10.0 Adequacy Determination for CAA Section 110(a)(1) and (2) Program Infrastructure

Through this chapter, CTDEP documents the State's program infrastructure elements under CAA Section 110(a)(1) and (2). Except as noted below, the original submission of Connecticut's SIP on March 3, 1972 and numerous subsequent SIP revisions identified in Table 10-1 adequately fulfill the fourteen required CAA Section 110(a)(1) and (2) infrastructure elements.¹

In addition to the information set out in Table 10-1, and consistent with CTDEP's commitments in Chapter 11 of this demonstration, CTDEP intends to update its program infrastructure with respect to its new source review permit program. CTDEP will, as of July 15, 2008, implement the provisions of 40 CFR 51 Appendix S for $PM_{2.5}$ in Fairfield and New Haven counties. The requirements of Appendix S will be addressed in a SIP revision, which CTDEP will seek to submit by May 16, 2011. That SIP revision will also update Connecticut's air quality regulations to incorporate definitions, permit program requirements and other necessary references to $PM_{2.5}$ and will constitute the remaining element of Connecticut's infrastructure requirements.

¹ The fourteen required infrastructure elements are described in an October 2, 2007 guidance memo from William Harnett, Director of EPA's Air Quality Policy Division, which is available in Appendix 10A to this demonstration.

Draft July 17, 2008

Table 10-1. Overview of How Connecticut's State Implementation Plan Satisfies the
CAA Section 110(a)(1) and (2) Program Infrastructure Elements for PM2.5*

CAA Section	Required CAA Element	Corresponding Connecticut Program Element(s)
110(a)(2)(A)	"include enforceable emission limitations	CGS Section 22a-6(a)(1). The Commissioner is empowered to "adopt,
Emission limits	and other control measures, means, or	amend or repeal such environmental standards, criteria, and regulations
and other	techniques (including economic incentives	as are necessary and proper to carry out his functions, powers and duties." It
control	such as fees, marketable permits, and	is under this grant of authority that the Commissioner has adopted emissions
measures	auctions of emissions rights), as well as	standards and compliance schedules applicable to municipal waste
	schedules and timetables for compliance"	combustors.
		CGS Section 22a-174g. California motor vehicle emission standards.
		CGS Section 22a-174. Powers of the Commissioner. Regulations. Fees.
		General Permits
		CGS Section 22a-174(f). Control of open burning.
		CGS Section 22a-174k. Outdoor wood-burning furnaces.
		The sections of the air quality regulations (which may be amended from time
		to time) with specific emissions limits related to the control of $PM_{2.5}$ and
		PM _{2.5} precursors include RCSA:
		22a-174-3a(i) Ambient air quality analysis
		22a-174-3a(j) BACT
		22a-174-3a(k) PSD
		22a-174-3a(l) Non-attainment areas, LAER
		22a-174-18 Control of particulate matter and visible emissions
		22a-174-19 Control of sulfur compound emissions
		22a-174-19a Control of sulfur compound emissions from power plants
		22a-174-22 NOx emissions (also included in many single source SIP
		revisions)
		22a-174-22b NOx budget program
		22a-174-22c CAIR NOx ozone season trading program

 CAA refers to the Clean Air Act CGS refers to the Connecticut General Statutes RCSA refers to Regulations of CT State Agencies CFR refers to the U.S. Code of Federal Regulations CTDEP refers to the Connecticut Department of Environmental Protection

22a-174-27Periodic motor vehicle inspection and maintenance 22a-174-20 Control of organic compound emissions 22a-174-30 Gasoline vapor recovery 22a-174-30 COC RACT (also included in many single source SIP revisions)22a-174-36Low emission vehicles 22a-174-36 Low emission vehicles II program 22a-174-38 Municipal waste combustors. 22a-174-40 Consumer products (submitted with the 8-hr ozone attainmen demonstration)22a-174-41AIM coatings (submitted with the 8-hr ozone attainmen demonstration)		Draft July 17, 2008	
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 22a-174-30 Gasoline vapor recovery 22a-174-30 Gasoline vapor recovery 22a-174-32 VOC RACT (<i>also included in many single source SIP revisions</i>) 22a-174-32 Coc RACT (<i>also included in many single source SIP revisions</i>) 22a-174-36 Low emission vehicles 22a-174-36 Low emission vehicles II program 22a-174-36 Low emission vehicles II program 22a-174-36 Low emission vehicles II program 22a-174-36 Low emission vehicles 22a-174-37 Consumer products (<i>submitted with the 8-hr ozone attainmen demonstration</i>) 22a-174-41 AlM coatings (<i>submitted with the 8-hr ozone attainmen demonstration</i>) 22a-174-43 Portable fuel containers (<i>submitted with the 8-hr ozone attainmen demonstration</i>) 22a-174-44 Adhesives and sealants (<i>adoption in process</i>) 40 CFR 53: 40 CFR 53. A comprehensive air quality monitoring pla inded to meet requirements of 40 CFR 53, is submitted to EPA each data available to the Administrator." 110(a)(2)(C) Program for enforement of control measures described in subparagraph (A), and regulation of the modification and construction of any stationary source within the areas covered by the plan as necessary to assure that national ambient air quality standards are achieved, including a permit program as required in parts C and D;" CGS Section 22a-6b. Imposition of civil penalties by the commissione CGS Section 22a-7(d). Civil actions. 			
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		pure C und D,	
			and enforce regulations and do any other act necessary to enforce the

	Draft July 17, 2008	
CAA Section	Required CAA Element	Corresponding Connecticut Program Element(s)
		encompasses CGS Sections 22a-170 through 22a-206]."
		CGS Section 22a-174. Orders to correct violations.
		CGS Section 22a-175. Penalties for violations.
		CGS Section 22a-176. Consideration in making regulations and issuing
		orders.
		CGS Section 22a-177. Enforcement of regulations. Complaints.
		CGS Section 22a-178. Orders to correct violations.
		RCSA section 22a-3a-6(c). Orders, rulings and decisions – procedures in
		contested cases.
		RCSA section 22a-174-3a. Permit to construct and operate stationary
		sources. This section provides a permit program for enforceable emission
		limits and control measures.
		RCSA section 22a-174-12. Violations and enforcement of the Regulations of
		Connecticut State Agencies. This section provides that "The Commissioner
		shall designate employees of DEP to be known as enforcement personnel, who
		shall, acting with or without complaints, conduct investigations and ascertain
		whether the Commissioner's regulations are being complied with."
		NSR Stringency Determination submitted to EPA-Region 1, December 29,
		2005.
110(a)(2)(D)	"contain adequate provisions - (i) prohibiting,	Revision to the Connecticut State Implementation Plan Addressing the
Interstate	consistent with the provisions of this title, any	Interstate Air Pollution Transport Requirements of Clean Air Act Section
transport	source or other type of emissions activity within	110(a)(2)(D)(i), was submitted to EPA on March 13, 2007. EPA is proposing
•••••••••••••••	the State from emitting any air pollutant in	to approve this SIP revision submitted by CTDEP (72 Fed. Reg. 62420;
	amounts which will - (I) contribute significantly	November 5, 2007).
	to nonattainment in, or interfere with	NSR Stringency Determination submitted to EPA-Region 1, December 29,
	maintenance by, any other State with respect to	2005.
	any such national primary or secondary ambient	
	air quality standard, or (II) interfere with	
	measures required to be included in the applicable implementation plan for any other	
	State under part C to prevent significant	
	deterioration of air quality or to protect visibility,	
	(ii) insuring compliance with the applicable;	
	requirements of sections 126 and 115 (relating to	
	interstate and international pollution abatement)"	

Draft July 17, 2008 **CAA Section Required CAA Element Corresponding Connecticut Program Element(s)** 110(a)(2)(E)... "provide (i) necessary assurances that the CGS Section 22a-171. Duties of Commissioner of Environmental Protection. State (or, except where the Administrator "The commissioner shall (1) initiate and supervise programs for the purposes Adequate deems inappropriate, the general purpose of determining the causes, effect and hazards of air pollution; (2) initiate and resources local government or governments, or a supervise state-wide programs of air pollution control education; (3) cooperate regional agency designated by the State or with and receive money from the federal government and, with the approval of general purpose local governments for such the Governor, from any other public or private source; (4) adopt, amend, repeal and enforce regulations as provided in section 22a-174 and do any other purpose) will have adequate personnel, funding, and authority under State (and, as act necessary to enforce the provisions of this chapter and section 14-164c; (5) advise and consult with agencies of the United States, agencies of the state, appropriate, local) law to carry out such implementation plan (and is not prohibited political subdivisions and industries and any other affected groups in by any provision of Federal or State law furtherance of the purposes of this chapter." from carrying out such implementation plan Air Quality Implementation Plan, Chapter 11, Parts A-E (March 3, 1972). or portion thereof), (ii) requirements that the Describes the (A) existing organizations; (B) manpower; (C) funding; (D) physical resources and (E) local agencies. It stated, in part, "The Department State comply with the requirements of Environmental Protection will secure appropriations sufficient, in respecting State boards under section 128, and (iii) necessary assurances that, where the conjunction with federal assistance, to maintain the projected state funding State has relied on a local or regional levels." government, agency, or instrumentality for the implementation of any plan provision, CTDEP is the sole authority implementing the SIP and does not rely on local the State has responsibility for ensuring or regional governments or agencies to carry out this responsibility. adequate implementation of such plan provision;" ... "require, as may be prescribed by the CGS Section 22a-6(a)(5). "The commissioner may, in accordance with 110(a)(2)(F)Administrator - (i) the installation, constitutional limitations, enter at all reasonable times, without liability, upon **Stationary** any public or private property, except a private residence, for the purpose of maintenance, and replacement of equipment, source emissions monitoring and and the implementation of other necessary inspection and investigation to ascertain possible violations of any statute, regulation, order or permit administered, adopted or issued by him and the reporting steps, by owners or operators of stationary sources to monitor emissions from such owner, managing agent or occupant of any such property shall permit such sources, (ii) periodic reports on the nature entry" and amounts of emissions and emissions-CGS Section 22a-174(c). Various powers of the commissioner related to permitting, inspections, and recordkeeping. related data from such sources, and (iii) correlation of such reports by the State RCSA section 22a-174-4. Source monitoring, record keeping and reporting. agency with any emission limitations or Paragraph (d)(1) states: "The commissioner may, by written notice, require the standards established pursuant to this Act, owner or operator of any source to create, maintain and submit data, records or

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	which reports shall be available at reasonable times for public inspection;"	reports of monitoring data and other information deemed necessary by the commissioner to evaluate compliance with chapter 446c of the Connecticut General Statutes and regulations promulgated thereunder. Such information shall be recorded, compiled and submitted on forms furnished or prescribed by the commissioner. The written notice shall provide the date by which such data, records or reports shall be submitted to the commissioner." RCSA section 22a-174-5. Methods for sampling, emission testing, sample analysis, and reporting. (e)(1) states that "The owner or operator of a stationary source of air pollution with maximum uncontrolled emissions of any particular air pollutant greater than one hundred (100) tons per year shall be required to carry out emission tests as prescribed by the Commissioner may specify for an individual stationary source." Subsection (e)(2) states "In addition to the emission tests required in subdivision 22a-174-5(e)(1), the commissioner may require the owner or operator of any stationary source to conduct emission tests of emissions." RCSA section 22a-174-10. Public availability of information. Paragraph (a) states: Any records, reports or other information obtained by the Commissioner or on file with the department shall, pursuant to the provisions of sections 1-7 through 20 of the General Statutes, as amended, be made
110(.)(2)(0)		available to the public.
110(a)(2)(G) Emergency power	"provide for authority comparable to that in section 303 and adequate contingency plans to implement such authority;"	CGS Section 22a-181. Emergency action. RCSA section 22a-174-6. Air pollution emergency episode procedures. This section describes the existing emergency episode procedures in place, which are consistent with the significant harm levels as indicated in 40 CFR Part 51.151.
		Connecticut expects to be classified as a Priority III region, and, therefore, an emergency episode plan for $PM_{2.5}$ is not required. ²

² See March 24, 2008 EPA guidance in Appendix 10A. See also, Harnett, W.T. 2007. Guidance on SIP Elements Required under Sections 110(a)(1) and (2) for the 1997 8-hour Ozone and PM_{2.5} National Ambient Air Quality Standards, which states:

[&]quot;As an aid to the States in addressing the $PM_{2.5}$ related requirements of Section 110(a)(2)(G) pertaining to emergency episode provisions, EPA intends to take action to revise 40 CFR, Part 51, subpart H (sections 51.150). The rule changes will establish the priority classifications which determine the emergency episode plan

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110(a)(2)(H) Future SIP revisions	"provide for revision of such plan - (i) from time to time as may be necessary to take account of revisions of such national primary or secondary ambient air quality standard or the availability of improved or more expeditious methods of attaining such standard, and (ii) except as provided in paragraph (3)(C), whenever the Administrator finds on the basis of information available to the Administrator that the plan is substantially inadequate to attain the national ambient air quality standard which it implements or to otherwise comply with any additional requirements established under this Act;"	Air Quality Implementation Plan, Chapter 13, (March 3, 1972). "This implementation plan is intended to be dynamic, not static. To this end, it will be revised when necessary."
110(a)(2)(J) Consultation with government officials	"meet the applicable requirements of section 121 (relating to consultation)	 CGS Section 22a-171. Duties of Commissioner of Environmental Protection. "(5) advise and consult with agencies of the United States, agencies of the state, political subdivisions and industries and any other affected groups in furtherance of the purposes of this chapter." CGS Section 22a-174(d). "The commissioner shall have all incidental powers to carry out the purposes of [Chapter 446c, entitled "Air Pollution Control," which encompasses Conn. Gen. Stat. Sections 22a-170 through 22a-206] CGS Chapter 54. Uniform Administrative Procedures Act. State Implementation Plan Revision Advisory Committee (SIPRAC) established in 1972 and generally meets each month.
110(a)(2)(J) Public notification	"meet the applicable requirements of section 127 (relating to public notification),	CGS Section 4-168. Notice prior to action on regulations. CGS Section 22a-171. Duties of Commissioner of Environmental Protection. "(2) Initiate and supervise state-wide programs of air pollution control education;"

requirements for each area and establish a significant harm level (SHL) for $PM_{2.5}$. Until these changes are final, EPA recommends that States rely on relevant information contained in upcoming EPA rule proposals or other EPA issued interim guidance to satisfy the section 110(a)(2)(G) requirements for $PM_{2.5}$..."

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		CGS Section 22a-174(d). "The commissioner shall have all incidental
		powers to carry out the purposes of [Chapter 446c, entitled "Air Pollution
		Control," which encompasses Conn. Gen. Stat. Sections 22a-170 through 22a-
		206]
110(a)(2)(J)	"meet the applicable requirements of part	RCSA section 22a-174-3a(k). Permit Requirements for Attainment Areas:
PSD and	C (relating to prevention of significant	Prevention of Significant Deterioration of Air Quality (PSD) Program. This
visibility	deterioration of air quality and visibility	section addresses the prevention of significant deterioration of air quality and
Protection	protection);"	visibility protection.
110(a)(2)(K)	"provide for - (i) the performance of	RCSA section 22a-174-3a(i). Ambient Air Quality Analysis: "The
Air quality	such air quality modeling as the	commissioner may request any owner or operator to submit an ambient air
modeling/data	Administrator may prescribe for the purpose	quality impact analysis using applicable air quality models and modeling
	of predicting the effect on ambient air	protocols approved by the commissioner."
	quality of any emissions of any air pollutant	
	for which the Administrator has established	EPA PM2.5 NSR Rule: With respect to its NSR permit program,
	a national ambient air quality standard, and	Connecticut will begin implementing 40 CFR 51 Appendix S for PM _{2.5} as of
	(ii) the submission, upon request, of data	July 15, 2008 in Fairfield and New Haven counties.
	related to such air quality modeling to the	
	Administrator;"	
110(a)(2)(L)	"require the owner or operator of each	
Permitting fees	major stationary source to pay to the	CGS Section 22a-6(a)(10). The commissioner may by regulations
	permitting authority, as a condition of any	adopted in accordance with the provisions of chapter 54 require the payment
	permit required under this Act, a fee	of a fee sufficient to cover the reasonable cost of reviewing and acting
	sufficient to cover - (i) the reasonable costs	upon an application for and monitoring compliance with the terms and
	of reviewing and acting upon any	conditions of any state or federal permit, license, registration, order, certificate
	application for such a permit, and (ii) if the	or approval required
	owner or operator receives a permit for such	CGS Section 22a-6f. Fees.
	source, the reasonable costs of implementing	CGS Section 22a-174(g). "The commissioner shall require, by regulations
	and enforcing the terms and conditions of	adopted in accordance with the provisions of chapter 54, the payment of a
	any such permit (not including any court	permit application fee sufficient to cover the reasonable costs of reviewing and
	costs or other costs associated with any	acting upon an application for, and monitoring compliance with the terms and
	enforcement action), until such fee	conditions of, any state or federal permit, license, order, certificate or approval
	requirement is superseded with respect to	required pursuant to this section"
	such sources by the Administrator's approval	RCSA section 22a-174-26(c)(1). "Each person to whom the commissioner
	of a fee program under	issues a permit, or a modification or renewal thereto, under section 22a-174-

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	title V;"	 3a, section 22a-174-2a and section 22a-174-19 of the Regulations of Connecticut State Agencies shall pay a permit fee as prescribed in the fee schedule in subdivision (2) of this subsection." The fee schedule is set forth in Table 26-1 of subsection 2. RCSA section 22a-174-33(j)(1)(Z). Requires Title V source to pay all fees due under RCSA section 22a-174-26. (Approved as satisfying 40 CFR 70.6(a)(7) in EPA's Connecticut Title V operating permit program approval (67 FR 31966 (May 13, 2002)).
110(a)(2)(M) Consultation/	"provide for consultation and participation by local political subdivisions	CGS Section 4-168. Notice prior to action on regulations. Connecticut Air Quality Implementation Plan, Chapter 12
participation by affected local entities	affected by the plan."	"Intergovernmental Relations" (March 3, 1972). "The State will take immediate action in coordinating and delegating new responsibilities to local agencies that are prepared to accept the responsibility."