US ERA ARCHIVE DOCUMENT

The EARLY ACTION COMPACT

for

The Roanoke Metropolitan Statistical Area (MSA) in the Commonwealth of Virginia

(Cities of Roanoke and Salem, Counties of Roanoke and Botetourt, and Town of Vinton)

Submitted by the

Roanoke Area Metropolitan Planning Organization and the Respective Localities Listed Above

TABLE OF CONTENTS

1. Background

- The National Ozone Standards
- The 1-Hour Standard in Roanoke MSA, Virginia
- The 8-Hour Standard In Roanoke MSA, Virginia

2. Ozone Early Action program (OEAP)

- Protocol for OEAP
- The Program
- OEAP Versus Traditional Nonattainment
- OEAP Timeline
- The Area Encompassed By The OEAP
- Signatories And Their Responsibilities
- Conditions For Modification Or Early Termination

3. Early Action Compact

- General Provisions
- Local Government Responsibilities
- Milestones and Reporting
- Emissions Inventories
 - Initial modeling emissions inventory
 - Future year modeling emissions inventory
 - Further episode inventories
- 4. Modeling
- 5. Emission Reduction Strategies
- 6. Maintenance for Growth
- 7. Public Involvement
- 8. The Virginia Department on Environmental Quality
- 9. The Environmental Protection Agency

1. BACKGROUND

The National Ozone Standards

The Federal Clean Air Act is the comprehensive law that regulates airborne emissions from area, mobile, and stationary sources nationwide. This law authorizes the U.S. Environmental Protection Agency (EPA) to establish National Ambient Air Quality Standards (NAAQS) to protect public health and the environment. The EPA currently has two NAAQS for ozone, the 1-hour peak standard and 8-hour standard.

Areas formally declared in violation of the NAAQS and adjacent contributing areas are designated "nonattainment areas." Nonattainment areas must meet certain Clean Air Act requirements, such as:

- Transportation Conformity: Requires a demonstration that regional long range transportation plans will not negatively impact air quality or federal transportation funds can be withheld.
- **New Source Review:** Requires a review of new or expanded industrial operations to minimize air pollution.
- Rate of Progress Requirements: A certain percentage of pollutants must be reduced each year.
- 10-year Maintenance Plan: After attainment that includes additional or continuing mandatory programs.

Another requirement obligates the state to develop and implement a prescriptive comprehensive clean air plan that mandates how the area will come into compliance with the standard. This plan and any revisions to it are known as is incorporated the State Implementation Plan (SIP).

The 1-Hour Standard in the Roanoke Metropolitan Statistical Area (MSA)

An area must have a monitored hourly peak ozone concentration below 125 parts per billion (ppb) to meet the 1-hour ozone standard. If an area exceeds the standard more than three times in three years, it is subject to a nonattainment designation. Since 1990 the Roanoke Metropolitan Statistical Area (MSA) exceeded the 1-hour standard on two occasions in 1998; however, the Roanoke MSA remains in compliance for the 1-Hour Standard. The Roanoke MSA has one ozone monitor located in the Town of Vinton.

The 8-Hour Standard in the Roanoke Metropolitan Statistical Area (MSA)

During the past several years air quality planning in the Roanoke MSA has intensified as ozone concentrations in the Roanoke MSA have exceeded the value permitted by the 8-hour ozone NAAQS. Due to legal challenges to the NAAQS and ensuing litigation, EPA has not formally

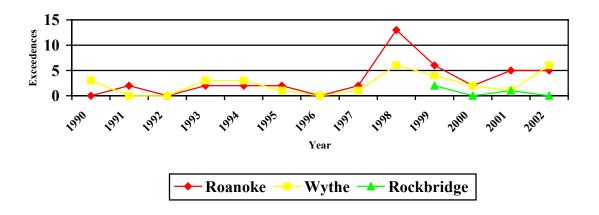
designated areas of the United States in violation of the 8-hour ozone NAAQS. The 8-hour NAAQS has been upheld and EPA anticipates nationwide designation of nonattainment areas by 2004. Based on recent monitoring data, it is probable that the Roanoke MSA will be designated a nonattainment area when formal designations occur.

The 8-hour ozone standard is found by averaging three years of the fourth highest 8-hour ozone levels in an area. This number, called the design value, must be lower than 85 parts per billion (ppb) to meet the standard. Currently, the Roanoke MSA design value (averaging 2000, 2001, and 2002) is 87 ppb. Each year this design value may vary. Data is available for the Roanoke MSA for the 8-hour ozone standard beginning in 1990. Ozone concentrations have exceeded the standard a total of 29 times during the period from 1990 to 2002. The number of exceedences recorded in Roanoke from 1990 to 2002 are shown below. Data from the monitors in Wythe and Rockbridge Counties are also shown for comparison purposes:

| Roanoke, VA (Vinton Monitor) | | | | | | | | | | | | |
|------------------------------|----------|---------|---------|---------|---------|---------|---------|----------|---------|---------|---------|---------|
| 90 0 | 91 2 | 92 0 | 93 2 | 94 2 | 95 2 | 96 0 | 97 2 | 98 13 | 99 6 | 00 2 | 01 5 | 02 5 |
| Wyth | e Coun | ty, VA | | | | | | | | | | |
| 90 3 | 91 0 | 92 0 | 93 3 | 94 3 | 95 1 | 96 0 | 97 1 | 98 6 | 99 4 | 00 2 | 01 1 | 02 6 |
| Rock | bridge (| County, | , VA | | | | | | | | | |
| 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 2 | 00 0 | 01 1 | 02 0 |

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8-Hour Ozone Exceedences (1990 to 2002)



In 2002, the Roanoke monitor recorded 8-hour exceedences on the following days:

- June 11 91 ppb
- July 17 94 ppb
- August 10 85 ppb
- August 11 92 ppb
- August 13 99 ppb

OZONE EARLY ACTION PROGRAM (OEAP)

The region is volunteering to put itself into the OEAP process to expedite air cleanup for future public health and welfare.

Protocol for OEAP

The OEAP was developed according to protocol endorsed by EPA Region 6 on June 19, 2002. The Protocol offers a more expeditious time line for achieving clean air than expected under EPA's 8-hour implementation rulemaking.

The principles of the OEAP to be executed by Local, State and EPA officials are:

- Early planning, implementation, and emission reductions leading to expeditious attainment and maintenance of the 8-hour ozone standard;
- Local control of the measures to be employed, with broad-based public input;
- State support to ensure technical integrity of the OEAP;
- Formal incorporation of the OEAP into the SIP;
- Deferral of the effective date of nonattainment designation and related requirements so long as all OEAP terms and milestones are met; and
- Safeguards to return areas to traditional SIP requirements should OEAP terms and/or milestones be unfulfilled, with appropriate credit given for emission reduction measures implemented.

The Roanoke MSA OEAP has two principal components:

- 1. The Early Action Compact (EAC) EAC is a Memorandum of Agreement to prepare and implement an Early Action Plan (EAP). More specifically, the EAC sets measurable milestones for developing and implementing the EAP.
- 2. The Early Action Plan (EAP) EAP serves as Roanoke MSA's official air quality improvement plan, with quantified emission-reduction measures. The EAP will include all necessary elements of a comprehensive air quality plan, (like the plans in Richmond, VA), but will be tailored to local needs and driven by local decisions. Moreover, the EAP will be incorporated into the formal SIP and the region will be legally required to carry

out this plan just as in nonattainment areas. For example, development of EAP will require the same scientific diligence and undergo the same scrutiny as the nonattainment areas' SIPs, so that the emission reduction strategies selected will be adequate to ensure the region stays in attainment of the 8-hour standard.

OEAP Versus Traditional Nonattainment

A major advantage of the region's participation in an OEAP is the flexibility afforded to the signatories in selecting emission reduction measures and programs that are best suited to local needs and circumstances. Recognizing the varied social and economic characteristics of the region, not all measures can or should be implemented by every entity.

The primary differences between OEAP and the traditional nonattainment area process are:

- The OEAP allows for more local control in selecting emission-reduction measures.
- The OEAP provides deferral of nonattainment designation and related requirements, as long as Plan requirements and milestones are met. This would prevent any related stigma associated with a nonattainment designation.
- The OEAP is designed to achieve clean air faster than under the traditional SIP process.
- Should any milestones be missed in designing or implementing the Plan, the area would automatically revert to the traditional SIP requirements, with appropriate credit given for emission reduction measures already implemented.

OEAP Timeline

The Roanoke MSA's OEAP is designed to enable a local, proactive approach to ensuring attainment of the 8-hour ozone NAAQS, and so protect human health. Using the OEAP approach, the region could begin implementing by 2005 emission-reduction measures directed at attaining the 8-hour standard. This allows for a significantly earlier start than waiting for formal EPA nonattainment designation and it gives more flexibility in choosing which emission reduction strategies to implement.

The Area Encompassed By The OEAP

The Roanoke MSA, which is comprised of the Cities of Roanoke and Salem, Counties of Roanoke and Botetourt and the Town of Vinton is the planning area for which the Early Action Compact is designed. After signing the initial compact, additional jurisdictions may be added upon request and mutual consent of all the signatory parties, due to expansion of the nonattainment area or other reasons.

Signatories And Their Responsibilities

The individuals representing the entities that will sign this Early Action Compact are elected officials from each jurisdiction, along with representatives from the United States Environmental Protection Agency (EPA) and the Virginia Department of Environmental Quality (VDEQ):

City of Roanoke Council Member, W. D. "Bill" Bestpitch (Chairman RVAMPO)

County of Roanoke Board of Supervisors Member, Joe McNamara (Vice – Chairman RVAMPO)

City of Salem Council Member, Howard Packett (MPO Member)

County of Botetourt Board of Supervisors Member, Wendy Wingo (MPO Member)

Town of Vinton Mayor, Don Davis (MPO Member)

Virginia DEQ Director, Robert Burnley

U.S. EPA Region III Regional Administrator or Designee

The local entities whose representatives support and sign the EAC are committed to holding primary responsibility for the development and implementation of the EAP, and for maintaining communication with all parties. These commitments by local agencies are enumerated in the following Memorandum of Agreement, along with the commitments of VDEQ and EPA. After signing the initial compact, additional jurisdictions may be added upon request and mutual consent of all the signatory parties.

Conditions For Modification Or Early Termination

This agreement may be modified at any time or terminated at any time by mutual consent of all signatory parties before formal incorporation into the SIP in 2004. Before 2004, any signatory party may withdraw from the agreement if the other signatory parties do not carry out provisions of the agreement. If a party's withdrawal from the agreement prevents the remaining signatories from satisfying any of the terms and milestones of the original agreement, the agreement will be void and the area's nonattainment designation immediately effective. Once the EAP is incorporated into the SIP, modification is considerably more difficult, as the SIP is a legally binding state and federal agreement to carry out specific emission-reduction activities.

Additional Terms of This Agreement

- 1. This agreement creates no cause of action against any party beyond those, if any, that may already exist under state or federal law. In addition, all parties agree that this agreement cannot be used against one another or by a third party as an enforceable order in any court proceedings. This agreement will be reviewed and modified as needed.
- 2. Each jurisdiction is required to discuss and formally approve and/or adopt the local emission reduction strategies included in the Early Action Plan prior to its formal submission to the state and federal agencies involved.

ROANOKE METROPOLITAN STATISTICAL AREA EARLY ACTION COMPACT

This EAC is between the local governments representing Cities of Roanoke and Salem, Counties of Roanoke and Botetourt and Town of Vinton (herein after referred to as the local governments), VDEQ and EPA. It is for the express purpose of developing and implementing a plan that will reduce ground-level ozone concentrations in the Roanoke Metropolitan Statistical Area (MSA) to comply with the 8-hour ozone standard by December 31, 2007 and maintain that standard until at least 2012. Failure to meet that obligation results in immediate reversion to the traditional nonattainment process.

General Provisions

- A. The signatory parties commit to develop, implement and maintain the Early Action Plan according to EPA Protocol for Early Action Compacts issued June 19, 2002 (supplemented per a letter dated October 18, 2002 from Gregg Cooke, Regional Administrator, EPA Region 6, to Robert Huston, Texas Commission of Air Quality), and adhere to all terms and conditions stated in the guidelines.
- B. If the region does not meet all the terms of the EAC, including meeting agreed-upon milestones, then it will forfeit its participation and deferred effective date of its nonattainment designation, thus having an effective nonattainment designation and becoming subject to EPA's 8-hour ozone nonattainment implementation rules.
- C. This agreement may be modified or terminated by mutual consent of all signatory parties.
- D. The signature date of the EAC is the start date of the agreement's term and the agreement remains in effect until December 31, 2007.

Local Government Responsibilities

The local governments agree to enter into a compact to develop and implement an EAP that will demonstrate attainment, by December 31, 2007, of the 8-hour ozone standard and continued maintenance of the standard until at least 2012. The Roanoke Valley-Alleghany Regional Commission (RVARC), in consultation with the local governments, will develop this plan in coordination with VDEQ, EPA, stakeholders and the public. In this regard, the local area holds the primary responsibility for the development and implementation of the plan, as well as for maintaining communication with all parties involved. Specific local commitments to the compact and plan are:

- 1. Drawing up the compact, which embodies the requirements for Early Action Compacts as outlined is Sections A to F of the protocol, including a timeline for milestones.
- 2. Completing and signing by all parties of the compact no later than December 31, 2002.

- 3. Identifying and describing local strategies being considered for inclusion in the Early Action Plan no later than June 16, 2003.
- 4. Selecting local control strategies no later than January 31, 2004. Each jurisdiction must consider and formally approve and/or adopt the controls that make up the local component of the Early Action before this date.
- 5. Submitting the final Early Action Plan to state and federal agencies no later than March 31, 2004.
- 6. Notifying parties as soon as possible of issues and developments, which may impact performance and progress towards milestones.
- 7. Notifying parties as soon as possible if Compact milestones will be missed or have been missed.
- 8. Notifying parties as soon as possible if Compact modification/termination is to be requested.

Milestones and Reporting

1. Milestones

| Table 1: Early Action Compact Milestones | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| · | | | | | | | | | |
| December 31, 2002 | Signed EAC (All parties) | | | | | | | | |
| May 31, 2003 | Initial Modeling Emissions Inventory Completed (VDEQ) | | | | | | | | |
| | Conceptual Model Completed (VDEQ) | | | | | | | | |
| | Base Case Modeling Completed (VDEQ) | | | | | | | | |
| June 16, 2003 | Identify and describe local strategies being considered for | | | | | | | | |
| | inclusion in the local clean air plan (Local Governments) | | | | | | | | |
| June 30, 2003 | Semi-annual status reports to begin (RVARC, VDEQ) | | | | | | | | |
| October 31, 2003 | Future Year Emissions Inventory Modeling Completed (VDEQ) | | | | | | | | |
| | Emissions trend comparison and analysis completed (VDEQ) | | | | | | | | |
| | Future Case Modeling Completed (VDEQ) | | | | | | | | |
| January 31, 2004 | Attainment Maintenance Analysis Completed (VDEQ) | | | | | | | | |
| | One or more modeled control cases completed (VDEQ) | | | | | | | | |
| | Local emission reduction strategies selected (Local Governments) | | | | | | | | |
| | Submission of preliminary EAP to VDEQ and EPA (Local | | | | | | | | |
| | Governments) | | | | | | | | |
| March 31, 2004 | Final Revisions to Modeled Control Cases Completed (VDEQ) | | | | | | | | |
| | Final Revisions to Local Control Strategies Completed (VDEQ) | | | | | | | | |
| | Final Revisions to Attainment Maintenance Analysis Completed | | | | | | | | |
| | (VDEQ) | | | | | | | | |
| | Submission of final EAP to VDEQ and EPA (Local | | | | | | | | |
| | Governments) | | | | | | | | |
| December 31, 2004 | Early Action Clean Air Plan Adopted and Incorporated into the | | | | | | | | |
| , | SIP and submitted to EPA (VDEQ) | | | | | | | | |
| December 31, 2005 | Local Control Strategies Implemented No Later Than This Date | | | | | | | | |
| · | (Implementing Agency) | | | | | | | | |
| June 30, 2006 | Semi-annual status reports on implementation of measures and | | | | | | | | |
| | assessment of air quality improvement begin on this date | | | | | | | | |
| | (RVARC, VDEQ) | | | | | | | | |

2. Reporting

In order to facilitate self-evaluation and communication with EPA, VDEQ, stakeholders, and the public, the region will assess and report progress towards milestones in a regular, public process, at least every six months, beginning with a biannual in June 2003.

Emissions Inventories

- 1. An **initial modeling emissions inventory** will be developed by **May 31, 2003.** This inventory will include:
 - a. Emissions modeling data for a 1996, 1997, or 1999 (or later) episode, which will be representative of a typical ozone season event and meets EPA episode selection guidance;
 - b. MOBILE6 data with link based Travel Demand Model (TDM) mobile data where available;
 - c. NONROAD model data adjusted for local equipment populations and usage rates (if available);
 - d. Area source data using best activity data available.
- 2. A 2007 **future year modeling emissions inventory** will be developed by **October 31, 2003.** This inventory will include projected future growth in ozone precursor emissions through 2007, particularly from stationary, non-road and onroad mobile sources.
- 3. Selection of specific episode inventories was partially determined by the conceptual model, which reflects an analysis of meteorological conditions typical of high ozone events. The conceptual model will be updated by **May 31, 2003.**
- 4. Emissions inventories will be compared and analyzed for trends in emission sources over time. The emissions inventory comparison and analysis will be completed by May 31, 2003.

Modeling

1. Regional photochemical modeling will be performed to provide a demonstration of attainment of the ozone standard through the local, state, and regional control strategies included in the EAP. Base case modeling will be completed by May 31, 2003 and future case modeling will be completed by October 31, 2003. One or more modeled control cases will be completed by January 31, 2004 with final revisions completed by March 31, 2004. All modeling:

- a. Will be SIP quality and perform within EPA's accepted margin of accuracy;
- b. Will be carefully documented;
- c. Will sufficiently account for projected future growth in ozone precursor emissions;
- d. Will be accomplished by VDEQ and reviewed by EPA;
- d. Will be used to determine the effectiveness of NOx and/or VOC reductions. The control case(s) will be used to determine the relative effectiveness of different emission reduction strategies and to aid in the selection of appropriate emission reduction strategies.

In addition, all modeling will be based on, to the extent possible, the "Draft Guidance on the Use of Models and Other analyses in Attainment Demonstrations for the 8-hour Ozone NAAQS" (EPA-454/R-99-004, May 1999). This modeling will follow this guidance as negotiated and agreed to with the EPA Regional Office. Any deviations from this guidance and the resulting modeling with be identified and reconciled with the draft guidance. Data availability issues may limit this reconciliation.

Emission Reduction Strategies

- 1. All adopted Federal and State controls that have been or will be implemented by the December 31, 2007 attainment date will be included in base, future and control case modeling.
- 2. Additional local emission reduction strategies that are under consideration will be identified and described by June 16, 2003. Any additional strategies needed to demonstrate attainment for the Roanoke MSA will then be selected by January 31, 2004, with final revisions completed by March 31, 2004. The selected strategies will be implemented as soon as practical, but no later than December 31, 2005.
- 3. Local emission reduction strategies will be specific, quantified, permanent and enforceable. Local controls will also include specific implementation dates and detailed documentation and reporting processes.
- 4. Voluntary measures can play a supporting role in the EAP. If emission reductions from voluntary emission reductions are quantified and credit is taken for them in the EAP, those emission reductions will be enforceable. Additional strategies must be implemented to meet those quantified reduction requirements if quantified voluntary measures fail. This is true for all quantified emission reductions.

- 5. Local emission reduction strategies will be designed and implemented by the community with stakeholder participation.
- 6. Local emission reduction strategies will be incorporated by the state into the SIP. In the event that the region desires to add, delete or substitute strategies after SIP submittal, EAP modifications will be treated as SIP revisions and facilitated by the state.

Maintenance for Growth

- 1. The EAP will include a component to address emissions growth at least five years beyond December 31, 2007, ensuring that the area will remain in attainment of the 8-hour standard during that period. Attainment maintenance analysis will be completed by January 31, 2004, with final revisions completed by March 31, 2004. The analysis will employ one or more of the following or any other appropriate techniques necessary to make such a demonstration:
 - Attainment emissions budget evaluation for maintenance demonstration year showing that future emissions remain below the attainment budget for the area;
 - Modeling analysis showing ozone levels below the 8-hour standard in 2012;
 - An annual review of growth (especially mobile and stationary source) to ensure emission reduction strategies and growth assumptions are adequate;
 - Identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates.
- 2. A continuing planning process that includes modeling updates and modeling assumption verification (particularly growth assumptions) will be conducted concurrent with the tracking and reporting process for the EAP. This update and verification will be an ongoing process between the signatories, stakeholders and the public. Modeling updates and planning processes must consider and evaluate:
 - o All relevant actual new point sources;
 - o Impacts from potential new source growth; and
 - Future transportation patterns and their impact on air quality in a manner that is consistent with the most current adopted Long Range Transportation Plan and most current trend and projections of local motor vehicle emissions.
 - 3. If the review of emissions growth demonstrates that adopted emission reduction strategies are inadequate to address growth in emissions, additional

measures will be added to the EAP.

4. In the event that the continuing planning process identifies the need to add, delete, or substitute emission reduction strategies after the Plan has been incorporated into the SIP, the local area will initiate, and VDEQ will facilitate a SIP revision to accommodate changes.

Public Involvement

- 1. Public involvement will be conducted in all stages of planning by one or more of the following, or other appropriate party: Roanoke Valley-Alleghany Regional Commission (RVARC), the Roanoke Area Metropolitan Planning Organization (RVAMPO) and the Virginia Department of Environmental Quality (VDEQ). Outreach may include one more of the following techniques: public meetings and presentations, stakeholder meetings, websites, print advertising and radio.
- 2. Public education programs will be used to raise awareness regarding issues, opportunities for involvement in the planning process, implementation of emission reduction strategies, and any other issues important to the area.
- 3. Interested stakeholders will be involved in the planning process as early as possible. Planning meetings will be open to the public, with posted meeting times and locations. Plan drafts will be publicly available, and the drafting process will have sufficient opportunities for comment from all interested stakeholders.
- 4. Public comment on the proposed final plan will follow the normal SIP revision process as implemented by the State.
- 5. Semi-annual reports detailing, at a minimum, progress toward milestones, will be publicly presented and publicly available.

The Virginia Department of Environmental Quality

The state, represented by VDEQ, will provide support to areas throughout the planning and implementation process, including:

- 1. Development of emission inventories, modeling process, trend analysis and quantification and comparison of emission reduction strategies;
- 2. Necessary information on all Federal and State adopted emission reduction measures, which affect the area;
- 3. Critical third party review of emissions inventory, modeling, and self-evaluation work;

- 4. Technical and strategic assistance, as appropriate, in the selection and implementation of emission reduction strategies;
- 5. Technical and planning assistance in developing and implementing processes to address the impact of emissions growth beyond the attainment date;
- 6. Maintenance of monitors and reporting and analysis of monitoring data;
- 7. Support for public education efforts;
- 8. Coordinate communication between local areas and EPA to facilitate continuing EPA review of local work;
- 9. Expeditious review of the locally developed plan, and if deemed adequate, propose modification of the SIP to adopt the early action plan;
- 10. Adoption of emission reduction strategies into the SIP as expeditiously as possible. The final complete SIP revision must be completed, adopted, and submitted by the state to EPA by 2004. The SIP revision will include a demonstration that the area will attain the 8-hour standard by December 31, 2007.
- 11. If EPA withdraws the deferred effective date, thereby triggering a nonattainment designation and applicable statutory requirements, the State will submit a nonattainment SIP to EPA within 1 year of the new effective date of the nonattainment designation.

The Environmental Protection Agency

- 1. The EPA will provide technical assistance to the state and local area in the development of the early action plan.
- 2. The EPA will move quickly to review and approve completed plans by no later than nine months after submission of the SIP revision by the state.
- 3. At the time of designations, EPA will defer the effective date of nonattainment designation and related requirements for participating areas that fail to meet the 8-hour ozone standard as long as all terms and milestones of the EAC are being met, including submission of the early action SIP revision by 2004.
- 4. Provided that the monitor(s) in the area reflect attainment by December 31, 2007, EPA will move expeditiously to designate the area as attainment and impose no additional

requirements.

- 5. If at any time the area does not meet all the terms of this EAC, including meeting agreed-upon milestones, then it will forfeit its participation and its nonattainment designation (or redesignation if necessary) will become effective after EPA withdraws the deferred date.
- 6. If the area violates the standard as of December 31, 2007, and the area has had a nonattainment designation deferred, the area will be designated nonattainment. EPA will take action to withdraw the deferred effective date, and the area's nonattainment designation will become effective.
- 7. No area will be allowed to renew their Early Action Compact after December 31, 2007, or initiate a new compact if it has previously forfeited its participation.

Signatures,

W. D. "Bill" Bestpitch, Council Member, City of Roanoke,

Chairman RVAMPO

Howard Packett,

Council Member, City of Salem

Date: 12-16-62

Don Davis,

Mayor, Town of Vinton

Date: 12-16-02

Joseph McNamara,

Member, Board of Supervisors

County of Roanoke

Vice-Chairman RVAMPO

Date: Nec. 16.

Wendy Wingo,

Member, Board of Supervisors

County of Botetourt

Robert Burnley,

Director, Virginia DEQ