

## **Massachusetts; One-Hour Ozone Attainment Demonstration and Attainment Date Extension for the Springfield (Western Massachusetts) Ozone Nonattainment Area**

### **Federal Register Dates:**

December 16, 1999    Notice of Proposed Rulemaking, 64 FR 70319  
January 3, 2001      Final Rulemaking, 66 FR 666

**EPA Approval Date:** The final rule approving the one-hour ozone attainment demonstration, attainment date extension to December 31, 2003 and the motor vehicle emissions budgets was effective on February 2, 2001.

### **State Submittal:**

On July 28, 1998 the Massachusetts Department of Environmental Protection submitted the attainment demonstration state implementation plan for the Western Massachusetts area, which included a modeling analysis using the CALGRID model. The SIP was subject to public notice and comment 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.

### **Background/Prior Action:**

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).

### **Summary:**

EPA approved by final rule, the State of Massachusetts' groundlevel one-hour ozone attainment demonstration SIP for the Springfield, Massachusetts ozone nonattainment area. EPA also approved the attainment date extension for this area until December 31, 2003. This rulemaking also approved 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.

### **Transportation Conformity Budgets:**

On February 19, 1999, EPA determined that the year 2003 motor vehicle emission budgets of 23.77 tons of VOC per summer day, and 49.11 tons of NO<sub>x</sub> per summer day, (submitted by Massachusetts on October 1, 1998), were adequate for use in transportation conformity determinations on February 19, 1999. On June 10, 1999 (64 FR 31217), EPA notified the public that we had found the 2003 VOC and NO<sub>x</sub> motor vehicle emission budgets adequate for transportation conformity purposes.

### **Identification by rule name and/or number/citation of the regulations that have been approved by EPA as part of the SIP Plan:**

No new state regulations were approved into the Massachusetts State Implementation Plan in association with its ozone attainment demonstration for western Massachusetts.

The Springfield (Western Massachusetts) Attainment Demonstration did rely on a number of existing Massachusetts control programs and existing and proposed Federal control programs/strategies including the following:

#### **1. Federal programs already implemented:**

- Reformulated Gasoline (January 1, 1995)
- Reformulated Gasoline for Off-Highway Equipment (January 1, 1995)
- Federal Motor Vehicle Control Program (FMVCP) - - Pre-Clean Air Act New Engine Performance Standards (On-going)
- Tier I New Engine Performance Standards (January 1, 1994)
- New Engine Performance Standards for Off-Highway Equipment

#### **2. Federal programs the U.S. Environmental Protection Agency committed to during the OTAG process:**

- Architectural and Industrial Maintenance Coatings Phase I (January, 1998)
  - Architectural and Industrial Maintenance Coatings Phase II (January 2003)
  - Consumer/Commercial Products Phase I (January, 1998)
  - Consumer/Commercial Products Phase II (January, 2003)
  - Autobody Refinishing Controls Phase I (January, 1998)
  - Autobody Refinishing Controls Phase II (January, 2003)
  - Reformulated Gasoline Phase II (2000)
  - Phase II Small Engine Standards (2007)
  - Marine Engine Standards (1998)
  - Heavy Duty Highway 2 gram Standard (Equivalent to a 4 gram Standard in 2007) (2004)
  - Heavy Duty Non-Road Diesel Standard (2004)
  - Locomotive Standard with Rebuild (1997)
3. State programs already contained in the SIP and implemented:
- Reasonably Available Control Technology (RACT) for Sources > 50 ton VOC, 310 CMR 7.18 (January 1, 1994/May 31, 1995)
  - Reasonably Available Control Technology (RACT) for Sources > 50 ton NO<sub>x</sub>, 310 CMR 7.18 (May 31, 1995)
  - Reformulated Architectural and Industrial Maintenance Coatings, 310 CMR 7.25 (October 1, 1995)
  - Reformulated Traffic Markings, 310 CMR 7.25 (October 1, 1995)
  - Reformulated Consumer and Commercial Products, 310 CMR 7.25 (October 1, 1995)
  - Automotive Refinishing Controls, 310 CMR 7.18 (August 1, 1995)
  - Stage II Vapor Recovery Systems at Gasoline Stations, 310 CMR 7.24 (April 1, 1991-1994)
  - Low Emission Vehicle Program, 310 CMR 7.40 (January 1, 1995)
  - Traffic Flow Improvements (On-going)
4. State programs contained in the SIP and now being implemented:
- Enhanced Inspection and Maintenance (November 15, 2000; 65 FR 68900)
  - NO<sub>x</sub> Allowance Program 310 CMR 7.27 (December 27, 2000; 65 FR 81747)
  - Revised Stage II vapor recovery regulation (August 21, 2000; 65 FR 50669)
5. State programs not yet contained in the SIP and not yet implemented:
- The more stringent of: (1) Phase III (2003) utility budget of the Ozone Transport Commission's NO<sub>x</sub> Memorandum of Understanding or (2) EPA's Final Ozone Transport SIP Call (Fully implemented by May, 2003)
  - The NO<sub>x</sub> component of the municipal waste combustor regulations pursuant to Sections 111(d) and 129 of the federal Clean Air Act (December, 2000)
6. Regional program not yet implemented:
- EPA's Final Ozone Transport SIP Call for 22 States

**Other Commitments:**

The SIP for the Springfield, Massachusetts ozone nonattainment area does not provide contingency measures.

Massachusetts must 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. Massachusetts satisfied these requirements and has avoided a disapproval of its attainment demonstration for Springfield, Massachusetts.

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