocassette, or computer disk. Please contact ARB's Disability Coordinator at (916) 323-4916 by voice or through the California Relay Services at 711, to place your request for disability services. If you are a person with limited English and would like to request interpreter services, please contact ARB's Bilingual Manager at (916) 323-7053.

This document has been prepared by the staff of the California Air Resources Board. Publication does not signify that the contents reflect the views and policies of the Air Resources Board, nor does trade names or commercial products constitute endorsement or recommendation for use.

Please send written comments to:

Mr. Kurt Karperos, P.E., Chief
Air Quality and Transportation Planning Branch
California Air Resources Board
P.O. Box 2815
Sacramento, California 95812
Phone: (916) 322-0285
Fax: (916) 322-3646

For general questions, contact:

Mr. Ravi Ramalingam, P.E., Manager
Transportation Strategies Section
Phone: (916) 322-2085
Email: rramalin@arb.ca.gov

**Air Resources Board's
Proposed State Strategy for California's
2007 State Implementation Plans**

TABLE OF CONTENTS

| | |
|---|-----------|
| EXECUTIVE SUMMARY | 1 |
| 1. BACKGROUND | 11 |
| • General SIP Requirements | |
| • National Air Quality Standards | |
| • Health Effects of Ozone and PM2.5 | |
| • Nonattainment Areas and Air Quality Trends | |
| • Development of State Strategy | |
| • Air Pollution Transport | |
| • Other Programs | |
| 2. TECHNICAL FOUNDATION..... | 25 |
| • Emissions Inventory Overview | |
| • Forecasting Future Emissions | |
| • Top Emission Sources | |
| • Setting the Emission Reduction Targets | |
| 3. ARB'S 2007 SIP STATE STRATEGY | 35 |
| • Agency Roles in SIP Measure Development | |
| • Adopted SIP Measures | |
| • ARB's Proposed New SIP Measures | |
| • Need for Technology and Long-Term Measures | |
| • Process for Identifying Long-Term Emission Reductions | |
| • State Implementation Plan Commitments | |
| • Commitments to Reduce Emissions | |
| • Commitment to Propose Defined New SIP Measures | |
| • Commitment to Reduce Emissions via Long-Term Strategy | |
| • Role of Funding and Incentive Programs | |
| • Federal Actions Needed | |
| • Ozone Attainment Demonstrations | |
| • Tracking Progress | |
| • Contingency Measures Requirement | |

4. PM2.5 ATTAINMENT IN THE SOUTH COAST 72

- Nature of PM2.5 Pollution
- PM2.5 Emission Trends – Steadily Getting Better
- The PM2.5 Challenge
- Closing the Gap with Direct PM2.5 Reductions
- Analysis of South Coast Air District Staff’s Proposed Additional Mobile Source Measures
- How to Advance South Coast PM2.5 Attainment – Recommendations for Board Consideration

5. PROPOSED NEW SIP MEASURES -- DESCRIPTIONS 89

APPENDICES (Not included in this draft -- will be available by May 7, 2007.)

Appendix A: Emission Inventory Output Tables

Appendix B: Infrastructure SIP

Appendix C: Interstate Transport SIP

Appendix D: Reasonable Further Progress and Contingency Calculations

Appendix E: Potential Impacts of State Strategy Proposed New Measures

Appendix F: Emission Inventory SIP

Appendix G: Legal Authority and Other Requirements