Region 3 Plan Summary
Hampton Roads, Virginia 8-Hour Ozone Maintenance Plan

Title: Maintenance Plan for the Norfolk-Virginia Beach-Newport News (Hampton Roads), Virginia 8-Hour Ozone Area

Federal Register Dates: April 13, 2007, 72 FR 18602 (Proposed Rule); June 1, 2007, 72 FR 30490 (Final Rule); July 6, 2007, 72 FR 36895 (Final Rule- correction).

EPA Effective date: June 1, 2007.

State Submittal Dates: October 12, 2006 (Emissions Inventory) and October 18, 2006 (Maintenance Plan); Supplemental material submitted on November 20, 2006 and February 13, 2007.

Affected Areas: Chesapeake City, Gloucester County, Hampton City, Isle of Wight County, James City County, Newport News City, Norfolk City, Poquoson City, Portsmouth City, Suffolk City, Virginia Beach City, Williamsburg City, York County.

Key Features:

2005 attainment year; projections to 2011 and 2018.

Shows maintenance of the 8-hour ozone NAAQS by demonstrating that future emissions of VOC and NOx will not exceed the attainment year 2005 emissions levels throughout the Hampton Roads Area through the year 2018.

The VADEQ chose 2011 as an interim year in the maintenance demonstration period to demonstrate that the VOC and NOx emissions are not projected to increase above the 2005 attainment level during the time of the maintenance period.

Monitoring Network:

VADEQ will continue to operate its three current air quality monitors in the Hampton Roads Area in accordance with 40 CFR part 58.

Contingency Plan Triggers and Contingency Measures

An actual increase of the VOC or NOx emissions exceeding the regional emissions budgets: If the regional emissions budget for VOC or NOx is exceeded, the following control strategies will be implemented as follows:

Preparation of a complete VOC and NOx emission inventory.

The expanded implementation of one or more of the control strategies, listed in Table 6, that have not already been implemented in the Hampton Roads Area.

A violation (any 3-year average of each annual fourth highest 8-hour average) of the 8-hour ozone NAAQS of 0.08 ppm occurs:
VADEQ will implement two of the following control strategies as follows:

The expanded implementation of one or more of the following control strategies, listed in Table 6, that have not already been implemented in the Richmond Area.

A violation (any 3-year average of each annual fourth highest 8-hour average) of the 8-hour ozone NAAQS of 0.08 ppm in any subsequent ozone season:
Two additional control strategies from Table 6 will be implemented:

Table 6. - Maintenance Plan Contingency Measure Options

Control strategy	**Description**
9 VAC 5 Chapter 40, Article 42	Emissions Standards for Portable Fuel Container Spillage
9 VAC 5 Chapter 40, Article 47	Emissions Standards for Solvent Metal Cleaning Operations
9 VAC 5 Chapter 40, Article 48	Emissions Standards for Mobile Equipment Repair and Refinishing
9 VAC 5 Chapter 40, Article 49	Emissions Standards for Architectural and Industrial Maintenance
9 VAC 5 Chapter 40, Article 50	Emissions Standards for Consumer Products
9 VAC 5–40–300 of 9 VAC 5 Chapter 40, Article 4	General Process Operations - Standard for Volatile Organic Compounds (non-CTG RACT for major sources)
9 VAC 5–40–310 of 9 VAC 5 Chapter 40, Article 4	General Process Operations - Standard for Nitrogen Oxides (non-CTG RACT for major sources)

Schedule:

The Commonwealth will track the progress of the maintenance demonstration by periodically updating the emissions inventory.

The Commonwealth will develop and submit periodic (every three years) emission inventories prepared under EPA's consolidated Emission Reporting Regulation (40 CFR 51, subpart A), beginning in 2005.

The following schedule for adoption, implementation and compliance applies to the contingency measures concerning non-CTG RACT requirements. It would also apply to the imposition of the area source VOC regulations if those regulations had not already been implemented due to other triggers or provisions of the maintenance plan.

Notification received from EPA that a contingency measure must be implemented, or three months after a recorded violation.

Applicable regulation to be adopted 6 months after this date.

Applicable regulation to be implemented 6 months after adoption.

Compliance with regulation to be achieved within 12 months of adoption.

Emissions Inventory:

Total VOC Emissions for 2005-2018 (TPD)

Source Category	**2005 VOC emissions**	**2011 VOC emissions**	**2018 VOC emissions**
Point	20.091	23.280	26.700
Area [1]	91.980	100.960	112.790
Mobile [2]	50.591	37.846	27.574
Nonroad	42.320	33.912	31.315
Total	204.982	195.998	198.379

[1] Includes vehicle refueling emissions and the benefits of selected local controls (Stage I, CTG RACT, and open burning). Also includes site/project specific emissions estimates and projections.
[2] Includes transportation provisions.

Total NOx Emissions for 2005-2018 (TPD)

Source Category	**2005 NOx emissions**	**2011 NOx emissions**	**2018 NOx emissions**
Point	62.536	69.333	75.241
Area [1]	55.207	56.974	60.105
Mobile [2]	78.169	50.387	31.890

Nonroad	30.208	29.116	23.093
Total	226.120	205.810	190.329

[1] Includes selected local controls (open burning).
[2] Includes transportation provisions.

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