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Air Program Planning Unit Publications

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Air Toxics

[Addressing Air Toxics in Massachusetts](#)

The air we breathe can become contaminated with pollutants from a variety of natural and man-made sources. When federal law addressing air quality was enacted in 1970, air pollution control had focused on "criteria" pollutants, including sulfur dioxide, carbon monoxide, nitrogen oxides, ozone, and particulate matter...

Risk and Risk Assessment

Information on risk assessment, and the role it plays in environmental decision-making at the Massachusetts DEP.

risksum.doc 47 KB 	
EPA's NATA Data cepfac.doc 44 KB 	Background information and Massachusetts-specific findings of EPA's National Air Toxics Assessment (NATA). March 2002.
EPA's NATA Data avgofc.xls  36 KB	This table provides, by county, a list of the NATA modeled ambient air concentrations that were predicted to exceed a Massachusetts Allowable Ambient Limit in more than one county. March 2002.
Source Contribution to Average Predicted MA 1996 Ambient Air Concentrations Using NATA Data siccon.ppt  1 MB	These charts provide a percent contribution of five source categories (background, non-road mobile, on-road mobile, area, and major) to average predicted MA 1996 ambient air concentrations using EPA's NATA data. March 2002. PLEASE NOTE: The U.S. EPA released its final 1996 National Air Toxics Assessment (NATA) report on May 31, 2002. For further information about the 1996 NATA report visit EPA's website at http://www.epa.gov/ttn/atw/nata/natsaov.html

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Annual Air Quality Reports Commonwealth Of Massachusetts

2001 Air Quality Report 01agrpt.pdf 573 KB 	Summary of 2001 air quality data obtained from our air monitoring network.
2001 Site Directory and Location Tables sitedir.pdf 26 KB 	Directory of monitorings stations and locations
2000 Annual Air Quality Report 00agrpt.pdf 918 KB  Maps for the: Central Region central.htm Western Region western.htm Southeast Region south.htm Northeast Region north.htm	Report on 2000 ambient air quality. Maps showing the DEP regions for the 2000 Annual Air Quality Report

The 1999 Annual Air Quality Report 99aqrpt.pdf 900 KB 	Available as a portable document file (PDF). Please Note: The considerable size of this file may make downloading it with a slower modem difficult. To request a printed copy, please contact John Lane at 978-975-1138 x 304 or via e-mail at John.Lane@state.ma.us
Maps and Cover Page 99covmap.pdf 916 KB 	Maps showing the DEP regions for the 1999 Annual Air Quality Report.
The 1998 Annual Air Quality Report 98aqrpt.pdf 2.34 MB 	Information and data about outside air quality monitoring in Mass. Published Nov. 1999. Please Note: The considerable size of this file may make downloading it with a slower modem difficult. To request a printed copy, please contact John Lane at 978-975-1138 x 304 or via e-mail at John.Lane@state.ma.us
The 1997 Annual Air Quality Report 97aqrpt.pdf 295 KB 	Information and data about outside air quality monitoring in Mass. Published Sept. 1998. Please Note: The considerable size of this file may make downloading it with a slower modem difficult. To request a printed copy, please contact John Lane at 978-975-1138 x 304 or via e-mail at John.Lane@state.ma.us

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Carbon Monoxide

Background Document and Technical Support cotsd.doc 672 KB  insert images: Figure 1 and Figure 8	Proposed Revision to State Implementation Plan for Carbon Monoxide. Technical support document dated September 2000.
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Emission Control Plans

Amended Emission Control Plan for USGen New England Salem Harbor Station Draft Approval saleame.doc 132 KB  saleame.pdf 70 KB 	December 13, 2002.
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Final Approval of ECP for USGen New England Salem Harbor Station salemfin.doc 113 KB 	June 7, 2002
Proposed Approval of ECP for USGen New England Salem Harbor Station usgsalem.doc 122 KB 	March 2002.
Final Approval of ECP for Brayton Point Station brytnfin.doc 116 KB 	June 7, 2002
Proposed Approval of ECP for Brayton Point Station pgebrytn.doc 121 	March 2002.
Final Approval of ECP for NRG Somerset Station nrgfinal.doc 112 KB 	June 7, 2002
Proposed Approval of ECP for NRG Somerset Station nrgsomer.doc 118 	March 2002.
Final Approval of ECP for Mt. Tom Station mttomfin.doc 127 KB 	June 7, 2002
Proposed Approval of ECP for Mt. Tom Station mounttom.doc 133 KB 	March 2002.
Final Approval of ECP for Mirant Canal Station mirfinal.doc 105 KB 	June 7, 2002
Proposed Approval of ECP for Mirant Canal Station mircanal.doc 113 	March 2002.
Final Approval of ECP for Sithe Mystic Station sithefin.doc 116 KB 	June 7, 2002
Proposed Approval of ECP for Sithe Mystic Station sithemys.doc 123 KB 	March 2002.

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Forms

Form A: Installation/Susbsstantial Modification Certification s2forma.doc 171 KB  Form B: Vacuum Assist System 120-Day In-Use Compliance Certification s2formb.doc 187 KB  Form C: Annual In-Use Compliance Certification s2formc.doc 200 KB  Form D1: Alternative Annual In-Use Compliance Certification (No Testing Required) s2formd1.doc 165 KB  Form D2: Alternative Annual In-Use Compliance Certification (Testing Required) s2formd2.doc 200 KB  Form E: Change of Owner, Operator, Lessee or Controller Notification s2forme.doc 139 KB  Form F: System Closure Notification s2formf.doc 121 KB 	June 25, 2002 - Forms for Stage II System Responsible Officials
Form G: Compliance Testing Company Notification s2formg.doc 155 KB  Form H: Change of Compliance Testing Company Documentation s2formh.doc 176 KB 	June 25, 2002 - Forms for Stage II Compliance Testing Companies
Emissions Notification Form aqemis.pdf 192KB 	50% or 25% Facility Emissions Cap
Source Registration Forms and Instructions	Source Registration/Emission Statement. Now available in Microsof Word format with fillable form fields. December 2001.

Greeting Letter: sr02let.doc 40 KB	
Cover Page: sr01cov.doc 34 KB 	
Instructions: sr01table.doc 692 KB 	
Referenced information: sr01app.doc 1.5 MB 	
List of Hazardous Air Pollutants: aqcaalist.doc 266 KB 	
Fuel Utilization Equipment: aqap1.doc 177 KB 	
Process Description: aqap2.doc 171 	
Incinerator: aqap3.doc 177 KB 	
Organic Material Storage: aqap4.doc 151 KB 	
Organic Compound Usage: aqap5.doc 167 KB 	
Solvent Data Registration: aqap6.doc 134 KB 	
Source Registration: aqapsr.doc 152 KB 	
Typical Ozone Day: aqapes.doc 138 KB 	
Air Quality Permits	Links to DEP's permit applications page

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Low Emission Vehicles

Hearing Notice	Hearing Notice (public hearing on 3/13/02) on Amendments to the Low Emission Vehicle Program regulations adopting the California ZEV mandate in MY 2005 and the Alternative Compliance Plan in MY 2004. 2/12/02
Technical Support Document and Regulation zevtsd.doc 240 KB 	Technical Support and Background Document and Amendments to the Low Emission Vehicle Program regulations adopting the California ZEV mandate in MY 2005 and the Alternative Compliance Plan in MY 2004. The amendments were adopted as an emergency regulation on December 31, 2001. 2/12/02
Program Contacts	Christine.Kirby@state.ma.us Chief, Transportation Management Programs (617) 292 - 5631 Annette.Widener@state.ma.us Environmental Analyst (617) 292 - 5762

Final Regulation 7.40final.doc 120 KB 	Final amendments to the Low Emission Vehicle Program regulations to adopt the California "NTE" standards for diesel engines.12/21/01
Response to Comments rtc.doc 69 KB 	Summary of Comments and Response to Comments on the Proposed Regulation12/21/01
The Low Emission Vehicle Program	The Massachusetts Low Emission Vehicle (LEV) law, enacted in 1990, requires that all new passenger vehicles sold and registered in Massachusetts meet cleaner California motor vehicle emission standards. This fact sheet will tell you what you need to know before buying a new car.
Emission Requirements for Importing Vehicles into Massachusetts	Emission requirements for importing vehicles into Massachusetts from another state or from another country.

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Massachusetts Ozone SIP

Cover Letter to EPA Region I (9/02/02) epalet.doc 43 KB  Narriative for Final Eastern MA Attainment SIP (9/02/02) narritiv.zip 73 KB Appendixes for Final Eastern MA Attainment SIP (9/02/02) appendix.zip 1.4 MB	Cover Letter to EPA Region I for Final Eastern Massachusetts 1-Hour Ozone NAAQs Attainment Demonstration SIP 9/02/02 Narrative for Final Eastern Massachusetts 1-Hour Ozone NAAQs Attainment Demonstration SIP 9/02/02 Appendixes 1-5 for Final Eastern Massachusetts 1-Hour Ozone NAAQs Attainment Demonstration SIP 9/02/02.
Proposed Eastern MA Attainment SIP (6-02) EMAtD602.zip 78 KB Appendices 1-4 to Proposed Eastern MA Attainment SIP (6-02) Apend602.zip 1.3 MB	This is proposed SIP revision for Eastern MA demonstrating attainment of the 1-hour ozone standard by 2007. June 2002.
Proposed SIP Revision for Eastern MA (1-02) public hearing notice	The Proposed SIP Revision includes: • Technical Support Document for Proposed Eastern MA SIP Revision, January 2002

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ema_tsd.doc 84 KB  ema_nox.xls 40 KB  ema_voc.xls 64 KB  newtrgt.xls 167 KB 	• Tables for Appendix A • Table showing the calculation of new Target Levels of Emissions
Background and Technical support document (1998) siptech.zip 500 KB 	These compressed files contain the 1998 Mass submittal for ozone (total of 181 files) and include public hearing proposal and hearing notice. The proposal includes two approaches for dealing with the attainment demonstration. The proposal asks for comments on the two approaches and any commitments. Public hearings were held on June 1 and 2, 1998, in Springfield and Boston, respectively.
Appendix A and technical modeling discussion (1998) mdl_docs.zip 265 KB	
Plot files in GIF (1998) diffplots.zip 2.4 MB	
Episode maximum plot GIF files (1998) maxplots.zip 2.5 MB	
Final Attainment Submittal (1998) attain.pdf 73 KB 	This is Massachusetts' 1998 Final Attainment Submittal for the one-hour ozone standard. It includes as attachments: the technical support documents listed above, DEP responses to comments received during the public hearing process, and a list of commitments made by DEP to attain the one-hour ozone standard..

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NOx Budget Program Information

Testing and Reporting Requirements for 310 CMR 7.28 testreq.doc 45 KB 	Testing and Reporting Requirements guidance for facilities applying under 310 CMR 7.28 "NOx Allowance Trading Program"; September 26, 2001
Net Output Monitoring Guidance for 310 CMR 7.28 output.doc 68 KB 	Net Electrical and Steam Output Monitoring Guidance for facilities applying under 310 CMR 7.28; November 20, 2000
Revision to DEP's NOx Allowance Trading Program for seasons 2003-2005	This is the Massachusetts DEP's proposed SIP revision and proposed revision to 310 CMR 7.28 "NOx Allowance Trading Program." This minor revision addresses a seven-ton deficiency, in the allocation for

728amend.pdf (30 KB) 	three municipal power companies for the first three control periods of the program (2003-2005).
DEP's NOx Allowance Trading Program for 2003 728rtc.pdf 94 KB  728table.pdf 8 KB  728reg.pdf 62 KB 	These are documents associated with the Massachusetts regulation (310 CMR 7.28) to implement a NOx Allowance Trading program in 2003, and to distribute Massachusetts NOx allowances to sources within the state. The regulation is designed to fulfill Massachusetts' commitments under the Ozone Transport Commission's Memorandum of Understanding for Regional NOx Reductions, and conform to the EPA's 22-state NOx SIP Call. The documents include: (1) 728reg -- The regulation, 310 CMR 7.28 (2) 728table -- Table of unit allowance allocations for the year 2003 (3) 728rtc -- DEP's responses to comments received at public hearings
Modified Proposal: Response to EPA's NOx SIP Call and the OTC NOx MOU tsdsup.doc (75 KB)  regsup.doc (155 KB) 	This is the Massachusetts DEP's modified public hearing draft SIP revision to implement a NOx Allowance Trading Program in 2003, and to distribute Massachusetts NOx allowances to sources, in response to EPA's NOx SIP Call and Massachusetts' commitments under the OTC NOx MOU.
DEP Public Hearing Proposal: SIP Revision in Response to EPA's NOx SIP Call and the OTC NOx MOU: Technical Support Document deptsd.doc 174 KB  Attachments to the Technical Support Document, including proposed regulatory amendments depatt.doc 112 KB 	This is the Massachusetts DEP's public hearing draft SIP revision to implement a NOx Allowance Trading Program in 2003, and to distribute Massachusetts NOx allowances to sources, in response to EPA's NOx SIP Call and Massachusetts' commitments under the OTC NOx MOU.

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Regulations and Notices

Public Hearing Notice	Public Notice for Hearings on Proposed Revisions to 310 CMR 60.02, Regulations for the Enhanced Motor Vehicle Inspection and Maintenance Program to Establish an On-Board Diagnostics Test (August 14, 2002).
Draft Proposed Revisions to 310 CMR 60.02 for OBD	Proposed Revisions and Background Document for 310 CMR 60.02, Regulations for the Enhanced Motor Vehicle Inspection

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Testing obdrev.doc 143 KB  obdrev.pdf 63 KB  Background Document obdbkgr.doc 150 KB  obdbkgr.pdf 92 KB 	and Maintenance Program to Establish an On-Board Diagnostics Test and Other Revisions (August 14, 2002)
310 CMR 60.00: Air Pollution Control For Mobile Sources 310cmr60.htm	These Regulations include three Sections: 310 CMR 60.02 - Enhanced Motor Vehicle Inspection and Maintenance Program; 310 CMR 60.03 - Transportation Conformity; and 310 CMR 60.04 - City of Cambridge Vehicle Trip Reduction Program. These Regulations were last corrected on 10/1/99. Note: Other regulations for the control of air pollution for mobile sources are included in 310 CMR 7.00, Air Pollution Control Regulations.
Air Pollution Control Regulations 310 CMR 7.00 airnav.htm	These Regulations address the control of point and non-point sources of air pollution. This version of the Regulations is intended to reflect changes in the following areas made since 1/22/99: - Municipal Waste Combuster changes - 7.08(2) - Stage II amendments - 7.24(6) - New Boiler changes - Definitions, 7.02, 7.26, 7.278/3/01 - Air Regs changes - 310 CMR 7.00, 310 CMR 7.02, 7.03, 7.04, 7.05, 7.06, 7.12, 7.18 and 7.19 - NOx allowance Trading - 7.28 - Emission Standards for Power Plants - 7.29 - Appendix A 7.00 and Appendix C 1/4/02 Corrected Errors 12/24/99 - Revision to 310 CMR 7.40 to adopt LEV II. 12/22/00 - Modifications to 310 CMR 7.30 and 7.31 the Logan Airport and East Boston Parking Freezes 12/21/01 - Revision to 310 CMR 7.40 to adopt the California NTE requirements for heavy duty diesel engines 12/31/01 - Revision to 310 CMR 7.40 to adopt the California Zero Emission Vehicle revisions This version of the Air Pollution Control Regulations is not currently available in PDF.
Enhancement of the Air Pollution Control Regulations eairreg.doc 211 KB  Enhancement of the Air Pollution Control Regulations: Response to Comments eairrtc.doc 63 KB 	The Final Regulations - Amendments to 310 CMR 7.00, 7.02, 7.03, 7.04, 7.05, 7.06, 7.12, 7.18 and 7.19. August 3, 2001 are now available. See also, DEP's consideration of public hearing testimony on the Enhancement of the Air Pollution Control Regulations proposed rewrite. June 28, 2001 The index of regulations as revised - Enhancement of the Air Pollution Control Regulations. August 6, 2001

Regulatory Guide eairrg.doc 46 KB 	
310 CMR 7.29 Emissions Standards for Power Plants 729final.doc 66 KB 	FINAL regulation requiring emission reductions at existing power plants.
Statement Of Reasons And Response To Comments For 310 CMR 7.00 Et Seq.: 310 CMR 7.29 - Emission Standards For Power Plants finalrsn.doc 300 KB 	Additional Statement of Reasons for 310 CMR 7.29, Emissions Standards for Power Plants
Response To Comments 310 CMR 7.29 finalrtc.doc 154 KB 	DEP Responses to Public Comments on 310 CMR 7.29, Emissions Standards for Power Plants
List of Commenters rtcnames.doc 45 KB 	List of Commenters for 310 CMR 7.29, Emissions Standards for Power Plants
Draft Regulations mwireg.doc 101 KB 	The regulation package establishes standards for Hospital/Medical Waste Incinerators (HMIWIs) to satisfy EPA requirements.
Background Document mwibkg.doc 41 KB 	The background document discusses state plan and regulation to set new standards for HMIWIs.
State Plan mwistpl.doc 70 KB 	The proposed state plan for HMIWIs for submittal to EPA.
Proposed Amendments To 310 CMR 7.00 appcrcgfx.doc 45 KB 	This regulation package contains the changes required to obtain full approval of the Department's operating permit program, 310 CMR 7.00:Appendix C from the USEPA The amendments include several clarifying changes to further the effective implementation of the program.
Background Document On The Proposed Amendments To 310 CMR 7.00, Et Seq. apcbkgd.doc 41 KB 	The background document discussing the regulation changes required to obtain full approval of the Department's operating permit program as well as several clarifying changes to further the effective implementation of the program.
Ambient Air Quality Standards for the Commonwealth of Massachusetts 310 CMR 6.00 also available to download: 310cmr6.pdf 14 KB 	These Regulations state the Primary and Secondary Ambient Air Quality Standards. These Regulations were last updated on 4/1/94.
The Prevention and/or Abatement of Air Pollution	These Regulations list actions to be taken in the event of an air pollution emergency. These Regulations were last updated on

Episode and Air Pollution Incident Emergencies 310 CMR 8.00 also available to download: 310cmr8.pdf 32 KB 	4/19/96.
Proposed revisions to the Air Pollution Control Regulations - 310 CMR 7.00 files to download: regen.pdf 163 KB  background information: bidaqreg.pdf 95 KB 	Proposed revisions to the Air Pollution Control Regulations - 310 CMR 7.00 are now available. See also the proposed revisions and background information. For more information please contact Bob Donaldson at (617) 292-5619 or E-mail at Robert.Donaldson@state.ma.us
Proposed Revisions to 310 CMR 7.24(6) offered in both Word 6.0 and Acrobat formats: stage2.zip Zipped Word 6.0 file (56KB; or stage2.pdf 149 KB 	The Proposed Revisions to 310 CMR 7.24(6) cover the Dispensing of Motor Vehicle Fuel (The Stage II Vapor Recovery Program).
Proposed Amendments to Regulations 310 CMR 7.00 ap-d-ri.pdf 30 KB  Background Information And Technical Support On The Proposed Amendments To 310 CMR 7.00 Appendix A tsd2.pdf 25 KB 	The amendments restore nonattainment new source review requirements in Eastern Massachusetts. This satisfies a requirement of the federal Clean Air Act.
Municipal Waste Combustor Regulations mwcregs.pdf 196 KB 	The Complete Package for the Municipal Waste Combustor Regulations (Changes to 310 CMR 7.00 and 310 CMR 4.00) is now available.
Final Settlement Agreement, Municipal Waste Combustor Rule, IWSA et. al. v. Liss, Civil Action No. 99-11906EFH mwcsun3.doc 40 KB 	Summary of Agreement settling a lawsuit brought by two municipal waste combustors and their trade association about the 1998 Municipal Waste Combustor Rule
Settlement Agreement mwagree.doc 58 KB 	Agreement settling a lawsuit brought by two municipal waste combustors and their trade association about the 1998 Municipal Waste Combustor Rule

Stage II Vapor Recovery

Form A: Installation/Substantial Modification Certification s2forma.doc 171 KB  Form B: Vacuum Assist System 120-Day In-Use Compliance Certification s2formb.doc 187 KB  Form C: Annual In-Use Compliance Certification s2formc.doc 200 KB  Form D1: Alternative Annual In-Use Compliance Certification (No Testing Required) s2formd1.doc 165 KB  Form D2: Alternative Annual In-Use Compliance Certification (Testing Required) s2formd2.doc 200 KB  Form E: Change of Owner, Operator, Lessee or Controller Notification s2forme.doc 139 KB  Form F: System Closure Notification 2formf.doc 121 KB 	June 25, 2002 - Forms for Stage II System Responsible Officials
Form G: Compliance Testing Company Notification s2formg.doc 155 KB  Form H: Change of Compliance Testing Company Documentation s2formh.doc 176 KB 	June 25, 2002 - Forms for Stage II Compliance Testing Companies
Stage II Vapor Recovery Regulations (310 CMR 7.24(6)) finalsii.doc 128 KB 	Final Amendments to the Stage II Vapor Recovery Regulations. September 29, 2000

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State Implementation Plan Steering Committee

[Massachusetts State Implementation Plan](#)

Agenda for November 14, 2002 SIP Steering Committee Meeting.

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[Steering Committee Meeting Notice](#)

Updated agendas will be posted here approximately two weeks before the next scheduled meeting date.

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Other Air Quality Publications

Evaluation of the Technological and Economic Feasibility of Controlling and Eliminating Mercury Emissions from the Combustion of Solid Fossil Fuel mercfeas.doc 728 KB  mercfeas.pdf 534 KB 	Mercury Control Feasibility Evaluation prepared in accordance with 310 CMR 7.29(5)(a)3.a. (December 2002)
Final Draft Aggregate Impact Study For Inhalation Exposures To Air Toxics Emitted From Incinerators In The Merrimack Valley: Post Retrofit Case. mais.pdf 144 KB 	This study was prepared by DEP to determine whether post-retrofit emissions from the two municipal waste combustors in the Merrimack Valley will meet the DEP's existing ambient air guidelines and risk management criteria. This study reviewed the post-retrofit emissions from the two municipal waste combustors in North Andover and Haverhill as well as the medical waste incinerator in Lawrence. (Please note that the Lawrence medical waste incinerator is not being required to retrofit at this time. Regulations regarding the upgrade of medical waste incinerators will be issued in 1999.)
Clean Air and Massachusetts Utilities: Eight Years of Cleaning Up Power Plant Emissions in the Commonwealth u-govfs.pdf 44 KB 	June 1998 Report
Implementation of the 1990 Clean Air Act Amendments: A Massachusetts Status Report	This document focuses on programs being implemented by the Massachusetts Department of Environmental Protection to attain the ambient air quality standards.
1990 Base Year Inventory • Overview • Graphics	The Overview of 1990 Base Year Inventory including graphics is now available
1996 Draft Massachusetts Periodic Emission Inventories emissinv.pdf 248 KB 	This document contains the Executive Summary for the Draft 1996 Periodic Emission Inventories for the precursors of ground level ozone: Volatile Organic Compounds (VOC), Nitrogen Oxides (NOx), and Carbon Monoxide (CO).

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