# ENVIRONMENTAL PROTECTION AGENCY

40 CFR Part 52

[MA069-7205; A-1-FRL-6927-6]

Approval and Promulgation of Air Quality Implementation Plans; Massachusetts; One-Hour Ozone Attainment Demonstration and Attainment Date Extension for the Springfield (Western Massachusetts) Ozone Nonattainment Area

**AGENCY:** Environmental Protection

Agency (EPA).

ACTION: Final rule.

SUMMARY: EPA is approving a State Implementation Plan (SIP) revision submitted by the Commonwealth of Massachusetts. This action approves Massachusetts One-hour Ozone Attainment Demonstration for the Springfield (Western Massachusetts) ozone nonattainment area and extends the attainment date for this area until December 31, 2003. A notice of proposed rulemaking was published on this action on December 16, 1999 (64 FR 70319). EPA received comments on that proposal. In this action, EPA responds to those comments.

**EFFECTIVE DATE:** This rule will become effective on February 2, 2001.

**ADDRESSES:** Copies of the documents relevant to this action are available for public inspection by appointment weekdays from 9 a.m. to 4 p.m., at the Office of Ecosystem Protection, U.S. Environmental Protection Agency, EPA-New England, One Congress Street, 11th floor, Boston, MA; Air and Radiation Docket and Information Center, U.S. Environmental Protection Agency, Room M-1500, 401 M Street, (Mail Code 6102), S.W., Washington, D.C.; and Division of Air Quality Control, Department of Environmental Protection, One Winter Street, 8th Floor, Boston, MA 02108.

# **FOR FURTHER INFORMATION CONTACT:** Richard P. Burkhart, (617) 918–1664.

**SUPPLEMENTARY INFORMATION:** This supplementary information section is organized as follows:

- I. What Massachusetts SIP revision is the topic of this action?
- II. What previous action has been taken on this SIP revision?
- III. When did EPA make a determination regarding the adequacy of the Motor Vehicle Emissions Budgets for the Springfield, MA area?
- IV. What are the requirements for full approval of the attainment demonstration?
- V. How did Massachusetts fulfill these requirements for full approval?

- VI. What SIP elements did EPA need to take action on before full approval of the attainment demonstration could be granted?
- VII. What comments were received on the proposed approvals and how has EPA responded to those?

VIII. EPA Action

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# I. What Massachusetts SIP Revision Is the Topic of This Action?

An attainment demonstration SIP was submitted on July 27, 1998 by the Massachusetts Department of Environmental Protection for the Springfield, Massachusetts one-hour ozone nonattainment area. The SIP revision was subject to public notice and comment by the State and a hearing was held in June 1998. On October 1, 1998, Massachusetts submitted its motor vehicle emissions budgets for the Springfield nonattainment area for use in transportation conformity. Massachusetts also requested an attainment date extension for this area on August 13, 1999. The state requested a new attainment date of December 2003, which EPA interprets as December 31, 2003.

# II. What Previous Action Has Been Taken on This SIP Revision?

EPA published a Notice of Proposed Rulemaking (NPR) for the Massachusetts attainment demonstration SIP on December 16, 1999 (64 FR 70319). In that action, EPA proposed to approve the ozone attainment demonstration submitted by the state and proposed to approve an attainment date extension for the Springfield, Massachusetts nonattainment area to December 31, 2003. EPA also proposed, in the alternative, to disapprove the attainment demonstration if Massachusetts did not submit certain additional items, as explained in section IV below. On December 16, 1999, EPA also proposed to approve or conditionally approve and disapprove in the alternative attainment demonstration SIPs for nine other areas in the eastern United States (64 FR

On February 22, 2000 (65 FR 8703), EPA published a notice of availability on guidance memoranda relating to the ten one-hour ozone attainment demonstrations (including Springfield, Massachusetts) proposed for approval or conditionally approval on December 16, 1999. The guidance memoranda are entitled: "Guidance on Motor Vehicle Emissions Budgets in One-Hour Ozone Attainment Demonstrations," dated November 3, 1999, and "Guidance on the Reasonably Available Control Measures (RACM) Requirement and Attainment Demonstration Submissions

for Ozone Nonattainment Areas," dated November 30, 1999.

On July 28, 2000 (65 FR 46383), a notice of supplemental proposed rulemaking was published relating to the ten one-hour ozone attainment demonstrations (including Springfield, Massachusetts) proposed for approval or conditional approval on December 16, 1999. In the supplemental notice, EPA clarified and expanded on two issues relating to the motor vehicle emissions budgets in the attainment demonstration SIPs. In addition, EPA reopened the comment period to take comment on those two issues and to allow comment on any additional materials that were placed in the dockets for the ten proposed actions close to or after the initial comment period closed on February 14, 2000.

On October 16, 2000 (65 FR 61134), another notice of supplemental proposed rulemaking was published to provide further support for the proposed attainment demonstration published on December 16, 1999 for the four serious ozone nonattainment areas (which includes Springfield, Massachusetts). In this supplemental notice, EPA made available an analysis it had performed to evaluate emission levels of oxides of nitrogen (NO<sub>X</sub>) and volatile organic compounds (VOC) and their relationships to the application of current and anticipated control measures expected to be implemented in four serious one-hour ozone nonattainment areas. This analysis was done to determine if additional reasonably available control measures (RACM) are available after adoption of Clean Air Act (CAA) required measures in the four serious ozone nonattainment areas (i.e., Greater Connecticut; Western, Massachusetts; Washington, D.C.; and Atlanta, Georgia). As explained in the supplemental notice, EPA performed this analysis in response to comments that were submitted on the proposals on these areas' one-hour ozone attainment demonstrations. Originally, EPA established a comment period for this supplemental proposal ending on October 31, 2000. A notice extending the comment period on the October 16, 2000 notice was published on November 2, 2000 (65 FR 65818). Due to a typographical error in the November 2, 2000 notice an additional notice clarifying the close of the comment period was published on November 9, 2000 (65 FR 67319).

Comments received on all of the proposed notices listed in this section relevant to the Springfield,
Massachusetts attainment demonstration and attainment date

extension are discussed in section VII. below.

#### III. When Did EPA Make a Determination Regarding the Adequacy of the Motor Vehicle Emissions Budgets for the Springfield, MA Area?

Massachusetts submitted motor vehicle budgets to EPA on October 1, 1998. The motor vehicle emissions budgets were calculated to be consistent with requirements Massachusetts is relying on in its attainment demonstration for the Springfield, Massachusetts area. The motor vehicle emissions budgets for 2003 for VOC and NO<sub>X</sub> submitted by Massachusetts are shown in Table 1.

TABLE 1.—2003 TRANSPORTATION CONFORMITY BUDGETS

One-hour Ozone Nonattainment Area		NO <sub>X</sub> (tons/day)	
Springfield, Massachusetts	23.77	49.11	

EPA sent a letter to Massachusetts on February 19, 1999 finding these budgets adequate for use in transportation conformity determinations. On June 10, 1999 (64 FR 31217), EPA notified the public that we had found the 2003 VOC and  $NO_X$  motor vehicle emission budgets submitted by Massachusetts on October 1, 1998 adequate for conformity purposes. These budgets became effective on February 19, 1999. In today's action, EPA is approving these budgets into the SIP.

# IV. What Are the Requirements for Full Approval of the Attainment Demonstration?

In the NPR for the Massachusetts attainment demonstration SIP published on December 16, 1999, EPA also proposed to disapprove, in the alternative, the attainment demonstration; if Massachusetts did not submit: (a) Revisions to the Massachusetts stage II vapor recovery rules that were committed to in the July 27, 1998 attainment demonstration and (b) the demonstration described in EPA's supplementary proposed approval of the Massachusetts 15% rateof-progress plan published in the Federal Register on November 30, 1999 (64 FR 66829), requiring Massachusetts to demonstrate that the emission reduction credit it is claiming for its I/ M program in the Springfield, Massachusetts attainment demonstration is warranted for the combination of test type and equipment that Massachusetts is implementing. As discussed in section V below, Massachusetts satisfied these requirements and has avoided a disapproval of its attainment demonstration for Springfield, Massachusetts.

Massachusetts submitted a commitment with its July 27, 1998 attainment demonstration committing to assess the progress and implementation of the state and federal measures necessary for attainment. Massachusetts committed to perform this assessment by November, 2001. EPA required such a commitment for an early assessment (or mid-course review) of progress toward attainment. Massachusetts has met this requirement, with its July 27, 1998 submittal.

# V. How Did Massachusetts Fulfill These Requirements for Full Approval?

Massachusetts submitted the stage II vapor recovery regulation revisions that were committed to in their July 27, 1998 attainment demonstration on August 9, 2000. A notice proposing approval of the revised stage II vapor recovery regulation was published August 21, 2000 (65 FR 50669). In that notice, EPA stated that it believed that with the revised Stage II regulation, along with the resources DEP is currently devoting to Stage II enforcement, the assumed level of SIP credit from the stage II program will be achieved. EPA approved the revised Stage II regulations on December 18, 2000 (65 FR 78974).

On November 15, 2000 (65 FR 68898), EPA granted a limited approval of the Massachusetts inspection and maintenance program as a revision designed to strengthen the Massachusetts SIP. The action made the I/M SIP revisions submitted on May 14, 1999, February 1, 2000 and March 15, 2000 an enforceable part of the Massachusetts SIP. On November 16, 2000 (65 FR 69254), EPA published a direct final rule converting the limited approval for Massachusetts' enhanced vehicle inspection and maintenance program to a full approval. In that action, EPA approved an interim level of emission reduction credit for the inspection and maintenance program that can be utilized by Massachusetts in attainment planning. EPA approval of an interim level of emission reduction credit was based on additional information that became available which allowed the Agency to exercise engineering judgement in estimating the credit level of the Massachusetts I/M program. EPA approved a level of credit equivalent to ASM2 at final cut points, which is equivalent to the level of credit Massachusetts needs to support their attainment demonstration.

As mentioned in section IV, Massachusetts submitted a commitment with its July 27, 1998 attainment demonstration to assess the progress and implementation of the state and federal measures necessary for attainment. Massachusetts committed to perform this assessment by November, 2001. EPA required such a commitment for an early assessment (or mid-course review) of progress toward attainment. Massachusetts has met this requirement, with its July 27, 1998 submittal.

#### VI. What SIP Elements Did EPA Need To Take Final Action on Before Full Approval of the Attainment Demonstration Could Be Granted?

In the NPR for the Massachusetts attainment demonstration SIP published on December 16, 1999, EPA stated that it intends to publish final rulemaking on the 15% VOC reduction plan and 9% rate of progress plan through 1999, the enhanced inspection and maintenance program, and the NO $_{\rm X}$  SIP call SIP for Springfield, Massachusetts either before or at the same time as publication of final approval of the attainment demonstration.

EPA fully approved the Springfield, Massachusetts area's 15% VOC reduction plan and 9% rate of progress plan on November 15, 2000 (65 FR 68896). As explained previously, EPA published a direct final rule converting the limited approval for Massachusetts' enhanced vehicle inspection and maintenance program to a full approval on November 16, 2000 (65 FR 69254). The final approval of the Massachusetts NO<sub>X</sub> SIP call SIP was granted by EPA Region I's Regional Administrator on October 20, 2000. As of December 21, 2000, this approval was awaiting publication. The approved SIP Call rule will be promulgated at 40 CFR 52.1120(c)(124). Additionally, EPA approved the Massachusetts new source review permitting regulation on October 27, 2000 (65 FR 64360).

#### VII. What Comments Were Received on the Proposed Approvals and How Has EPA Responded to Those?

EPA received comments from the public on the Notice of Proposed Rulemaking published on December 16, 1999 (64 FR 70319) for the Springfield, Massachusetts area's ozone attainment demonstration. Comments were received from the Conservation Law Foundation; Robert E. Yuhnke (Attorney for Environmental Defense and Natural Resources Defense Council); the Midwest Ozone Group; and ELM Packaging Company. Prior to the publication of the NPR, we also received comments from the Law Office of Bulkley, Richardson and Gelinas, LLP; and the City of Holyoke's Mayor's Industrial Development Advisory Committee. Those letters were both in support of the state's request for an attainment date extension and no response is necessary. For the specific comments received on the December 16, 1999 proposal, the following discussion summarizes and responds to those comments. For convenience, the comments have been grouped into

EPA also received comments from the public on the supplemental proposed rulemaking published on July 28, 2000 (65 FR 46383), in which EPA clarified and expanded on two issues relating to the motor vehicle emissions budgets in the attainment demonstration SIPs. Comments were received from Environmental Defense. The following discussion also summarizes and responds to the these comments.

Lastly, EPA received comments from the public on the supplemental proposed rulemaking published on October 16, 2000 (65 FR 61134) to support the proposed attainment demonstration published on December 16, 1999. In that notice, EPA made available an analysis it had performed to evaluate emission levels of oxides of nitrogen and volatile organic compounds and their relationships to the application of current and anticipated control measures expected to be implemented in four serious onehour ozone nonattainment areas. Comments applicable to the Springfield, Massachusetts nonattainment area were received from the Midwest Ozone Group and the Massachusetts Department of Environmental Protection. The following discussion

summarizes and responds to these comments as well.

#### A. Attainment Date Extension Policy

In these responses, EPA addresses both the comments received on this rulemaking and those received in Docket A–98–47 on its notice regarding "Extension of Attainment Dates for Downwind Transport Areas" 64 Fed. Reg. 12221 (March 25, 1999), insofar as here relevant. This includes responses to comments filed by EarthJustice and incorporated by reference in later comments filed on proposed EPA actions on the individual areas. General comments on the policy are considered first. Then specific comments as applied to the area are addressed.

#### 1. Comments Received in Response to March 1999 Notice

Comment 1: EPA does not have the legal authority to extend the attainment deadline for serious areas until hopedfor NO<sub>X</sub> reductions occur from upwind states in response to the NO<sub>X</sub> SIP call and/or section 126 actions. Such an extension is not authorized by any provision of the statute. It is not within EPA's discretion to extend the attainment dates for downwind areas classified as moderate or serious. The CAA does not authorize EPA to extend attainment deadlines. Congress provided express attainment deadlines in the Clean Air Act, and EPA is without authority to create exemptions from them. Section 181 provides the only exception to the general rule that areas must meet their attainment dates, and is the exclusive remedy. Section 181(a)(5) allows a one-year extension if the state has complied with all requirements and commitments in the applicable SIP and had no more than one exceedance in the attainment year. In section 181(a)(5), Congress provided other authority for extending attainment dates, but not to address effects of transport. See sections 181(a)(5). Section 181(b)(2)(A) requires reclassification for failure to attain by the attainment date. Section 182 requires submissions of attainment plans by the applicable attainment date. EPA's policy violates these express provisions. The statutory deadlines for attainment, the requirement that SIPs adopt measures adequate to provide for attainment by the statutory deadlines, the statutory limitation on EPA's authority to extend attainment dates under section 181(b), and the procedures to be followed in the event an area fails to attain by the deadline are unequivocal and unambiguous, and compliance is required under step one of Chevron. The extension policy is inconsistent with

sections 182(b)(1)(A), 182(c)(2)(A) and 172(c)(1), which require each nonattainment area to provide for attainment and submit SIPs providing for attainment by the applicable deadline. There is no exemption from these mandates for downwind areas that can attain through local reductions, but find it difficult to do so. The EPA policy is also inconsistent with the Phoenix reclassification action, which stated that EPA had no flexibility to provide for attainment date extensions in that circumstance. In section 181(i) Congress refused to give EPA authority to extend attainment dates in light of reclassification.

Response 1: The absence of an express provision in the Clean Air Act for an attainment date extension based on transport does not deprive EPA of the authority to interpret the CAA to permit such an extension. Nor do the specific attainment date extension provisions in the statute preclude EPA's interpreting the statute to allow for an extension to account for upwind transport that has interfered with downwind attainment. This interpretation is necessary to prevent the thwarting of Congressional intent not to unfairly burden downwind areas. In various parts of the statute, Congress expressed an intent to accomplish this through provisions prohibiting transport, but these provisions failed to achieve the Congressional goal in time to allow the downwind areas to meet their originally prescribed attainment dates.

The provisions of section 182 governing reclassification also do not prohibit EPA from interpreting the CAA to provide for an attainment date extension based on transport. EPA's policy of extending attainment dates for ozone nonattainment areas affected by transport of ozone and ozone precursors represents a reasonable effort to avoid the frustration of Congressional intent to which a literal application off the reclassification provisions would lead. Where a "literal reading of the statute would actually frustrate the congressional intent supporting it, [a court may uphold] an interpretation of the statute more true to Congress's purpose." *EDF* v. *EPA*, 82 F.3d 451, 468 (D.C. Cir. 1996).

In 1990, Congress established a classification scheme for ozone nonattainment areas that provided for those areas to be classified on the basis of the severity of their ozone problems and for areas with more serious problems to be given more time to attain, but also required to implement more control measures. As part of these provisions, Congress enacted the reclassification provisions under which

ozone nonattainment areas that failed to attain the ozone standard as of their attainment dates were to be reclassified to a higher classification, thereby receiving an extension of their attainment date, but also being subjected to additional control requirements. See section 181(b)(2).

On their face, the reclassification provisions do not provide for any exemption from the reclassification process for areas affected by ozone transport from other States. However, EPA believes that, in light of developments since the enactment of the 1990 Clean Air Act Amendments, a literal application of those provisions to such areas would frustrate broader congressional intent. In this context it is important to recognize that, apart from the ozone reclassification provisions, the CAA contains a provision—section 110(a)(2)(D)—that obligates upwind states to prohibit pollution—including ozone and its precursors—from sources within the state that contribute significantly to nonattainment and maintenance problems in downwind states. Congress was cognizant of the need to control such emissions, and of the inequities between upwind and downwind sources that could result if upwind states did not impose emission controls on their sources that contribute to downwind air quality problems. Congress thus sought to establish a regime that would eliminate such inequities.

The legislative history of the 1977 Clean Air Act Amendments regarding the enactment of section 110(a)(2)(E), the predecessor of section 110(a)(2)(D), and section 126 (a provision that allows EPA to directly regulate sources that significantly contribute to nonattainment in another state) clearly demonstrates this. The Senate Committee Report criticized the lack of effective "interstate abatement procedures" and "interstate enforcement actions" under existing law, which the Committee viewed as "resulting in serious inequities among several States, where one State may have more stringent implementation plan requirements than in another State." S. Rep. No. 95–127 at 41, reprinted in 3 1977 Legis. Hist. 1416. It is reasonable to assume that Congress, when it enacted the ozone reclassification regime in 1990, would have expected that upwind states would have in place implemented SIP provisions that would eliminate significant contributions, as required by section 110(a)(2)(D), by the time downwind areas were obligated to attain the ozone standard. If that had happened, downwind areas that failed

to attain by their attainment dates would have failed to attain as a consequence of their own failures to adopt necessary controls, not as a consequence of the failure of other states to adopt and implement controls necessary to eliminate the contribution of their own sources to the downwind area's nonattainment problem.

Such controls were not in place, however, since, as explained in EPA's transport policy, it in fact took many years for EPA and the States to gain a sufficient understanding of the interstate ozone transport problem to determine the appropriate division of control responsibilities between the upwind and downwind States under the Clean Air Act. It was only through the work of the Ozone Transport Assessment Group (OTAG), which consisted of members from states, industry and environmental groups, and EPA's subsequent NO<sub>X</sub> SIP call, promulgated in October, 1998, that the division of responsibilities among the states was established. Consequently, the fruits of those efforts—the implementation of the control measures in upwind states that were needed to eliminate the significant contribution of sources in those states—would not ripen until 2003 or 2004, years after the statutory attainment dates for areas such as Springfield, MA. Moreover, because the allocation of responsibility for transport was not made until late 1998, the prohibitions on upwind contributions under section 110(a)(2)(D) and section 126 could not be enforced prior to the attainment dates of areas such as Washington, D.C., Greater Connecticut and Springfield, MA. Nor could Congress intend that the upwind areas with later attainment dates accelerate the timetables provided for their own attainment as an indirect means of controlling transported pollution in the absence of data on transport impacts.

To apply the reclassification provision of section 181(b) without taking into account the timing of the identification and implementation of the emission reductions needed to eliminate the significant contribution of the upwind states to the downwind states would lead to the result that the downwind states' sources are required to implement potentially costly control measures to offset the effects of upwind state pollution—pollution that EPA has now determined must be prohibited under the CAA and pollution that will soon be eliminated as a result of the NO<sub>X</sub> SIP call and by emissions reductions in upwind states with later attainment dates. Imposing on downwind areas the burden of

controlling for pollution attributable to upwind sources would compound the inequities that Congress was seeking to avoid with the enactment of sections 110(a)(2)(D) and 126, thereby frustrating Congressional intent. Moreover, such a result would be at odds with the kind of concerns that led Congress to adopt section 179B for international border areas—concerns that areas not be held accountable for pollution over which they exercise no control.

Section 181(b)(2) provides that EPA should determine whether an area attained the standard "within six months following the applicable attainment date (including any extension thereof)." This reference to extensions in section 181(b)(2) is not limited to extensions granted under section 181(a)(5). Nor does section 181(a)(5) state that Congress intended it to be the only source for an extension.

Moreover, section 181(a)(5) addresses only one specific type of an extension. The fact that Congress provided an extension based on air quality that is near attainment at the time of its deadline does not imply that Congress precluded the Administrator from conferring extensions based on other considerations—such as the case when air quality is affected by downwind transport. The principle underlying section 181(a)(5)—that areas should not be reclassified if they have done enough to control local air pollution but are still not able to attain—also applies in the case of downwind transport. Section 181(a)(5) shows that Congress was not unalterably opposed to extensions of attainment dates without requiring an area to be subjected to reclassification and the increased control burdens that go with reclassifications. Indeed, section 181(a)(5) indicates that Congress wanted to extend attainment dates without adding control obligations when an area had done what was apparently sufficient to bring it into attainment.

The United States Court of Appeals for the District of Columbia Circuit has previously held that EPA may extend SIP submission deadlines even without explicit statutory authorization. In Natural Resources Defense Council, Inc. v. EPA, 22 F.3d 1125, 1135-36, the Court upheld EPA's extension of a statutory deadline for submission of NO<sub>X</sub> rules and a NO<sub>X</sub> exemption request under section 182(f). Although the Court did not use the theory advanced by EPA, the court did find that the Agency had authority under the CAA to extend the deadline. EPA had found that additional time would be needed for States to conduct photochemical grid modeling in order to document the effects of NO<sub>X</sub> reductions on an area.

EPA had found that "the time needed to establish and implement a modeling protocol and to interpret the model results will, in a variety of cases, extend beyond the November 15, 1992 deadline for submission of NOx rules." EPA thus extended the submission deadline, provided the states could show that modeling was not available or did not consider effects of NOx reductions and that the states submit progress reports on the modeling. The D.C. Circuit upheld EPA's extension of the deadline and of EPA's time to review the submissions and make an exemption determination. The Court found that "because only a single NO<sub>X</sub> RACT submission is required under the statute, it is logical to infer that Congress intended data supporting exemptions to be included in that submittal and that the EPA have the full 14–18 months to review them and to make an exemption determination." Even in the absence of explicit statutory authority, the Court held that "had Congress foreseen the exemption timing problem, a matter outside the EPA's control, it would have elected to accord the EPA the full statutory review time.' 22 F.3d at 1136. The court ruled that "under the circumstances here the NO<sub>X</sub> RACT deadlines were properly extended to further the Clean Air Act's purposes." Id. At 1137.

Here, similarly, EPA's and the states' inability, until the OTAG and NO<sub>x</sub> SIP call process was completed, to document the impacts of upwind areas on the attainment status of downwind areas, and to assess and allocate responsibilities among the areas, caused a delay in meeting the attainment deadlines. EPA believes that, had Congress foreseen this timing problem, it would have elected to accord the states and EPA more time to meet the attainment deadlines without imposing reclassification requirements on downwind areas. As in the case of the delayed photochemical grid modeling needed for the NO<sub>x</sub> submissions at issue in NRDC v. EPA, EPA has shown that the ability to document and analyze ozone transport was delayed. And as with the criteria imposed on areas seeking NO<sub>x</sub> submission extensions in NRDC, EPA has required analogous showings by the states, limiting the extensions to those areas that document a transport problem and that submit attainment demonstrations and adopt local measures to address the pollution that is within local control.

As for Section 182(i), it has no bearing on the authority of the Administrator with respect to the attainment date extensions at issue here. Section 182(i) applies to the authority of the Administrator after an area has been reclassified, and relates to the setting of an attainment date for the reclassified area. It does not apply to an area that is not being reclassified, but rather is being granted an extension of its attainment date that effectively defers the applicability of the reclassification provisions. Here, EPA is authorizing an attainment date extension to relieve an area from reclassification requirements, and thus 182(i) does not apply. The section explicitly applies to an area that has already been reclassified, and indicates nothing about the authority of the Administrator to extend an area's attainment date prior to a determination that the area must be reclassified. Nor does section 182(i) indicate Congressional intent to deny EPA authority to interpret the CAA consistently with provisions designed to prevent downwind areas from being forced to compensate for upwind pollution.

Comment 2: The CAA does not authorize EPA to extend the time for implementation of adopted local control measures. EPA's approach allows downwind areas to defer implementation of local measures until the extended attainment deadline, thereby precluding any determination that the local measures have achieved the degree of emission reduction necessary to provide for attainment when the upwind sources are controlled. EPA unlawfully proposes to allow attainment date extensions for downwind areas to implement local control measures. Under sections 182(b)(1), 182(c)(2)(A), and 172(c)(1), downwind areas must provide for attainment of the national ambient air quality standards (NAAQS), and EPA unlawfully seeks to lessen these statutory obligations.

Response 2: As explained in Response 1, above, EPA's attainment date extension policy aims to effectuate, not frustrate the intent of Congress, by providing for an equitable allocation of responsibilities between upwind and downwind areas. Under EPA's interpretation, when an upwind area interferes with a downwind area's ability timely to attain the standard, the downwind area retains the obligation to adopt all applicable local measures, and to implement them as expeditiously as practicable, but no later than the date by which the upwind reductions needed for attainment will be achieved. Moreover, EPA requires that the area submit an approvable attainment demonstration containing any necessary, adopted local measures and showing that, assuming the appropriate upwind emission reductions, the area

will attain the 1-hour standard no later than the final NO<sub>x</sub> SIP call and/or the upwind area's attainment date. Thus both the upwind and downwind areas are held accountable for their respective shares of the emissions reductions required to achieve attainment in the area. EPA views this coordination of the responsibilities of the upwind and downwind areas not as a lessening of the statutory obligations, but as a reconciliation of them with the reality of air transport as we have come to understand it, and with the intent of Congress that areas make expeditious progress towards attainment without sacrificing basic principles of fairness. The attainment date extension policy thus will still lead to attainment as expeditiously as practicable, taking into account the upwind contribution. Indeed, given the impact of upwind areas' contributions and the need for upwind area emissions reductions, requiring local contributions earlier would not accelerate attainment, considering that EPA is requiring downwind areas to implement local controls as expeditiously as practicable. Moreover, the difficulty of assessing relative contributions and responsibilities of upwind and downwind areas until the completion of the OTAG effort and the NO<sub>x</sub> SIP call lends support to extending attainment deadlines in these circumstances, even without express statutory permission. See NRDC v. EPA, discussed supra, in Response to Comment 1.

Comment 3: Reclassification alone has no immediate or mandated regulatory consequence. A SIP revision can consist of a showing that attainment will result from implementation of emission reductions already required pursuant to the SIP call. EPA's Extension Policy is inconsistent with Clean Air Act sections 179(c) and (d). This provision does not require additional local control measures beyond those previously approved implemented by the State if adequate control measures have been adopted for upwind areas and are in the process of being implemented.

Response 3: Reclassification does impose regulatory consequences.
Section 182(i) requires that "each state containing an ozone nonattainment area reclassified under section 181(b)(2) shall meet the requirements of subsections (b) through (d) of this section as may be applicable to the area as reclassified." Thus the area must meet the more stringent requirements of a higher classification, including new source review offsets and changes in cutoffs for permitting. The provisions of section 181(b) apply to reclassification of ozone areas. Sections 179(c) and (d) do not

apply to ozone areas that are classified as marginal, moderate, or serious, which are subject to the requirements of section 181, if EPA determines that they failed to attain the ozone standard as of the applicable attainment date pursuant to that section.

Comment 4: Sections 176 and 184 of the CAA do not support EPA's extension policy. Congress left no room in the statute for attainment date extensions for downwind areas, considering instead the additional recommended Ozone Transport Commission (OTC) control measures for upwind areas to be sufficient. Sections 110(a)(2)(D)(i)(1) and 110(a)(2)(A) do not authorize the EPA policy. Section 110(a)(2)(D) imposes a burden only on upwind states and does not relieve downwind states of their obligation to attain by the pre-set attainment dates. EPA lacks the authority to rewrite the extension authority Congress wrote into sections 181(a)(4) and (b)(3). Congress was well aware of the transport problem and addressed it in explicit provisions, including section 110(a)(2)(D), section 110(a)(2)(A), section 184, section 176A, section 126, section 182(h), and section 181(a)(4). Thus Congress knew how to address pollutant transport and how to draft an attainment date extension addressed to it when it wished to do so. It also provided for voluntary reclassification under section 181(b)(3) to be available for downwind areas are affected by transport. Congress dealt with transport explicitly in sections 181(a)(4), 182(h) and 182(j)(2). Congress knew how to exempt transport-affected areas from control requirements if it wanted to, as it did for rural transport areas under section 182(h). Congress limited relief for areas subject to transport to exemption from sanctions, but did not extend this to section 110(c) FIPs. H.R. 101-490, at 248. This shows Congress' intent to apply all of the CAA enforcement tools except for sanctions under section 179. Congress considered the effects of transport, but not in the reclassification context. Congress did provide for attainment date extensions, but not in this context.

Response 4: Having crafted provisions in the 1990 Amendments that it believed would be adequate to address the problem of downwind nonattainment, Congress did not expressly provide for an attainment date extension based on transport. But the absence of such a provision does not prevent EPA from inferring that Congress would have intended to provide such relief should the express provisions fail to function as envisioned. In fact, the manner in which Congress did address the issue of

transport shows that EPA's interpretation is consistent with Congress's approach in other sections of the CAA. EPA's interpretation resolves the problem that arose when the express statutory tools failed to function as Congress had envisioned. It also, as EPA pointed out in its guidance, 61 FR 14441 (March 25, 1999), provides a means to reconcile the attainment demonstrations and attainment date requirements for downwind areas with the graduated attainment date scheme and schedule for achieving reductions in the upwind areas. Although Congress intended that upwind areas be responsible for preventing interference with downwind areas' attainment dates, it also expressly allotted more time for certain upwind areas to reduce their emissions so as to attain the standard.

Sections 110(a)(2)(D), 126, 184 and 176, provide principles for dealing with transport, most importantly the principle that upwind areas be held accountable for reducing emissions that interfere with the ability of downwind areas to attain the ozone standard. EPA disagrees with commenters that Congress intended section 110(a)(2)(D) and the other transport provisions to exclude the possibility of relief for downwind areas even if no timely and adequate recourse against transport was in fact available to them. These sections express Congressional intent that downwind states not be saddled with responsibility for pollution beyond their control. Their premise was that there would be a means of redress against upwind states prior to the downwind area's attainment date—a means that also would not be at odds with Congress's decision to provide longer attainment periods for upwind areas confronting onerous pollution problems. But, as EPA pointed out in its guidance, there was in fact no practicable way to carry out the Congressional scheme until a much more comprehensive understanding of the complex facts of ozone transport could be achieved.

Although Congress in the 1990 Amendments and in prior versions of the Clean Air Act attempted to deal with the issue of transport, the reality of the problem proved far more complicated and intractable than expected. As explained in EPA's guidance, 64 FR 14441 (March 25, 1999), it took many years for EPA and the states to study, analyze, and attempt to resolve the allocation of responsibility for transported ozone pollution. EPA's initial efforts included a policy memorandum addressing the issue of overwhelming transport in 1994. The Ozone Transport Assessment Group was launched in 1995. Through this

collaborative process, EPA, 37 states and industry and environmental groups tackled the problem of allocating responsibility for transport in its Overwhelming Transport Policy. During the period required for this effort, the resolution of regional transport issues was held in abeyance. It was not until late in 1998 that the conclusion of the OTAG and SIP call processes resulted in assignments of responsibility that could assist in the design of SIPs and the formation and implementation of attainment demonstrations. 63 FR 57356 (Oct 27, 1998) ( $NO_X$  SIP Call Rule). In May 1999, these efforts were reinforced when EPA approved petitions submitted under Clean Air Act section 126 by northeast states to mandate federal controls on utilities and other large NO<sub>X</sub> emitters in upwind States. 64 FR 28250 (May 27, 1999) (Section 126 Rule). A more detailed description of the history of efforts to address ozone transport through the 1990's may be found in the preambles to these rulemakings. 63 FR 57360-63, 64 FR 28253-54.

Even after the  $NO_X$  SIP call rulemaking was complete, it was temporarily placed in doubt when the Court stayed the SIP call rule pending judicial review. The court has ordered  $NO_X$  SIP call SIPS to be submitted by October 30, 2000, and to require sources to implement controls by May 31, 2004.

Thus, although Congress in the Clean Air Act had formulated a prohibition on transport interfering with downwind attainment, it remained largely theoretical until EPA and the states could understand how to identify, quantify, and analyze the transport of emissions, and develop regulatory means to coordinate the respective responsibilities of a multitude of upwind and downwind areas. Although Congress endowed EPA and the states with legal tools to protect downwind areas from interference with attainment, it did not give them the ability to use the tools in the time frame anticipated by Congress. By the time EPA and the states gained an understanding of regional transport sufficient to allow enforcement of the provisions of the CAA, it was too late to help some downwind areas meet their attainment dates. Thus it is spurious to argue that EPA and the States could have sought and obtained meaningful relief earlier under section 126 and section 110.

The fact that upwind states are subject to the requirements of section 110(a)(2)(D) but other countries are not provides a possible explanation as to why Congress explicitly provided that ozone nonattainment areas not be reclassified upwards if they would have attained by their attainment dates "but

for emissions emanating from outside" the United States (section 179B(b)) but provided no such express exemption from the reclassification provisions in the case of domestic transport. See IV 1990 Legis. Hist. 5741-42 (remarks of Sen. Gramm introducing the international provision and Sen. Baucus supporting it; Senator Gramm stated: "It is unfair to hold El Paso accountable for pollution that is generated in a foreign country that they have no control over. So what this amendment does it says that in assessing whether or not the State implementation plan has been met, and when assessing the levels of ozone...pollution that is being generated across the border has to be taken into account so that our cities and regions will be judged based on what they do. . . . [The State, region and city] will have the opportunity to come to EPA an say that they are in compliance in terms of their emissions, that their failure to meet the overall standards is due to something that is happening in a sovereign foreign country over which they exercise no control." Senator Baucus stated that, "It is clear that cities like El Paso in the State of Texas do not have control of their own destiny themselves. Much of the air that affects them is from outside, from another country, over which the Senator said the State of Texas and EPA in this country has virtually no control.") Congress assumed that EPA would have control over domestic transport under section 110(a)(2)(D), so it saw no need to enact a domestic counterpart to section 179B. As set forth in EPA's responses and the history of EPA and the states' efforts to understand and control transport, Congress's assumptions were not realized.

As set forth in Response 1 above, Congress intended, through enactment of the provisions addressing transport cited by commenters, to prevent downwind areas from being held accountable for pollution over which they exercise no control. Because of the complexity of the transport problem, EPA and the states could not deploy these statutory provisions in time to achieve attainment by their original attainment dates. But this does not mean that Congress would have intended EPA to construe the very provisions designed to protect downwind areas as precluding EPA from interpreting the statute to provide the relief that those provisions failed to furnish. Notwithstanding the absence of an express provision for an attainment date extension based on transport, EPA believes that, taking into account the CAA read as a whole, Congressional

intent supports EPA's interpretation of an attainment date extension in the circumstances presented here.

Commenters argue that the fact that Congress formulated various provisions addressing certain specific types of issues concerning transported pollution, but did not provide for an explicit attainment date extension based on transport, should be taken as proof that Congress meant to preclude such relief. But each of the provisions cited by commenters—to sections 181(a)(4), 182(h) and 182(j)(2)—was designed to address a different problem from the one EPA addresses here, and none undermines EPA's interpretation that Congress intended to provide relief in the situations currently confronted by downwind areas. As shown in EPA's previous responses, Congress expressed its intent in the transport sections to protect downwind areas from the burdens of transported pollution, but the mechanisms it provided could not be invoked in time.

As for the sections referenced by commenters, Section 181(a)(4) concerns the potential for adjustment of the original classification of an area if its design value is within a certain margin. It allows the Administrator to consider a number of factors, including among them transport. This provision in no way casts doubt on the Congressional intent not to penalize downwind areas through mandatory reclassification should they later fail to attain the standard due to transport. Section 182(h) provides a mechanism for original classifications of rural transport areas as marginal areas, the lowest level of ozone nonattainment areas. Far from indicating that Congress did not intend relief for areas that are victims of transport, this provision reflects Congressional concern with not burdening areas with responsibility for transport not of their making. It sheds no light on whether Congress would have intended EPA to reclassify areas suffering from transported pollution if they were subsequently unable to meet their attainment dates.

Nor, as commenters suggest, would so-called "voluntary" reclassification under section 181(b)(3) furnish an adequate remedy for the situation confronting areas that fail to attain due to interference from transport. An area that felt constrained to seek "voluntary" reclassification would still be forced to subject itself to more stringent requirements to control local pollution in lieu of imposing on upwind areas the responsibility for the transport they caused.

Comment 5: The states had power to timely submit SIPs controlling local

pollution to the full extent that it was in the state's power to require, and combine it with a request to EPA to invoke EPA's authority to control upwind pollution, and in this way the state could have attained by the applicable deadline. EPA's 1994 overwhelming transport policy required transport modeling to be documented the same time as the attainment demonstration due in 1994. There is no justification for allowing states to request attainment date extensions based on transport of which they were aware many years ago. An opening is created for upwind states to argue that the NO<sub>X</sub> SIP call effectively accelerates their attainment dates. The OTC was to recommend measures to bring about attainment by the deadlines "in this subpart."

Response 5: As pointed out in EPA's Response 4, above, an awareness that transport was occurring is not equivalent to an ability to identify, analyze, and control the emissions that cause it. This ability, which grew out of years of study and joint effort, did not coalesce until late in 1998. Thus, downwind states were faced with the prospect of having to shoulder responsibility for pollution not of their making—a responsibility that Congress did not intend to impose on them, even as they were aware of an ongoing effort, involving EPA and thirty-seven states, to allocate responsibilities for transport through the OTAG process. As EPA stated in its guidance on the attainment date extension, the state of knowledge about and the ability to document and model transport has advanced considerably since the issuance of EPA's overwhelming transport guidance. The commenters seek to ignore the climate of uncertainty in which states and EPA were operating with respect to controlling transported pollution. Section 110(a)(2)(D) and 126 are not self-executing, and until the culmination of the OTAG process, downwind areas in the OTAG region could not determine what boundary conditions they should assume in preparing attainment demonstrations and determining the sufficiency of local controls to bring about attainment. Meaningful relief under these provisions simply was not available earlier.

But even with the allocation of responsibilities now available, EPA believes that Congress did not intend to accelerate the obligations of upwind states so that downwind states can meet earlier attainment dates. This would undermine the objective, firmly embodied in the graduated attainment framework of the Clean Air Act, to allow upwind areas with more severe pollution longer attainment deadlines. Upwind areas with later attainment dates still find it difficult to reduce emissions solely to control for transport without accelerating the time frames intended by Congress. It is unrealistic to expect upwind areas to be able to segregate out the reduction of emissions for purposes of transport from the reduction of emissions for purposes of achieving attainment in the upwind area.

The fact, as a commenter points out, that Congress envisioned that the OTCrecommended measures would bring about attainment by the dates "in this subpart" reflects Congress' over optimistic view that transport would be understood and controlled in time to allow upwind areas to be held accountable for their contributions to downwind nonattainment. The comment underscores that Congress expected upwind reductions to take place by the time the downwind area was supposed to attain—this confirms that Congress expected that upwind pollution would be controlled prior to downwind attainment deadlines, and that only local pollution would remain as the downwind area's responsibility. But, as we previously stated, the time line for analyzing and assessing transport, and the resulting ability to implement appropriate measures to control upwind pollution, did not keep pace with Congress's expectations. EPA is extending attainment deadlines in order to allow upwind areas to assume responsibility for the pollution they generate and that is transported across State boundaries, and to fulfill the Congressional intent that downwind areas not be saddled with this burden.

Comment 6: EPA's decision directly conflicts with NRDC v. EPA, 22 F.3d 1125 (D.C. Cir. 1994), where the Court held that EPA could not extend a clear statutory submission deadline.

Response 6: To the contrary, EPA believes that NRDC v. EPA supports EPA's authority to issue the attainment date extensions at issue here. In that case the U.S. Court of Appeals for the D.C. Circuit upheld EPA's extension of SIP submittal deadlines even though such extensions were not expressly permitted by the Clean Air Act. See the discussion in Response to Comment 1, above. The Court relied in part on the need for additional time to undertake photochemical modeling to document the impact of NO<sub>X</sub> reductions on individual areas, an effort that took more time than Congress anticipated. Here, the effort to document, model, and analyze regional ozone transport issues and assess responsibility for relative

contributions is, if anything, more complex than the  $NO_X$  exemption showings for which the Court upheld deadline extensions in NRDC v. EPA. The Court's reasoning in NRDC v. EPA should be fully applicable to the policy at stake here.

Comment 7: A commenter concedes that "EPA's delay in establishing the mandatory emission reduction targets for upwind States might justify the delay in adoption of adequate section 110(a)(2)(D) measures by the upwind states," but concludes that the delay "cannot justify delaying the obligation of downwind States to implement all the local measures necessary for attainment by the statutory deadline." One commenter, while acknowledging that it "does not take issue with EPA's objective of accommodating the delayed control contributions from upwind areas," contests EPA's claim of authority to extend attainment dates. This commenter suggests that the appropriate remedy is for EPA to authorize states to take credit for mandated emission reductions when preparing attainment demonstrations and determining the degree of local controls needed to attain.

Response 7: While the commenter recognizes that there was a delay in understanding and regulating transported pollution that "might justify the delay" in upwind states adopting section 110(a)(2)(D) measures, and agrees with EPA's objective in taking this delay into account, the commenter's proposed solution fails to address the problem it acknowledges. The commenter suggests allowing areas to take credit when they prepare their attainment demonstrations—but this solution addresses only the planning requirement, and does not assist the areas in solving the problem of failing to meet their attainment deadline. It is to address this issue, and to effectuate Congressional intent to avoid penalizing downwind areas in these circumstances, that EPA has formulated the attainment date extension. The delay in ascertaining the amount and achieving the reality of upwind reductions—a delay conceded by commentersresulted in uncertainty in a downwind area's ability not only to plan for attainment, but to realize it.

This comment also highlights the difficulties that EPA's attainment date extension policy was designed to address: namely that the states and EPA were (1) not able to assess relative contributions until it was too late to implement the controls to bring about attainment; and (2) upwind areas with longer attainment dates should not be required to accelerate their reductions in time to help bring about attainment

as scheduled in affected downwind areas with earlier attainment dates. As the policy explains, the determination of relative upwind and downwind contributions and the allocation of responsibility for determining controls did not occur in time for a number of areas to meet their attainment deadlines.

Comment 8: EPA's approach allows emission reductions from motor vehicles to be deferred beyond the deadlines currently required by the CAA. The policy allows deferral of conformity budgets beyond the statutory attainment year. It is also inconsistent with statutory requirements for reasonable further progress in section 182(c)(2)((B), for implementation of all reasonably available control measures as expeditiously as practicable in section 172(c)(1), and for requiring that Transportation Plans and Transportation Improvement Programs (TIPs) "will not delay timely attainment of any standard or . . . other milestones in any area in section 176(c)(1).'

Response 8: EPA disagrees with the commenter that the policy allows deferral of motor vehicle emission reductions and reasonably available control measures beyond dates contemplated in the CAA. The statute requires SIPs to provide for attainment as expeditiously as practicable and for reasonable further progress as necessary to provide for attainment. The motor vehicle and RACM measures the commenter is apparently referring to are not specific measures that the statute requires to be implemented by a fixed date. Rather, they are whatever motor vehicle and RACM measures are necessary to provide for attainment and RFP by the applicable attainment date. Thus, whatever attainment date is applicable, either by virtue of the statute or an attainment date extension, defines the outside date by which motor vehicle and RACM measures necessary to provide for timely attainment must be implemented. A determination must then be made whether any additional measures could advance that date, but the analysis is keyed to the established attainment date. The commenter also complains about delays in establishing budgets for conformity purposes, and requirements that transportation activities not delay timely attainment. Again, these issues are not relevant to establishing an appropriate attainment date. Motor vehicle emission budgets for conformity purposes are those budgets that are established for the attainment year. The CAA does not require that these budgets be set for any specific year, but rather contemplates that they will be established for the attainment year. Where EPA has properly

determined that an attainment date extension should be granted, conformity budgets are required for the extended attainment year; they are no longer required for the superseded attainment vear. The requirement that transportation activities not delay timely attainment is a duty imposed on transportation planning agencies to insure that their activities will not interfere with attainment of the standard by the applicable attainment date. This duty is irrelevant to establishing the appropriate attainment date in the first instance. Once an applicable attainment date is established, transportation planners must insure that their activities will not delay attainment by that date.

Comment 9: A commenter argues that under the terms of section 188(e), an extension of the PM attainment date may not be granted unless the State demonstrates that the area's SIP contains "the most stringent measures that are included in the implementation plan of any State or are achieved in practice in any Sate, and can feasibly be implemented in the area." Moreover, section 188(e) provides for consideration of transboundary emissions from "foreign countries," not from U.S. sources. EPA's proposed ozone nonattainment extension policy includes neither of these limitations.

Response 9: The provision cited by commenters applies the PM-10 standard, and is not applicable to attainment dates for ozone. Moreover, the regulatory regimes applicable to ozone and PM-10 are quite different, as are the types of transport issues that arise with respect to these two different pollutants. The issues EPA and the states confront with respect to longrange regional transport of ozone do not apply to PM-10. Beyond that, section 188(e) embodies a standard of "impracticability" as a basis for seeking an extension for a PM-10 attainment deadline. With respect to the ozone attainment deadlines at issue here, EPA is not granting extensions solely on the grounds of impracticability of attaining the standard, but rather, that Congress intended both upwind and downwind areas to have an opportunity to bear the responsibility for their respective contributions to an area's attainment problems.

Comment 10: EPA's effort to "manufacture a conflict" between the statutory deadlines and transport provisions fails, since these provisions must be read together so that the upwind area's "obligation to control pollution affecting the downwind area—be it interstate or intrastate—falls due no later than the downwind area's attainment date." EPA's argument that

areas with longer attainment dates be given additional time ignores the statutory requirement that areas attain as expeditiously as practicable, even if that results in attainment before section 181(a)(1)'s outer deadlines. The section 181 attainment deadlines are "outside limits." A commenter argues that Section 181(a) does not prevent upwind areas from abating pollution in downwind areas in time to meet the downwind area's attainment date. EPA's policy cannot be defended as necessary to reconcile 181(a) with the CAA's antitransport provisions. Upwind areas should be able to control pollution contributing to downwind area's nonattainment even before reaching their own later-prescribed attainment

A commenter disputes EPA's interpretation of the language in section 110(a)(2)(D)(1) that SIP provisions prohibiting emissions which cause transport be "consistent with the provisions of this subchapter." EPA should interpret the provisions to respect the attainment schedules of sections 181 and 182, and address transport separately. No reference is made to any legislative history that would legitimize EPA's reading. An upwind area's obligation to control transported pollution does not depend on its own timetable for attainment. EPA's policy excuses upwind area's responsibility from their obligations under sections 110, 176A and 184, exempting them via granting extensions to downwind areas. The policy defers downwind action until the upwind area attains.

EPA improperly assumes that it would not be practicable for upwind sources to reduce emissions contributing to downwind nonattainment prior to the time such reductions would be required to attain in the upwind area. The presumption should be precisely the opposite: unless the upwind state can show that such reductions are impracticable, EPA should assume such reductions can be made at times to eliminate the upwind state's contribution to nonattainment downwind by the downwind area's attainment date. EPA's rule eliminates the CAA's requirement that attainment be accomplished as expeditiously as possible. Section 184 indicates Congressional intent that upwind areas make reductions if necessary to permit downwind areas to attain by their statutory deadlines.

Response 10: EPA disagrees with the commenter's contention that it has "manufactured a conflict." Rather, EPA believes that it recognizes and resolves the real tension between the statutory

deadlines and the transport provisions. EPA explained this tension in its guidance on the attainment date extension policy. See also EPA's response to Comment 4. Congress did not intend that areas with more severe pollution problems, and accordingly longer attainment dates, be forced to accelerate reductions on a timetable that otherwise would not be deemed to be required in order to meet their obligation to attain "as expeditiously as practicable." Commenters want EPA to read the requirement for upwind areas, not as containing the limitation that their attainment deadline be "as expeditiously as practicable"—but instead, to require deadlines that are not practicable solely for the purpose of obtaining downwind reductions.

In dealing with ozone, a regional pollutant, an upwind nonattainment area cannot make reductions for transport purposes without affecting its schedule for making reductions for attainment purposes. Compelling the upwind area to make drastically faster reductions is akin to asking it to go on a crash diet. But the interplay of the statutory provisions on attainment deadlines and transport reduction indicates that Congress intended upwind areas to reduce transport, but not to the extent of requiring shorter schedules for upwind attainment. Separating out reductions for purposes of attainment and those for the purposes of transport is more difficult than commenters depict, and EPA believes that Congress did not intend a regimen of drastic reductions without regard to the upwind area's attainment schedule. In reality, an upwind area that remains in nonattainment may doubtless be shown to continue to transport pollution to an affected downwind area.

Congress provided statutory tools to address the issue of transport (including sections 184, 126, and 110 (a)(2)(d)), and believed that they would be used to reach an accommodation among upwind and downwind areas—but as EPA and some commenters have recognized, this accommodation took longer than anticipated. Congress did not, however, intend that upwind areas be forced to apply draconian measures in order to allow the downwind areas to meet their shorter attainment periods.

And although the attainment deadlines can be looked at as "outside limits," they in fact represent the dates at which statutory consequences must be considered. As long as no earlier date is deemed to be "as expeditiously as practicable," there is no evidence that Congress considered an earlier date to be acceptable for these areas, regardless of "practicability." Even if earlier

deadlines would be beneficial to downwind areas, Congress did not indicate that this criterion should override the criterion of "practicability" for the upwind area.

In administering the Clean Air Act and the NO<sub>X</sub> SIP call, EPA has interpreted section 110(a)(2)(d)'s significant contribution test as requiring reductions as expeditiously as practicable without requiring upwind areas to impose draconian measures. The United States Court of Appeals for the District of Columbia Circuit recently upheld EPA's use of a cost component in applying that section's significant contribution test. Michigan v. EPA, 213 F.3d 663, 674–679 (D.C. Cir. 2000). EPA decided that the states that were "significant contributors" under section 110(a)(2)(D) need only reduce their emissions by the amount achievable with "highly cost-effective controls." FR at 57403. "Thus, once a state had been nominally marked a 'significant contributor,' it could satisfy the statute, i.e., reduce its contribution to a point where it would not be 'significant' within the meaning of section 110(a)(2)(D)(i)(I) by cutting back the amount that could be eliminated with 'highly cost-effective controls.''' 213 F.3d at 675.

In applying section 110(a)(2)(D), the D.C. Circuit concluded that EPA can consider not only air quality impacts, but also costs of control. Thus EPA has been upheld in interpreting the CAA in a way that limits the upwind area's responsibility to control pollution so as to mitigate its responsibility under section 110(a)(2)(D). The upwind area should not have to impose draconian controls. As the court in Michigan v. EPA, concluded, "there is nothing in the text, structure, or history of section 110(a)(2)(D) that bars EPA from considering cost in its application." 213 F.3d 679. The Court's discussion makes clear that EPA, in interpreting the responsibilities of upwind states under section 110(a)(2)(D), may consider differences in cutback costs in determining what constitutes a significant contribution, and that EPA's inquiry is based on balancing a number of considerations to balance health effects and cost-effectiveness.

EPA's policy does not excuse the upwind areas from fulfilling their obligations under section 110. Upwind areas will be held to section 110 and RACM requirements. EPA has determined the upwind areas' section 110 obligations through the SIP call. The SIP call requires reductions by the date EPA determined was as soon as practicable to eliminate significant

contributions to downwind areas.¹ This is coupled with the upwind area's obligation to attain as expeditiously as practicable. It is appropriate to hold downwind areas to the upwind area's attainment date as an outside limit until EPA acts on the upwind area's attainment demonstration. The modeling evidence we have now shows that upwind areas need to come into attainment for the downwind areas of Metropolitan Washington, D.C. and Greater Connecticut to attain the standard.

Comment 11: The section 182(j)(2) "but for" standard applies to intrastate transport. An area must demonstrate that it would have accomplished attainment but for the failure of other areas to implement sufficient controls. The policy is vague, and fails to establish clear standards for a showing of transport. The "affected by transport" standard is unclear.

Response 11: EPA is not constrained by the section 182(j)(2) standard. This section is limited in application to single nonattainment areas that are located in more than one state, and does not address transport coming into an area from another, separate area. Our determinations in the SIP call were clear, and the modeling that resulted from the SIP call effort showed that there were significant impacts from upwind areas on the downwind areas, no matter whether one used as a standard the "but for," "significant contribution" or "affected by transport" formulation. Congress intended that an upwind area that significantly contributes to a downwind area's nonattainment problem should bear responsibility for that pollution. The modeling shows that significant contributions are made by the upwind areas to the downwind areas seeking attainment date extensions. EPA still believes that Congress would not have intended to impose the burden on downwind areas for an upwind area's contribution.

Comment 12: Transport is already incorporated into each area's section 181 design value and thus is assumed in setting the projected attainment date. Congress understood transport resulted in elevated design values, but did not authorize classifications to take into account transport, and provided for reclassification by operation of law based on air quality. In section 181(a)(1), Congress directed that ozone nonattainment areas be placed within

certain classifications based solely on their design values, regardless of transport. Congress understood that many areas were classified as moderate or severe at least in part because of ozone transport, but did not grant EPA discretion to take such transport into account when establishing initial classifications under the CAA. Why does EPA believe so strongly that its approach is consistent with Congressional intent, given Congress's refusal to consider transport in establishing the initial classifications and in light of sections 181(b)(2) and 182(i)?

Response 12: The fact that the provisions governing the initial classification process expressly take transport into account in a specific way—see section 181(a)(4)—does not mean that EPA is precluded from taking transport into account when providing for an attainment date extension based on transport, prior to invoking the reclassification provisions. See EPA's Response to Comment 1. By providing for an extension of the attainment date, EPA is effectuating Congressional intent that the transport relief provisions have a chance to take effect before EPA has an obligation to determine whether the area has attained for purposes of triggering the reclassification provisions.

Comment 13: EPA has previously concluded that reclassification is not a means of penalizing an area, but a means of providing additional reductions that will benefit public health. EPA rejected the notion that bump-up is a penalty when it reclassified the Phoenix, Arizona area from moderate to serious. There, EPA said:

The classification structure of the Act is a clear statement of Congress's belief that the later attainment deadlines afforded higher-classified and reclassified areas require compensating increases in the stringency of controls. The reclassification provisions of the Clean Air Act are a reasonable mechanism to assure continued progress toward attainment of the health-based ambient air quality standards when areas miss their attainment deadlines and are not punitive.

Final Rule, 62 Fed. Reg. 60001, 60003 (Nov. 6, 1997). Why has EPA changed its mind about the functions of reclassification?

Response 13: EPA has not changed its mind about the function of the reclassification provision where the issue of transport is not presented. In the context of Phoenix, a reclassification not involving transport, EPA made the response cited by commenter, and noted that the reclassification provision was

<sup>&</sup>lt;sup>1</sup>Because the D.C. Circuit stayed the obligation of States to submit plans for 13 months, the court also extended by 13 months the date by which sources must implement the necessary controls.

not intended to be punitive. This view is consistent with the position that EPA takes here, where the circumstances are quite different from the non-transport reclassification context. In the absence of transport, an area that fails to attain by its attainment date, may still fairly be held accountable for controlling local pollution, and be granted a longer attainment deadline in return for more stringent controls. Under these circumstances, applying the reclassification provisions is not punitive. But in the circumstances EPA and the states confront here, the local area is not responsible for pollution that interferes with its ability to meet the standard. In such a case, to trigger reclassification would impose on the area the responsibility and costs for pollution beyond its control, and would indeed be punitive. To avoid such a result, and to effectuate Congressional intent, EPA has interpreted the CAA to authorize an attainment date extension.

Comment 14: Congress directly considered and rejected EPA's interpretation of its attainment date extension authority during the Clean Air Act Amendments of 1990. During debate, Senator Kasten expressed concern about the proposed legislation's provisions concerning the "issue of downwind ozone nonattainment." He noted that pollution from Chicago affected southeastern Wisconsin, but described "the difficulty this poses is that the Nation's most polluted urban areas are given a much more generous timetable for meeting air-quality standards. Chicago will have 5 more years to meet air-quality standards than these Wisconsin counties will have." Senator Kasten then noted that because of Chicago's longer attainment date, it was likely that the Wisconsin counties "will be found in violation of the Clean Air Act because of actions taking place outside of their jurisdiction in an upwind State." The commenter claims that Senator Kasten introduced an amendment which provided, among other things, for an attainment date extension for the downwind area until the upwind nonattainment area achieved emission reductions. S. Comm. On Envt. And Pub. Works, A Legislative History of the Clean Air Act Amendments of 1990, pp. 4954-55 (1993). The commenter claims that "the amendment, was, of course, rejected." Thus the commenter argues that Congress, although it addressed ozone transport in sections 176A and 184, declined to alter the requirements of section 181, even though it was aware of the problem that EPA seeks to solve

with its attainment date extension policy.

Response 14: There is no evidence that the amendment discussed by Senator Kasten was ever debated, considered, or voted upon. Commenter cites no support for the proposition that it was considered and rejected. Thus no inferences can be drawn from the fact that the amendment was not embodied in the statute. Moreover, even if the amendment had been considered and rejected, it differed from and went so far beyond the attainment date extension EPA is applying here as to not be probative of Congressional intent with respect to EPA's current interpretation of the CAA. Among other things, it would have provided for a new and separate Ozone Transport Region, and would have provided for different obligations and consequences for downwind areas than what is contained in EPA's current interpretation of the attainment date extension policy. Legislative History at 4954–56.

*Comment 15:* The EPA policy is an illegal expansion of the 1994 overwhelming transport policy. Now the upwind area need not be a nonattainment area with a later attainment date, as long as it is an upwind area in another state that significantly contributes to nonattainment in the downwind area. Also, the new policy would allow attainment even later than attainment for the upwind area if the date for the NO<sub>X</sub> SIP call reductions is later. Where the upwind area is in attainment or where its attainment date is earlier than the NO<sub>X</sub> SIP call reductions, then an extension cannot be justified as necessary to reconcile the transport provisions with section 181(a). There is no justification for applying the policy where the upwind area is in attainment, or is in nonattainment but has air quality meeting the NAAQS, or where it is in nonattainment but has an attainment date earlier than the extension proposed.

Response 15: The policy is not an illegal expansion of the overwhelming transport policy, but an appropriate interpretation of the provisions of the Clean Air Act in order to fulfill Congressional intent. EPA's current articulation of the attainment date extension policy reflects the considerable advances in understanding and allocating responsibility for transport that have occurred since the formulation of the Overwhelming Transport Policy. These advances have resulted from the work on ozone transport included in, among other efforts, the OTAG, SIP call, and area modeling programs. EPA thus regards

the attainment date extension policy as superseding the Overwhelming Transport Policy. See EPA's earlier responses. The policy is not being applied here so as solely to involve upwind attainment areas, or upwind areas with earlier attainment dates. Upwind attainment areas with deficient SIPs have still been found to contribute significantly to downwind nonattainment. The SIP call involves a statewide area that may include attainment and nonattainment areas that have been found to contribute significantly to downwind nonattainment.

Comment 16: Downwind areas should be required to implement, not just adopt, all required measures before becoming eligible for an extension. Modeling is imprecise and an area might be able to attain if they implement all required measures, which should already have been implemented prior to the original attainment date. A state could have timely submitted all the provisions for control of local pollution as required by sections 182(b)(1)(A)(i), 182(c)(2), and 172(c)(1) providing for the full extent of local reductions that it was in the state's power to require.

Response 16: In granting an attainment date extension for an area, EPA has determined that upwind reductions are necessary to help the area reach attainment. Thus, requiring all local reductions to be implemented prior to the time that upwind reductions are achieved would not accelerate attainment. Nonetheless, EPA has required that local reductions be implemented as expeditiously as practicable. See EPA's Guidance 61 FR 14441 (March 25, 1999).

Comment 17: EPA's allegation that local measures "will become superfluous once upwind areas reduce their contribution to the pollution problem," 64 FR 14444, is mistaken. First, the measures will produce public health benefits during the period prior to implementation of upwind reductions, and second the CAA independently requires all areas to "implement all reasonably available control measures as expeditiously as practicable," 172(c)(1), regardless of what reductions are expected from upwind areas. EPA should not allow downwind areas to postpone implementing local measures until upwind reductions are achieved. This extension is unlawful, and, because unexplained, arbitrary and capricious.

Response 17: EPA disagrees with the commenter's characterization of EPA's actions. EPA is in fact requiring downwind areas to implement the local

control measures required under the classification as expeditiously as practicable, but no later than the time the upwind reductions are achieved. See EPA's Guidance, supra. To obtain an extension the area must have provided that it will implement all adopted measures as expeditiously as practicable, but no later than the date by which the upwind reductions needed for attainment will be achieved. See also response to Comment 16, above. No measures are being postponed as a result of the areas being granted a later attainment deadlines. None of these areas have delayed or postponed the effectiveness of measures because their attainment date is being extended. The states are enforcing their attainment measures as expeditiously as practicable. Thus EPA's interpretation is not unexplained, arbitrary, nor capricious. As EPA has explained, it seeks to reconcile and coordinate the responsibilities of upwind and downwind areas to work together to achieve attainment. However, as discussed elsewhere, EPA has applied the section 172(c)(1) RACM requirement to these areas.

Comment 18: EPA is excusing downwind areas from the requirement that nonattainment SIPs must provide for attainment of the NAAQS as provided in sections 182(b)(1)(A)(i), 182(c)(2)(A), 172(c)(1), and is also excusing them from the requirement that they implement all reasonably available control measures as expeditiously as practicable, regardless of the reductions required for attainment. EPA's attempt to lessen these obligations is unlawful and, because unexplained, arbitrary and capricious.

Response 18: EPA is not excusing downwind areas from the requirement that they submit SIPs providing for attainment. Nor is EPA excusing downwind areas from the RACM requirement. EPA's interpretation does not exclude what is necessary for attainment; rather, a measure is RACM if it is needed for attainment. EPA is enforcing this requirement, but allowing the downwind state to take into account the control contribution of upwind areas that Congress envisioned, and that the commenters themselves acknowledge is embodied in Clean Air Act provisions, in determining the applicable attainment date. EPA is also requiring that the states implement reasonable control measures as expeditiously as practicable. See EPA's Responses to other comments.

Comment 19: EPA's policy cannot be defended as a reconciliation of section 181(a) with the CAA's anti-transport

provisions. Under a proper interpretation of the CAA, (1) upwind states' SIPs would ensure that the upwind areas' pollution contributing to NAAQS violations in downwind areas would be controlled, no later than the downwind areas' attainment date, (2) upwind areas would attain locally as expeditiously as practicable but no later than the date prescribed by section 181(a)(1) for the upwind area, and (3) downwind areas would attain locally "as expeditiously as practicable but not later than" the applicable date prescribed in section 181(a)(1). This reading gives effect to all of the relevant statutory provisions.

Response 19: The commenter concedes that under a proper interpretation of the CAA, upwind states' SIPs would ensure that upwind areas' pollution contributing to violations in downwind areas would be controlled, prior to the downwind area's attainment date. But in the circumstances actually confronting EPA and the states, as EPA has explained in prior responses, it was not possible, given the state of knowledge of regional ozone transport, to control upwind transport prior to the original downwind attainment dates set forth in section 181(a)(1). Thus, in order to allow the upwind areas to fulfill their responsibility under the CAA and to avoid imposing on the downwind area a burden Congress did not intend, EPA proposed interpreting the CAA to adjust the downwind attainment deadlines, the very interpretation that the commenter rejects as unnecessary. By adjusting the attainment date to allow the upwind and downwind areas to carry out the statutory allocation of responsibility that is acknowledged by the commenter, EPA indeed is reconciling the CAA and rendering a proper interpretation.

Comment 20: No extension should be granted unless the area is as small as possible. The basis for transport should not be OTAG modeling, since better data is available.

Response 20: The boundaries for serious nonattainment areas were established by operation of law (CAA section 107(d)(4)). The modeling done by OTAG and by EPA in the SIP call and the local modeling done in connection with the attainment demonstrations represents the best available modeling.

# 2. Comments Received on 12/16/99 Proposals

Comment 1: The SIP submittals for Springfield, Greater Connecticut and Metropolitan D.C. do not contain substantive additional measures to reduce the state's ground level ozone

problem. EPA cannot approve the attainment submittal because, among other reasons, it does not provide for attainment "as expeditiously as practicable," as required by Section 181(a) of the CAA. Both the attainment submittal and the proposed rule simply assert that the states, acting alone, cannot achieve attainment, either in 1999 or 2007. Neither the state nor EPA explores the question of what the state can do, with the help of specified upwind emission reductions, to achieve attainment as expeditiously as practicable. There is no showing that the State could not achieve attainment in 2003 through a combination of local and state measures and the  $NO_X$  SIP Call; we only know that the NO<sub>X</sub> SIP call is not likely to produce attainment by 2003 without additional local reductions. The SIPs do not meet the requirements of the CAA to provide for attainment as expeditiously as practicable and/or no later than November 15, 1999. States have made no attempt to provide for attainment as soon as possible. Because they do not meet the CAA's requirements for timely attainment, EPA must disapprove them.

Response 1: Congress did not intend for the states to be responsible for achieving attainment, acting alone, when upwind areas are transporting pollution that contributes to their nonattainment problem. EPA has determined that, under the attainment date extension, the states will attain the standard as expeditiously as practicable. The basis for this determination, and EPA's findings that the area is affected by transport from upwind areas, is discussed extensively in section VII.A.1. EPA has determined that even with the attainment date extension, no reasonably available control measures would advance the attainment date. See other Responses to Comments in section VII.A. and section VII.E.

Comment 2: The state's SIP does not contain adequate contingency measures as required by Section 172(c)(9) of the CAA. Such measures are especially important in a case such as this, where a substantial portion of the emission reductions relied on are assumed to occur well into the future, and well beyond the statutory attainment date.

Response 2: Although no measures have been specifically designated as contingency measures, EPA has found that measures that could reasonably constitute appropriate contingency measures are already contained in the SIP or exist in promulgated Federal regulations. See discussion of contingency measures in Section VII.L for each of the attainment date

extension areas contained in Responses to Comments.

Comment 3: Even assuming the Transport Guidance is consistent with the CAA, the states' attainment submittals do not meet the requirements and/or preconditions necessary to secure adequate emissions reductions from in-state sources. For example, CT and MA could secure further NO<sub>X</sub> reductions from power plants and other stationary sources through implementation of RACT on additional stationary sources. The States could secure additional reductions through a diesel inspection and maintenance program.

Response 3: EPA believes that a diesel I/M program may have some potential for emission reductions. At this time, however, there is insufficient information available about the program to determine whether diesel I/M would be economically or technologically feasible. Also, the test protocols are not sufficiently developed to enable EPA to determine the magnitude of reductions possible, and thus whether the program's emission reductions would advance the attainment date. In its other Responses to Comments, EPA has explained and supported its conclusions that the states have adopted and will implement as expeditiously as practicable the measures necessary to secure adequate emissions reductions from in-state sources. No additional RACM is required for these areas.

Comment 4: The States have failed to timely pursue administrative avenues for states to seek redress for transport problems: through a section 126 petition and a section 110 SIP call. CT and MA did not file section 126 petitions until the summer of 1997. Even if EPA's transport Guidance were lawful, it should not be applied except as a matter of last resort—the downwind area must have identified and committed to all necessary local measures and exhausted its administrative remedies in a timely fashion to secure all necessary upwind reductions. The States have failed to do that and have waited too long. They want to wait until upwind reductions bring them into attainment without making any additional emission reductions of their own. This is not in keeping with the attainment provisions and schedules in the CAA.

Response 4: EPA disagrees with the commenter that the States have waited too long to seek relief. As set forth in detail in Section VII.A.1, the States and EPA have worked for years to solve the transport problem, and were unable to obtain adequate redress for transported pollution until the culmination of the OTAG effort. EPA finds that the States

were not dilatory in their efforts to pursue relief from transported pollution; relief was not available until regional transport could be analyzed and responsibility for remediation appropriately apportioned. This effort took years, and was more prolonged than Congress, EPA, or the states had anticipated. See EPA's discussion of the history of the efforts to address transport in Section VII.A.1. The States have not failed to pursue any remedies as they became meaningful and available. Nor does EPA agree that its attainment date extension allows the States to wait for upwind reductions without making local emission reductions. EPA's policy is predicated upon an equitable allocation of responsibility between upwind and downwind areas, and explicitly requires the downwind areas to adopt and implement local controls as expeditiously as practicable.

Comment 5: The states have failed to implement all available control measures and have not demonstrated that attainment is impracticable due to pollutant transport. The states have failed to meet the requirement of EPA's transport policy that the states adopt all local measures required under the area's current classification.

Response 5: EPA disagrees with the commenter's contention that the states being granted attainment date extensions have not satisfied the criterion of adopting required local measures. EPA finds that the states have fulfilled their responsibility with respect to having adopted required local measures. With respect to contingency measures, EPA has determined that measures that can be reasonably construed to function as contingency measures are already contained in the areas' SIPs. See further discussion of the contingency measure requirement in other Responses to Comments. With respect to Massachusetts, the area has adopted and EPA has found approvable all other local measures that are required under its current classification, including NO<sub>X</sub> RACT. EPA has further found that the states have or will implement required local measures as expeditiously as practicable. Thus, EPA believes that the states have fulfilled their responsibility to satisfy the requirements of their current classification, and that, under these circumstances, Congress would not have intended them to be reclassified for failure to attain.

Comment 6: The states have not shown that they have committed to implement all local measures necessary to secure adequate emissions reductions from in-state sources. They have not shown that a combination of local reductions and upwind reductions will achieve attainment by their extended dates.

Response 6: EPA has found that the states have demonstrated attainment through a combination of upwind and local measures. See other EPA responses and discussion of the attainment demonstration. Secondly, although the states theoretically could always secure more reductions through additional local measures, Congress did not intend that the downwind states compensate for the upwind states failure to control transported pollution. Having met the RACM requirements and controlled for local pollutants, the downwind area should not be required to secure additional emissions reductions in order to offset emissions from upwind sources. As EPA has discussed elsewhere in its responses, the States have committed to implement all measures necessary to secure adequate emissions from in-state sources.

Comment 7: The D.C. Circuit stated in American Trucking Ass'n v. EPA, 175 F.3d 1027 (D.C. Cir. 1999) that EPA "is precluded from enforcing a revised primary ozone NAAQS other than in accordance with the classifications, attainment dates, and control measures set out in Subpart 2." This means that EPA cannot ignore the attainment dates in Subpart 2.

Response 7: The opinion cited concerns EPA's authority to implement a revised 0.08 ppm 8-hour standard not the standard at issue here—the one-hour 0.12 ppm NAAQS. Regarding EPA's belief that the provisions in Subpart 2 of the CAA govern implementation of the one-hour standard, EPA is not ignoring the attainment dates in Subpart 2. EPA is interpreting the provisions of Subpart 2 to allow EPA to extend the attainment deadlines in accordance with Congressional intent and using means set forth in the provisions of Subpart 2. Thus EPA is properly implementing the one-hour standard.

Comment 8: Each serious area plan on its face shows that the control measures described therein will not by themselves produce attainment at any point, and clearly not by 1999. EPA cannot grant credit for SIP call reductions when the SIP call has been judicially stayed.

Response 8: As EPA has explained elsewhere in its responses, Congress did not intend for a downwind area that is affected by transport to be responsible for pollution generated outside its borders. The stay of the SIP call has been vacated and the SIP call has been upheld. The court lifted its stay and states are required to submit SIPs fully addressing the SIP call and if they fail, EPA must promulgate a Federal plan.

EPA is fully justified in its reliance on SIP call reductions and in granting credit for them in the areas' attainment demonstrations.

Comment 9: The SIPs fail to provide for attainment as expeditiously as practicable even though this is a serious area where a specific attainment deadline has passed. Furthermore, the States have not even evaluated the possibility of attaining sooner than their extended attainment dates. The SIPs must be disapproved by EPA since they do not meet the CAA's basic requirements for timely attainment nor do they consider the possibility of providing for earlier attainment even if the attainment date extension were permissible.

Response 9: Massachusetts has shown that they qualify for an attainment date extension due to transport, and that its SIP provides for attainment as expeditiously as practicable. EPA evaluated the reductions required for attainment from both the upwind and downwind areas, and determined that the Springfield area attainment date is as expeditious as practicable. As explained in the December 16, 1999 proposed approval of the Springfield area attainment demonstration, Massachusetts submitted modeling evidence showing that transported air pollution is causing the Springfield area to be nonattainment and that the transport is from upwind areas outside of New England. 63 Fed. Reg. at 70328. The modeling further showed that lowering transported ozone is extremely important in bringing the Springfield area into attainment of the ozone standard. The modeling showed that it will attain the one-hour standard no later than the date that the reductions are expected from upwind areas under the final NO<sub>X</sub> SIP call. Upwind reductions will be provided under the section 126 rule, and under SIPs submitted to comply with the NO<sub>X</sub> SIP call rule by a number of states, 2 by 2003. Thus, an attainment date of December 31, 2003 for the Springfield area is as expeditious as practicable.

Comment 10: This is not a situation where the states have adopted all available measures and still show nonattainment due solely to transport. The states have refused to even identify the levels of VOC and  $NO_X$  emissions that would be consistent with attainment in the absence of  $NO_X$  reductions that would be required by the  $NO_X$  SIP call. Nor do the plans state

the level of emission reductions that would be needed to produce attainment in the absence of upwind reductions. EPA cannot rationally find that transported  $NO_X$  renders attainment impracticable in the serious areas, when the states have neither quantified the reductions needed locally to attain in the absence of transport reductions, nor shown that such reductions are unachievable through adoption of additional state and local control measures.

Response 10: EPA in its Responses has provided an extensive analysis of the role of transport in downwind nonattainment for the serious areas. In the NO<sub>X</sub> SIP call, EPA concluded that "EPA believes that available modeling analyses demonstrate that upwind reductions are necessary to help downwind areas come into attainment." 63 FR 57404 (October 27, 1998). These downwind areas included the areas being granted attainment date extensions here. The D.C. Circuit upheld EPA's conclusion in Michigan v. EPA, 213 F.3d 663 (D.C. Cir. 2000). The SIP call and the modeling done by the states support the conclusion that the affected areas cannot attain without upwind reductions. Congress intended that upwind areas be responsible for pollution that interferes with downwind nonattainment, while at the same time requiring that downwind areas be accountable for locally generated emissions. The Clean Air Act reflects Congressional intent that downwind areas not be compelled to compensate for lack of upwind controls through the adoption of additional state and local control measures, as commenter suggests. EPA disagrees with commenter's suggestion that the downwind areas must show that no further local reductions are achievable before relying on upwind areas to shoulder responsibility for the pollution they generate. EPA finds that a reading of the Clean Air Act shows that Congress did not intend for downwind areas to be forced to impose additional local controls to offset significant pollution contributions from upwind areas, before seeking relief.

Comment 11: The Plan fails to demonstrate emission reductions of 3 percent per year over each three year period after 1999 until attainment. Assuming a 2005 attainment date, the plan must provide for a nine percent reduction in VOC and/or  $NO_X$  remissions by 2002 and another 9 percent between 2002 and 2005. The states have not attempted to demonstrate compliance with these requirements, and EPA has not proposed to find that they have been

met. EPA has no authority to waive the statutory mandate for three per cent annual reductions. Emission reductions in upwind states do not waive the statutory requirement for 3 percent annual emission reductions within the downwind nonattainment area.

Response 11: EPA's guidance did not interpret the period of time after granting the attainment date extension based on transport as requiring additional rate of progress increments from the downwind area, since we determined that the reason the area had not attained was due to upwind transport. Therefore it would be unreasonable to lock the downwind area into fixed progress requirement reductions from local sources, when the combination of local reductions with upwind area source emission reductions is what will bring the area into attainment. In any event, to the extent that it should be determined otherwise, and that any ROP required should be imposed on the downwind area, this requirement would not attach until EPA grants the attainment date extension and provides the area with a later attainment date. Since the requirement was not previously due, fulfilling the requirement, if any is deemed to exist, is not a condition of receiving the attainment date extension.

Comment 12: EPA has no legal authority to extend the one-hour attainment date. Such extension is unlawful and unwise. Under the explicit provisions of Section 181(a)(1) of the CAA, the states are required to attain the one-hour ozone standard as expeditiously as practicable, but no later than November 15, 1999. EPA cannot create exemptions from this requirement.

Response 12: EPA has responded extensively to issues pertaining to the legality of the attainment date extension in its March 1999 responses, above.

B. Attainment Demonstrations—Weight of Evidence

Comment 1: The weight of evidence approach does not demonstrate attainment or meet CAA requirements for a modeled attainment demonstration. Commenters added several criticisms of various technical aspects of the weight of evidence approach, including certain specific applications of the approach to particular attainment demonstrations. These comments are discussed in the following response.

Response 1: Under section 182(c)(2) and (d) of the CAA, serious and severe ozone nonattainment areas were required to submit by November 15, 1994, demonstrations of how they

 $<sup>^2</sup>$  The states of DE, PA, CT, MA, RI, MD, NY, NJ have submitted NO $_{\rm X}$  SIP call plans providing for reductions by 2003. EPA has fully approved three of these plans (CT, MA, RI).

would attain the 1-hour standard. Section 182(c)(2)(A) provides that "[t]his attainment demonstration must be based on photochemical grid modeling or any other analytical method determined by the Administrator, in the Administrator's discretion, to be at least as effective." As described in more detail below, the EPA allows states to supplement their photochemical modeling results, with additional evidence designed to account for uncertainties in the photochemical modeling, to demonstrate attainment. This approach is consistent with the requirement of section 182(c)(2)(A) that the attainment demonstration "be based on photochemical grid modeling, because the modeling results constitute the principal component of EPA's analysis, with supplemental information designed to account for uncertainties in the model. This interpretation and application of the photochemical modeling requirement of section 182(c)(2)(A) finds further justification in the broad deference Congress granted EPA to develop appropriate methods for determining attainment, as indicated in the last phrase of section 182(c)(2)(A).

The flexibility granted to EPA under section 182(c)(2)(A) is reflected in the regulations EPA promulgated for modeled attainment demonstrations. These regulations provide, "The adequacy of a control strategy shall be demonstrated by means of applicable air quality models, data bases, and other requirements specified in [40 CFR part 51 Appendix W] (Guideline on Air Quality Models)." <sup>3</sup> 40 CFR 51.112(a)(1). However, the regulations further provide, "Where an air quality model specified in appendix  $\overline{W}$ ... is inappropriate, the model may be modified or another model substituted [with approval by EPA, and after] notice and opportunity for public comment. . . ." Appendix W, in turn, provides that, "The Urban Airshed Model (UAM) is recommended for photochemical or reactive pollutant modeling applications involving entire urban areas," but further refers to EPA's modeling guidance for data requirements and procedures for operating the model. 40 CFR 51 App. W section 6.2.1.a. The modeling guidance discusses the data requirements and operating procedures, as well as interpretation of model results as they relate to the attainment demonstration. This provision references guidance published in 1991,

but EPA envisioned the guidance would change as we gained experience with model applications, which is why the guidance is referenced, but does not appear, in Appendix W. With updates in 1996 and 1999, the evolution of EPA's guidance has led us to use both the photochemical grid model, and additional analytical methods approved by EPA.

The modeled attainment test compares model predicted 1-hour daily maximum ozone concentrations in all grid cells for the attainment year to the level of the NAAQS. The results may be interpreted through either of two modeled attainment or exceedance tests: a deterministic test or a statistical test. Under the deterministic test, a predicted concentration above 0.124 parts per million (ppm) ozone indicates that the area is expected to exceed the standard in the attainment year and a prediction at or below 0.124 ppm indicates that the area is expected to not exceed the standard. Under the statistical test, attainment is demonstrated when all predicted (i.e., modeled) 1-hour ozone concentrations inside the modeling domain are at, or below, an acceptable upper limit above the NAAQS permitted under certain conditions (depending on the severity of the episode modeled).4

In 1996, EPA issued guidance 5 to update the 1991 guidance referenced in 40 CFR 50 App. W, to make the modeled attainment test more closely reflect the form of the NAAQS (i.e., the statistical test described above), to consider the area's ozone design value and the meteorological conditions accompanying observed exceedances, and to allow consideration of other evidence to address uncertainties in the modeling databases and application. When the modeling does not conclusively demonstrate attainment, EPA has concluded that additional analyses may be presented to help determine whether the area will attain the standard. As with other predictive tools, there are inherent uncertainties associated with air quality modeling and its results. The inherent imprecision of the model means that it may be inappropriate to view the specific numerical result of the model as the only determinant of whether the SIP controls are likely to lead to attainment. The EPA's guidance recognizes these limitations, and provides a means for considering other evidence to help assess whether attainment of the NAAQS is likely to be achieved. The

process by which this is done is called a weight of evidence (WOE) determination. Under a WOE determination, the state can rely on, and EPA will consider in addition to the results of the modeled attainment test, other factors such as other modeled output (e.g., changes in the predicted frequency and pervasiveness of 1-hour ozone NAAQS exceedances, and predicted change in the ozone design value); actual observed air quality trends (i.e. analyses of monitored air quality data); estimated emissions trends; and the responsiveness of the model predictions to further controls.

In 1999, EPA issued additional guidance 6 that makes further use of model results for base case and future emission estimates to predict a future design value. This guidance describes the use of an additional component of the WOE determination, which requires, under certain circumstances, additional emission reductions that are or will be approved into the SIP, but that were not included in the modeling analysis, that will further reduce the modeled design value. An area is considered to monitor attainment if each monitor site has air quality observed ozone design values (4th highest daily maximum ozone using the three most recent consecutive years of data) at or below the level of the standard. Therefore, it is appropriate for EPA, when making a determination that a control strategy will provide for attainment, to determine whether or not the model predicted future design value is expected to be at or below the level of the standard. Since the form of the 1hour NAAQS allows exceedances, it did not seem appropriate for EPA to require the test for attainment to be "no exceedances" in the future model predictions. The method outlined in EPA's 1999 guidance uses the highest measured design value from all sites in the nonattainment area for each of three years.7 The three year "design value"

<sup>&</sup>lt;sup>3</sup> The August 12, 1996 version of "Appendix W to Part 51—Guideline on Air Quality Models" was the rule in effect for these attainment demonstrations. EPA is proposing updates to this rule which will not be in effect until the new rule is promulgated.

<sup>&</sup>lt;sup>4</sup> Guidance on the Use Of Modeled Results to Demonstrate Attainment of the Ozone NAAQS. EPA-454/B-95-007, June 1996.

<sup>5</sup> Ibid.

<sup>6 &</sup>quot;Guidance for Improving Weight of Evidence Through Identification of Additional Emission Reductions, Not Modeled." U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Emissions, Monitoring, and Analysis Division, Air Quality Modeling Group, Research Triangle Park, NC 27711. November 1999. Web site: http://www.epa.gov/ttn/scram.

<sup>&</sup>lt;sup>7</sup>A commenter criticized the 1999 guidance as flawed on grounds that it allows the averaging of the three highest air quality sites across a region, whereas EPA's 1991 and 1996 modeling guidance requires that attainment be demonstrated at each site. This has the effect of allowing lower air quality concentrations to be averaged against higher concentrations thus reducing the total emission reduction needed to attain at the higher site. The commenter's concern is misplaced. EPA relies on this averaging only for purposes of determining one component, the amount of additional emission reductions not modeled, of the WOE determination. The WOE determination, in turn, is intended to be

represents the air quality observed during the time period used to predict ozone for the base emissions. This is appropriate because the model is predicting the change in ozone from the base period to the future attainment date. The three yearly design values (highest across the area) are averaged to account for annual fluctuations in meteorology. The result is an estimate of an area's base year design value. The base year design value is multiplied by a ratio of the peak model predicted ozone concentrations in the attainment year (i.e., average of daily maximum concentrations from all days modeled) to the peak model predicted ozone concentrations in the base year (i.e., average of daily maximum concentrations from all days modeled). The result is an attainment year design value based on the relative change in peak model predicted ozone concentrations from the base year to the attainment year. Modeling results also show that emission control strategies designed to reduce areas of peak ozone concentrations generally result in similar ozone reductions in all core areas of the modeling domain, thereby providing some assurance of attainment at all monitors.

In the event that the attainment year design value is above the standard, the 1999 guidance provides a method for identifying additional emission reductions, not modeled, which at a minimum provide an estimated attainment year design value at the level of the standard. This step uses a locally derived factor which assumes a linear relationship between ozone and the precursors. Although a commenter criticized this technique for estimating ambient improvement because it does not incorporate complete modeling of the additional emissions reductions, the regulations do not mandate or nor does EPA guidance suggest that States must model all control measures being implemented. Moreover, a component of this technique-the estimation of future design value, should be considered a model predicted estimate. Therefore, results from this technique are an extension of "photochemical grid" modeling and are consistent with Section 182(c)(2)(A). Also, a commenter believes EPA has not provided sufficient opportunity to evaluate the calculations used to estimate additional emission reductions. EPA provided a full 60-day period for comment on all aspects of the proposed rule. EPA has received several

a qualitative assessment of whether additional factors (including the additional emissions reductions not modeled), taken as a whole, indicate that the area is more likely than not to attain.

comments on the technical aspects of the approach and the results of its application, as discussed above and in the responses to the individual SIP's.

A commenter states that, application of the method of attainment analysis in the December 16, 1999 guidance will yield a lower control estimate than if we relied entirely on reducing maximum predictions in every grid cell to less than or equal to 124 ppb on every modeled day. However, this approach may overestimate needed controls (e.g., the form of the standard allows up to 3 exceedances in 3 years in every grid cell; and if the model over predicts observed concentrations, predicted controls may also be overestimated, etc.). In recognition of this EPA has considered other evidence to make these determinations, as described above through the weight of evidence determination.

When reviewing a SIP, the EPA must make a reasonable determination that the control measures adopted more likely than not will lead to attainment. Under the WOE determination, EPA has made these determinations based on all of the information presented by the States and available to EPA. The information considered includes model results for the majority of the control measures. Though all measures were not modeled, EPA reviewed the model's response to changes in emissions as well as observed air quality changes to evaluate the impact of a few additional measures, not modeled. EPA's decision was further strengthened by each State's commitment to check progress towards attainment in 2003 and to adopt additional measures, if the anticipated progress is not being made.

A commenter further criticized EPA's technique for estimating the ambient impact of additional emissions reductions not modeled on grounds that EPA employed a rollback modeling technique that, according to the commenter, is precluded under EPA regulations. The commenter explained that 40 CFR 51 App. W section 6.2.1.e. provides, "Proportional (rollback/ forward) modeling is not an acceptable procedure for evaluating ozone control strategies." Section 14.0 of appendix W defines "rollback" as "a simple model that assumes that if emissions from each source affecting a given receptor are decreased by the same percentage, ambient air quality concentrations decrease proportionately." Under this approach if 20% improvement in ozone is needed for the area to reach attainment, it is assumed a 20% reduction in VOC would be required. There was no approach for identifying NO<sub>X</sub> reductions. The "proportional

rollback" approach is a purely empirically/mathematically derived relationship, and is not what EPA did. The prohibition in Appendix W applies to the use of a rollback method which is empirically/mathematically derived and independent of model estimates or observed air quality and emissions changes as the sole method for evaluating control strategies. For the demonstrations under proposal, EPA used a locally derived (as determined by the model and/or observed changes in air quality) ratio of change in emissions to change in ozone to estimate additional emission reductions to achieve an additional increment of ambient improvement in ozone. This did assume a linear relationship between the precursors and ozone for a small amount of ozone improvement. EPA has generally relied on photochemical modeling to evaluate the attainment demonstrations and their control strategies, and has used locally derived adjustment factors as a component to estimate the extent to which additional emissions reductions—not the core control strategies—would reduce ozone levels and thereby strengthen the weight of evidence test. This limited use of adjustment factors is more technically sound than the unacceptable use of proportional rollback. The limited use of adjustment factors is more practical in light of the uncertainty in the modeling, the resources and time required to perform additional modeling, and the requirement that areas perform a progress check by the end of 2003.

Contrary to concerns expressed by a commenter, EPA did not err by modifying the modeling requirements without first proposing to do so. Section 3.0 of appendix W states, "It should not be construed that the preferred models identified here are the only models available for relating emissions to air quality." Section 3.2.2 of Appendix W further provides that the "determination of acceptability of a model is a Regional Office responsibility. Where the Regional Administrator finds that an alternative model is more appropriate than a preferred model, that model may be used subject to the recommendations in appendix W. This finding will normally result from a determination that (1) a preferred air quality model is not appropriate for the particular application; or (2) a more appropriate model or analytical procedure is available and is applicable." Therefore, EPA does have the discretion to identify a more appropriate analytical procedure without undergoing rulemaking on

updates to Appendix W. Also, as discussed above, by reference to the modeling guidance, Appendix W was designed to allow changes in the predictive tools and data bases without undergoing additional rulemaking. In any event, the EPA is taking comment during the SIP rulemaking process on the application of its guidance.

A commenter also expressed concern than EPA applied unacceptably broad discretion in fashioning and applying the WOE determinations. EPA disagrees. The WOE determinations are made on a case-by-case basis. EPA has approved attainment demonstrations based on WOE determinations, generally with a requirement for additional reductions not modeled, only when the photochemical modeling provides a basis for believing that the SIP controls will achieve substantial ozone reductions, if not attainment levels. The fact that the WOE factors are incremental and differ between demonstrations, leads EPA to conclude these determinations may be made on a case-by-case basis, without hard-andfast guidelines. Moreover, EPA believes that the WOE approach is bounded by the strength of the various factors that may be applied. The commenter added, as an example, EPA's application of the WOE approach to the Washington, D.C. attainment demonstration where modeling showing an ozone level (as adjusted) of 142 ppb was compared to the acceptable upper limit of 137 ppb. The commenter observed that EPA adjusted the modeled prediction on average by a factor of 19% to account for model over prediction, and stated that such an adjustment was not appropriate. In EPA's view, the 19% over prediction that underlies the 142 ppb level is only a rough approximation of the extent of modeling uncertainty. In EPA's view, consideration of model performance (specifically, a bias to under- or overpredict ozone levels) is one way to assess modeling uncertainty. To further address uncertainty, EPA applied the 1999 guidance to estimate the future design, in the same manner as applied to all of the other attainment demonstrations received. Both the assessment of model performance and the estimated future design value were used in the WOE determination.8

The commenter also complained that EPA has applied the WOE determinations to adjust modeling results only when those results indicate nonattainment, and not when they indicate attainment. WOE is not used to adjust model results. WOE is additional analysis that is reviewed when there is reason to question the attainment demonstration. For the current demonstrations under proposal, EPA's decision to approve the demonstrations relied not only on the modeling, but other WOE, as well. For example, EPA considered current air quality, model performance (over-as well as underprediction), number of episode days, model predicted future design values, and results from the regional modeling for the NO<sub>X</sub> SIP call, where applicable. For a given attainment demonstration any one of these elements could have indicated the area may not attain. But collectively the information supported EPA's decision. EPA has applied WOE determinations to all of the current demonstrations under proposal, although except for the Chicago and Milwaukee attainment demonstrations, the modeling results submitted do not pass the recommended "modeled attainment test." Reference the individual proposals for how WOE was applied in each case. These determinations were made based on EPA's best understanding of the problem and relied on a qualitative assessment as well as quantitative assessments of the available information. In some cases, EPA believed the demonstration of attainment was not conclusive, and in these cases EPA made the determination that additional emission reductions were needed to strengthen the demonstration.

The commenter further criticized EPA's application of the WOE determination on grounds that EPA

For the Washington, D.C. area, EPA explained how performance was more closely reviewed and used as part of the WOE. The technique is described in "Technical Support Document for the One-Hour Ozone Attainment Demonstrations submitted by the State of Maryland, Commonwealth of Virginia and the District of Columbia for the Metropolitan Washington, D.C. Ozone Nonattainment Area," November 30, 1999. The modeled peak ozone results generally correlated (in geographic proximity) with the monitored peak ozone emissions (and the modeled plume generally correlated (in geographic proximity) with the observed ozone plume), except that the peak modeled ozone levels averaged approximately 19-20% higher than the peak monitored levels. Modeling uncertainties (including, for example, the non-linearity of the modeling) lead EPA to conclude that adjusting each modeled peak by the 19% average over-prediction was at least as sensible as adjusting each modeled peak by an amount that corresponds to that modeled peak's relationship to the monitored ozone value in the same vicinity.

ignores evidence indicating that continued nonattainment is likely, such as, according to the commenter, monitoring data indicate that ozone levels in many cities during 1999 continue to exceed the NAAOS by margins as wide or wider than those predicted by the UAM model. EPA did consider the monitoring data along with other information in these determinations. When reviewing the monitoring data, EPA considered other factors. For example, high monitoring values may have occurred for many reasons including, fluctuations due to changes in meteorology and lack of emission reductions. The 1999 monitor values do not reflect several control programs, both local and the regional which are scheduled for implementation in the next several years. And the 1999 meteorology in the Northeast was such that July 1999 was one of the warmest (ranked 9th) ever experienced since 1895. 9 In addition to the heat, the middle and southern portions of the Northeast were also drier than average during this month. This information supports EPA's belief that the high exceedances observed in 1999 are not likely to reoccur frequent enough to cause a violation, once the controls adopted in these SIP's are implemented. There is little evidence to support the statement that ozone levels in many cities during 1999 continue to exceed the NAAQS by margins as wide or wider than those predicted by the UAM. Since areas did not model 1999 ozone levels using 1999 meteorology and 1999 emissions which reflect reductions anticipated by control measures, that are or will be approved into the SIP, there is no way to determine how the UAM predictions for 1999 compare to the 1999 air quality. Therefore, we can not determine whether or not the monitor values exceed the NAAQS by a wider margin than the UAM predictions for 1999. In summary, there is little evidence to support the conclusion that high exceedances in 1999 will continue to occur after adopted control measures are implemented.

In addition, the commenter argued that in applying the WOE determinations, EPA ignored factors showing that the SIPs under-predict future emissions, and the commenter included as examples certain mobile source emissions sub-inventories. EPA did not ignore possible under-prediction in mobile emissions. EPA is presently

<sup>&</sup>lt;sup>8</sup> Observing that for the attainment demonstration for the Washington, D.C. area, EPA reduced modeled ozone values by 19% to account for model overprediction, a commenter criticized this technique as lacking technical justification. EPA guidance recommends assessment of model performance (both over- and under-prediction) as one of the factors affecting the model results. In general performance measures that fall within EPA recommended ranges are considered as an indication that the model is performing acceptably.

<sup>&</sup>lt;sup>9</sup> http://www.ncdc.noaa.gov/ol/climate/research/ 1999/perspectives.html and "Regional Haze and Visibility in the Northeast U.S.," NESCAUM at http://www.nescaum.org/pdf/pubslist.pdf

evaluating mobile source emissions data as part of an effort to update the computer model for estimating mobile source emissions. EPA is considering various changes to the model, and is not prepared to conclude at this time that the net effect of all these various changes would be to increase or decrease emissions estimates. For attainment demonstration SIPs that rely on the Tier 2/Sulfur program for attainment or otherwise (i.e., reflect these programs in their motor vehicle emissions budgets), States have committed to revise their motor vehicle emissions budgets after the MOBILE6 model is released. EPA will work with States on a case-by-case basis if the new emission estimates raise issues about the sufficiency of the attainment demonstration. Corrections, if needed, will be made in time for the progress check in 2003 and if the analysis indicates additional measures are needed, EPA will take the appropriate action.

Comment 2: Commenters state that even with the upwind  $\mathrm{NO_X}$  reductions anticipated by EPA's  $\mathrm{NO_X}$  SIP Call Rule, neither photochemical grid modeling conducted by MA and other New England states, nor the so-called "weight -of-evidence" approach demonstrates that MA will achieve attainment by 1999, by 2003 or by any other date.

Response 2: The Springfield, Massachusetts 1-hour ozone attainment demonstration is based on photochemical grid modeling and weight of evidence analyses as recommended in the guidance.10 Comments on the use of this approach and its consistency with Section 182(c)(2)(A) of the CAA are discussed in response 1 above of section VII.B. This guidance allows the use of a WOE analysis to support a modeled control strategy that does not predict concentrations that are at or below the 1-hour ozone NAAQS compliance level of 124 ppb.

Using estimated emissions for 1999 the model predicts a maximum 1-hour concentration of 168 ppb. However, based on 1997–1999 observations the area's design value is 128 ppb. It thus appears that the area's air quality is improving at a faster rate than what the model predicts. Or the differences

between model predictions and observations may be due to model inputs such as emission estimates and/ or meteorology assumptions. This example highlights why use of a single model prediction as the determining factor may not be appropriate. To further address this issue, EPA used the model predictions before and after controls to estimate the expected change in ozone and predict a future design value, as described in the guidance, "Guidance for Improving Weight of Evidence Through Identification of Additional Emission Reductions, Not Modeled." The predicted future design value from this analysis indicates the area will attain through implementation of the control measures modeled.

There are five ozone air quality monitors in the Springfield, Massachusetts nonattainment area. They are in the towns of Chicopee, Agawam, Ware, Adams and Amherst. The monitor in Adams is in a remote mountaintop location and has only recorded two exceedances of the 1-hour ozone standard since 1989 and is clearly in attainment with the ozone standard and therefore is not an issue vis-a-vis attainment/nonattainment. The other four monitors were all recording violations of the 1-hour ozone standard when the area was classified as serious in 1991 (based on ozone data from (1987 to 1989). Since the original classification, all of these sites have shown a substantial decrease in ozone due to emission reductions, both within Massachusetts and also upwind from Massachusetts. The Ware site with a 1999 design value of 128 ppb, is the only site in western Massachusetts that recorded violations of the ozone standard based on 1997-1999 data. A linear fit of those two design values (167 ppb in 1989 and 128 ppb in 1999) shows a drop of over 3 ppb per year of ozone. This observed rate of improvement in air quality per reduction in emissions is consistent with the analyses of the modeling results for the NO<sub>X</sub> SIP call and the local control measures and supports the expectation that a 4 ppb improvement in ozone will occur by 2003, and very likely sooner.

It must be noted that the year-to-year decline in ozone levels is rarely linear and year-to-year variations do occur, but, since these four ozone sites all show a substantial downward trend in one-hour ozone concentrations, and precursor emissions are projected to keep falling, both within the nonattainment area and upwind from it, there is no reason to believe that this downward trend will not continue. The emission reductions will be a result of

the following: the mobile fleet (i.e. cars) turnover, reductions from large point sources due to the OTC NO<sub>X</sub> Memorandum of Understanding (MOU) and additional reductions from the NO<sub>X</sub> SIP call. In addition, Phase II reformulated gasoline, and ultimately Tier 2 automobile standards and low sulphur gasoline, along with other federal control measures (i.e. controls on non-road engines) should maintain the downward trend in both emissions and ambient concentrations. Also, Massachusetts started an enhanced I/M program in Oct. 1999 which will yield additional emission reductions.

When reviewing a SIP, the EPA must make a reasonable determination that the control measures adopted more likely than not will lead to attainment. Under the WOE determination, EPA has made this determination based on all of the information presented by the State and available to EPA. This includes model results for the local control measures and the regional NO<sub>X</sub> SIP call along with additional analyses of air quality data and estimates of future design values. Therefore, EPA believes that western Massachusetts will attain the standard, as expeditiously as practicable, through implementation of adopted local controls and regional NO<sub>X</sub> reductions.

# C. Reliance on $NO_X$ SIP Call and Tier II Modeling

Comment: Given the uncertainty surrounding the  $NO_X$  SIP Call at the time of EPA's proposals on the attainment demonstrations, there is no basis for the conclusion reached by EPA that states should assume implementation of the  $NO_X$  SIP Call, or rely on it as a part of their demonstrations. The commenter references modeling data which demonstrates that the benefits of imposing  $NO_X$  SIP Call controls are limited to areas near the sources controlled.

The commenter adds that there are errors in the emissions used for the  $\mathrm{NO}_{\mathrm{X}}$  SIP Call Supplemental Notice (SNPR). The commenter believes that because of inaccurate inventories the modeling analyses, estimates of air quality based on that modeling, and estimates of EPA's Tier II tailpipe emissions reduction program not modeled in the demonstrations, are also flawed.

Response: In Michigan v. EPA, 213 F.3d 663 (D.C. Cir. 2000), the court upheld the  $NO_X$  SIP Call on most issues, although a subsequent order of the court delays the implementation date to no later than May 31, 2004. EPA is moving forward to implement those portions of the rule that have been upheld, ensuring

<sup>10 &</sup>quot;Guideline for Regulatory Application of the Urban Airshed Model", EPA-450/4-91-013, July 1991; "Guidance on the Use Of Modeled Results to Demonstrate Attainment of the ozone NAAQS," EPA-454/B-95-007, June 1996; and "Guidance for Improving Weight of Evidence Through Identification of Additional Emission Reductions, Not Modeled," EPA, November 1999, Web site: http://www.epa.gov/ttn/scram.

that most—if not all—of the emission reductions from the  $NO_X$  SIP call assumed by the States in their 1-hour ozone NAAQS attainment demonstrations will occur. EPA's modeling to determine the region-wide impacts of the  $NO_X$  SIP call clearly shows that regional transport of ozone and its precursors is impacting nonattainment areas several states away, and this analysis was upheld by the court. Therefore, it is appropriate for States to assume implementation of the  $NO_X$  SIP Call.

The EPA considered many factors when making these determinations. No single piece of information was determinant. It is important to recognize that the regional modeling for the Tier II rule was not used in the 1-hour attainment demonstrations and that the SNPR modeling was only one of several factors considered. EPA's decision was based on a qualitative assessment of the information presented. Information reviewed included results of the modeled attainment test, along with other supplemental information such as other modeled outputs (e.g., changes in the predicted frequency and pervasiveness of 1-hour ozone NAAQS exceedances and predicted changes in the ozone design value); actual observed air quality trends (i.e. analyses of monitored air quality data); estimated emissions trends; base year model performance; SNPR derived future design values; the responsiveness of the model predictions to further controls; and for some of the demonstrations estimates of additional emission reductions. EPA recognizes that any and all of this information has some degree of uncertainty, including the SNPR modeling. EPA recognizes that these uncertainties should be considered when making these determinations and that is why EPA considered other factors. EPA's weight of evidence determinations are not affected by error in any one piece of the information.

#### D. Impact of the NO<sub>X</sub> SIP Call on Attainment of the 1-Hour NAAQS

Comment: One commenter states that Massachusetts's  $NO_X$  emissions interfere with attainment in downwind areas of New Hampshire and Maine and that Connecticut's  $NO_X$  emissions interfere with attainment in downwind areas of Massachusetts, New Hampshire and Maine. Therefore, the commenter states that significant additional  $NO_X$  reductions are needed for these areas to attain the 1-hour ozone NAAQS. The commenter also remarked that neither Massachusetts nor Connecticut has committed to adequate emission control strategies.

Response: In the final rule for the NO<sub>x</sub> SIP Call (63 FR 57394, October 27, 1998), EPA indicated that Massachusetts contains sources that contribute significantly to 1-hour nonattainment in Maine and New Hampshire, and that Connecticut contains sources that contribute significantly to 1-hour nonattainment in Massachusetts, Maine and New Hampshire. The NO<sub>X</sub> SIP Call rule specified the emissions that Connecticut and Massachusetts were required to regulate to address their significant contribution to nonattainment in these downwind States. Massachusetts submitted a rule meeting the NO<sub>X</sub> SIP call on November 19, 1999, and EPA proposed approval of this rule on July 12, 2000 (65 FR 42907). Similarly, Connecticut submitted a rule in response to the NO<sub>X</sub> SIP call on October 1, 1999, and EPA proposed approval on July 12, 2000 (65 FR 42900). On October 20, 2000, the Regional Administrator signed notices fully approving these rules. As of December 21, 2000, this approval was awaiting publication. These rules have addressed Massachusetts's and Connecticut's contribution to ozone nonattainment in downwind areas. In addition, recent air quality monitoring data for 1998-2000, which have been quality assured, indicate that the Portland, ME, and Portsmouth-Dover-Rochester, NH, ozone nonattainment areas no longer violate the 1-hour ozone NAAOS.

# E. RACM (Including Transportation Control Measures)

#### 1. Comments on December 16, 1999 Proposal

Comment: Several commenters have stated that there is no evidence in several states that they have adopted reasonably available control measures (RACM) or that the SIPs have provided for attainment as expeditiously as practicable. Specifically, the lack of Transportation Control Measures (TCMs) was cited in several comments, but potential stationary source controls were also covered. One commenter stated that mobile source emission budgets in the plans are by definition inadequate because the SIPs do not demonstrate timely attainment or contain the emissions reductions required for all RACM. That commenter claims that EPA may not find adequate a motor vehicle emission budget (MVEB) that is derived from a SIP that is inadequate for the purpose for which it is submitted. The commenter alleges that none of the MVEBs submitted by the states that EPA is considering for adequacy is consistent with either the

level of emissions achieved by implementation of all RACM; nor are they derived from SIPs that provide for attainment. Some commenters stated that for measures that are not adopted into the SIP, the State must provide a justification for why they were determined to not be RACM.

Response: The EPA reviewed the SIP submittals for the four serious areas (Greater Connecticut, Western Massachusetts (Springfield); Washington, D.C.-Virginia-Maryland; and Atlanta, Georgia 11) and determined that they did not include sufficient documentation concerning available RACM measures. Therefore, EPA reviewed numerous potential RACM measures. As part of this review, EPA developed an analysis, which has been placed in the dockets for the SIPs for the serious areas to help address this issue: "RACM Analysis for Four Serious Areas Designated Nonattainment for 1-hr Ozone NAAQS." U.S. Environmental Protection Agency; Office of Air Quality Planning and Standards, Research Triangle Park, NC 27711; and Office of Transportation and Air Quality, Ann Arbor, MI 48105. October 12, 2000. An electronic version of EPA's RACM analysis cited above can be downloaded at www.epa.gov/ttn/rto under "What's New." The EPA published a notice of availability of this material on October 16, 2000 (65 FR 61134) and provided initially a 15 day public comment period on the material. The EPA extended the public comment period on this supplemental material for an additional 15 days in a notice published November 2, 2000 (65 FR 65818) and corrected on November 9, 2000 (65 FR 67319).

Section 172(c)(1) of the CAA requires SIPs to contain RACM and provides for areas to attain as expeditiously as practicable. EPA has previously provided guidance interpreting the requirements of 172(c)(1). See 57 FR 13498, 13560. In that guidance, EPA indicated its interpretation that potentially available measures that would not advance the attainment date for an area would not be considered RACM. EPA also indicated in that guidance that states should consider all potentially available measures to determine whether they were reasonably available for implementation in the area, and whether they would advance the attainment date. Further, states should indicate in their SIP submittals whether measures

<sup>&</sup>lt;sup>11</sup> This response to comment document will not address Atlanta; that will be addressed in the future when EPA takes final rulemaking action on the Atlanta SIP.

considered were reasonably available or not, and if measures are reasonably available they must be adopted as RACM. Finally, EPA indicated that states could reject measures as not being RACM because they would not advance the attainment date, would cause substantial widespread and long-term adverse impacts, or would be economically or technologically infeasible. The EPA also issued a recent memorandum re-confirming the principles in the earlier guidance, entitled, "Guidance on the Reasonably Available Control Measures (RACM) Requirement and Attainment Demonstration Submissions for Ozone Nonattainment Areas." John S. Seitz, Director, Office of Air Quality Planning and Standards. November 30, 1999. Web site: http://www.epa.gov/ttn/oarpg/ t1pgm.html.

The EPA's RACM analysis cited above evaluated emission levels of oxides of nitrogen and volatile organic compounds and their relationship to the application of current and anticipated control measures expected to be implemented in four serious one-hour ozone nonattainment areas. This analysis was done to determine if additional RACM are available after adoption of Clean Air Act required measures for the four serious ozone nonattainment areas. The analysis supplemented the December 16, 1999 proposals to approve the 1-hour O3 NAAQS attainment demonstrations in these areas.

Based on this analysis and other information discussed below, EPA concluded that additional emission control measures would not advance the attainment date and therefore do not constitute RACM in three nonattainment areas: Greater Connecticut; Springfield, Massachusetts; and Metropolitan Washington. The EPA therefore concludes that the SIPs for these areas meet the requirement for adopting RACM.

In addition to control measures already implemented locally, each of the three areas relies in large part on reductions from outside the nonattainment areas from EPA's NO<sub>X</sub> SIP call rule or section 126 rule (65 FR 2674, January 18, 2000) to reach attainment. In the NO<sub>X</sub> SIP call, 63 FR 57356, EPA concluded that reductions from various upwind states were necessary to provide for timely attainment in nonattainment areas in various downwind states, including all four of the nonattainment areas that were the subject of this analysis. The NO<sub>x</sub> SIP call therefore established requirements for control of sources of

significant emissions in all upwind states. However, these reductions were not slated for full implementation until May 2003. Further, the United States Court of Appeals for the District of Columbia Circuit recently ordered that EPA could not require SIPs to provide for full implementation of the NO<sub>X</sub> SIP call prior to May 2004. *Michigan, et al.*, v. *EPA*, D.C. Cir. No. 98–1497, Order of Aug. 30, 2000.<sup>12</sup>

The attainment demonstrations for these three serious areas indicate that the ozone benefit expected to be achieved from regional  $NO_X$  reductions (such as the  $NO_X$  SIP call) are substantial. (See the individual attainment demonstrations in the docket for each of these areas.)

EPA had proposed to approve an attainment date extension beyond the original attainment date specified in the Clean Air Act (November 1999) for each of the three serious areas: to 2007 for Greater Connecticut; to 2003 for Western Massachusetts; and to 2005 for Metropolitan Washington. The rationale for such extensions is discussed in detail extensions elsewhere in this response to comments document. See section VII.A. Briefly, however, the extensions are being given mainly due to the fact that these areas will have to rely on emission reductions from upwind areas. Some of those upwind reductions will be provided under the NO<sub>X</sub> SIP call rule with compliance in 2004, and from the section 126 rule, with compliance in 2003.

In Western Massachusetts, some of the measures designed to achieve emissions reductions from within the nonattainment area—in particular, the regional NO<sub>X</sub> reductions—will also not be fully implemented until just prior to each area's respective attainment date. One could argue that the local measures needed for attainment in this area could be implemented earlier and advance attainment. Additional reductions beyond those already provided for in the SIP for this area could potentially be implemented in the interim period prior to the reductions from these upwind controls; however, they would only be needed for an interim period of time, after which the State could actually replace them if the State submits a new attainment demonstration showing they were no longer necessary. The interim implementation of such measures could likely result in cases where sources would have to install controls, and then would be relieved of such

responsibility, which could be disruptive. Thus, EPA believes this situation—where the local controls would only marginally advance attainment—supports a finding that the additional controls would not be considered RACM.

Also, the development of rules for sources in the Springfield, Massachusetts nonattainment area for which little control information may exist—especially a large number of very different source categories of small sources—will likely take much longer than development of rules for source categories for which control information exists or that comprise a smaller number of larger sources. The longer the time frame for development of rules by the State would decrease the possibility that the emission reductions from the rules would advance the attainment date earlier than would be achieved from the larger amount of reductions expected from upwind controls, such as the NO<sub>X</sub> SIP call rule and the section 126 rule.

One could also argue that the measures needed in the upwind area that is affecting the area in question could be implemented earlier and therefore could result in earlier attainment. The EPA recognizes that it has not taken final rulemaking on the severe areas that affect the three serious areas in question (New York for the Greater Connecticut and Springfield, Massachusetts nonattainment areas, and Baltimore for the Metropolitan Washington nonattainment area). However, since EPA must take rulemaking action on the three serious areas at this time, and because it does not have information to the contrary at this point, EPA must presume the attainment dates submitted by the States and for which EPA proposed approval on December 16, 1999, and therefore presume that emission controls for those severe areas will be implemented as expeditiously as practicable on a schedule to achieve those reductions. Because EPA proposed to approve the attainment dates for the severe areas in question, it is reasonable to assume that the severe areas cannot implement their measures to achieve attainment any more expeditiously.

Thus, EPA believes that implementation of additional measures in the Springfield, Massachusetts area will not advance the attainment date, prior to the time of full implementation of the SIP call and/or the section 126 rule.

Therefore, EPA concludes, based on the available documentation, that the reductions from additional control measures will not advance attainment, and thus none of these potential

<sup>&</sup>lt;sup>12</sup> Several States (DE, PA, CT, MA, RI, MD, NY, NJ) have submitted plans providing for reductions by 2003. EPA has fully approved three of these plans (CT, MA, RI).

measures analyzed can be considered RACM for purposes of section 172(c)(1) for western Massachusetts for its 1-hour ozone standard attainment demonstration.

Although EPA does not believe that section 172(c)(1) requires implementation of additional measures for these three serious areas, this conclusion is not necessarily valid for other areas. For 1-hour ozone nonattainment areas classified as severe. for instance, some of which are the "upwind" areas referred to in the above responses for serious areas, such measures may in fact be RACM, and the States in which such areas are located have a responsibility to perform an analysis of whether additional measures are RACM. EPA is about to issue additional guidance concerning the RACM requirement for the severe areas. In addition, if in the future EPA moves forward to implement another ozone standard, this RACM analysis would not control what is RACM for these or any other areas for that other ozone

Also, EPA has long advocated that States consider the kinds of control measures that the commenters have suggested, and EPA has indeed provided guidance on those measures. See, e.g., http://www.epa.gov/otaq/ transp.htm. In order to demonstrate that they will attain the 1-hour ozone NAAQS as expeditiously as practicable, some areas may need to consider and adopt a number of measures—including the kind that EPA itself evaluated in the RACM analysis for the three serious areas—that even collectively do not result in many emission reductions. Furthermore, EPA encourages areas to implement technically available and economically feasible measures to achieve emissions reductions in the short term—even if such measures do not advance the attainment date—since such measures will likely improve air quality. Also, over time, emission control measures that may not be RACM now for an area may ultimately become feasible for the same area due to advances in control technology or more cost-effective implementation techniques. Thus, areas should continue to assess the state of control technology as they make progress toward attainment and consider new control technologies that may in fact result in more expeditious improvement in air quality.

Discussion of other factors related to RACM, such as economic and technological feasibility, are discussed below in responses to comments on EPA's RACM analysis. Elsewhere in this response to comments, EPA addresses the issue of whether the attainment dates are as expeditious as practicable and that discussion is not repeated here.

EPA previously responded to comments concerning the adequacy of MVEBs when EPA took final action determining the budgets adequate and does not address those issues again here. The responses are found at http://www.epa.gov/oms/transp/conform/pastsips.htm.

Comments on the supplemental material were received from several commenters and are addressed below.

Note that the response to the comment related to severe areas will be provided at the time EPA takes final rulemaking action on those areas.

#### 2. Comments on October 16, 2000 Notice of Availability

Comment 1: EPA cannot invent rationales for the states: EPA's role is limited to reviewing what the states have submitted, and approving or disapproving it. 42 U.S.C. 7410(k)(3); Riverside Cement Co. v. Thomas, 843 F.2d 1246 (9th Cir. 1988). EPA "may either accept or reject what the state proposes; but EPA may not take a portion of what the state proposes and amend the proposal ad libitum." Id. If states are going to reject control measures, their decision to do so and the rationale therefore must be subject to notice and hearing at the state and local level

Response 1: The SIP submittals from the States for the Metropolitan Washington, Springfield, Massachusetts, and the Greater Connecticut nonattainment areas contained no measures adopted for the sole purpose of satisfying the RACM requirement. The public did have a chance to comment at the State level on the fact that there were no additional measures. The EPA interpreted this lack of additional measures as an indication that the State did not identify any additional measures as meeting the RACM requirement under section 172(c)(1). The EPA did not amend the SIP; EPA supplemented the rationale and approved the SIP with an explanation of why it was acceptable for the State to identify no additional measures to meet the RACM requirement of the Clean Air Act.

The commenter cites *Riverside*Cement for the proposition that EPA
cannot perform an analysis of whether
the State's plan complies with the
CAA's RACM requirement. The EPA
believes that the holding of that case is
inapplicable to these facts. In *Riverside*Cement, EPA approved a control

requirement establishing an emission limit into the SIP and disregarded a contemporaneously-submitted contingency that would allow the State to modify the emission limit. Thus, the court concluded that EPA "amended" the State proposal by approving into the SIP something different than what the State had intended. 843 F.2d at 1248. In the present circumstances, EPA did not attempt to modify a substantive control requirement of the submitted plan. Rather, EPA performed additional analyses to determine if the plan, as submitted, fulfilled the substantive RACM requirement of the CAA. As a general matter, EPA believes that States should perform their own analyses of RACM (as well as submitting other supporting documents for the choices they make). The statute places primary responsibility on the States to submit plans that meet the CAA's requirements. However, nothing in the CAA precludes EPA from performing those analyses, and the CAA clearly provides that EPA must determine whether the State's submission meets the CAA's requirements. Under that authority, EPA believes that it is appropriate, though not mandated, that EPA perform independent analyses to determine whether a submission meets the requirements of the CAA. The EPA has not attempted to modify the State's submission by either adding or deleting a substantive element of the submitted plan. By virtue of the supplemental RACM analysis, EPA has concluded that the State's initial submission contains control measures sufficient to meet the RACM requirement.

Comment 2 (a): Inappropriate grounds for rejecting RACM. The commenter claims that EPA's bases for rejecting measures as RACM are inappropriate considerations: (a) The measures are "likely to require an intensive and costly effort for numerous small area sources"; or (b) the measures "do not advance the attainment dates" for the four areas. 65 FR at 61134. Neither of these grounds are legally or rationally sufficient bases for rejecting control measures.

Response 2(a): The EPA's approach toward the RACM requirement is grounded in the language of the Clean Air Act. Section 172(c)(1) states that a SIP for a nonattainment area must meet the following requirement, "In general.—Such plan provisions shall provide for the implementation of all reasonably available control measures as expeditiously as practicable (including such reductions in emissions from existing sources in the area as may be obtained through the adoption, at a minimum, of reasonably available

control technology) and shall provide for attainment of the national primary ambient air quality standards. [Emphasis added.] The EPA interprets this language as tying the RACM requirement to the requirement for attainment of the national primary ambient air quality standard. The CAA provides that the attainment date shall be "as expeditiously as practicable but no later than \* \* \*" the deadlines specified in the CAA. EPA believes that the use of the same terminology in conjunction with the RACM requirement serves the purpose of specifying RACM as the way of expediting attainment of the NAAQS in advance of the deadline specified in the CAA. As stated in the "General Preamble" (57 FR 13498 at 13560, April 16, 1992), "The EPA interprets this requirement to impose a duty on all nonattainment areas to consider all available control measures and to adopt and implement such measures as are reasonably available for implementation in the area as components of the area's attainment demonstration." [Emphasis added. In other words, because of the construction of the RACM language in the CAA, EPA does not view the RACM requirement as separate from the attainment demonstration requirement. Therefore, EPA believes that the CAA supports its interpretation that measures may be determined to not be RACM if they do not advance the attainment date. In addition, EPA believes that it would not be reasonable to require implementation of measures that would not in fact advance attainment. See 57 FR 13560.

The term "reasonably available control measure" is not actually defined in the definitions in the CAA. Therefore, the EPA interpretation that potential measures may be determined not to be RACM if they require an intensive and costly effort for numerous small area sources is based on the common sense meaning of the phrase, "reasonably available." A measure that is reasonably available is one that is technologically and economically feasible and that can be readily implemented. Ready implementation also includes consideration of whether emissions from small sources are relatively small and whether the administrative burden, to the States and regulated entities, of controlling such sources was likely to be considerable. As stated in the General Preamble, EPA believes that States can reject potential measures based on local conditions including cost. 57 FR 13561.

Also, the development of rules for a large number of very different source categories of small sources for which little control information may exist will likely take much longer than development of rules for source categories for which control information exists or that comprise a smaller number of larger sources. The longer the time frame for development of rules by the State would decrease the possibility that the emission reductions from the rules in the three nonattainment areas would advance the attainment date earlier than would be achieved from the larger amount of reductions expected from upwind controls, such as from the NO $_{\rm X}$  SIP call and controls from severe areas with later statutory attainment dates.

Comment 2(b): EPA's approach also illegally assumes that the attainment dates for these areas can be extended beyond November 15, 1999 via the Agency's downwind transport policy.

Response 2(b): As noted above, EPA concluded that RACM is linked in the language of the Clean Air Act to the attainment date. We elsewhere respond to comments that object to EPA's approval of attainment date extensions and do not restate those responses here. See Section VII.A. Once an attainment date is set for an area, an analysis can then be made to determine whether any additional measures that may potentially be RACM would advance that attainment date.

Comment 3: Failure to quantify reductions needed to attain sooner:
Even if advancement of the attainment date were a relevant test for RACM, EPA has failed to rationally justify its claim that additional control measures would not meet that test. To begin with, neither the Agency nor the states have quantified in a manner consistent with EPA rules and guidance the emission reductions that would be needed to attain the standard prior to achievement of emission reductions required under the NO<sub>X</sub> SIP call.

Response 3: Elsewhere in this response to comments on the proposed approval of the 1-hour ozone SIPs, EPA addresses the issue of the attainment date extension. See Section VII.A. EPA has therein justified the position that areas affected by transport may need additional time to attain—and in some cases may need an extension out to either the date the NO<sub>X</sub> SIP call will be implemented or the attainment date of an upwind area if it cannot attain without the reductions from the upwind area. In the case of Springfield, Massachusetts, all local measures needed for attainment, except the rule Massachusetts adopted to meet the NO<sub>X</sub> SIP call, are already being implemented. EPA considers this implementation as expeditious as practicable.

The regulation Massachusetts adopted to meet EPA's NO<sub>X</sub> SIP call requires

compliance with covered emission reductions in 2003, which EPA considers as expeditiously as practicable for those sources.

Comment 4: Inadequate RACM analysis: EPA's RACM analysis is grossly inadequate in several key respects.

Comment 4(a): EPA's analysis fails to provide the technical basis and calculations by which it developed its emission reduction estimates for various measures. EPA failed to provide citations to the literature regarding estimates of emission reductions for various TCMs. EPA failed to specify the level of implementation assumed for some of the TCMs in the analysis.

Response 4(a): EPA's RACM analysis (found at www.epa.gov/ttn/rto) did provide the technical basis and calculations for its emission reduction estimates for controls possible for the source categories in the emission inventory. The commenter apparently believes EPA's analysis is insufficient, however. The technical basis for the analyses and the assumptions used in the calculation of estimated emission reductions were derived from a review of the literature on the implementation and effectiveness of TCM's.<sup>13</sup> The TCMs evaluated depend on the level of implementation. Implementation variables, representing levels of implementation effort, are implicit in the range of effectiveness for each category of TCM. EPA does not believe it is necessary, or even possible, to evaluate every explicit variation of TCM's in order to adequately determine if it is reasonably available. EPA believes that using the midpoint level of effectiveness represents a level of implementation effort that is not so high as to be economically infeasible, nor so low as to be ineffective.

Comment 4(b): EPA's analysis looks at only a small universe of potential measures, and does not evaluate all of the measures identified in public comment and other sources.

Response 4(b): EPA's RACM analysis was intended to address all potential categories of stationary and mobile sources that could provide additional emission reductions that might be considered RACM. The EPA believes that all identified measures were included in the categories addressed in the analysis.

 <sup>&</sup>lt;sup>13</sup> Transportation Control Measures: State
 Implementation Plan Guidance, US EPA 1992;
 Transportation Control Measure Information
 Documents, US EPA 1992; Costs and Effectiveness
 of Transportation Control Measures: A Review and
 Analysis of the Literature, National Association of
 Regional Councils 1994.

Comment 4(c): EPA's analysis also completely fails to consider the additional benefits likely from combined implementation of complementary TCMs e.g., parking management along with transit improvements. It is arbitrary and irrational for EPA to assume that these measures can and will be implemented in complete isolation from one another.

Response 4(c): EPA recognizes that many control measures—particularly TCMs—are more effective if done in conjunction with others. EPA maintains, however, that it would be impossible to analyze a seeming infinite set of combinations of measures for possible benefits. The EPA's analysis did look at all measures in various categories and concluded that as a whole these categories of measures would not advance attainment or would otherwise not be reasonably available.

Comment 5: Stationary sources: The analysis of potential emission reductions from additional stationary source measures is flawed in several key respects

*Comment 5(a):* First, EPA arbitrarily excluded from any consideration the bottom 20% of the stationary source categories.

Response 5(a): EPA does not consider this exclusion arbitrary, since it was designed to eliminate from consideration controls on a number of source categories that were not expected to yield many emission reductions. The EPA believed that controls on categories with very low emission reduction potential would not constitute RACM. The fact that none of the top 80 percent of the categories considered for additional controls yielded measures that EPA considered RACM for the areas in question validates EPA's decision not to analyze separately the bottom 20 percent of the categories, which would cumulatively have achieved fewer emission reductions. Therefore, EPA concludes that control measures applied to the bottom 20 percent of the categories are also not RACM.

Comment 5(b): Second, EPA did not consider potential additional controls on electric generating units and point source combustion sources.

Response 5(b): Undoubtedly there are additional controls that could be placed on electric generating units and point source combustion sources. However, EPA believes that the implementation of the RACT requirements in nonattainment areas and, more importantly, the implementation of the  $NO_X$  SIP call in all areas affecting the nonattainment areas in general provide a level of control that represents all reasonably available controls for these

sources in the areas in question. The EPA believes that generally, the level of NO<sub>X</sub> emissions control required under the NO<sub>X</sub> SIP call for larger sources, including electric generating units and point source combustion sources, is greater than the level of control presumed by EPA under the NO<sub>X</sub> RACT requirement. The NO<sub>X</sub> SIP call is based on a level of highly cost effective controls, characterized as having a \$2000 per ton cost effectiveness or less (63 FR 57400, October 27, 1998). The presumptive level of RACT provided in EPA guidance is based on cost effectiveness up to \$1300 per ton (Memorandum of March 16, 1994, from D. Kent Berry re: "Cost-Effective Nitrogen Oxides (NO<sub>X</sub>) Reasonably Available Control Technology (RACT)"). EPA acknowledges that controls with costs higher than \$2000 per ton are available and may be cost-effective. However, the control costs do not reflect other concerns regarding reasonableness of control. EPA received comments that predicted problems with availability of electrical generation even at the NO<sub>X</sub> SIP call level of control; therefore, in its final NO<sub>X</sub> SIP call rule, EPA included provisions for a NO<sub>X</sub> supplement pool to allow more time for some units to come into compliance and thus minimize potential power availability problems. At control levels greater than those in the NO<sub>X</sub> SIP call rule, EPA believes the time States would need to provide for sources to come into compliance while avoiding power availability problems would be more than the current amount of time for Western Massachusetts and Metropolitan Washington to attain. Therefore, EPA had determined that such additional controls do not constitute RACM.

Comment 5(c): Third, EPA assumes that only a 50% level of control is achievable for the uncontrolled emissions. This completely unsupported claim is hard to fathom.

Response 5(c): EPA's long-standing guidance on the RACT requirement for stationary sources of VOC has generally assumed a presumptive norm of 81 percent control efficiency; this efficiency was based on the assumption of a 90 percent capture efficiency and 90 percent control efficiency of the captured emissions  $(0.9 \times 0.9 = 0.81)$ . However, the specific VOC RACT control techniques guidelines were developed for emission sources for which much information about emissions and controls was available. The RACT rules often apply to smaller sources as well as to major sources. There is not nearly as much information available concerning source categories

for which RACT guidelines have not been developed; nor is there information regarding what controls are appropriate for the smaller sources that are not already subject to RACT. Therefore, without further information, EPA was hesitant to assume an 81 percent level of control. EPA therefore chose a 50 percent level of control for VOC control, which EPA believes is reasonable in light of our limited knowledge on available controls.

The EPA established guidance to States in complying with the Clean Air Act's requirements for NO<sub>X</sub> RACT in the NO<sub>X</sub> Supplement to the General Preamble (57 FR 55620, November 25, 1992). That guidance addressed RACT for major stationary sources of NO<sub>X</sub>. Under section 182(b)(2) of the CAA, moderate and higher ozone nonattainment area SIPs—and also SIPs for all areas in the Ozone Transport Region—were already required to contain provisions for applying a reasonably available level of control for NO<sub>X</sub> for major stationary sources. For NO<sub>X</sub> emission control for other sources, when EPA published the NO<sub>X</sub> SIP call (63 FR 57402, October 27, 1998), EPA evaluated other levels of control for categories of stationary sources that were not included in the highly costeffective controls assumed for establishing the level of control reflected in the Statewide NO<sub>x</sub> emission budgets in that rule. The EPA determined that for area sources, additional controls that were technologically feasible and highly costeffective could not be identified. The EPA determined that for small point sources, their collective emissions were relatively small and the administrative burden, to the States and regulated entities, of controlling such sources was likely to be considerable. Nonetheless, for the purpose of the RACM analysis, EPA did assume a level of control for sources with potential for control. In light of the lower level of confidence in information concerning NO<sub>x</sub> controls on these sources, and the conclusion concerning cost effectiveness, however, EPA believed it had to take a more conservative approach, and thus chose a lower level of control, namely 50 percent. The EPA believes this level is reasonable in light of these facts.

Comment 6: Transportation Control Measures as RACM: EPA gives virtually no consideration to the emission reduction benefits of transportation programs, projects and services contained in adopted regional transportation plans (RTPs), or that are clearly available for adoption as part of RTPs adopted for a nonattainment area. In addition, it is arbitrary and capricious

for EPA not to require as RACM economic incentive measures that are generally available to reduce motor vehicle emissions in every nonattainment area.

Response 6: EPA's notice of availability of the RACM analysis (65 FR 61134, October 16, 2000) does consider transportation programs, projects and services that are generally adopted, or available for inclusion in a nonattainment area's regional transportation plan and Transportation Improvement Program. The RACM analysis includes seven broad categories and twenty-seven subcategories of Transportation Control Measures that represent a range of programs, projects and services that can be included in RTP's and TIP's. The inclusion of a TCM in an RTP or TIP does not necessarily mean that it meets EPA's criteria for RACM and must be included in the SIP. EPA has concluded that implementation of these TCM's would not advance the attainment date for the Springfield, Massachusetts area, and therefore are not considered RACM for purposes of the attainment SIPs for that

Some of these TCM's, such as parking cashout, transit subsidies, and parking pricing, are explicitly economic incentive programs. Furthermore, these categories of TCMs, as well as most of the others, could be infinitely differentiated according to criteria, such as the method of implementation, level of promotional effort or market penetration, stringency of enforcement, etc. The application of economic incentives to increase the effectiveness of a TCM is one such criterion. These implementation variables, representing levels of implementation effort, are implicit in the range of effectiveness for each category of TCM. EPA does not believe it is necessary, or even possible, to evaluate every explicit variation of TCM's in order to adequately determine if it is reasonably available. EPA believes that using the midpoint level of effectiveness represents a level of implementation effort that is not so high as to be economically infeasible, nor so low as to be ineffective.

Also, there are many important reasons why a state, regional, or local planning agency might implement TCMs in an integrated traffic management plan beyond whatever air quality benefits the TCMs might generate, including preserving open space, water shed protection, avoiding sprawl, mitigating congestion, and "smart growth" planning generally. So the fact that TCMs are being implemented in certain ozone nonattainment areas does not

necessarily lead one to the conclusion that those TCMs represent mandatory RACM measures when they are analyzed primarily for the purpose of determining whether they would advance the ozone attainment date.

Comment 7: EPA did not provide sufficient notice and time to permit adequate comment.

Response 7: In its initial notice of availability of the RACM analysis (65 FR 61134, October 16, 2000) EPA offered a 15 day comment period (to October 31, 2000). On November 2, 2000 (65 FR 65818), EPA extended the comment period an additional 15 days, specifically stating that this would provide a total of 30 days for public comment. Unfortunately, that notice was published with a typographical error that appeared to extend the comment period an additional year and 15 days. Therefore, on November 9, 2000 (65 FR 67319), EPA published a correction to clearly extend the comment period 15 days from October 31, 2000, to November 15, 2000. EPA believes 30 days is an adequate period for public comment. The first notice to extend the public comment period (the November 2, 2000 notice) made it quite clear that the extension was for only 15 days to provide a total of 30 days for comment; EPA believes no possible confusion should have resulted from the fact that the end date of the comment period contained a typographical error.

Comment 8: EPA is trying to circumvent obligations under 2 Consent Decrees (MOG v. EPA and NRDC v. Browner).

Response 8: This comment refers to consent decrees filed in two cases: NRDC v. Browner, No. 99–2976 (D.D.C.) and Midwest Ozone Group v. EPA, No. 00-1047 (D.D.C.). In NRDC, the consent decree provides that by November 15, 2000, EPA shall propose a federal implementation plan (FIP) for the Springfield, Massachusetts; Greater Connecticut; and Metropolitan Washington D.C. nonattainment areas if EPA has not approved full attainment demonstration SIP for that area. The consent decree for Midwest Ozone Group is similar, but not identical. It provides that EPA shall propose federal implementation plans (FIPs) for two of the three nonattainment areas-Springfield, Massachusetts and Greater Connecticut—if EPA has not proposed approval of a full attainment demonstration SIP for that area. The EPA met its obligation under the Midwest Ozone Group decree when it proposed approval of the full attainment demonstration SIPs for those two areas on Dec. 16, 1999. 64 FR 70319 and 64 FR 70332. On November 6, 2000, the

District Court granted EPA's unopposed motion to extend the deadline for action under the NRDC decree until December 15, 2000 for each of the three areas. On December 7, 2000, the court further extended the date for EPA action with respect to Springfield until December 22, 2000. The EPA has complied with the NRDC consent decree with respect to the Greater Connecticut and Metropolitan Washington D.C. areas. The appropriate Regional Administrator signed a final rulemaking action approving the full attainment demonstration SIPs for those two areas on December 15, 2000. The EPA has complied with the NRDC consent decree with respect to the Springfield, Massachusetts because the Regional Administrator signed a final rulemaking action approving the full attainment demonstration SIP by December 22, 2000

Comment 9: Since EPA found that MA and CT failed to conduct an adequate RACM analysis, EPA must disapprove the SIPs and propose a FIP.

Response 9: Although EPA found that MA and CT failed to conduct an adequate RACM analysis, EPA believes it does have authority to supplement the record and conclude that the SIPs for these two areas meet the RACM requirement of the CAA. See above the response to comment.

F. Reliance on Commitments and State Rules Not Yet Adopted

Comment: Several commenters disagreed with the EPA's proposal to approve attainment demonstrations and rate-of-progress plans for the Springfield, Massachusetts, Greater Connecticut, and Metropolitan Washington, DC ozone nonattainment areas because not all of the emissions reductions credited in the demonstrations or plans are supported by legally enforceable limitations adopted and approved by the state or District and approved by the EPA as part of the SIP. Commenters also objected to accepting enforceable state commitments to adopt emission reduction control measures in the future in lieu of current adopted measures.

Response: The EPA has approved previously, or is approving together with the attainment demonstrations, all outstanding emission reduction limitations relied on for attainment for these three areas. Thus, none of the three areas on which the EPA is approving have commitments to adopt emission reduction measures in the future and all emission reductions rules relied on for attainment have been fully approved by the EPA.

#### G. Adequacy of Motor Vehicle Emissions Budgets

Comment: On our December 16, 1999 proposed approval of the Springfield area attainment demonstration, we received comments about the process and substance of EPA's review of the adequacy of motor vehicle emissions budgets for transportation conformity purposes. Specifically, one commenter stated that they opposed any action to determine adequate motor vehicle emissions budgets that are derived from attainment demonstrations that do not provide for attainment. The commenter listed a number of reasons why the submitted SIP contains an inadequate attainment demonstration. The commenter stated that EPA cannot find the motor vehicle emissions budgets adequate based on the record before

Response: At the time this comment was received, EPA's adequacy process for the Springfield, Massachusetts area had already been completed. EPA sent a letter to Massachusetts on February 19, 1999 finding the motor vehicle budgets submitted by the state on October 1, 1998 adequate for use in transportation conformity determinations. On June 10, 1999 (64 FR 31217), EPA notified the public that we had found the 2003 VOC and NOX motor vehicle emission budgets submitted by Massachusetts on October 1, 1998 adequate for conformity purposes. These budgets became effective on February 19, 1999. Elsewhere in the Response to Comments, we have addressed all of the comments received on whether the submitted SIP contains an adequate attainment demonstration. Those include comments on the weight of evidence approach; the attainment date extension policy; the implementation of the 9% rate of progress requirements; credit for unapproved and unenforceable measures; credit from national rules; the acceptability of the fleet mix used in establishing budgets; and whether all reasonably available control measures have been implemented.

#### H. Rate of Progress Motor Vehicle Emissions Inventory

Comment: Several commenters stated that the motor vehicle emissions inventory is not current, particularly with respect to the fleet mix.

Commenters stated that the fleet mix does not accurately reflect the growing proportion of sport utility vehicles and gasoline trucks, which pollute more than conventional cars. Also, a commenter stated that EPA and states

have not followed a consistent practice in updating SIP modeling to account for changes in vehicle fleets. For these reasons, commenters recommend disapproving the SIPs.

Response: The Massachusetts SIP we are taking final action on is based on the most recent vehicle registration data available at the time the SIP was submitted. The Massachusetts SIP is based on vehicle registration data from 1996, which is the most recent data available at the time the SIP was submitted. The SIP also contains vehicle fleet characteristics that are in the most recent periodic inventory update, which was submitted on November 9, 2000. EPA requires the most recent available data to be used, but we do not require it to be updated on a specific schedule. Therefore, different SIPs base their fleet mix on different years of data. Our guidance does not suggest that SIPs should be disapproved on this basis. Nevertheless, we do expect that revisions to these SIPs that are submitted using MOBILE6 (as required in those cases where the SIP is relying on emissions reductions from the Tier 2 standards) will use updated vehicle registration data appropriate for use with MOBILE6, whether it is updated local data or the updated national default data that will be part of MOBILE6.

#### I. VOC Emission Reductions

Comment: For States that need additional VOC reductions, this commenter recommends a process to achieve these VOC emission reductions, which involves the use of HFC–152a (1,1 difluoroethane) as the blowing agent in manufacturing of polystyrene foam products such as food trays and egg cartons. HFC–152a could be used instead of hydrocarbons, a known pollutant, as a blowing agent. Use of HFC–152a, which is classified as VOC exempt, would eliminate nationwide the entire 25,000 tons/year of VOC emissions from this industry.

Response: EPA has met with the commenter and has discussed the technology described by the company to reduce VOC emissions from polystyrene foam blowing through the use of HFC-152a (1,1 difluoroethane), which is a VOC exempt compound, as a blowing agent. Since the HFC-152a is VOC exempt, its use would give a VOC reduction compared to the use of VOCs such as pentane or butane as a blowing agent. However, EPA has not studied this technology exhaustively. It is each State's prerogative to specify which measures it will adopt in order to achieve the additional VOC reductions it needs. In evaluating the use of HFC-

152a, States may want to consider claims that products made with this blowing agent are comparable in quality to products made with other blowing agents. Also the question of the over-all long term environmental effect of encouraging emissions of fluorine compounds would be relevant to consider. This is a technology which States may want to consider, but ultimately, the decision of whether to require this particular technology to achieve the necessary VOC emissions reductions must be made by each affected State. Finally, EPA notes that under the significant new alternatives policy (SNAP) program, created under CAA section 612, EPA has identified acceptable foam blowing agents many of which are not VOCs (http:// www.epa.gov/ozone/title6/snap/).

#### J. Credit for Measures Not Fully Implemented

Comment: States should not be given credit for measures that are not fully implemented. For example, the States are being given full credit for Federal coating, refinishing and consumer product rules that have been delayed or weakened.

Response: Architectural and Industrial Maintenance (AIM) Coatings: On March 22, 1995 EPA issued a memorandum 14 that provided that States could claim a 20% reduction in VOC emissions from the AIM coatings category in ROP and attainment plans based on the anticipated promulgation of a national AIM coatings rule. In developing the attainment and ROP SIPs for their nonattainment areas, States relied on this memorandum to estimate emission reductions from the anticipated national AIM rule. EPA promulgated the final AIM rule in September 1998, codified at 40 CFR Part 59 Subpart D. In the preamble to EPA's final AIM coatings regulation, EPA estimated that the regulation will result in 20% reduction of nationwide VOC emissions from AIM coatings categories (63 FR 48855). The estimated VOC reductions from the final AIM rule resulted in the same level as those estimated in the March 1995 EPA policy memorandum. In accordance with EPA's final regulation, States have assumed a 20% reduction from AIM coatings source categories in their attainment and ROP plans. AIM coatings manufacturers were required to be in compliance with the final

<sup>14 &</sup>quot;Credit for the 15 Percent Rate-of-Progress Plans for Reductions from the Architectural and Industrial Maintenance (AIM) Coating Rules," March 22, 1995, from John S. Seitz, Director, Office of Air Quality Planning and Standards to Air Division Directors, Regions I-X.

regulation within one year of promulgation, except for certain pesticide formulations which were given an additional year to comply. Thus all manufacturers were required to comply, at the latest, by September 2000. Industry confirmed in comments on the proposed AIM rule that 12 months between the issuance of the final rule and the compliance deadline would be sufficient to "use up existing label stock" and "adjust inventories" to conform to the rule. 63 FR 48848 (September 11, 1998). In addition, EPA determined that, after the compliance date, the volume of nonconforming products would be very low (less than one percent) and would be withdrawn from retail shelves anyway. Therefore, EPA believes that compliant coatings were in use by the Fall of 1999 and that it was appropriate for the States to take credit for those reductions in their SIPs.

Autobody Refinish Coatings Rule: Massachusetts has adopted its own regulation for Autobody Refinish Coatings and is not relying on the federal rule for this category. EPA approved Massachusetts' automotive refinishing rule on February 14, 1996 (61 FR 5696). The state assumed a 40% control efficiency would be achieved from this rule. This is slightly higher than the amount of reduction estimated from EPA's final rule, "National Volatile Organic Compound Emission Standards for Automobile Refinish Coatings, published on September 11, 1998 (63 FR 48806). EPA is now estimating a 36% reduction from the national rule for previously unregulated areas.

The slightly higher control efficiency for Massachusetts' rule is justified for two reasons. First, the Massachusetts rule contains standards requiring higher transfer efficiency for application equipment. These standards are not contained in the national rule, and will generate emission reductions not expected from the national rule. Second, the Massachusetts autobody rule does not include an exemption for laquer topcoats, like the national rule does. The Massachusetts rule includes an emission limit of 5.0 lbs VOC per gallon of coating for topcoats, generally, and a 5.2 lbs VOC per gallon of coating for three or four stage topcoats.

Consumer Products Rule: Consistent with a June 22, 1995 EPA guidance, <sup>15</sup> States have claimed a 20% reduction from this source category based on EPA's proposed rule. The final rule, "National Volatile Organic Compound

**Emission Standards for Consumer** Products," (63 FR 48819), published on September 11, 1998, has resulted in a 20% reduction after the December 10, 1998 compliance date. In the consumer products rule, EPA determined and the consumer products industry concurred, that a significant proportion of subject products have been reformulated in response to State regulations and in anticipation of the final rule. 63 FR 48819. That is, industry reformulated the products covered by the consumer products rule in advance of the final rule. Therefore, EPA believes that complying products in accordance with the rule were in use by the Fall of 1999 and that it was appropriate for the States to take credit for those reductions in their SIPs.

#### K. Enforcement of Control Programs

Comment: The attainment demonstrations do not clearly set out programs for enforcement of the various control strategies relied on for emission reduction credit.

Response: State enforcement program elements are contained in SIP revisions previously approved by EPA under obligations for enforceable emission limitations set out in section 110 of the Clean Air Act. Once approved by the EPA, there is no need for states to readopt and resubmit their enforcement programs with each and every SIP revision generally required by other sections of the CAA.

#### L. Contingency Measures

Comment: The SIP for the Springfield, Massachusetts ozone nonattainment area does not provide contingency measures to make up for any emission reduction shortfall, either in achievement of ROP milestones or for failure to attain, as required by sections 172(c)(9) and 182(c)(9)of the Clean Air Act.

Response: The EPA believes the contingency measure requirements of Sections 172(c)(9) and 182(c)(9) are independent requirements from the attainment demonstration requirements under Sections 172(c)(1) and 182(c)(2)(A) and the rate-of-progress (ROP) requirements under §§ 172(c)(2) and 182(c)(2)(B). The contingency measure requirements are to address the event that an area fails to meet a ROP milestone or fails to attain the ozone NAAQS by the attainment date established in the SIP. The contingency measure requirements have no bearing on whether a state has submitted a SIP that projects attainment of the ozone NAAQS or the required ROP reductions toward attainment. The attainment or ROP SIP provides a demonstration that

attainment or ROP requirements ought to be fulfilled, but the contingency measure SIP requirements concern what is to happen only if attainment or ROP is not actually achieved. The EPA acknowledges that contingency measures are an independently required SIP revision, but does not believe that submission of contingency measures is necessary before EPA may approve an attainment or ROP SIP. Also see the discussion of contingency measures in the extension of the attainment date policy section VII.A.

The EPA has, however, examined the ROP and attainment SIPs for the Springfield Massachusetts nonattainment area. The following summarizes the EPA's findings for the Springfield Massachusetts area.

The post-1996 ROP and attainment demonstration SIP for Springfield, Massachusetts does not specify any specific measures as contingency measures. The EPA approved the post-1996 ROP plan on November 15, 2000. 65 FR 68896. Approval of the plan without contingency measures is appropriate as stated above. The EPA notes that there are surplus emission reductions from a number of programs which accrue reductions after 1999 and are beyond the 3 percent contingency measure requirement for ROP. The programs include: (1) The second phase of reformulated gasoline program, which started January 1, 2000: (2) continued implementation of the enhanced inspection and maintenance program, which started October 1, 1999 and isn't fully effective until four years later when two full cycles of vehicle testing have been completed; (3) continuing reductions from the California low emissions vehicle (LEV) program being implemented by Massachusetts; (4) continuing reductions from EPA's standards for a variety of off-road sources; and, (5) the NO<sub>X</sub> SIP call adopted by Massachusetts, which has a May 1, 2003 compliance date.

The EPA notes that there are emission reduction measures that are not relied on or credited in the SIP for attainment which will continue to provide reductions after December 2003, the attainment date that EPA is approving for the area. They include the California low emissions vehicle 2 program adopted by Massachusetts which commences with reductions from medium-duty trucks in 2003 and from light-duty vehicles in 2004. Additionally, there are continuing reductions from EPA's standards for non-road sources.

The EPA has analyzed the SIP for Springfield, Massachusetts and has

<sup>15 &</sup>quot;Regulatory Schedule for Consumer and Commercial Products under Section 183(e) of the Clean Air Act," June 22, 1995, John S. Seitz, Director OAQPS, to Air Division Directors, Regions I–X.

estimated that the area's attainment demonstration contingency obligation would be approximately 2.2 tpsd NO<sub>X</sub>, and 1.5 tpsd VOC. Reductions from the federal non-road engine control program and the California LEV 2 program standards in 2004 are estimated to be at least 2.37 tpsd  $NO_X$  and 1.65 tpsd VOCwhich would cover the contingency obligation for this area by May 2005 (the year following the time by which EPA must determine whether the area has attained).16 More details on EPA's contingency measure analysis are included in the docket for the rulemaking action. While there is not an approved SIP contingency measure that would apply if the state failed to attain, EPA believes that existing federally enforceable measures would provide the necessary substantive relief.

#### M. NO<sub>X</sub> Emissions Budget

Comment: Since Connecticut and Massachusetts are significant contributors to other States' ozone nonattainment, EPA should require Connecticut and Massachusetts to make necessary reductions to attain the ozone standard within their States and neighboring States. The commenter objected to allowing Connecticut to increase its NO<sub>x</sub> emissions budget.

Response: The states of Connecticut, Massachusetts and Rhode Island all submitted their SIPs in response to the NO<sub>X</sub> SIP call in late 1999, and EPA proposed approval of them all on July 12, 2000 (at 65 FR 42900, 65 FR 42907, and 65 FR 42913 for CT, MA and RI, respectively). No public comments were received on those proposals. On October 20, 2000, final approval of Connecticut, Massachusetts and Rhode Island NO<sub>X</sub> SIP call SIPs was granted by EPA Region I's Regional Administrator. Approval of the SIPs will be codified at 40 CFR 52.370(c)(86) for Connecticut, 40 CFR 52.1120(c)(124) for Massachusetts, and Table C of 40 CFR 52.2070 for Rhode Island. In our final approval, we said that we have determined the SIP revisions for these three states meet the air quality objectives of the NO<sub>X</sub> SIP call requirements EPA has published to date. Thus, we believe that Connecticut and Massachusetts have already adopted adequate emission control strategies to address 1-hour ozone transport for downwind areas. Furthermore, EPA has previously determined each of the 1-hour ozone nonattainment areas in eastern New England (i.e., Providence, Rhode Island;

Boston-Lawrence-Worcester, Massachusetts-New Hampshire; Portsmouth-Dover-Rochester, New Hampshire; Manchester, New Hampshire; Cheshire County, New Hampshire; Portland, Maine; Lewiston-Auburn, Maine, and Knox and Lincoln Counties, Maine) to have air quality meeting the 1-hour ozone standard. (See final actions published on June 5, 1998 (63 FR 31014), and June 9, 1999 (64 FR 30911).) Based on final data for some areas and preliminary data for others, EPA expects each of these areas to continue to be meeting the 1-hour ozone standard for the years 1998 through

Furthermore, in February 1999, CT, MA, RI, and EPA signed a memorandum of understanding (i.e., "the Three State MOU") agreeing to redistribute the EGU portions of the three states' budgets, as well as the compliance supplement pool allocations, amongst themselves. Under the MOU, the combined 2007 controlled emission level and compliance supplement pool did not change for the three states, only the individual state EGU allocations and supplement pools were redistributed to provide additional flexibility among these three states. EPA supports this concept because such a redistribution is no different than the effects of trading.

When EPA reviewed whether each state was meeting the objectives of the NO<sub>X</sub> SIP call, we considered the adopted 2007 emission budgets and adopted NO<sub>X</sub> reducing measures in CT, MA and RI together and found them as meeting the air quality objectives of the NO<sub>X</sub> SIP Call. The issue of whether the redistribution was appropriate was considered and decided during the rulemaking approving the NO<sub>X</sub> SIPs.

#### N. Lack of Fully Approved Rules

Comment: Springfield, MA, does not have final full approval of Stage II vapor recovery rules or enhanced I/M.

Response: EPA approved the Massachusetts enhanced inspection and maintenance SIP on November 16, 2000 (65 FR 69254). EPA approved the revised Stage II regulations on December 18, 2000 (65 FR 78974).

Other information and rationale for EPA's action are explained in the NPR and will not be restated here.

#### VIII. EPA Action

As described above, EPA does not believe any of the comments received on the proposals published for the attainment demonstration and attainment date extension for the Springfield, Massachusetts area change the basis for our proposed approval. Thus, EPA is approving the ground-

level one-hour ozone attainment demonstration SIP for the Springfield, Massachusetts ozone nonattainment area. EPA is also approving the attainment date extension for this area until December 31, 2003. This revision also approves the 2003 volatile organic compound and nitrogen oxide motor vehicle emissions budgets for the Springfield, Massachusetts serious ozone nonattainment area for use in transportation conformity.

Nothing in this action should be construed as permitting or allowing or establishing a precedent for any future request for revision to any State implementation plan. Each request for revision to the State implementation plan shall be considered separately in light of specific technical, economic, and environmental factors and in relation to relevant statutory and regulatory requirements.

#### IX. Administrative Requirements

Under Executive Order 12866 (58 FR 51735, October 4, 1993), this action is not a "significant regulatory action" and therefore is not subject to review by the Office of Management and Budget. This action merely approves state law as meeting Federal requirements and imposes no additional requirements beyond those imposed by state law. Accordingly, the Administrator certifies that this rule will not have a significant economic impact on a substantial number of small entities under the Regulatory Flexibility Act (5 U.S.C. 601 et seq.). Because this rule approves preexisting requirements under state law and does not impose any additional enforceable duty beyond that required by state law, it does not contain any unfunded mandate or significantly or uniquely affect small governments, as described in the Unfunded Mandates Reform Act of 1995 (Pub. L. 104-4). For the same reason, this rule also does not significantly or uniquely affect the communities of tribal governments, as specified by Executive Order 13084 (63 FR 27655, May 10, 1998). This rule will not have substantial direct effects on the States, on the relationship between the national government and the States, or on the distribution of power and responsibilities among the various levels of government, as specified in Executive Order 13132 (64 FR 43255, August 10, 1999), because it merely approves a state rule implementing a Federal standard, and does not alter the relationship or the distribution of power and responsibilities established in the Clean Air Act. This rule also is not subject to Executive Order 13045 (62 FR 19885, April 23, 1997), because it is not economically significant.

<sup>&</sup>lt;sup>16</sup> EPA policy provides that contingency measures should achieve a 3 percent reduction in emissions in the year following an EPA determination of a failure to attain or to meet a progress requirement.

In reviewing SIP submissions, EPA's role is to approve state choices, provided that they meet the criteria of the Clean Air Act. In this context, in the absence of a prior existing requirement for the State to use voluntary consensus standards (VCS), EPA has no authority to disapprove a SIP submission for failure to use VCS. It would thus be inconsistent with applicable law for EPA, when it reviews a SIP submission, to use VCS in place of a SIP submission that otherwise satisfies the provisions of the Clean Air Act. Thus, the requirements of section 12(d) of the National Technology Transfer and Advancement Act of 1995 (15 U.S.C. 272 note) do not apply. As required by section 3 of Executive Order 12988 (61 FR 4729, February 7, 1996), in issuing this rule, EPA has taken the necessary steps to eliminate drafting errors and ambiguity, minimize potential litigation, and provide a clear legal standard for affected conduct. EPA has complied with Executive Order 12630 (53 FR 8859, March 15, 1988) by examining the takings implications of the rule in accordance with the "Attorney General's Supplemental Guidelines for the Evaluation of Risk and Avoidance of Unanticipated Takings" issued under the executive order. This rule does not impose an information collection burden under the provisions of the

Paperwork Reduction Act of 1995 (44 U.S.C. 3501 *et seg.*).

The Congressional Review Act, 5 U.S.C. section 801 et seq., as added by the Small Business Regulatory Enforcement Fairness Act of 1996, generally provides that before a rule may take effect, the agency promulgating the rule must submit a rule report, which includes a copy of the rule, to each House of the Congress and to the Comptroller General of the United States. EPA will submit a report containing this rule and other required information to the U.S. Senate, the U.S. House of Representatives, and the Comptroller General of the United States prior to publication of the rule in the Federal Register. A major rule cannot take effect until 60 days after it is published in the **Federal Register**. This action is not a "major rule" as defined by 5 U.S.C. section 804(2).

Under section 307(b)(1) of the Clean Air Act, petitions for judicial review of this action must be filed in the United States Court of Appeals for the appropriate circuit by March 5, 2001. Filing a petition for reconsideration by the Administrator of this final rule does not affect the finality of this rule for the purposes of judicial review nor does it extend the time within which a petition for judicial review may be filed, and shall not postpone the effectiveness of

such rule or action. This action may not be challenged later in proceedings to enforce its requirements. (See section 307(b)(2).)

#### List of Subjects in 40 CFR Part 52

Environmental protection, Air pollution control, Carbon monoxide, Hydrocarbons, Incorporation by reference, Intergovernmental relations, Nitrogen dioxide, Ozone, Particulate matter, Reporting and recordkeeping requirements, Sulfur oxides.

Dated: December 21, 2000.

#### Mindy S. Lubber,

Regional Administrator, EPA-New England.

Part 52 of chapter I, title 40 of the Code of Federal Regulations is amended as follows:

#### PART 52—[AMENDED]

1. The authority citation for part 52 continues to read as follows:

Authority: 42 U.S.C. 7401 et seq.

#### Subpart W—Massachusetts

2. Section 52.1127 is amended by revising the table to read as follows:

### § 52.1127 Attainment dates for national standards.

\* \* \* \* \*

	Pollutant						
Air quality control region	SO <sub>2</sub>		DM	NO	60		
	Primary	Secondary	PM <sub>10</sub>	NO <sub>2</sub>	CO	O <sub>3</sub>	
AQCR 42: Hartford-New Haven-Springfield Interstate Area (See 40 CFR 81.26)							
All portions except City of Springfield	(a) (a)	(b) (b)	(a) (a)	(a) (a)	(a) (c)	(e) (e)	
AQCR 117: Berkshire Intrastate Area (See 40 CFR 81.141)	(a)	(b)	(a)	(a)	(a)	(e)	
All portions except City of Worcester `	(a) (a)	(b) (b)	(a) (a)	(a) (a)	(a) (c)	(d) (d)	
AQCR 119: Metropolitan Boston Intrastate Area (See 40 CFR 81.19) All portions except City of Waltham	(a)	(b)	(a)	(a)	(a)	(d)	
City of Waltham	(a)	(b)	(a) (a)	(a) (a)	(c) (a)	(d) (d)	
AQCR 121: Merrimack Valley-Southern NH Interstate Area (See 40 CFR 81.81)	(a)	(6)	(a)	(a)	(a)	(u)	
All portions except City of Lowell	(a) (a)	(b)	(a) (a)	(a) (a)	(a) (c)	(d) (d)	

- a. Air quality levels presently below primary standards or area is unclassifiable.
- b. Air quality levels presently below secondary standards or area is unclassifiable.
- c. December 31, 1995.
- d. November 15, 1999.
- e. December 31, 2003.
- 3. Section 52.1129 of subpart W is amended by designating the existing text as paragraph (a) and by adding paragraph (b) to read as follows:

#### § 52.1129 Control strategy: Ozone.

\* \* \* \* \*

(b) Approval—Revisions to the State Implementation Plan submitted by the Massachusetts Department of Environmental Protection on July 27, 1998, October 1, 1998 and August 13, 1999. The revisions are for the purpose of satisfying the attainment demonstration requirements of section 182(c)(2)(A) of the Clean Air Act, for the Springfield (Western Massachusetts) serious ozone nonattainment area. The revision establishes an attainment date of December 31, 2003 for the Springfield, Massachusetts serious ozone nonattainment area. This revision establishes motor vehicle emissions budgets for 2003 of 23.77 tons per day

of volatile organic compounds (VOC) and 49.11 tons per day of nitrogen oxides ( $NO_X$ ) to be used in transportation conformity in the

Springfield, Massachusetts serious ozone nonattainment area. [FR Doc. 01–38 Filed 1–2–01; 8:45 am] BILLING CODE 6560–50–P