

Edmonson County, Kentucky Ozone Maintenance Plan

Effective Redesignation Date: 59 FR 55053, 11/3/94; 63 FR 46894, 9/3/98

Background of the Plan: On November 15, 1990, the Clean Air Act Amendments of 1990 (CAA) were enacted. (Pub. L. 101-549, 104 Stat. 2399, codified at 42 U.S.C. 7401-7671q). Under section 107(d)(1), in conjunction with the Governor of Kentucky, EPA designated the Owensboro and Edmonson County areas as nonattainment because the areas violated the 1-hour ozone standard during the period from 1987 through 1989 [See 56 FR 56694 (Nov. 6, 1991) and 57 FR 56762 (Nov. 30, 1992), codified at 40 CFR 81.318.] On November 13, 1992, the Commonwealth of Kentucky through the Natural Resources and Environmental Protection Cabinet (Cabinet), submitted a maintenance plan and a request to redesignate the Edmonson County area from nonattainment to attainment for ozone. The marginal nonattainment area includes the following county: Edmonson County. In this action, EPA approved the redesignation to attainment of the Owensboro and Edmonson County areas and the associated maintenance plans because they met the maintenance plan and redesignation requirements. Edmonson County marginal ozone nonattainment area. EPA approved an update for the Owensboro and Edmonson maintenance plan on April 16, 1998, to correct/revise the original motor vehicle emissions budgets (MVEBs) approved by EPA. EPA's approval became effective on November 2, 1998. The revised MVEBs were developed with MOBILE5b and are being used for transportation conformity purposes in the Edmonson area. On April 9, 2002, EPA approved a clarification establishing the "budget" year for NO_x and VOC is 2004.(65 FR 17007)

Summary of the Plan: This State Implementation Plan revision relies on an attainment level of emissions of volatile organic compounds (VOCs) and nitrogen oxides (NO_x) to maintain the 1-hour ozone standard through a combination of control measures. These measures include both stationary and mobile source controls. The State agreed to periodically update the emissions inventory to ensure maintenance of the standard and to implement certain contingency measures if the emissions level is exceeded or the standard is violated. The Edmonson County marginal nonattainment area is projected to have an increase in VOCs by 3.17 percent and a 15.76 percent reduction in NO_x by year 2004.

Control Measures: A variety of control measures will be utilized including the following:

- Emissions Inventory
- Reasonably Available Control Technology (RACT)
- Emissions Statements
- New Source Review
- Reid Vapor Pressure

Motor Vehicle Emissions Budgets: The applicable MVEB for the Owensboro and Edmonson area for VOCs in 2004 is 2.04 tons/day. The applicable MVEB for the Owensboro and Edmonson area for NO_x in 2004 is 1.23 tons/day.

Contingency Measures: The plan contains a contingency to implement RACT on existing major sources in the area where the violation occurred within ninety (90) days. RACT was not required for this nonattainment area because it was designated as a marginal nonattainment area pursuant to the CAA. However, Kentucky chose to apply RACT on all major sources which commenced on or after the effective date of a particular RACT rule.

Emission Reductions: On November 13, 1992, the Commonwealth of Kentucky submitted comprehensive inventories of VOC, NO_x, and carbon monoxide emissions for the Paducah marginal nonattainment area. The inventories included biogenic, area, stationary, and mobile sources using

1990 as the base year for calculations to demonstrate maintenance. The area wide VOC emissions inventory for baseline year 1990 was 1.88 tons/day with a total increase of 3.17 percent by 2004. The area wide NOx emissions inventory for baseline year 1990 was 1.18 tons/day with a total reduction of 15.76 percent by 2004. The Edmonson County marginal nonattainment was redesignated attainment on January 3, 1995 and will achieve further reductions through the year 2004.

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Federal Register: 11/3/1994 [65 FR 55053](#) Proposed Approval Redesignation to Attainment
09/3/1998 [65 FR 46894](#) Final Approval Redesignation to Attainment
04/9/2002 [65 FR 17007](#) Clarification of Maintenance Plan