STATE OF TENNESSEE
**DEPARTMENT OF ENVIRONMENT AND CONSERVATION**
**Air Pollution Control Division**
**9th Floor, L & C Annex, 401 Church Street, Nashville, TN 37243**

June 12, 2003

Kay T. Prince, Chief of Air Planning Branch
US EPA, Region IV
Atlanta Federal Center, 12th Floor
61 Forsyth Street, SW
Atlanta, GA 30303

RE: Submittal of "Likely" Control Measures for Early Action Compact Areas

Dear Ms. Prince:

In accordance with the Early Action Compact (EAC) agreement, you will find enclosed the "likely" list of control measures for each of the EAC areas in Tennessee. This is being submitted on behalf of each EAC area to comply with the June 16, 2003 milestone. Each compact area has selected control measures for their county, which are being considered as a means to achieve the 8-hour ozone standard by 2007.

The following information is enclosed:

- Executive Summary
- EPA - Checklist of June 16, 2003, Control Measures List
- Table 1 - Summary of likely EAC Control Measures by county with chosen control measures
- Table 2 - List of Control Measures with ID assigned to interpret Table 1
- Table 3 - List of likely Statewide Control Measures being considered
- Tennessee Map - Showing 8 hour ozone design values by MSA for 2000-2002
- Copy of the April 14, 2003, Memorandum from Lydia N. Wegman
- Likely Control Measures List and the signatory pages for the Chattanooga area, Haywood County, Knoxville area, Memphis area, Nashville area, Putnam County and the Tri-Cities area. Lawrence County submitted a request to opt out of the EAC.

I believe this submittal satisfies all requirements of the June 16th EAC milestone, but if more information is needed do not hesitate to contact me.

Sincerely,

Barry R. Stephens, P.E.
Director
Division of Air Pollution Control

cc: Karen Borel & Dick Schutt, EPA, Region IV
Local Air Programs
Tennessee Air Pollution Control Board
EAC Signatories

# EXECUTIVE SUMMARY

Enclosed please find the necessary documentation to the meet the Ozone Early Action Compact (EAC) deadline for submittal of Likely Control Measures for Tennessee due June 16, 2003. This documentation meets the guidance provided in the letter signed by Lydia N. Wegman sent to appropriate Regional Administrators and Air Directors dated April 4, 2003 (enclosed for reference). The following describes the remaining contents of this submittal.

1. First find the June 16, 2003, EPA Control Measures Checklist.

2. Table 1 is a summary of the Likely Control Measures (LCM) chosen from a prepared list and submitted by each EAC. The table is arranged first by EAC, then by county within each EAC. The fourth column lists the chosen control measures for each county by a numeric ID. This ID identifies each of the control measures listed in Table 2 described next.

3. Table 2 is a slight modification of a list of LCM originally prepared by Dr. Wayne Davis, University of Tennessee, Knoxville, and the Nashville / Davidson County Air Program. This list was sent to all EACs to serve as a starting point for discussions and deliberations, and was specially targeted toward the rural counties. This table provides a brief description of each control measure along with other important information to assist the deliberative process. Each control measure is assigned a unique ID, and it is this ID that is listed in column four of Table 1. Please note that in some cases a reference is made in column four of Table 1 to an attachment. This was necessary when the submitting entity significantly modified or customized the original LCM list, or added additional control measures. Each EAC was encouraged to submit additional control measures tailored to their specific needs. The attached lists are found along with other documentation for each EAC in the tabbed sections of this binder described below.

4. Table 3 summarizes the Control Measures being considered for statewide implementation in Tennessee. Please note that regulatory development is currently underway.

5. Next comes a map of Tennessee detailing the 8-hour 2000-2002 ozone design values and Metropolitan Statistical Areas (MSA and CMSA). Also included is the Lydia Wegman letter dated April 4, 2003 referenced above.

6. Finally, find a tabbed section for each EAC. These sections contain transmittal letters, signature pages, and the LCM lists, some of which may be referenced in column four of Table 1 as discussed above.

**Review Checklist for June 16, 2003, Control Measures List**

1. **Did the Early Action Compact area submit an identification and description of control measures being considered by the local area? YES**

2. **Was this list of controls submitted (postmarked or emailed) no later than June 16, 2003? YES**

3. **What date was the list of controls submitted?**
   **Submitted to EPA June 12, 2003**

4. **Who submitted the list of controls?**
   **Barry R. Stephens, P.E.**
   **Director, Division of Air Pollution Control**

5. **Does it appear that the control measures contained in the June 16 list of controls can be implemented in this specific EAC area? YES**

6. **Does it appear reasonable that the list of controls can be implemented within the time frame of the EAC, i.e., no later than 2005? YES**

# Table 1
# Tennessee Likely EAC Control Measure Summary Table

| | EAC | TN County | Chosen Control Measures By ID |
|---|---|---|---|
| | | | |
| 1. | Chattanooga | Hamilton | 3, 4, 5, 7, 8, 9, 10, 15, 16, 17, 21, 22, 23, & items 2, 3, 8 from custom list |
| 2. | | Marion | 3, 4, 5, 7, 8, 9, 10, 15, 16, 17, 21, 22, 23, & items 2, 3, 8 from custom list |
| 3. | | Meigs | 3, 4, 6, 8, 9, 10, 11, 14, 16, 18, 19, 20, 21, 22, 23 |
| 4. | Haywood | Haywood | 3, 14, 15, 16, 20, 23, 25, 26, & item 9 in attached list |
| 5. | Knoxville | Anderson | Control Measures 1-27 |
| 6. | | Blount | Control Measures 1-27 |
| 7. | | Jefferson | 3, 7, 8, 12, 14, 15, 19, 22, 23, 25, 26 |
| 8. | | Knox | Control Measures 1-27 |
| 9. | | Loudon | Control Measures 1-27 |
| 10. | | Sevier | Control Measures 1-27 |
| 11. | | Union | Control Measures 1-27 |
| 12. | Lawrence | Lawrence | Opting out |
| 13. | Memphis | Fayette | 2, 4, 8, 9, 12, 15, 16, 17, 19, 21, 26, 27, & item 8 on attached list |
| 14. | | Shelby | See attached list of custom measures and descriptions for county |
| 15. | | Tipton | 2, 4, 8, 9, 12, 15, 16, 17, 19, 21, 26, 27, & item 8 on attached list |
| 16. | Nashville | Cheatham | 12, 16, 19, 25 |
| 17. | | Davidson | See attached list of custom measures and descriptions for county |
| 18. | | Dickson | Control Measures 1-27 |
| 19. | | Robertson | 5, 8, 10, 14, 16, 17, 19, 25. See also items 5, 6 on attached list. |
| 20. | | Rutherford | See attached list of custom measures and descriptions for county |
| 21. | | Sumner | 1, 2, 4, 5, 6, 9, 11, 14, 15, 16, 17, 19, 20, 22, 23, & see items 15, 16, 20 from county custom list. See also custom lists for Hendersonville, Millersville, White House |
| 22. | | Williamson | Control Measures 1-27 |
| 23. | | Wilson | 1, 2, 3, 5, 6, 7, 12, 13, 15, 16, 18, 20, 22, 26, & item 15 from attached list |
| 24. | Putnam | Putnam | 1, 5, 6, 10, 12, 14, 15, 16, 17, 25, 26, 27, & item 2 on attached list |
| 25. | Tri-Cities | Carter | See attached custom list for entire EAC |
| 26. | | Hawkins | |
| 27. | | Johnson | |
| 28. | | Sullivan | |
| 29. | | Unicoi | |
| 30. | | Washington | |

# TABLE 2
# LIST OF LIKELY TENNESSEE EAC CONTROL MEASURES

| ID | Source Category | Control Measure Description | Pollutant Reduced | S=Stationary M=Mobile C=Combination | R=Regulatory V=Voluntary | L=Local S=State wide |
|---|---|---|---|---|---|---|
| 1 | Mobile LDGV, HDGV | Support evaluation of an IM program EAC-wide or Statewide | NOx,VOC, CO | M | R | L and/or S |
| 2 | Mobile LDV | Free gas cap replacement program (in conjunction with IM) | VOC | M | R | L and/or S |
| 3 | Mobile | Local governments investigate installation of fuel infrastructure and conversion of local government fleets to alternative fueled vehicles | NOx, VOC, CO | M | R, V | L |
| 4 | Gasoline refueling stations | Implement or expand Stage I and or Stage II in all MSA counties | VOC | S | R | L and/or S |
| 5 | Stationary NOx sources | Support statewide NOx RACT Low NOx combustion controls | NOx | S | R | L and/or S |
| 6 | On-road HDDV and Buses | Encourage accelerated replacement with newer lower emitting vehicles | NOx, VOC,CO | M | V | L and/or S |
| 7 | On and Off Road Diesel Vehicles | Retrofitting local government vehicles (diesel fleets including school buses) | NOx, VOC, CO | M | R, V | |
| 8 | On and Off Road Diesel Vehicles | Encourage accelerated replacement with newer lower emitting vehicles | NOx, VOC,CO | M | V | L and/or S |
| 9 | On and Off Road Diesel Vehicles | Encourage use of catalysts and low sulfur diesel | NOx | M | V | L and/or S |

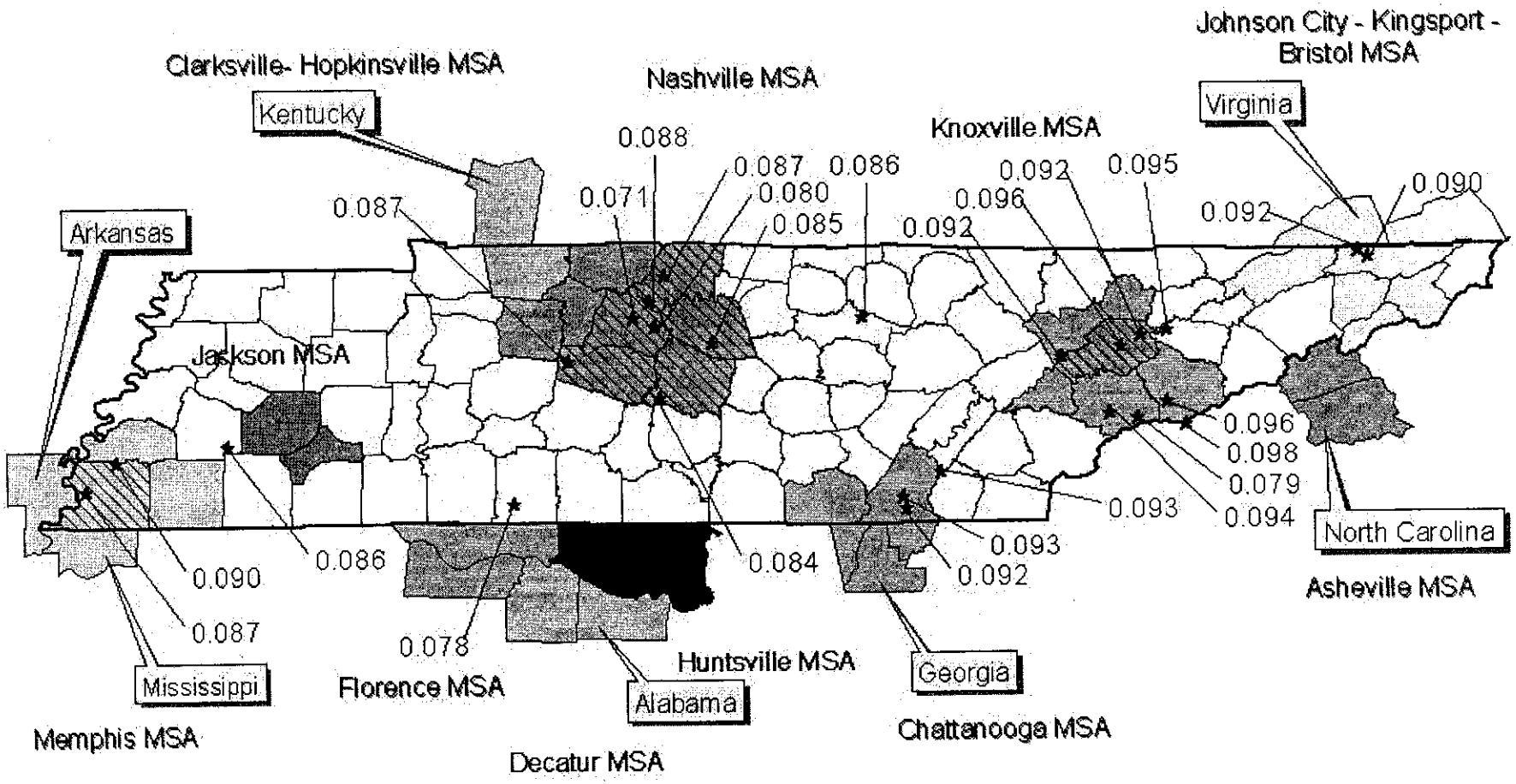
| ID | Source Category | Control Measure Description | Pollutant Reduced | S=Stationary M=Mobile C=Combination | R=Regulatory V=Voluntary | L=Local S=State wide |
|---|---|---|---|---|---|---|
| 10 | On and Off Road Diesel Vehicles | Support the use of Cetane diesel fuel additive | NOx | M | R | L and/or S |
| 11 | Fleet Vehicles | Propose accelerated replacement with newer lower emitting vehicles or with vehicles using cleaner fuels | NOx, VOC,CO | M | V | L and/or S |
| 12 | On-road vehicles | Traffic signalization/synchronization | NOx, VOC,CO | M | V | L |
| 13 | On-road vehicles | Roadside assistance/Incident management program | NOx, VOC,CO | M | V | L |
| 14 | HDDV and buses | Truck stop electrification/Anti-idling regulation | NOx, VOC,CO | M | V/R | L |
| 15 | All categories | Air Quality Action Day (AQAD) | NOx, VOC,CO | C | V | L and/or S |
| 16 | Open burning | Open burning ban--perhaps on ozone action days | NOx, VOC,CO | S | R | L |
| 17 | On-road HDDV trucks | Support reducing speed limit on ozone action days (or for the ozone season) | NOx | M | V | L and/or S |
| 18 | On-road vehicles | Transportation management plan for large employers | NOx, VOC,CO | M | V | L |
| 19 | On-road vehicles | Area wide rideshare incentives | NOx, VOC,CO | M | V | L |

| ID | Source Category | Control Measure Description | Pollutant Reduced | S=Stationary M=Mobile C=Combination | R=Regulatory V=Voluntary | L=Local S=State wide |
|---|---|---|---|---|---|---|
| 20 | On-road vehicles | Support the enforcement of the smoking vehicle reg. similar to Davidson County to remove gross emitters from road | NOx, VOC,CO | M | R | L and/or S |
| 21 | All gasoline engines | Support lower gasoline RVP | VOC | M | R | S |
| 22 | All diesel engines | Participate in a regional initiative to seek early introduction of ultra-low sulfur diesel fuel | NOX, VOC, CO | M | R, V | L or S |
| 23 | TDOT | Support giving preference to bidders on state jobs with repowered, rebuilt or refueled diesel equipment | NOx, VOC,CO | M | R | S |
| 24 | Trip Reductions | Employer-based trip reduction plans | NOx, VOC, CO | M | V | L and/or S |
| 25 | All | Student outreach through education systems; educate future drivers on the impact of motor vehicles on the environment | NOx, VOC, CO | M | V | L |
| 26 | All | Public education at community events | NOx, VOC, CO | C | V | L |
| 27 | All | Air quality web page/public information | NOx, VOC, CO | C | V | L |
| | **OTHERS---** | | | | | |

# TABLE 3
# LIST OF LIKELY TENNESSEE EAC CONTROL MEASURES BEING CONSIDERED FOR STATEWIDE IMPLEMENTATION (REGULATORY DEVELOPMENT UNDERWAY)

| ID | Source Category | Control Measure Description | Pollutant Reduced | S=Stationary M=Mobile C=Combination | R=Regulatory V=Voluntary | L=Local S=State wide |
|---|---|---|---|---|---|---|
| 1 | Mobile | Expanding scope of IM program to include heavier weight vehicles (up to 10,000 GVWR) in Middle Tennessee only | NOx, VOC, CO | M | R | S and/or L |
| 5 | Stationary & Mobile NOx sources | Drafting statewide NOx RACT Rule -The rule is for NOx generating sources and facilities. The target is 50 TPY. It will require a RACT determination or verification of non-applicability. | NOx | S & M | R | S and/or L |
| 10 | On and Off Road Diesel Vehicles | Support the use of Cetane diesel fuel additive | NOx | M | R | S and/or L |
| 14 | HDDV and buses | Drafting statewide Anti-idling rule | NOx, VOC, CO | M | R | S and/or L |
| 20 | On-road vehicles | Drafting smoking vehicle reg. similar to Davidson County to remove gross emitters from road | NOx, VOC, CO | M | R | S and/or L |
| | **Other** | | | | | |
| | On-road vehicles | Drafting statewide vehicle Anti-tampering rule | NOx, VOC, CO | M | R | S and/or L |
| | | | | | | |

# Tennessee 8 Hour Ozone
# Design Values By MSA 2000 - 2002




Notes:
Design values in parts per million.
Old 1-hr nonattainment areas in hatched areas.
A county with a design value greater than or equal to 0.085 ppm is violating the standard.

★ **Monitoring Sites With an 8 Hr Ozone DV**

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
RESEARCH TRIANGLE PARK, NC 27711

APR 04 2003

OFFICE OF
AIR QUALITY PLANNING
AND STANDARDS

MEMORANDUM

SUBJECT: Early Action Compacts (EACs): The June 16, 2003 Submission and Other Clarifications

FROM: Lydia N. Wegman, Director
Air Quality Strategies and Standards Division

TO: Air Directors, Regions III, IV, VI, and VIII

This memorandum responds to questions from States and local EAC areas about what needs to be included in the milestone submittals and semiannual reports due June and December 2003. As we have stated before, completion of each of the critical milestones and schedules as described in the "Protocol for Early Action Compacts Designed to Achieve and Maintain the 8-hour Ozone Standard" ("Protocol"), revised November 2002, and the November 14, 2002 memorandum from Jeffrey Holmstead to EPA Regional Administrators is essential if areas are to remain eligible for participation in the EAC program. To ensure that the 2003 submissions and subsequent milestones will be met, we are issuing this memorandum (1) to provide State and local air pollution control agencies some general guidelines to assist them in completing the June 16, 2003 submission; (2) to clarify what should be included in the semiannual reports due in June and December 2003; and (3) to clarify several technical requirements of the program to ensure that the attainment demonstrations being developed in conjunction with the local air quality plans are representative of current information and conditions.

1. June 16, 2003 Submission

The Protocol and the November 14, 2002 Holmstead memorandum require EAC areas to identify and describe the local control measures that will be considered during the local planning process. This June 16, 2003 milestone must be met to maintain eligibility in the EAC program. This submission can be referenced in the June 2003 progress report, as described in the Section 2 of this memorandum.

We recommend that EAC areas, based on stakeholder consultation, submit by June 16, 2003 a list of candidate local control measures that is sufficient to ensure a control strategy can be developed to achieve attainment of the 8-hour ozone standard by 2007. As provided in the Protocol, areas should describe each of the local control measures under consideration.

As EAC areas prepare and subsequently analyze the June 2003 list of local measures, we advise the participants to work with stakeholders to consider carefully each of the following components needed to develop an attainment strategy:

- Local control measures that can reasonably be implemented in each area. Among the factors to consider are the resource and political constraints of that specific area;

- Realistic implementation dates for the control measures;

- The range of potential emissions reductions that will result from each control measure based on reasonably available information. (In accordance with the Protocol, these local measures must be specific, quantified, and permanent, and that if approved by EPA, will be federally enforceable SIP revisions.) A list of resources containing emissions reduction estimates for specific measures can be found in the attachment to this memorandum; and

- The geographic area to which control measures could be applied.

Any public comments received in response to the June 16, 2003 submissions will be posted on EPA's EAC website at: http://www.epa.gov/ttn/naaqs/ozone/eac/ .

2. June 30, 2003 Progress Report

The Protocol requires local areas to assess and report every 6 months their progress against milestones in a regular, public process. At a minimum, the June 2003 progress report should do the following:

- Document progress in developing the stakeholder process, including the roles and responsibilities of various stakeholder groups, a list of stakeholders, and a brief summary of stakeholder meetings;

- Report progress on evaluating and selecting emission reduction measures for the local control strategy, including stakeholder involvement in the development of the initial list of control measures (The June 2003 progress report can reference the June 16, 2003 submission discussed above.);

- Describe public outreach activities (press coverage, public presentations, websites, etc.); and

- Provide an update on modeling/technical planning activities.

3. December 31, 2003 Progress Report

As part of the December 2003 progress report, EAC areas should address in detail each of the bulleted components discussed in section 1 above. This progress report will be an important element in EPA's consideration of whether or not to grant a deferral of the effective date of the nonattainment designation at the time of final designations in April 2004. More specifically, the progress report should address:

- A list of control measures still under consideration for adoption by the local area as part of the March 2004 submission;
- Likely implementation dates for the local control measures that are under consideration;
- Current assessment of the amount of emissions reductions expected to be achieved through implementation of the local control measures; and
- The geographical area in which each control measure is anticipated to apply.

4. Attainment Demonstration

As State and local agencies move forward to develop the modeling and other technical analyses in support of attainment demonstrations for EAC areas, they have asked EPA for clarification of the modeling guidance and its application to EAC areas. As modeling demonstrations will become part of the enforceable SIP, State and local agencies should do the following:

- Follow the most recent OAQPS modeling guidance ("Draft Guidance on the Use of Models and Other Analyses in Attainment Demonstrations for the 8-hour Ozone NAAQS," May 1999, EPA-454/R-99-004); see: http://www.epa.gov/scram001/guidance/guide/drafto3.pdf ;
- Model most current emissions inventory, preferably 2002; however, if 2002 is not available, use of a 1999 or later inventory for EAC modeling is acceptable;
- Base 2007 projections on 1999 emissions inventory or later;
- Use MOBILE6 in both the current and future inventories;
- Select episodes that are representative of the area's ozone problem;
- Use appropriate assumptions and emissions analysis techniques in quantifying emissions reductions.

Please advise your States that any deviations from the above guidance need to be reviewed by and coordinated with the EPA Regional Office. For additional clarification of these and other technical requirements, State and local agencies should refer to questions and answers related to EAC modeling issues at: http://www.epa.gov/scram001/guidance/guide/eac-ozone.pdf. This document, which will be updated periodically with additional questions as necessary, provides clarification of the current modeling guidance and its application to EAC areas.

I hope this information will be helpful to you and EAC areas as they move forward to meet the swiftly-approaching milestone and semiannual reports for this year.

Any questions related to EAC policy issues should be directed to David Cole at 919/541-5565, while questions related to EAC modeling and attainment demonstration issues should be directed to Ellen Baldridge at 919/541-5684.

cc: Air Directors, Regions I, II, V, VII, IX, X
Margo Oge, OTAQ
Steve Page, OAQPS
Peter Tsirigotis, OAQPS
Joe Tikvart, OAQPS
G.T. Helms, OAQPS
Jan Tierney, OGC

## ATTACHMENT

**Resources for Identification of Control Strategies, Emission Reduction Estimates and Emission Inventories**

| URL | Downloadable Document(s) and Websites |
|---|---|
| www.epa.gov/otaq/transp/costemis.pdf | "Summary Review of Costs and Emission Reductions for 24 CMAQ Projects" (September 1999) |
| www.epa.gov/otaq/transp/publicat/pub_volu.htm | "Quantification of Episodic Control Programs" (EPA420-R-97-0061, April 1997) |
| http://www.epa.gov/oms/transp/comchoic/sipguide.pdf | "Index of Transportation Measure Quantification Efforts: Methodology Matrix" (EPA420-R-98-018, September 1998) |
| http://www.epa.gov/oms/transp/comchoic/sipguide.pdf | "State Implementation Plan Development Guidance: Using Emission Reductions from Commuter Choice Programs to Meet Clean Air Act Requirements" (EPA420-R-98-007, December 1998) |
| www.epa.gov/otaq/transp/publicat/pub_tcms.htm | "Benefit Estimates for selected TCM Programs" (EPA420-R-98-002, July 1999) |
| www.epa.gov/otaq/transp/publicat/pub_tech.htm | Transportation and Air Quality ACM Technical Overviews. These documents provide overviews of individual TCMs, discussing their advantages, disadvantages, and issues involved in their implementation. Topics: *Accelerated Retirement of Vehicles, Bicycle and Pedestrian Programs, Commute Alternative Incentives, Congestion Pricing, Guaranteed Ride Home, High Occupancy Vehicle Lanes, Intelligent Transportation Systems, Parking Management, Parking Pricing, Improved Public Transit, Telecommuting, Traffic Flow Improvements, Trip Reduction Ordinances, Work Schedule Changes* |

| | |
|---|---|
| www.epa.gov/otaq/transp/publicat/pub_mrkt.htm | "Opportunities to Improve Air Quality Through Transportation Pricing Programs" (EPA420-R-97-004, July 1997) |
| http://www.epa.gov/otaq/transp/publicat/pub_pedo.htm | "TDM Case Studies and Commuter Testimonials" (August, 1997) Successful transportation demand management programs are described in 19 case studies. |
| http://www.epa.gov/dced/pdf/comparing_methodologies.pdf | "Comparing Methodologies to Assess Transportation and Air Quality Impacts of Brownfields and Infill Development" (EPA-231-R-01-001, August 2001) |
| PDF file will be made available on EAC website at:http://www.epa.gov/ttn/naaqs/ozone/eac/ | "Methodologies for Estimating Emission and Travel Activity Effects of TCMs" (EPA-420-R-94-002, July 1994) |
| http://www.epa.gov/ttn/chief/ | Clearinghouse for Inventories and Emission Factors, including a new draft of an update to the 1999 National Emission Inventory (March 11, 2003) |
| PDF file will be made available on EAC website at:http://www.epa.gov/ttn/naaqs/ozone/eac/ | "Meeting the 15-Percent Rate-of-Progress Requirement Under the Clean Air Act: A Menu of Options," STAPPA/ALAPCO, September 1993. |
| PDF file will be made available on EAC website at:http://www.epa.gov/ttn/naaqs/ozone/eac/ | "Controlling Nitrogen Oxides Under the Clean Air Act: A Menu of Options," STAPPA/ALAPCO, July 1994. |
| PDF file will be made available on EAC website at:http://www.epa.gov/ttn/naaqs/ozone/eac/ | "Serious and Severe Ozone Nonattainment Areas: Information on Emissions, Control Measures Adopted or Planned and Other Available Control Measures," November 24, 1999. |
| http://www.epa.gov/otaq/voluntary.htm | EPA Website: Transportation and Air Quality Voluntary Programs, including Green Vehicle Guide, Voluntary Diesel Retrofit Program, and Commuter Choice Leadership Initiative, U.S. EPA (updated January 10, 2003) |

| | |
|---|---|
| http://www.epa.gov/otaq/transp/traqdata.htm | EPA Website: Transportation and Air Quality Planning, Clearinghouse and Databases. Includes Survey of Episodic Control Programs, Market Incentives Resource Center for Air Quality Programs, Smart Travel Resource Center, Transportation-related Grants Database, and Transportation Control Measures Program Information Directory (updated June 28, 2002) |
| http://www.epa.gov/otaq/transp/landguid.htm | "Improving Air Quality Through Land Use Activities." Report (EPA420-R-01-001, January 2001) |
| http://www.epa.gov/otaq/transp/traqtcms.htm | EPA Website on Transportation Control Measures: On-line Database; Methodologies for Estimating Emission and Travel Activity Effects of TCMs - (EPA420-R-97-004, July 1997) |
| http://www.trb.org | Transportation Research Board Website: Quantifying Air-quality and Other Benefits and Costs of Transportation Control Measures |

# TRI-CITIRES EARLY ACTION COMPACT AREA

**Carter**
**Hawkins**
**Johnson**
**Sullivan**
**Unicoi**
**Washington**

First Tennessee Development District

207 North Boone Street, Suite 800 • Johnson City, Tennessee 37604
(423) 928-0224 • FAX: (423) 928-5209

RECEIVED
JUN 05 2003

**Carter**
Elizabethton
Watauga

**Greene**
Baileyton
Greeneville
Mosheim
Tusculum

**Hancock**
Sneedville

**Hawkins**
Bulls Gap
Church Hill
ount Carmel
Rogersville
Surgoinsville

**Johnson**
ountain City

**Sullivan**
Bluff City
Bristol
Kingsport

**Unicoi**
Erwin
Unicoi

**/ashington**
›hnson City
esborough

June 5, 2003

Barry Stephens
Tennessee Department of Environment and Conservation
Division of Air Pollution Control
9th Floor, L&C Annex
401 Church Street
Nashville, TN 37243-0554

Dear Mr. Stephens,

Enclosed is a list of 'likely control measures" for the Tri-Cities MSA Early Action Compact as well as signatures from Mayors and County Executives that have signed the Tri-Cities MSA Early Action Compact.

If you have any questions or need additional information, please feel free to contact me at 423-928-0224.

Thank You for your assistance,
Sincerely,

Christopher L. Craig
Director of Environmental Programs

-CITIES
ESSEE·VIRGINIA
America's Moving™

Tri-Cities
TN/VA
All-America City
1999

# List of Tri-Cities Early Action Compact
# Local Air Quality Control Measures
# Under Consideration

June 5, 2003

| Control Measure Description | Pollutant Reduced | S=Stationary<br>M=Mobile<br>C=Combination | N=New<br>O=On-going | R=Regulatory<br>V=Voluntary | L=Local<br>S=Statewide |
|---|---|---|---|---|---|
| Ozone Action Day Program<br>▪ Reduced VMT<br>▪ Reduced idling<br>▪ Reduced Lawn & Garden | NOx. VOC, CO | C | O | V | L |
| Ban open burning on ozone action days | NOx, VOC, CO | S | N | R | L and/or S |
| Cost-Effective NOx Controls for Industrial Sources | NOx | S | N | R | L/S |
| Congestion Mitigation (Examples)<br>▪ North State of Franklin Road, JC<br>▪ Jonesborough US 11E<br>▪ Elizabethton US 321 | NOx, VOC, CO | M | N | V | L |
| Incident Management System for New I-26 | NOx, VOC, CO | M | N | V | L |
| Stage I Vapor Recovery for Gasoline Tanker Loading and Unloading | VOC | M | N | R | L/S |
| Stage II Vapor Recovery at Gasoline Stations | VOC | M | N | R | L/S |
| Lower Reid Vapor Pressure (7.8 psi) for Gasoline | VOC | M | N | R | L/S |
| Reduced Interstate Truck Speed Limits on Ozone Action Days | NOx, VOC, CO | M | N | V/R | S (TDOT) |

**List of Tri-Cities Early Action Compact**
**Local Air Quality Control Measures**
**Under Consideration**
June 5, 2003

| | | | | | |
|---|---|---|---|---|---|
| Vehicle Emissions Inspection & Maintenance Program<br>▪ On-board diagnostics for 96 and newer<br>▪ Basic tail-pipe test for 95 and older | NOx, VOC, CO | M | N | R | L/S |
| Local Ordinance on Smoking Vehicles | NOx, VOC, CO | M | N | R | L |
| TDOT preference to bidders on state jobs with repowered, rebuilt, or refueled diesel equipment. | NOx, VOC, CO | M | N | R | S (TDOT) |
| Use Biodiesel in heavy-duty vehicle fleets | NOx, VOC, CO | M | N | V | L |
| Cetane additive for Diesel Engines | NOx | M | N | V | L |
| Low Emission Technology on New School Buses with Allowance for Exceptions for Mandatory 10 yr Retirement | NOx, VOC, CO | M | N | V | L |
| On and Off-Road Diesel Engine Retrofits | NOx, VOC, CO | M | N | V | L |
| | | | | | |
| | | | | | |

# LIST OF LIKELY CONTROL MEASURES FOR

## TRI – CITIES MSA

Early Action Compact Region

For the Early Action Compact, the signatories below agree to the attached list of likely control measures for the above Early Action Compact Region.

| Name | Title | Representing | Date |
|---|---|---|---|
| [illegible] | County Executive | Johnson Co. | 6/2/2003 |
| Dale Fair | COUNTY EXEC. | CARTER CO | 6/2/2003 |
| [illegible] | County Exec. | Hawkins Co | 6-2-2003 |
| D. Rose | County Exec. | Unicoi Co | 6-2-2003 |
| Richard S. Venable | County Exc. | Sullivan | 6/2/3 |
| George Jaynes | County Exc | [illegible] | 6/2/03 |

| Name | Title | Representing | Date |
|---|---|---|---|
| Billy Myers | Mayor | Town of Mosheim | 6/2/03 |
| Russell D. Brockine | Mayor | ERWC | 6-2-03 |
| Tobie L Bledsoe | Mayor | Jonesborough | 6/2/03 |
| Lisa Bane | Mayor | Bristol, Tn | 6/2/03 |
| Jeanette D. Blazier | Mayor | Kingsport TN | 6/2/03 |
| | | | |