

# **Attachment 9**

## **Central Midlands Area**

### **Local Early Action Plans**

**June 2006**

**D H E C**



**Early Action Compacts June 2006 Progress Summary Table**

A. Control Measure under Consideration	B. Summary Description of Measure	C. Program/Measure Status	D. Specific Implementation Date	E. VOC Reduction	F. NOx Reduction	G. Resources (FTE's, \$\$)	H. Additional Information
<b>Central Midlands, SC (Designated - Attainment)</b>							
<b>JUNE 2006 FAIRFIELD COUNTY</b>							
<b>Based on stakeholder consultation and taking into consideration resource and political constraints, the following emission reduction strategies remain under consideration. The County will continue to evaluate the air quality within the county and may implement one or more of the following measures under consideration.</b>							
Air Quality Contact	Ronald Stowers, Fairfield County Director of Planning, Building and Zoning Department is designated as the Air Quality Contact. At a minimum, this contact will be responsible for ozone education/outreach and dissemination of ozone forecast.	Ron Stowers was designated as as the County Air Quality Contact.	Mar-03	n/a directionally sound	n/a directionally sound	n/a	See Comment #3
Support state-wide efforts	Fairfield County will support the efforts of SC DHEC regarding state-wide emission reduction strategies.	The County supported the efforts of SCDHEC in regards to the promulgation of the following regulations: SC61-62.2 Prohibition of Open Burning and Sc61-62.5 Std. 5.2 Control of Oxides of Nitrogen.	June, 2004	n/a directionally sound	n/a directionally sound	n/a	See Comment #3
Amendment of the Fairfield County Zoning Ordinance	Amend the Fairfield County Zoning Ordinance, Article IV, Conditional Uses, Section 4-9, Manufacturing Uses to add prescriptive requirements for reducing/or maintaining ozone levels.	Completed	June, 2005	n/a directionally sound	n/a directionally sound	n/a	See Comment #3
Amendment of the Fairfield County Zoning Ordinance	Evaluate the Fairfield County Zoning Ordinance, Article VI, Screening, Landscaping and Common Space Regulations determine adequacy of tree planting/landscaping standards to help promote strategic tree planting	Completed	June, 2005	n/a directionally sound	n/a directionally sound	n/a	See Comment #3
Amendment of the Fairfield County Zoning Ordinance	Amend the Fairfield County Zoning Ordinance, Article 3 to promote Planned Development Districts that would encourage land use planning that will help improve air quality.	Completed	June, 2005	n/a directionally sound	n/a directionally sound	n/a	See Comment #3
Awareness	Work with and provide information to the Incorporated areas of Fairfield County on Land Use Planning measures that will help improve air quality.	Completed	June, 2005	n/a directionally sound	n/a directionally sound	n/a	See Comment #3
Awareness	Promote ozone education/awareness by distribution of information, including ozone alerts to County employees as well as to the Town of Winnsboro and Town of Ridgeway. Information to be provide information as regards to specific events such as Earthday and EAC Summits. Information on grant availability for ozone reduction will also be provided	Provided information provided including proclamation and education brochures and pamphlets by SCDHEC on grants available concerning Earth Day on April 22, 2006 to Public and county employees.	April, 2006	n/a directionally sound	n/a directionally sound	n/a	See Comment #3
Web Site	County set up web site that will include ozone awareness information including ozone numbers as provided by SCDHEC.	County does not have a current website except for Economic Development. County is deciding whether to try to include information on Economic Development website or whether it is feasible for County to set new website.	June, 2007	n/a directionally sound	n/a directionally sound	n/a	
Operation and Maintenance Activities	Work with County Public Works to develop strategies to reduce activities that would effect ozone levels during Ozone Action Days	Provided Publics Works information on available grant from US Dept of vEnergy's Clean Cities funding for alternative fuels.	May 2, 2006	n/a directionally sound	n/a directionally sound	n/a	See Comment #3
<p><b>Comments:</b></p> <p>1. December 2004 - SC EAC SIP - activity not quantified for several reasons (first) in accordance with EAC Protocol, after all adopted Federal and State controls were accounted for in the modeling, it was determined that local controls were not necessary to demonstrate attainment of the 8-hour ozone standard. Measures were submitted by the local areas to show their continued support and commitment to the EAC process. (second) this activity is directionally sound and should provide air quality benefits and in some cases measurable results. The progress toward implementing this activity and the benefits derived will be documented as a part of the ongoing reporting requirements.</p> <p>2. December 2003 - Progress Report - See - <a href="http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac.html">http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac.html</a> - additional information provided by the county to include "findings", "advantages/disadvantages", "recommendations", "costs", etc....</p> <p>3. March 2004 - Local Early Action Plan - See - <a href="http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0304.asp">http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0304.asp</a></p> <p>4. June 2004 - Progress Report - See - <a href="http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0604.asp">http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0604.asp</a></p> <p>5. December 2004 - Progress Report - See - <a href="http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_1204.asp">http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_1204.asp</a></p> <p>6. December 2004 - SC EAC SIP - Including Appendix 8 (Local Early Action Plans and the Air Quality Awareness and Improvement Policy) and Appendix 16 (County Level Emission Reductions and Descriptions for the Ozone EAC Areas) - See - <a href="http://www.scdhec.gov/eqc/baq/html/eap_sip.html">http://www.scdhec.gov/eqc/baq/html/eap_sip.html</a></p> <p>7. April 20, 2005 - Correspondence to Mr. Palmer including clarifying supplemental information to the EAC SIP submittal of December 2004. - See - <a href="http://www.scdhec.gov/eqc/baq/html/eap_sip.html">http://www.scdhec.gov/eqc/baq/html/eap_sip.html</a></p> <p>8. June 2005 - Progress Report - See - <a href="http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0605.asp">http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0605.asp</a></p>							

A Control Measure under Consideration	B Summary Description of Measure	C Program/Measure Status	D Specific Implementation Date	E VOC Reduction	F NOx Reduction	G Resources (FTE's, \$\$)	H Additional Information
<b>11 South Carolina State Measures</b>							
Comments: Modeling for 2007, shows attainment without including measures beyond national and regional measures already finalized.. 2012 and 2017 also shows attainment.							
<b>11 Central Midlands, SC (Effective date of non-attainment designation deferred) - Lexington County</b>							
Conversion of Commercial Vehicle Fleet to Propane	Schwan's Home Service, Inc. will convert 11 heavy duty gasoline fuel trucks to propane.	completed	2005	1,300 lbs/year	1,638 lbs/year	N/A	CO reductions 8,244 lbs/year December 2004 EAC SIP - Appendix 16 See Comment 6
Develop Air Quality Website	Develop a web page that is dedicated to posting information on air quality as well as highlight Ozone Action Days. This website also have links to state and federal air quality web sites.	A new air quality web page is currently under development.	Summer 2006	38.16 tons/season  N/A	8.03 tons/season  183.5 tons/yr	N/A	
Support SCDHEC statewide efforts to reduce ozone levels.	1. Stakeholder group to support and participate in modeling efforts.  2. Develop stakeholder group to participate in development of regulations (NOx - BACT (Best Available Control Technology Economically Achievable), restrict open burning).	December 2004 EAC SIP did include Appendix 16 - 1. SC61-62.2 "Prohibition of Open Burning" regulation with reductions for 2007 calendar year - reductions expected during the ozone season for residential construction waste.  2. SC61-62.5, Std. 5.2 "Control of Oxides of Nitrogen" reduction amount for both existing and new sources combined across Lexington and Richland counties for 2007 calendar year.	1. June 25, 2004  2. June 25, 2004	N/A	N/A	N/A	See Comment #2
Lexington County Fleet Management (750 vehicles)	1. 12 alternative fuel vehicles in fleet 2. Tri-axles are equipped with Engine Control Software to monitor vehicle usage. Idle time is set for 5 min. and then automatic shut off. 3. The caterpillar engines being purchase have the ACERT Technology.  4. The County purchased 35 Impalas (more efficient) instead of Crown Vic for the sheriff department. Proposing 35 more for the next year. 5. VDO system on County vehicles monitors driving habits. 6. Fleet are maintained 3 month or 5,000 miles, if not maintained the fuel dispensers will not work for the vehicle.	3. Caterpillar engines that are purchased for County are meeting the air quality standards proposed for 2007.	3. 2005-2007  4. 35 more were ordered in October 2005	Directionally sound	Directionally sound	N/A	(http://www.centralmidlands.org/)
Land use/Green Space	A planning study (2005-2006) by COATS (Columbia Area Transportation Study) for bicycle and pedestrian facilities in the Central Midlands regions (Lexington, Richland, Kershaw, and Calhoun Counties) as a viable modal choice. (rsimmons@centralmidlands.org)	Public Meeting held Nov. 14, 2005  Final Report issued March 2006 o The final report of this study was released in March 2006 and included Early Action Projects for the construction of bicycle and pedestrian facilities. They include: o Establishing a bike route on Center Street in West Columbia o Construct sidewalks on both sides of August Road (US 1) in Lexington County o Kick off a new neighborhood sidewalk program in the Town of Lexington o Add sidewalks on both sides of Columbiana Drive in Immo o Improve pedestrian crossings at the intersection of North Main Street (US 1) and Columbia Avenue (US 378) in the Town of Lexington o Provide sidewalks on both sides of Sunset Boulevard (US 378) on the east side of the Town of Lexington	Final Report March 2006	Directionally sound	Directionally sound	N/A	
Land-Use Improvement Action	1. The Town of Lexington passed through Town Council a request for two streets in The Town be designated as one-way streets to ease traffic congestion.  2. The new Stormwater Management Ordinance and Design Manual currently under design for the County's Phase II NPDES permit is to include open space requirements which include lowering impervious area amounts and keeping natural vegetation.  3. Lexington County Council approves encouraging Low Impact Development in the County, which emphasizes decreasing impervious areas, leaving trees and other vegetation and "green power".	1. Butler and Main streets to be constructed as one-way.	1. Town Council passed at the Nov. 2005 meeting  2. September 1, 2007 deadline for implementation.  3. April 28, 2006 Town Council approved fee cuts for first three LID developments.	Directionally sound	Directionally sound	N/A	See Comment #2
Green Power Support	MCEC (Mid-Carolina Electric Cooperative) offers the purchase of green power blocks. This power is distributed by Santee Cooper and blocks are currently being purchased by local commercial and residential stewards of the environment. State-wide there are 1300 residential co-op participants. (www.santeecooper.com/greenpower)  One block is equal to 100 kilowatt hours of electricity for residential customers and 200 kilowatt hours of electricity for commercial customers.	Local businesses supporting are Lowe's, BB&T, Kinko, Wachovia Banks. There are 115 residential Green Blocks Customers purchasing 164 blocks of green power. There are an average of 82 blocks of green power purchased by commercial customers.	Signing up for Green Power is a voluntary open enrollment process through MCEC.	Directionally sound	Directionally sound	N/A	
Energy Efficiency of New/Renovation of County Buildings	All windows in the County Administration Building were replaced with energy efficient windows. The same windows were used in the new Courthouse also.	2003-2004	completed 2003-2004	Directionally sound	Directionally sound	N/A	Additional information submitted in December 2004 Progress Report See Comment #5
Grant/Fund Proposals	1. Lexington County/Richland County applied for grant for Gas Cap Replacement/Gas Cap Wrenches. 2. Research other grant opportunities to fund future projects.	1. Did not receive the grant. 2. Meeting scheduled with the grants librarian at the South Carolina State Library to learn more about researching and preparing grant proposals.	2. June 20, 2006	Directionally sound	Directionally sound	N/A	Additional information submitted in June 2004 Progress Report See Comment #4

A Control Measure under Consideration	B Summary Description of Measure	C Program/Measure Status	D Specific Implementation Date	E VOC Reduction	F NOx Reduction	G Resources (FTE's, \$\$)	H Additional Information
Stakeholders Meetings	1. June 6, 2005, meet with David Farren, Southern Environmental Law Center (SELC) and elected official from Lexington and Richland County to discuss "non-attainment" and goals to meet standards for ground level ozone. They also informed us of the release of the Columbia area air quality report by SELC. 2. Meeting with major industries to discuss the ozone situation in late July (2004). 3. Talk with Lexington Soil and Water Conservation District to partner with us for air quality issues.	2. June 2005 - Obtained list of the major VOC and NOx emitters in county and plan to meet with these companies to discuss concerns regarding attainment issues. 3. The District's focus is on soil and water issues and their time is currently completely occupied by those issues. An interest was expressed by one member of the District in volunteering during Air Quality events, but only if time allows.	2. Postponed until Summer/Fall 2006 with new EAC contact.	Directionally sound	Directionally sound	N/A	
Landscaping	1. Planting of approximately 10-15 acres of trees and/or shrubbery for additional landscaping areas on Lexington County owned property that will reduce mowing and the use of gas powered lawn equipment. 2. Lexington County Planning Department working with County Council and developers for proposed scenic corridors throughout the county for preservation of natural buffers along roadways. 3. Lexington County has one (1) municipality that is designated as "Tree City USA", and that is the Town of Lexington. There are several municipalities (Irmo, Gilbert, West Columbia, Cayce, Chapin) within Lexington County that currently have Tree Ordinances in place for development. Lexington County also has a Landscaping Ordinance in place.	1. Planted trees Jan.-Mar. 2005. 2. The progress on creating scenic corridors in the County is slow due to the issue of the location of utilities in public easements along the side of the road. Trees along roadways pose a threat to the proper function of utilities located in right-of-ways. The County Planning Department is considering residential buffers in lieu of scenic corridors.	1. Planted trees Jan.-Mar. 2005.	Directionally sound	Directionally sound	N/A	
Seminar/Presentations attended by Lexington County to further their knowledge of Air Quality	1. May 25, 2005 attended Dr. Dave Nowak-"Understanding the Effects of the Urban Forest on Air and Water Quality". 2. June 22, 2005 participated in a conference call EPA, STATE, LOCAL partners and Office of Transportation and Air Quality to discuss how the "Best Work Places for Commuters" can help EACA. 3. August 23-25, 2005 attended the Southern Transportation and Air Quality Summit (STAQS) Conference. 4. November 3, 2005 Participated in conference call with DHEC and Richland County for guidance for the EAC Report due December 2005. 5. March 13-14, 2006 attended the Midlands Low Impact Development Workshop presented by the Midlands Urban Conservation Committee 6. April 18, 2006 participated in a conference call with DHEC and other EAC members across the state concerning the 2006 EAC Summit in August 2006.	Dr. Dave Nowak-"Understanding the Effects of the Urban Forest on Air and Water Quality"	Seminars and presentations are attended as they are offered and depending on budget allowances	Directionally sound	Directionally sound	N/A	
Proposed air quality projects	1. Lexington County in partnership with other agencies are looking into holding a gas powered lawn mower/lawn equipment exchange. 2. Lexington County in partnership with other agencies are looking into holding a Kerosene Can exchange. 3. Lexington County in partnership with other agencies are looking into holding a Gas Cap Replacement/Gas Cap Wrenches event. 4. Co-sponsor with Richland County and SCDHEC a vehicle maintenance check event for National Car Care Month at South Carolina State Museum.	1. Spring 2006, measures 2 and 3 are for future events. 4. 60 vehicles were checked for proper maintenance	1. Postponed due to funding 4. April 1, 2006	Directionally sound	Directionally sound	N/A	Additional information submitted in December 2004 Progress Report See Comment #5
Public Awareness/Education	1. Providing/incorporating Air Quality information in county newsletter that goes to all employees. 2. Working with county GIS department for the introduction of an Environmental link for the Public Works Department discussing Air Quality and related issues-hopefully implemented in 2006. 3. Spoke with Mid Carolina Electric Co-Op about publishing Air Quality information in their newsletter that is distributed to all MCEC customers-hopefully 2006. 5. Sign up as an It All Adds Up to Clean Air Community	June 2005 - update on educational air quality presentations for schools...; also working with landscape "gum" on educational/outreach presentations to local organizations... 2. Abandoned see item 13	1. June 2006 first article will appear. 5. Signed up May 2006	Directionally sound	Directionally sound	N/A	
Public Awareness/Information	1. Lexington County, with input from DHEC, is designing and constructing an Ozone Action sign that will display during the Ozone season the ozone alertness level. This will be posted at a heavily traveled intersection in Columbia. 2. Ozone Awareness Week 2005 posters were displayed at the County Administration building along with brochures for all citizens and employees. 3. 1200 brochures for spring season awareness were attached to employee paychecks on March 31, 2005 concerning Ozone Awareness. 4. Press release about Ozone Awareness Week along with the Governor's Proclamation was hand delivered to Citadel Broadcasting Corp, Clear Channel marketing, Inner City Broadcasting, Glory Communications and Broomfield Broadcasting. 5. PSA's formatted for Lexington County were distributed to Citadel Broadcasting Corp, Clear Channel marketing, Inner City Broadcasting, Glory Communications and Broomfield Broadcasting for Ozone Awareness Week 2005. 6. Sign up for Take a Break from the Exhaust alternative commute program. 7. Distribute Ozone fact sheets and PSA's to local cable access channels.	6. This program developed by, DHEC, encourages users to take voluntary actions in order to reduce vehicle miles traveled, which in turn reduces the precursors of ground level ozone. 7. DHEC PSA's distributed to the Town of Lexington for broadcast on the local cable access channel. They have not run to date, but will be included in the line up when space needs to be filled. PBT Cable will flash ozone awareness fact sheets on their cable access channel starting in June 2006.	1-5. Spring 2005 6-7. June 2006	Directionally sound	Directionally sound	N/A	(http://www.lexington1.net/gms/schoolhappenings.html#wetland)
Education of environmental issues within school systems	1. Amy Curran, DHEC, has been involved for 3 years with Gilbert Middle School for the implementation of wetlands, observation area, and kiosk. 2. She conducted an outdoor workshop with the students on air quality. 3. Amy also taught the 7th grade at Northside Middle School the science curriculum incorporating the health and environmental issues of air quality. 4. Implement the B2 @ School (Breathe Better at School) program in schools in Lexington County. This program's mission is to reduce vehicle emissions around school campuses for healthier children-reduce asthma and respiratory contributors.	1. On going project since 2003 2. Held on Oct. 25, 2005 3. Taught class on Nov. 15, 2005 4. Crossroads Middle School implemented a no idling policy.	Started in 2003 and is a continuing effort. 4. More schools in the same district as Crossroads Middle School will be approached starting in the summer/fall of 2006 for implementation of the program.	Directionally sound	Directionally sound	N/A	Comments #7 (www.scwf.org/)
Recognition by SC Wildlife Federation	Lexington County Planning Department working with County Council and developers for proposed scenic corridors throughout the county for preservation of natural buffers along roadways.		2005 recognition received.	Directionally sound	Directionally sound	N/A	
Join and participate in Clean Cities	Become a stakeholder in Clean Cities and become active in meetings. This partnership shall increase public awareness of the environment issues of air quality that Lexington County is working to better.	May 2006 contacted Wendy Bell of the Catawba COG for more information on the Clean Cities initiative. Mar. 31, 2005	May-06	Directionally sound	Directionally sound	N/A	
1300 employees receive Ground Level Ozone Awareness Information in Pay stubs	Comments #7 and 8		March 31, 2005				
Gas Can Exchange Events	1. Co-sponsor with Richland County and SCDHEC 2 gas can exchange events located at the former Bush River Mall and at the Sandhills Research/Education Center	1. A total of 290 old gas cans exchanged for new environmentally safe cans.	The events were held on June 5, 2004 and October 16, 2004	411.68 lbs/year		Michelin donated cans for both events	
School Bus Retrofit Project	Approximately 28 diesel buses will be retrofitted particulate filters during 2006. (additional reductions of PM are also expected)		2006	476 lbs/year	N/A	N/A	CO reductions 3,332 lbs/year December 2004 EAC SIP - Appendix 16 See Comment 6

**LEXINGTON COUNTY**

Based on stakeholder consultation and taking into consideration resource and political constrains, the following control measures are under consideration pending modeling that demonstrates compliance in 2007 by SCDHEC.

A. Control Measure under Consideration	B. Summary Description of Measure	C. Program/Measure Status	D. Specific Implementation Date	E. VOC Reduction	F. NOx Reduction	G. Resources (FTE's, \$\$)	H. Additional Information
Air Quality Awareness and Improvement Policy	<p>1. Memorandum sent to all County department heads as well as elected officials and presented before County Council on August 24, 2004 and adopted as written; for the purpose of establishing certain principles that will guide the recurring activities of County government.</p> <p>Effective immediately:</p> <ol style="list-style-type: none"> <li>1. Encourage that all county employees are notified of upcoming Ozone Action Days.</li> <li>2. Implement car-pooling opportunities, when feasible. <ul style="list-style-type: none"> <li>- Ride share to work</li> <li>- Ride to lunch and/or meetings with fellow employees</li> </ul> </li> <li>3. Ensure that all County vehicles/equipment are operating according to the manufacturer's specifications.</li> <li>4. Restrict vehicle idling to no more than 10 minutes. Exceptions include emergency vehicles, traffic/weather conditions, and vehicles being repaired, maintained, or inspected.</li> <li>5. Restrict mowing and use of gas powered lawn equipment on County property on Ozone Action Days.</li> <li>6. Restrict mowing by landscaping additional areas of county property.</li> <li>7. Restrict all outdoor burning on Ozone Action Days.</li> <li>8. Practice energy conservation in all County facilities. <ul style="list-style-type: none"> <li>- Turn off computers and lights in the office at the end of the day</li> <li>- Turn off all office lights when not in use</li> </ul> </li> <li>9. Include environmental considerations in purchasing decisions for goods and services. An example of such would be to purchase the lowest-emission vehicles practical to meet County needs. This may include the purchase of Tier II compliant vehicles. SEE Comment #6</li> <li>10. A memo to department heads with instructions to circulate among employees and post in the department will be distributed based in reports received through the Enviroflash program. Enviroflash is a program sponsored by the EPA that provides important air quality information such as forecasts and action day notifications via email or pager notifications.</li> </ol>	<ol style="list-style-type: none"> <li>1. Lexington County website has a link to the DHEC site with the Ozone Action Days.</li> <li>2. County sent memos August 2005, to all employees to see the interest to carpooling.</li> <li>3. All County employees are to turn off computers and lights when leaving at the end of each day.</li> </ol>	<p>Effective immediately - October 6, 2004</p> <p>May 2006-Ozone Policy re-distributed to county employees</p>	Directionally sound	Directionally sound	N/A	<p>The commitment to address these activities has been assured by the County Administrator and was presented before County Council on August 24, 2004 and adopted as written.</p> <ol style="list-style-type: none"> <li>1. See comment #6</li> </ol>
1. Designate an Ozone Action Coordinator	The County will dedicate a staff person as the Ozone Action Coordinator.	<p>In 2003 the Lexington County Administrator Art Brooks delegated the responsibilities of this program to the Director of Public Works John Fechtel.</p> <p>In 2004 the County appointed Sheri Armstrong as the Environmental Coordinator to serve as the EAC contact as well as the coordinator of the County's National Pollutant Discharge Elimination System (NPDES) Phase II permit.</p> <p>A new Environmental Coordinator, Synthia Williams, was hired in April 2006 to focus solely on the County's environmental programs. Although Synthia Williams is the primary EAC contact, both Sheri Armstrong and John Fechtel receive questions from County Council and employees concerning the EAC and are kept abreast of the program.</p>	Completed in 2003 and continuing.				
2. Ozone Action Contacts	Establish industry/local government contact persons	<p>On June 6, 2005, the County met with David Farren, Southern Environmental Law Center (SELC) and elected official from Lexington and Richland County to discuss "nonattainment" and goals to meet standards for ground level ozone. They also informed the County of the release of the Columbia area air quality report by SELC. A meeting with major industries to discuss the ozone situation was planned for late July (2004). This meeting did not happen due to job demands outside of the Ozone program on the previous Environmental Coordinator. Hiring a new Environmental Coordinator who will focus entirely on environmental issues will allow more time to be devoted to increasing stakeholder involvement. June 2005 - Obtained list of the major VOC and NOx emitters in county and plan to meet with these companies to discuss concerns regarding attainment issues. Due to time and staff constraints industries were not contacted previously, with the hiring of a new Environmental Coordinator more time can be allocated to increasing stakeholder involvement. A new list will be delivered to the County in the summer. It was discussed with Lexington Soil and Water Conservation District.</p>	Completed in 2004 and continuing.	Directionally sound	Directionally sound	N/A	
3. Park and Ride lot at Highway 378 and I-20	The 378 and I-20, Park and Ride Lot, during the majority of 2006 year has been to capacity or greater.	<p>The 378 and I-20, Park and Ride Lot, during the majority of 2006 year has been to capacity or greater. This process was previously handled through visual inspection and counting of the cars once a week. The parking facility holds 47 cars.</p> <p>During the July stakeholder meeting (tentative see Measure 2) with major industries they industries will be asked to provide input for possible new park and ride facilities.</p>	Weekly counting began May 17, 2006. Completed 2003-2004 and continuing.	1,848 lbs/year	952 lbs/year	N/A	<p>CO reductions 7,297 lbs/year December 2004 EAC SIP - Appendix 16 See Comment 6</p>

A Control Measure under Consideration	B Summary Description of Measure	C Program/Measure Status	D Specific Implementation Date	E VOC Reduction	F NOx Reduction	G Resources (FTE's, \$\$)	H Additional Information
4. Alternate work schedule	Discuss with industry, companies, municipalities, county departments	Please see the Ozone Policy adopted August 24, 2004 (attached). Lexington County surveyed employees (9/2005) as to the feasibility for department to go to 4 10-hour work schedules. One department within Public Works (11 employees) started October 1, 2005. The Fleet Services department has 1 employee that works an alternate schedule from 7 a.m. to 3 p.m. June 2006-Lexington County signed up for Take a Break from the Exhaust a web based program that tracks behavior changes by assigning points to a variety of activities. This program, developed by DHEC, encourages users to take voluntary actions in order to reduce vehicle miles traveled, which in turn reduces the precursors of ground level ozone. After an introductory period that will be used to learn the basics of the program by the Public Works Department, the program will be offered to all County employees for participation. Local industries will be informed of the Take a Break from the Exhaust program during the July stakeholder meeting (tentative see Measure 2).	Completed in 2004 and continuing.	Directionally sound	Directionally sound	N/A	See Comment #2 (Contact Sheri Armstrong/803-785-8631/sarmstrong@lex-co.com)
5. Bio-diesel /alternate fuels use	Discuss with industry, companies, municipalities, county departments, investigate feasibility of these methods.	Lexington County will write and distribute a letter of encouragement for the use of bio-diesel/alternative fuels to each of the municipalities. A copy will be included in next progress report Local industry will be informed of the benefits of AFV at the July stakeholder meeting (tentative see Measure 2) and invited to the August Early Action Summit to receive more information on AFV. o There were 1,120 gallons of biodiesel purchased in 2004 in Lexington County. There are approximately 60 alternative fuel vehicles operating within federal, state county, and municipal government. As directed by the County Administrator all future purchases will be either Hybrids or AFVs, if practicable. 12 alternative fuel vehicles in the county fleet o Tri-axes are equipped with Engine Control Software to monitor vehicle usage. Idle time is set for 5 min. and then automatic shut off. o The caterpillar engines being purchase have the ACERT Technology. The Caterpillar engines that were purchased for County are meeting the air quality standards proposed for 2007. o The County purchased 35 Impalas (more efficient) o VDO system on County vehicles monitors driving h	Completed in 2005 and continuing. May 2006 letter mailed to municipalities in the County.	Directionally sound	Directionally sound	N/A	
Bio-diesel /alternate fuel stations available in Lexington County	1. Pitt Stop Convenience Store, (E85) 5019 Augusta Road 2. United Energy (Bio-diesel and E85) 2470 Fish Hatchery Road 3. Pitt Stop No. 42 (E85) 1928 Airport Blvd	All sell alternative fuels	Pitt Stop gas stations will continue to offer E85 at new gas stations.	Directionally sound	Directionally sound	N/A	See Comment #2 (http://www.cat.com)
6. Idle Reduction	Establish County policies to reduce or stop idling time	15 trucks have Engine Control Module software that idling time is set for 5 minutes. Caterpillar has incorporated this in the engine software. (ACERT Technology) This technology will continue to be considered by the County for installation in other vehicles. See measure four of the Air Quality Awareness and Improvement Policy.	Completed in 2004 and continuing. Added to trucks in 2004.	Directionally sound	Directionally sound	N/A	See Comment #2 (www.state.sc.us/energy/renewable%20energy/lmp.htm)
7. Landfill Methane Reduction (Methane Recycling System to be online February 2006)	Screaming Eagle Landfill owned by Waste Management accepts approximately 100,000 tons/yr of municipal solid waste from Lexington County.	Methane Recycling System was brought online on February 21, 2006.	Feb. 21 2006	Directionally sound	Directionally sound	N/A	
Landfill Methane Outreach Program (LMOP) Participant	Program that aids the reduction of methane emissions from landfills by encouraging the recovery and use of landfill gas as energy source. (www.epa.gov/landfill/index.htm) Lexington County looking to find possible use of flared methane at the 321 Landfill.	The Landfill Gas Collection and Control System which includes flaring started operation on October 17, 2001.	October 17, 2001	Directionally sound	Directionally sound	N/A	<a href="http://www.santecooper.com">www.santecooper.com</a>
<p>Comments:</p> <ol style="list-style-type: none"> <li>December 2004 - SC EAC SIP - activity not quantified for several reasons (first) in accordance with EAC Protocol, after all adopted Federal and State controls were accounted for in the modeling, it was determined that local controls were not necessary to demonstrate attainment of the 8-hour ozone standard. Measures were submitted by the local areas to show their continued support and commitment to the EAC process. (second) this activity is directionally sound and should provide air quality benefits and in some cases measurable results. The progress toward implementing this activity and the benefits derived will be documented as a part of the ongoing reporting requirements.</li> <li>December 2003 - Progress Report - See - <a href="http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac.html">http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac.html</a> - additional information provided by the county to include "findings", "advantages/disadvantages", "recommendations", "costs", etc....</li> <li>March 2004 - Local Early Action Plan - See - <a href="http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0304.asp">http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0304.asp</a></li> <li>June 2004 - Progress Report - See - <a href="http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0604.asp">http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0604.asp</a></li> <li>December 2004 - Progress Report - See - <a href="http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_1204.asp">http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_1204.asp</a></li> <li>December 2004 - SC EAC SIP - Including Appendix 8 (Local Early Action Plans and the Air Quality Awareness and Improvement Policy) and Appendix 16 (County Level Emission Reductions and Descriptions for the Ozone EAC Areas) - See - <a href="http://www.scdhec.gov">http://www.scdhec.gov</a></li> <li>April 20, 2005 - Correspondence to Mr. Palmer including clarifying supplemental information to the EAC SIP submittal of December 2004. - See - <a href="http://www.scdhec.gov/eqc/baq/html/eap_sip.html">http://www.scdhec.gov/eqc/baq/html/eap_sip.html</a></li> <li>June 2005 - Progress Report - See - <a href="http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0605.asp">http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0605.asp</a></li> </ol>							

May 18, 2006

Re: Alternative Fuel Vehicles

Mr. William Reynolds  
Zoning Administrator  
City of Batesburg-Leesville  
244 W. Columbia Ave  
P.O. Box 2329  
Batesburg-Leesville, 29006

Dear Mr. Reynolds:

With the start of a new ozone season and in an effort to reduce ground level ozone in order to enhance the quality of life of those who live, work and visit Lexington County, all municipalities within Lexington County are encouraged to consider adding alternative fuel vehicles to their fleets when making new vehicle purchases.

Alternative fuels are fuels such as compressed natural gas, liquefied natural gas, liquid propane gas, methanol, ethanol (E85), biodiesel, electricity, hydrogen and fuels created from biological materials. Many of these fuels are created from renewable resources such as recyclable products and biomass materials helping to eliminate waste and keep our environment clean.

Consider the benefits of AFVs:

- AFVs are better for the environment because they produce less ozone forming emissions.
- Prices of alternative fuels are more stable and often lower than petroleum fuels.
- Using alternative fuels reduces dependence on imported oils.
- Many automakers are expanding their line of AFVs and the network of alternative fuel filling stations is expanding.
- The National Energy Policy Act requires federal and state government along with alternative fuel suppliers to include AFVs in purchases of new light-duty vehicles. A recent court order requires the Department of Energy to prepare a final determination regarding AFV replacement in local governments by March 2008.

Along with adding AFVs to your fleet, there are other measures that can be adopted by your municipality that reduce ground level ozone forming emissions. Encouraging co-workers to carpool to work or meetings, delaying or extending mowing or other motorized construction activities on ozone action days or purchasing electric landscaping equipment are some of the simple actions that can be adopted by your municipality that will help to improve air quality.

A fact sheet with more information concerning AFVs along with the ozone policy adopted by Lexington County is enclosed with this letter. If you have questions about AFVs and ground level ozone pollution or if you would like to receive notices of ozone action days and policies you can adopt to improve air quality, you or your designated environmental staff member can contact me at [swilliams@lex-co.com](mailto:swilliams@lex-co.com) or call 803-785-8634.

Sincerely,

Synithia R. Williams  
Environmental Coordinator

Enclosures

OZONE POLICY-AIR QUALITY IMPROVEMENTS FOR LEXINGTON COUNTY  
ADOPTED AUGUST 24, 2004

**Employee Education, Notification and Participation**

- Ozone Action Coordinator(s)-John Fechtel/Synithia Williams
- Promote employee education/awareness of ozone issues and helpful individual actions (e.g. internal newsletter, mass email, brown bag lunch presentations, flyers, etc.)
- Implement employee alerts for Ozone Action Days (e.g. mass email, network boot up message, bulletin board, etc.)
- Investigate incentives for participating employees (e.g. reserved parking for ride sharing employees, etc.)

**Operations and Maintenance Activities**

- Delay/reschedule mowing and motorized construction activities to the maximum extent practical during Ozone Action Days
- Investigate the purchase of energy star electrical equipment
- Delay/reschedule maintenance and landscaping activities which use small engines to the maximum extent practical during Ozone Action Days
- Examine the practicability of refueling vehicles in the evening during Ozone Season
- To the maximum extent practical implement building energy conservation measures
  - Require employees to turn off lights and computers daily
  - Investigate the possibility to purchase Energy Star compliant equipment
  - Audit existing buildings for changes to make them more energy efficient to the maximum extent practical
  - Explore the use of Green Power where available
- Restrict to maximum extent practical indoor and outdoor paint jobs during Ozone Action Days
- Study the feasibility to change work schedules to mitigate commute traffic jams
- Consider the purchase of alternative fuels/hybrid vehicles and refuel with alternative fuels wherever possible

**Commuter Actions**

- Encourage commute alternatives for employees (e.g. ridesharing, carpool, etc.)
- Advocate public transportation
- Promote walking/biking as alternatives and emphasize “Health/Exercise”
- Study the feasibility for Alternative Work Schedules (AWS)
- Suggest an alternative commute program

**Encourage Employees Not to Travel by Auto at Lunchtime**

- Encourage brown bag lunches or ordering in
- Suggest carpooling to local eating facilities

**Parking Management**

- Implement preferences for rideshare vehicles

For additional information visit [www.schec.net/baq/eap.html](http://www.schec.net/baq/eap.html) or  
Contact Synithia Williams at [swilliams@lex-co.com](mailto:swilliams@lex-co.com), (803) 785-8634

**June 2006 Early Action Compact Progress Report**  
**Local Strategies-County of Lexington**  
Prepared by Synithia Williams

In an effort to keep our contact information updated we have provided the following information for the county:

	Name	Telephone	E-mail Address
Administrator/Manager	Katherine Doucett	(803) 785-8100	<a href="mailto:kdoucett@lex-co.com">kdoucett@lex-co.com</a>
EAC contact	Synithia Williams	(803) 785-8634	<a href="mailto:swilliams@lex-co.com">swilliams@lex-co.com</a>

The following activities listed were included in the December 2004 EAC State Implementation Plan (SIP) submittal and the December 2005 Progress Report. Each of the activities listed were not quantified for several reasons. First, in accordance with the Protocol for EACs, after all Federal and State controls were accounted for in the modeling, it was determined that local controls were not necessary to demonstrate attainment of the 8-hour ozone standard. Based on stakeholder consultation and taking into consideration resource and political constraints, the following control measures are under consideration pending modeling that demonstrates compliance in 2007 by SCDHEC.

## **1. Designate an Ozone Action Coordinator**

### **Description of Measure**

The County will dedicate a staff person as the Ozone Action Coordinator.

- In 2003 the Lexington County Administrator Art Brooks delegated the responsibilities of this program to the Director of Public Works John Fechtel.
- In 2004 the County appointed Sheri Armstrong as the Environmental Coordinator to serve as the EAC contact as well as the coordinator of the County's National Pollutant Discharge Elimination System (NPDES) Phase II permit.
- A new Environmental Coordinator, Synithia Williams, was hired in April 2006 to focus solely on the County's environmental programs. Although Synithia Williams is the primary EAC contact, both Sheri Armstrong and John Fechtel receive questions from County Council and employees concerning the EAC and are kept abreast of the program.

### **Estimate of Emission Reductions (if available)**

Not applicable. No reduction credits were taken for this measure in the South Carolina Early Action Compact SIP.

### **Implementation Date**

Completed in 2003 and continuing.

## **2. Ozone Action Contacts**

### **Description of Measure**

The County will establish industry/local government contact persons.

- On June 6, 2005, the County met with David Farren, Southern Environmental Law Center (SELC) and elected official from Lexington and Richland County to discuss "nonattainment" and goals to meet standards for ground level ozone. They also informed the County of the release of the Columbia area air quality report by SELC.
- A meeting with major industries to discuss the ozone situation was planned for late July (2004). This meeting did not happen due to job demands outside of the Ozone program on the previous Environmental Coordinator. Hiring a new Environmental Coordinator who will focus entirely on environmental issues will allow more time to be devoted to increasing stakeholder involvement.
- June 2005 - Obtained list of the major VOC and NOx emitters in county and plan to meet with these companies to discuss concerns regarding attainment issues. Due to time and staff constraints industries were not contacted previously, with the hiring of a new Environmental Coordinator more time can be allocated to increasing stakeholder involvement. A new list will be delivered to the County in the summer of 2006. The county plans to contact the industries on the list and discuss the results of non-attainment and strategies that can be implemented to lower ozone levels
- A letter will be mailed out during the first week of July 2006 to the 2005/2006 principal employers in Lexington County inviting them to an information session concerning ozone pollution, the EAC and how it could affect them. The tentative date for this meeting is the third week of July 2006 depending on availability of meeting facility and industry interest.
- It was discussed with Lexington Soil and Water Conservation District to partner with us on air quality issues. The District's focus is on soil and water issues and their time is currently completely occupied by those issues. An interest was expressed by one member of the District in volunteering during Air Quality events, but only if time allows.

### **Estimate of Emission Reductions (if available)**

Not available. No reduction credits were taken for this measure in the South Carolina Early Action Compact SIP.

### **Implementation Date**

Completed in 2004 and continuing.

### **3. Park & Ride Facilities**

#### **Description of Measure**

Staff will be contacting churches, shopping centers, etc. with large parking lots to discuss park & ride program.

- The 378 and I-20, Park and Ride Lot, during the majority of 2006 year has been to capacity or greater. This process was previously handled through visual inspection and counting of the cars once a week. The parking facility holds 47 cars.
- During the July stakeholder meeting (tentative see Measure 2) with major industries they industries will be asked to provide input for possible new park and ride facilities.

#### **Estimate of Emission Reductions (if available)**

Not available. No reduction credits were taken for this measure in the South Carolina Early Action Compact SIP.

#### **Implementation Date**

Completed 2003-2004 and continuing.

#### **4. Alternative work schedule**

##### **Description of Measure**

Discuss with industry, companies, municipalities and County departments the possibility of alternative work schedules.

- Please see the Ozone Policy adopted August 24, 2004 (attached).
- Lexington County surveyed employees (9/2005) as to the feasibility for department to go to 4 10-hour work schedules. One department within Public Works (11 employees) started October 1, 2005. The Fleet Services department has 1 employee that works an alternate schedule from 7 a.m. to 3 p.m.
- June 2006-Lexington County signed up for Take a Break from the Exhaust a web based program that tracks behavior changes by assigning points to a variety of activities. This program, developed by DHEC, encourages users to take voluntary actions in order to reduce vehicle miles traveled, which in turn reduces the precursors of ground level ozone. After an introductory period that will be used to learn the basics of the program by the Public Works Department, the program will be offered to all County employees for participation.
- Local industries will be informed of the Take a Break from the Exhaust program during the July stakeholder meeting (tentative see Measure 2).

##### **Estimate of Emission Reductions (if available)**

Not available. No reduction credits were taken for this measure in the South Carolina Early Action Compact SIP.

##### **Implementation Date**

Completed in 2004 and continuing.

## 5. Bio-diesel/Alternative fuels

### Description of Measure

Companies, municipalities, county investigate feasibility of these methods.

- There were 1,120 gallons of biodiesel purchased in 2004 in Lexington County. There are approximately 60 alternative fuel vehicles operating within federal, state, county, and municipal government. As directed by the County Administrator all future purchases will be either Hybrids or AFVs, if practicable.
- 12 alternative fuel vehicles in the county fleet
- Tri-axes are equipped with Engine Control Software to monitor vehicle usage. Idle time is set for 5 min. and then automatic shut off.
- The caterpillar engines being purchase have the ACERT Technology. The Caterpillar engines that were purchased for County are meeting the air quality standards proposed for 2007.
- The County purchased 35 Impalas (more efficient) instead of Crown Vic for the sheriff department. 35 more were ordered for the 2006 calendar year and are pending delivery. Late delivery is due to procurement process.
- VDO system on County vehicles monitors driving habits.
- Fleet are maintained 3 month or 5,000 miles, if not maintained the fuel dispensers will not work for the vehicle.
- A letter was mailed in May 2006 to all municipalities within Lexington County encouraging them to switch to alternative fuel vehicles and to consider adopting the Ozone Policy adopted by the County. (copy attached)
- Pitt Stop No. 42 (E85) located at 1928 Airport Blvd, Pitt Stop Convenience Store, (E85) located at 5019 Augusta Road, United Energy (Bio-diesel and E85) located at 2470 Fish Hatchery Road all sell alternative fuel in Lexington County.
- By December 2005, Schwan's Home Service, Inc. will convert 11 heavy-duty trucks from gasoline to propane and it is anticipated that the converted trucks will be located at their depot in Lexington. In addition, propane fueled trucks from Augusta, Georgia and Monroe, North Carolina service customers in South Carolina. Schwan's current South
- Carolina fleet of 67 trucks located at depots in Greenville, Lexington, Charleston and
- Florence is 60 percent propane fueled. Central Midlands Regional Transit Authority (CMRTA), the public transportation system for the Central Midlands area, has 7 buses that operate on compressed natural gas.
- The Governor signed Hybrid vehicle bill H4312 on June 1, 2006. Act 312, R371, H4312 Bill may be viewed at [http://www.scstatehouse.net/sess116\\_2005-2006/bills/4312.htm](http://www.scstatehouse.net/sess116_2005-2006/bills/4312.htm) and its caption reads: An act to amend the Code of Laws of South Carolina, 1976, by adding Section 12-6-3377 so as to allow a state income tax credit equal to twenty percent of certain new hybrid, fuel cell, alternative fuel, or lean burn technology motor vehicle. Credits allowed against a taxpayer's federal income tax liability.
- Local industry will be informed of the benefits of AFV at the July stakeholder meeting (tentative see Measure 2) and invited to the August Early Action Summit to receive more information on AFV.

### Estimate of Emission Reductions (if available)

Not available. No reduction credits were taken for this measure in the South Carolina Early Action Compact SIP.

**Implementation Date**

Completed in 2005 and continuing.

## **6. Idle Reduction**

### **Description of Measure**

Establish County policies to reduce or stop idling time.

- 15 trucks have Engine Control Module software that idling time is set for 5 minutes. Caterpillar has incorporated this in the engine software. (ACERT Technology) This technology will continue to be considered by the County for instillation in other vehicles.
- See measure four of the Air Quality Awareness and Improvement Policy.

### **Estimate of Emission Reductions (if available)**

Not available. No reduction credits were taken for this measure in the South Carolina Early Action Compact SIP.

### **Implementation Date**

Completed in 2004 and continuing.

## **7. Landfill methane reduction**

### **Description of Measure**

Analyze methane production and reduction, recycling efforts.

- Screaming Eagle Landfill owned by Waste Management accepts approximately 100,000 tons/yr of municipal solid waste from Lexington County. This gas to energy recycling system was brought online on February 21, 2006.
- Landfill Methane Outreach Program (LMOP) Participant. Program that aids the reduction of methane emissions from landfills by encouraging the recovery and use of landfill gas as energy source. ([www.epa.gov/landfill/index.htm](http://www.epa.gov/landfill/index.htm)) The 321 Landfill began the landfill gas extraction (LFG) system on October 17, 2001. The LFG collection and control system (GCCS) consists of a blower that draws an active vacuum through eight collection (extraction) wells placed within the northeast end of the 321 Landfill cap for capture of the LFG generated within the landfill mass. The gas control (flare) system is equipped with fully automated “fail-safe” controls for operation of the system with minimal interruption. The pumping station operates pneumatically and pumps the condensate to a 4000-gallon aboveground storage tank adjacent to the flare system. The flare is operated in the timer mode where it runs for approximately eleven hours and is off for the remainder of the day due to the relatively poor landfill gas quality. System effectiveness is maintained and an overall decline in methane levels has been witnessed since initiation of operations. The timing cycle maintains minimum manufacturer recommendations regarding LFG quality to support combustion at the flare. Due to the relatively poor landfill gas quality it would be cost prohibitive to set all of the collection probes on the flare system.

### **Estimate of Emission Reductions (if available)**

Not available. No reduction credits were taken for this measure in the South Carolina Early Action Compact SIP.

### **Implementation Date**

Completed in 2001 and continuing.

## Measures not included in the December 2004 SIP submittal

The following activities were not listed in the December 2004 SIP submittal under Appendix 8 – Local Action Plans, but are additional measures achieved in the Lexington County Area.

\*\*Described in Appendix 16 – County Level Emission Reductions and Descriptions For the Ozone Early Action Compact Areas of the December 2004 SC SIP submittal.

1. **School Bus Retrofit Project-Approximately 28 diesel buses will be retrofitted with particulate filters during 2006. Additional reductions of PM are also expected. \*\***
  - The school buses may not be retrofitted until 2007 when ultra-low sulfur diesel is more widely available since the retrofitting technology being applied works best with this new fuel type. The Environmental Protection Agency's ultra-low sulfur diesel fuel requirements went into effect on June 1, 2006. Ultra-low sulfur diesel fuel will be available at retail stations beginning summer 2006.
  
2. **Air Quality Awareness and Improvement Policy \*\***
  - Memorandum sent to all County department heads as well as elected officials and presented before County Council on August 24, 2004 and adopted as written; for the purpose of establishing certain principles that will guide the recurring activities of County government.  
Effective immediately:
    1. Encourage that all county employees are notified of upcoming Ozone Action Days.
    2. Implement car-pooling opportunities, when feasible.
      - Ride share to work
      - Ride to lunch and/or meetings with fellow employees
    3. Ensure that all County vehicles/equipment are operating according to the manufacturer's specifications.
    4. Restrict vehicle idling to no more than 10 minutes. Exceptions include emergency vehicles, traffic/weather conditions, and vehicles being repaired, maintained, or inspected.
    5. Restrict mowing and use of gas powered lawn equipment on County property on Ozone Action Days.
    6. Restrict mowing by landscaping additional areas of county property.
    7. Restrict all outdoor burning on Ozone Action Days.
    8. Practice energy conservation in all County facilities.
      - Turn off computers and lights in the office at the end of the day
      - Turn off all office lights when not in use
    9. Include environmental considerations in purchasing decisions for goods and services. An example of such would be to purchase Energy Star equipment.
    10. Purchase the lowest-emission vehicles practical to meet County needs. This may include the purchase of Tier II compliant vehicles, alternative fueled vehicles or hybrids.
  - Lexington County website has a link to the DHEC site with the Ozone Action Days.

- County sent memos August 2005, to all employees to see the interest to carpooling. Of the 1300 county employees only 42 responses were received showing interest in carpooling.
- All County employees are to turn off computers and lights when leaving at the end of each day.
- May 2006-Ozone Policy re-distributed to Department Heads to display in the Department and pass out to their employees
- A memo to department heads with instructions to circulate among employees and post in the department will be distributed based on reports received through the Enviroflash program. Enviroflash is a program sponsored by the EPA that provides important air quality information such as forecasts and action day notifications via email or pager notifications. The first Ozone Action Day memo was forwarded to department heads on Wednesday June 21 concerning Thursday June 22, 2006.

### **3. Create Air Quality Website**

- A new web page is currently under development specifically for air quality. The format for the website was forwarded to the County's Information Services Department in June 2006 and will be posted pending approval by the County's website development team that consists of top management in the County

### **4. Support SCDHEC statewide efforts to reduce ozone levels. - Stakeholder group to support and participate in modeling efforts. Develop stakeholder group to participate in development of regulations (NOx - BACT (Best Available Control Technology Economically Achievable), restrict open burning). \*\***

- December 2004 EAC SIP did include Appendix 16 - SC61-62.2 "Prohibition of Open Burning" regulation with reductions for 2007 calendar year - reductions expected during the ozone season for residential construction waste. Passed on June 25, 2004.
- SC61-62.5, Std. 5.2 "Control of Oxides of Nitrogen) reduction amount for both existing and new sources combined across Lexington and Richland counties for 2007 calendar year. Passed on June 25, 2004

### **5. Land use/Green Space- a planning study (2005-2006) by COATS (Columbia Area Transportation Study) for bicycle and pedestrian facilities in the Central Midlands regions (Lexington, Richland, Kershaw, and Calhoun Counties) as a viable modal choice. ([rsimmons@centralmidlands.org](mailto:rsimmons@centralmidlands.org))**

- Public Meeting held Nov. 14, 2005
- The final report of this study was released in March 2006 and included Early Action Projects for the construction of bicycle and pedestrian facilities that will be begin implementation within the first two years after adoption of the plan, depending on funding. They include:
  - Establishing a bike route on Center Street in West Columbia
  - Construct sidewalks on both sides of August Road (US 1) in Lexington County
  - Kick off a new neighborhood sidewalk program in the Town of Lexington

- Add sidewalks on both sides of Columbiana Drive in Irmo
- Improve pedestrian crossings at the intersection of North Main Street (US 1) and Columbia Avenue (US 378) in the Town of Lexington
- Provide sidewalks on both sides of Sunset Boulevard (US 378) on the east side of the Town of Lexington

#### **6. Land-Use Improvement Action**

- The Town of Lexington passed through Town Council two streets in The Town of Lexington to be designated as one-way streets to ease traffic congestion. Town Council passed at the Nov. 2005 meeting for Bulter and Main streets to be constructed as one-way.
- The new Stormwater Management Ordinance and Design Manual currently under design for the County's Phase II NPDES permit will include open space requirements such as lowering impervious area amounts and keeping natural vegetation. The second draft of the Stormwater Management Ordinance was received on June 8, 2006. The ordinance will not go before council until a final draft is complete and has been reviewed by the County Attorney for approval.
- Lexington County Council approves encouraging Low Impact Development (LID) in the County, which emphasizes decreasing impervious areas, leaving trees and other vegetation and "green power". May 9, 2006 County Council approved a reduction in land disturbance review fees for the first three project that incorporate LID in their design.
- In May and June 2006 the County's Planning Department and the Public Works has met with the Central Midlands Council of Governments to discuss including LID practices in residential and commercial development in the Midlands area.

#### **7. Green Power Support- MCEC (Mid-Carolina Electric Cooperative) offers the purchase of green power blocks. This power is distributed by Santee Cooper and blocks are currently being purchased by local commercial and residential stewards of the environment. Statewide there are 1300 residential co-op participants. ([www.santeecooper.com/greenpower/](http://www.santeecooper.com/greenpower/)) One block is equal to 100-kilowatt hours of electricity for residential customers and 200-kilowatt hours of electricity for commercial customers.**

- Local businesses supporting are Lowe's, BBT, Kinko, and Wachovia Banks.
- There are 115 residential Green Blocks Customers purchasing 164 blocks of green power in Lexington County as of May 2006. Residents can continue to purchase green blocks on voluntary basis.
- There are an average of 82 blocks of green power purchased by commercial customers in Lexington County as of May 2006. Businesses can continue to purchase green blocks on voluntary basis.
- .

#### **8. Energy Efficiency of New/Renovation of County Buildings**

- 2003-2004- All windows in the County Administration Building were replaced with energy efficient windows. The same windows were used in the new Courthouse also.

## **9. Grant/Fund Proposals**

- Lexington County/Richland County applied for grant for Gas Cap Replacement/Gas Cap Wrenches, but did not receive the grant.
- Lexington County will continue to research other grant opportunities to fund future projects. A meeting has been scheduled for June 20, 2006 with the grants librarian at the South Carolina State Library to learn more about researching and preparing grant proposals.

## **10. Landscaping**

- Planting of approximately 10-15 acres of trees and/or shrubbery for additional landscaping areas on Lexington County owned property that will reduce mowing and the use of gas powered lawn equipment. Planted trees from Jan.-Mar. 2005.
- Lexington County Planning /Department working with County Council and developers for proposed scenic corridors throughout the county for preservation of natural buffers along roadways. The progress on creating scenic corridors in the County is slow due to the issue of the location of utilities in public easements along the side of the road. Trees along roadways pose a threat to the proper function of utilities located in right-of-ways. The County Planning Department is considering residential buffers in lieu of scenic corridors. The County adopted the ability to grant scenic corridors designation to street as part of the Landscape ordinance adopted January 1, 2001.
- Lexington County has one (1) municipality that is designated as "Tree City USA" as of November 2003, and that is the Town of Lexington. There are several municipalities (Irmo, Gilbert, West Columbia, Cayce, Chapin) within Lexington County that currently have Tree Ordinances in place for development. Lexington County also has a Landscaping Ordinance that encourages the preservation of trees and has been in place since January 1, 2001.

## **11. Seminar/Presentations attended by Lexington County to further their knowledge of Air Quality**

- May 25, 2005 attended Dr, Dave Nowak-"Understanding the Effects of the Urban Forest on Air and Water Quality".
- June 22, 2005 participated in a conference call EPA, STATE, LOCAL partners and Office of Transportation and Air Quality to discuss how the "Best Work Places for Commuters" can help EACs.
- August 23-25, 2005 attended the Southern Transportation and Air Quality Summit (STAQS) Conference.
- November 3, 2005 Participated in conference call with DHEC and Richland County for guidance for the EAC Report due December 2005.
- March 13-14, 2006 attended the Midlands Low Impact Development Workshop presented by the Midlands Urban Conservation Committee.
- April 18, 2006 participated in a conference call with DHEC and other EAC members across the state concerning the 2006 EAC Summit in August 2006.

## **12. Public Awareness/Education**

- Providing/incorporating Air Quality information in county newsletter that goes to all employees. May 2006-Articles will be placed in Lexington County's bi-monthly newsletter called The County Scoop. These articles will update employees on ozone along with water quality issues and give advice on how individuals can decrease their impact on pollution. First article will appear in the June 2006 newsletter.
- Plans to present bimonthly updates to County Council and then present the updates to local municipalities was not completed due to the strict time constraints of county council meetings/agendas. The Council receives a packet at each meeting with updates that were not discussed on the Council agenda. Updates on the air quality program can be added to this information packet on a bimonthly basis and the subsequent memo mailed out to the local municipalities. The expectation is for these updates to begin after the meeting with the local industries set for July 2006.
- Work with the County GIS department for the introduction of an Environmental link for the Public Works Department discussing Air Quality and related issues. This idea was abandoned due to the work on an Air Quality web page to be featured on the Lexington County website. This web page should be up and running by Summer 2006.
- Spoke with Mid Carolina Electric Co-Op about publishing Air Quality information in their newsletter that is distributed to all MCEC customers. Information linking air quality to Green Power will be forwarded to MCEC during the summer of 2006.
- June 2005 - updated on educational air quality presentations for schools....; also working with landscape "guru" on educational/outreach presentations to local organization. Looking to implement Air Quality seminars with the Lexington County school system in 2006.
- May 2006-Lexington County signed up as an It All Adds Up to Cleaner Air partner. This is a nationwide public education campaign on air quality issues sponsored by the EPA, DOT, and FWA.
- June 2006-PBT Cable agreed to flash ozone awareness fact sheets on their cable access Channel 2. These fact sheets contain the "It All Adds Up to Cleaner Air" logo. This station serves the Gilbert, Pelion, Batesburg-Leesville, Lake Murray area and parts of the Town of Lexington.
- The Town of Lexington was given DHEC PSA's to air on its local cable access Channel 2 (through Time Warner Cable) in April 2006. The PSA's have not run to date, but are being held to add to the rotation when extra space needs to be filled. The Town's local channel reaches 100,000 residents.

### **13. Public Awareness/Information**

- Lexington County, with input from DHEC, is designing and constructing an Ozone Action sign that will display during the Ozone season the ozone alertness level. This will be posted at a heavily traveled intersection in Columbia. —This sign was completed in 2006 and the Public Works Department was honored by SCDHEC for creating the sign. The sign is currently on display at the front of the SCDHEC building on Bull Street in Columbia, SC.
- Ozone Awareness Week 2005 posters were displayed at the County Administration building along with brochures for all citizens and employees.

- 1200 brochures for spring season awareness were attached to employee paychecks on March 31, 2005 concerning Ozone Awareness.
- Press release about Ozone Awareness Week 2005 along with the Governor's Proclamation was hand delivered to Citadel Broadcasting Corp, Clear Channel marketing, Inner City Broadcasting, Glory Communications and Broomfield Broadcasting.
- PSA's formatted for Lexington County were distributed to Citadel Broadcasting Corp, Clear Channel marketing, Inner City Broadcasting, Glory Communications and Broomfield Broadcasting for Ozone Awareness Week 2005.

#### **14. Education of environmental issues within school systems**

- Amy Curran, DHEC, has been involved for 3 years with Gilbert Middle School for the implementation of wetlands, observation area, and kiosk. This has been an on going project since 2003.
- She conducted an outdoor workshop with the students on air quality on Oct, 25, 2005.
- Amy also taught the 7th graders at Northside Middle School the science curriculum incorporating the health and environmental issues of air quality on Nov. 15, 2005.
- Crossroads Middle School in Lexington County implemented a no idling policy for buses in 2004. They also encourage parents not to idle while waiting on children and have posted signs in the no idling zones.

#### **15. Join and participate in Clean Cities**

- May 2006 contacted Wendy Bell of the Catawba COG for more information on the Clean Cities initiative. This partnership shall increase public awareness of the environmental issues of air quality that Lexington County is working to improve.

#### **16. Recognition by SC Wildlife Federation**

- ~~The SC Wildlife Federation recognized Lexington County Planning Department for working with County Council and developers for proposed scenic corridors throughout the county for preservation of natural buffers along roadways.~~
- On January 22, 2005, Lexington County Council received statewide recognition from the South Carolina Wildlife Federation for its landscape ordinance. The Federation's Forestry award was in recognition of leadership and vision through comprehensive urban forestry programs recently implemented. Due to the variety of issues involved in a project of this magnitude, the county sought input from experts in landscaping and urban forestry as well as the public in developing the Ordinance. While the County's Ordinance is directed primarily at commercial development, it actually focuses on six different categories. The most important aspect of the Lexington County Landscape Ordinance is that its format enables it to be duplicated in any community regardless of location, political environment, or intensity of development. Air quality benefits of this ordinance are that it will help reduce emissions because of reduced use of gas powered yard equipment and the use of canopy trees in parking lots to cut down on evaporative emissions.

#### **17. Proposed Air Quality Events**

- Lexington County, in partnership with other agencies, is looking into holding a gas powered lawn mower/lawn equipment exchange. This event was originally planned for Spring 2006 but was canceled due to budgetary constraints. Lexington County, Richland County and DHEC representatives will be meeting on June 29, 2006 to reschedule this event for the Summer 2006.
- Co-sponsored with Richland County and SCDHEC two gas can exchange events located at the former Bush River Mall and at the Sandhills Research/Education Center. The events were held on June 4, 2004 and October 16, 2004 respectively. A total of 290 old gas cans were exchanged for new environmentally safe cans. \*\*
- Co-sponsored with Richland County and SCDHEC a vehicle maintenance check event for National Car Care Month at South Carolina State Museum on April 1, 2006. Sixty vehicles were checked for proper maintenance.

**18. Lexington County Comprehensive Plan-Adopted April 27, 1999**

- Components of the Lexington County Comprehensive Plan encourage the development of traffic-intensive commercial, industrial and higher density residential land uses near existing major roads, railroads and interstate highways.
- It discourages low-density residential development near existing major roads and interstate highways and encourages development patterns such that future growth can be effectively served by public transportation.
- It also provides for safe transportation facilities for bike and pedestrian usage and promotes the compatibility of different land uses as an alternative to completely segregating residential, commercial, industrial, agricultural and other uses from one another.
- Another effort includes working within the Central Midlands Council of Governments to ensure that the Columbia Area Transportation Plan (COATS) assists in the reversal of the “sprawl” development pattern.

**19. South Carolina Department of Education School Bus Funding**

- The Department of Education has been awarded a Clean School Bus USA Grant for \$499,099 to retrofit some buses in South Carolina with diesel oxidation catalysts and crankcase filters, replace some older buses and conduct a biodiesel pilot and an idle-reduction device pilot.
- DHEC is working with SC Department of Education to obtain grants from EPA. State Education Superintendent Inez Tenenbaum signed an order on June 20, 2006 to buy 630 new school buses with roughly \$36 million appropriated by the Legislature. These buses should be on South Carolina roads by the end of the year. These new buses will replace vehicles from 1984 and 1985 which are not fuel efficient and produce higher levels of polluted emissions than more modern vehicles.
- The benefits from these South Carolina Department of Education (SDE) funding sources will be distributed throughout the state. The SDE has agreed to make York County and the five deferred areas the top priority in assigning new and retrofitted buses to service. SDE is also partnering with private companies and local school districts to provide specific funding for school bus retrofits and clean air programs.



A. Control Measure under Consideration	B. Summary Description of Measure	C. Program/Measure Status	D. Specific Implementation Date	E. VOC Reduction	F. NOx Reduction	G. Resources (FTE's, \$\$)	H. Additional Information
<b>Central Midlands, SC (Designated - Attainment)</b>							
<b>JUNE 2006 NEWBERRY COUNTY</b> <b>Based on stakeholder consultation and taking into consideration resource and political constraints, the following emission reduction strategies remain under consideration. The County will continue to evaluate the air quality within the county and may implement one or more of the following measures under consideration.</b>							
Air Quality Contact	Tom Barber is County staff person responsible for air quality education/outreach and dissemination of ozone forecast.	Tom Barber will remain the contact person	Mar-03	n/a directionally sound	n/a directionally sound	n/a	See Comment #3
Support state-wide emission reduction efforts	County will offer support to DHEC for statewide emission reduction efforts such as open burning, and BACT	Completed. The county supported SCDHEC in the promulgation of the following regulations: SC61-62.2 "Prohibition of Open Burning" SC61-62.5 Std. 5.2 "Control of Oxides of Nitrogen:	Jun-04	n/a directionally sound	n/a directionally sound	n/a	See Comment #3
Web Site	County will include ozone numbers that are provided to county by DHEC	County has places several ozone awareness links on web page	June-05, Upon implementation by state	n/a directionally sound	n/a directionally sound	n/a	See Comment #3
Public Works	Public Works Director will investigate the possibilities of using BIO-Diesel in county heavy equipment and trucks	Public Works Director is surveying possibilities of use	Prior to Dec-06	n/a directionally sound	n/a directionally sound	n/a	
Park and Ride	County will encourage Park and RideLots for those workers driving to Columbia each day	Park and Ride is used daily and attempts are being made to encourage others to use service	Dec-03	n/a directionally sound	n/a directionally sound	n/a	See Comment #3
<b>Comments:</b> 1. December 2004 - SC EAC SIP - activity not quantified for several reasons (first) in accordance with EAC Protocol, after all adopted Federal and State controls were accounted for in the modeling, it was determined that local controls were not necessary to demonstrate attainment of the 8-hour ozone standard. Measures were submitted by the local areas to show their continued support and commitment to the EAC process. (second) this activity is directionally sound and should provide air quality benefits and in some cases measurable results. The progress toward implementing this activity and the benefits derived will be documented as a part of the ongoing reporting requirements. 2. December 2003 - Progress Report - See - <a href="http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac.html">http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac.html</a> - additional information provided by the county to include "findings", "advantages/disadvantages", "recommendations", "costs", etc... 3. March 2004 - Local Early Action Plan - See - <a href="http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0304.asp">http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0304.asp</a> 4. June 2004 - Progress Report - See - <a href="http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0604.asp">http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0604.asp</a> 5. December 2004 - Progress Report - See - <a href="http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_1204.asp">http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_1204.asp</a> 6. December 2004 - SC EAC SIP - Including Appendix 8 (Local Early Action Plans and the Air Quality Awareness and Improvement Policy) and Appendix 16 (County Level Emission Reductions and Descriptions for the Ozone EAC Areas) - See - <a href="http://www.scdhec.gov/eqc/baq/html/eap_sip.html">http://www.scdhec.gov/eqc/baq/html/eap_sip.html</a> 7. April 20, 2005 - Correspondence to Mr. Palmer including clarifying supplemental information to the EAC SIP submittal of December 2004. - See - <a href="http://www.scdhec.gov/eqc/baq/html/eap_sip.html">http://www.scdhec.gov/eqc/baq/html/eap_sip.html</a> 8. June 2005 - Progress Report - See - <a href="http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0605.asp">http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0605.asp</a>							

A. Control Measure Under Consideration	B. Summary Description of Measure	C. Program/Measure Status	D. Specific Implementation Date	E. VOC Reduction	F. NOx Reduction	G. Resources (FTE's, \$\$)	H. Additional Information
<b>11 South Carolina State Measures</b>							
<b>Comments:</b> Modeling for 2007, shows attainment without including measures beyond national and regional measures already finalized. 2012 and 2017 also shows attainment.							
<b>11 Central Midlands, SC (Effective date of nonattainment designation deferred) Richland County</b>							
Memorandum of Agreement 9/27/04 with SCE&G Wateree	Facility agreed to take permit limits on two coal-fired boilers during the ozone season as their commitment to the EAC process. NOx emissions from any boiler equipped with selective catalytic reduction systems (SCR) are not to exceed 0.15 lbs/MMBtu averaged over a 5-month period.	An MOA was signed with the SCE&G Wateree facility in which the facility agreed to take permit limits on two coal-fired boilers during the ozone season as their commitment to the EAC process. NOx emissions from any boiler equipped with selective catalytic reduction systems are not to exceed .15lbs/MMBtu averaged over a 5-month period. This agreement went into effect on September 27, 2004.	September 27, 2004		Limits to .15 lbs / MMBtu average from SCR equipped boilers during the ozone season		See Comment #6.
Memorandum of Agreement 8/12/04 with International Paper	Facility agreed to take an annual allowable NOx emission reduction of 1,000 tons at the Eastover Mill Facility. The Title V permit (#1900-0046) for the Eastover Mill provides for allowable NOx emissions totaling 5,155 tons per year. The facility-wide annual allowable NOx emission reduction will reduce allowable NOx emissions at the Eastover Mill from 5,155 to 4,155 tons per year.	The Eastover facility has utilized the "best available control technology" on all of their NOx and VOC emission units at the time of initial installation, and subsequently as part of any significant modification. The power boilers at the Eastover Mill produce low NOx emission levels because of both their design (e.g. tangential firing) and fuel type (e.g. waste wood). One power boiler at the Eastover Mill is covered under the "NOx SIP" and is expected to have emission levels well below their current allocation. An MOA was signed with International Paper in which the facility agreed to take an annual allowable Nox emission reduction of 1,000 tons at the Eastover Mill facility. The Title V permit for the Eastover Mill provides for allowable NOx emissions totaling 5,155 tons/year. The facility-wide annual allowable NOx reduction will reduce allowable NOx emissions at the Eastover Mill from 5,155 to 4,155 tons/year. This agreement went into effect on August 12, 2004.	August 12, 2004		1,000 tons allowable NOx limit		See Comment #6.
Biodiesel Buses at the University of South Carolina	The University of South Carolina, located in Richland County, has begun using 80/20 biodiesel to fuel several of its shuttle buses. The program began with a grant from the DOE to offset the marginal cost of biodiesel fuel, and benefitted from the long-term loan of a tank from United Energy.	The University of South Carolina, located in Richland County, has begun using 80/20 biodiesel to fuel several of its shuttle buses. The program began in 2002 with a grant from the DOE to offset the marginal cost of biodiesel fuel, and benefitted from the long-term loan of a tank from United Energy. DHEC estimates that this program will result in a reduction of 12 lbs of VOC's per year, 25 lbs of NOx per year, and 34 lbs of CO per year.	completed	25 lbs/ year	12 lbs/ year	CO reductions 34 lbs/year December 2004 EAC SIP - Appendix 16 See Comment #6	See Comment #6.
University of South Carolina Ethanol Project	The University of South Carolina, located in Richland County, has begun replacing regular gasoline vehicles with alternative, flexible-fuel vehicles, and has installed E85 infrastructure to supply those vehicles. (Other smaller gasoline-powered vehicles have been replaced with electric vehicles.)	The University of South Carolina, located in Richland County, has begun replacing regular gasoline vehicles with alternative, flexible-fuel vehicles, and has installed E85 infrastructure to supply those vehicles. (Other smaller gasoline-powered vehicles have been replaced with electric vehicles.) DHEC estimates that this program will result in a reduction of 18.9 lbs of VOC's per year, 18.3 lbs of NOx per year, and 1250 lbs of CO.	completed	18.3 lbs/ year	18.9 lbs/ year	CO reductions 1250 lbs/year December 2004 EAC SIP - Appendix 16 See Comment #6	See Comment #6.
SCDHEC flex fuel vehicles.	SCDHEC has a number of flex fuel vehicles that run almost exclusively on E85. SCDHEC uses approximately 23,500 gallons of E85 annually. Not all of the reduction in travel occurred in Richland County.	The use of flex-fuel vehicles has resulted in the displacement of approximately 23,500 gallons of gasoline annually. ** DHEC estimates that this program will result in a reduction of 104 lbs/yr of VOC's, and 103 lbs/yr of NOx and 6,030 lbs/yr of CO.		104 lbs/yr	103 lbs/yr		CO reductions 6030 lbs/year December 2004 EAC SIP - Appendix 16 See Comment 6
Take a Break from the Exhaust program, SCDHEC	Employees participate by choosing pollution-reducing alternatives to commuting alone to work during the ozone season from May 1 - September 30. Emissions are calculated for vehicle miles eliminated. Not all of the reduction in travel occurred within Richland County.	"Take a Break from the Exhaust" runs during the ozone season and reduces the number of miles traveled in Richland County. ** DHEC estimates that these programs will result in a reduction of 568 lbs of VOC's per ground level ozone season, 393 lbs of NOx per ground level ozone season and 5,494 lbs of CO per ground level ozone season.		568 lbs/ ozone season	393 lbs/ozone season		CO reductions 5,494 lbs/year December 2004 EAC SIP - Appendix 16 See Comment #6
Public Ethanol (E85) refueling station	1. On October 6, 2004, the county's first publicly accessible E85 refueling station in downtown was opened. Estimated annual reduction based on first 64 days. 2. Richland County is considering reapplying for ethanol fueling sites from DHEC.	3. There are currently eight E85 stations in the midlands area, including 6 in Richland County, 2 in Lexington County.	October 6, 2004	1. 162 lbs	1. 621 lbs.		1. CO reductions 2,369 lbs/year December 2004 EAC SIP - Appendix 16 See Comments #4, #6
"Smart Ride"	County employees and visitors to Richland County from the Camden, Sumter, and Newberry/Chapin areas are encouraged to ride SmartRide, a park and ride service offered by SCDOT.	SmartRide is a park and ride service offered by SC Department of Transportation, and offers service between Columbia and outlying Camden, Sumter and Newberry. County employees and visitors to Richland County from the Camden, Sumter, and Newberry/Chapin areas are encouraged to ride SmartRide.	SmartRide began in Fall 2003 and continues today	153 lbs.	207 lbs.		CO reductions 3,166 lbs/year December 2004 EAC SIP - Appendix 16 See Comment 6

South Carolina Department of Education	The benefits from these South Carolina Department of Education (SDE) funding sources will be distributed throughout the state. The SDE has agreed to make York County and the five deferred areas the top priority in assigning new and retrofitted buses to service. SDE is also partnering with private companies and local school districts to provide specific funding for school bus retrofits and clean air programs.	The Department of Education has been awarded a Clean School Bus USA Grant for \$499,099 to retrofit some buses in South Carolina with diesel oxidation catalysts and crankcase filters, replace some older buses and conduct a biodiesel pilot and an idle-reduction device pilot. State Education Superintendent Inez Tenenbaum signed an order on June 20, 2006 to buy 630 new school buses with roughly \$36 million appropriated by the Legislature. These buses should be on South Carolina roads by the end of the year. These new buses will replace vehicles from 1984 and 1985 which are not fuel efficient and produce higher levels of polluted emissions than more modern vehicles.	2006					
Lawnmower Exchange Event	Working with Lexington County, DHEC, and other sponsors, Richland County is currently planning a lawnmower exchange event to be held in the Spring of 2006. During the event, citizens will be able to turn in an old gasoline-powered engine in exchange for a discount on a new, electrically-powered lawnmower. This event will be the first held in the State of South Carolina.	To be held in the Summer of 2006.	To be completed in Summer 2006	TBD	TBD			
Kerosene Container Exchange Event	Working with Lexington County, DHEC, and other sponsors, Richland County is currently planning a kerosene container exchange event to be held in 2006.	Currently planning for 2006-07 exchange.	To be completed in 2006-07	TBD	TBD			
Promote Bicycling and Pedestrian Strategies as an Alternative to Driving	Columbia Cycle Summit	A Columbia Cycle Summit was held on Friday May 12, 2006 at EdVenture in Columbia. Andy Clarke, Executive Director of the League of American Bicyclists, was the keynote speaker. The workshop's goal was to develop an action plan for the city in order for Columbia to be designated as a bicycle friendly community by the league.	Completed	NA	NA			
	Bicycle and pedestrian Pathways Plan	On May 13, 2006, the Central Midlands Council of Governments unveiled a proposal, known as the Bicycle and Pedestrian Pathways Plan, which calls for 26 cycling projects to be completed in and around the City of Columbia in the next two years. Included in the plan are new bike lanes on area roads, as well as new lanes on an abandoned rail line.	Proposal Completed, implementation is pending funding.	NA	NA			
	Broadcast of "Bicycle/Pedestrian Planning Strategies" at USC	The USC Prevention Research Center and the SC Department of Transportation invite held a live broadcast of "Bicycle/Pedestrian Planning Strategies: From SAFETEA-LU to Safe Routes to School" on May 4, 2006, from 1:00 to 4:00 pm, EDT, at the Moore School of Business.	Completed	NA	NA			
Expand E-Government	Richland County has greatly expanded its e-government options. Using e-government to allow citizens to make tax payments, download forms, view maps, and have their questions answered will allow for fewer trips to the county administration building.	Online tax payments, online business license payments, online forms database, online GIS mapping application.	Completed, with continuing upgrades.	NA	NA			
Santee Cooper's Green Power Generating Station	Santee Cooper's third "green power" generating station began operation in Richland County on April 6, 2006. The \$8.5 million facility is located at Waste Management's Richland County landfill near Elgin. Methane gas produced by decomposing waste at the 124-acre landfill fuels a 5.5-megawatt gas-turbine generator.	The voluntary "green power" program is offered to residential customers in blocks of 100-kilowatt-hours each. Because it costs more to produce "green power" than by conventional means, a \$3 premium is charged on a customer's monthly electric bill.	Completed	NA	NA			
School Bus Retrofit Project (SCDOE)	Approximately 21 diesel buses will be retrofitted with particulate filters during 2006. (South Carolina Department of Education. Additional reductions of PM are also expected)	The school buses may not be retrofitted until 2007 when ultra-low sulfur diesel is more widely available since the retrofitting technology being applied works best with this new fuel type. The Environmental Protection Agency's ultra-low sulfur diesel fuel requirements went into effect on June 1, 2006. Ultra-low sulfur diesel fuel will be available at retail stations beginning summer 2006.	2006	357 lbs/year	n/a			CO reductions 2,499 lbs/year December 2004 EAC SIP - Appendix 16 See Comment #6

**RICHLAND COUNTY**

**Based on stakeholder consultation and taking into consideration resource and political constraints, the following control measures are under consideration pending modeling that demonstrates compliance in 2007 by SCDHEC. It is anticipated these measures under consideration will assist the Counties of Richland and Lexington, South Carolina, in achieving and/or maintaining the 8-hour ozone standard by 2007.**

**EARLY ACTION COMPACT EMISSION REDUCTION STRATEGIES**

1. Assign a County Air Quality Contact (Also measure 15)	The County Administrator has assigned a staff person to be responsible for all air quality education and outreach activities, and to insure dissemination of the ozone forecast.	Current Air Quality Contact: Joe Cronin, Research Manager	March 1, 2003	NA	NA	.25 FTE	See Comment #2 and #6
2. Gas Can Exchange Events	1. Events held on June 5 and October 16, 2004.	completed	June 5 and October 16, 2004	475 lbs/year			See comment #4, #6
3. Support SCDHEC's statewide efforts to reduce ozone levels	Richland County will offer support to DHEC for statewide emission reduction efforts such as restrictions on open burning, and BACT.	December 2004 EAC SIP did include Appendix 16 - 1. SC61-62.2 "Prohibition of Open Burning" regulation with reductions for 2007 calendar year - reductions expected during the ozone season for residential construction waste.  2. SC61-62.5, Std. 5.2 "Control of Oxides of Nitrogen" reduction amount for both existing and new sources combined across Lexington and Richland counties for 2007 calendar year.	1. June 25, 2004  2. June 25, 2004	54.16 tons/season  NA	11.40 tons/season  183.5 tons/yr		See comment #2 and #6
4. Promote Land Use Planning	Through Richland County's new Land Development Code, the county has altered its zoning regulations, design controls, and "green development" practices in an effort to promote smart, sustainable growth, which will aid in improving air quality throughout the county and region. Updates to the code are designed to address the following areas: 1. To provide for adequate light, air, and open space; 2. To prevent the overcrowding of land to avoid undue concentration of population and to lessen congestion in the roads; 3. To facilitate the creation of a convenient, attractive, and harmonious community; 4. To protect and preserve scenic, historic, cultural, or ecologically sensitive areas; 5. To regulate the density and distribution of populations and the uses of buildings, structures and land for trade, industry, residence, recreation, agriculture, forestry, conservation, airports and approaches thereto, water supply, sanitation, protection against floods, public activities and other purposes;  6. To facilitate the adequate provision or availability of transportation, police and fire protection, water, sewage, schools, parks and other recreational facilities, affordable housing, disaster evacuation, and other public services and requirements as are set forth in this chapter; 7. To secure safety from fire, flood, and other dangers; 8. To encourage the development of an economically sound and stable county; 9. To assure the timely provision of required roads, utilities, and other facilities and service to new land developments; 10. To assure the adequate provision of safe and convenient traffic access and circulation, both vehicular and pedestrian, in and through new land developments; 11. To assure the provision of needed public open spaces and building sites in new land developments through the dedication or reservation of land for recreational, educational, and/or transportation purposes; 12. To assure, in general, the wise and timely development of new areas, and redevelopment of previously developed areas in harmony with the comprehensive plans of Richland County and its municipalities; 13. To assure compatibility between neighboring properties and adjacent zoning districts; and 14. To further the public welfare in any other regard specified by the Richland County Council.	The new Land Development Code went into effect on July 1, 2005.	July 1, 2005	NA	NA		The County's new Land Development Code is available online at: <a href="http://www.rcgov.us/information/town/LandDevelopmentCode110904.pdf">http://www.rcgov.us/information/town/LandDevelopmentCode110904.pdf</a>
5. Join and participate in the SC Early Action Plan for 8-hour ozone.	Given its non-attainment status under the new 8-hour ozone standard, Richland County is actively participating in the South Carolina Early Action Program in an effort to promote cleaner air sooner through the implementation of various emission reduction strategies.	The county remains committed to the EAP and the emission reduction strategies listed below. Preliminary data shows that for the first time since the new federal standard went into effect, the three-year average of fourth highest ozone concentrations at each of the three ozone monitors located in Richland County now meet the tougher standard.	County Council agreed to participate in December 2002. The process continues until 2007.	NA	NA		See Comment #2 and #6
6. Industry Advisory Panel	Richland County seeks to create a forum by which local industries can communicate new ideas, and inform each other of the strides each has made in ozone reduction. This panel will focus on industries emitting the highest amounts of VOCs and NOx, but all Richland County industries and other interested parties will be invited to participate. Form a group representing stationary NOx sources in the county to share best practices, share technical resources in the county and pursue targeted NOx reductions. This group could review emission inventories and modeling data to identify stationary sources with significant impact on ozone air quality. This group could also share best practices for NOx control technology and technical/engineering resources and encourage NOx reductions to support ozone attainment.	Attempts to assemble an advisory panel have been met with little interest.	This initiative is currently on hold pending further interest.				
7. Replace gasoline golf carts with electric carts	Richland County has researched the possibility of purchasing electric golf carts for county fleet. The County currently has 4 golf carts, all of which use gasoline. Electric carts are lower maintenance and lower cost, and parts are also easier to get, thus providing more of an incentive to purchase electric carts in the future.	There are currently no plans to replace existing gasoline golf carts with electric. As carts are replaced as needed, electric carts will be preferred over gasoline if practicable.	Emphasis place the next time a golf cart is purchased.	NA	NA		See Comment #2 and #6
8. Assist with establishing alternative fuels for public fleets.	Under an administrative policy, Richland County has a goal of replacing 30% of its fleet by 2010 with the lowest emission vehicles practical. Under this policy, the county continues to pursue flexible fuel, alternative fuel, and hybrid vehicles for its fleet. <b>Flexible and Alternative Fuel Vehicles</b> 1. The county has purchased approximately two dozen flexible fuel (E85/Gasoline) vehicles for its public fleet. More flexible fuel vehicles will be purchased in future years as funding and availability under the state contract permits.  2. The Central Midlands Regional Transportation Authority (CMRTA) has 7 compressed natural gas (CNG) buses in its fleet, with the remaining vehicles operated by the "clean diesel" technology. CMRTA used 60,031 gallons of CNG during 2004. 3. County staff, in conjunction with DHEC and the Palmetto State Clean Fuels Coalition, continues to research and consider the possibility of using other alternative fuels, such as biodiesel. To become more familiar with available alternatives to gasoline, staff has attended all Clean Cities meetings, along with special events, such as the coalition's Biofuels Showcase, held in Columbia on November 18, 2005  4. The county, in conjunction with DHEC, continues to pursue grant funds to convert existing vehicles to alternative fuel, to purchase new alternative fuel vehicles, and to install the needed infrastructure to service alternative fuel vehicles. a. CNG Vehicles Grant Application b. Diesel Retrofit Grant Application c. E85 Fueling Infrastructure Grant Application						See Comment #2 and #6
		2004 (Unfunded)	Unfunded	NA	NA		
		2004 (Unfunded)	Unfunded	NA	NA		
		2005 (Unfunded)	Unfunded	NA	NA		

	Hybrid Vehicles		Completed	NA	NA		
	1. Staff has researched the practicality of replacing traditional fleet vehicles with hybrid vehicles. 2. For the first time, the state contract has included a Chevrolet 1500 hybrid pickup truck. The county's fleet manager and other members of staff met with the vendor on December 13, 2005 to test drive and learn more about the vehicle. To date, the county has purchased 8 of these hybrid vehicles, each of which will receive approximately 12% better fuel efficiency, and release 1600 fewer pounds of emissions into the air each year than the traditional pickup.	Purchases expected in FY 2005-06	Completed Completed April 2006	1600 lbs less total emissions per vehicle per year.			
9. Implement a program to foster ozone awareness and to educate and motivate individuals to take actions to minimize ozone pollution.	Richland County is committed to promoting ozone awareness, both internally and externally. By using the measures listed below, the County has sought to educate residents about the harmful effects of ozone, and the everyday steps they can take to improve air quality and reduce ozone in Richland County.						See Comments #2 #6 and #8 for additional information.
	1. Place SCDHEC's Daily Air Quality Index on the County Website.	A link appears on the County's main page, www.rcgov.us. DHEC updates the index on a daily basis during the ozone season.	Began Spring 2005	NA	NA		
	2. Place air quality related informational and educational items on the County's website.	A link appears on the County's main page for information on the Ozone EAP, http://www.rcgov.us/information/ozone/home.asp. The page includes information about the County's plan, progress reports, links to informational websites, and electronic versions of educational fliers and brochures.	Completed, replacing materials as needed	NA	NA		
	3. Issue press releases and promote news coverage of the county's ozone-related events and initiatives.	The Ozone Coordinator, working in conjunction with the Public Information Office, frequently issues press releases and offers media interviews to promote ozone awareness and to highlight county initiatives.	Completed, with continuing releases as needed	NA	NA		
	4. Actively participate in Ozone Awareness Week	The county actively participated in Ozone Awareness Week.	Completed March 28 through April 1, 2005	NA	NA		
	5. Place informational posters in the County Administration Building.	Informational posters appear in the lobby of the building, directly across from the Treasurer's Office, where residents come to pay vehicle and other taxes.	Placed in the lobby in Spring 2005 and remains there indefinitely.	NA	NA		
	6. Place informational brochures and fliers in the County Administration Building.	Informational brochures and fliers appear in the lobby of the building. The supply is restocked as needed.	Completed, replacing materials as needed	NA	NA		
	7. Encourage mass transit and other transportation alternatives.	Employees are encouraged via email to use mass transit by e-mail. A poster is currently being developed to be placed in the lobby to advertise bus service and the SmartRide Program.	Completed, with continuing reminders	NA	NA		
	8. Keep county employees updated on air quality issues by email regularly.	The county's Ozone Coordinator frequently e-mails county staff regarding air quality issues. E-mails in 2005 included updates on forecasted ozone action days, information on the availability of E85 and other alternative fuels, a list of things you can do to improve air quality, and car maintenance tips to improve fuel efficiency and lower emissions.	Completed, with continuing reminders	NA	NA		
	9. Actively participate in Earth Day Events	SC DHEC held Earth Day festivities on April 22 at the SC State Museum, located in Richland County. Other events corresponding with the event were held, including an alternative fuels display at Earth Fare, a local health food store.	Completed	NA	NA		
	10. Actively participate in Car Awareness Week	Richland County was a participant in DHEC's Car Care Awareness Week activities. A segment of the county's television show was dedicated to promoting the event, and staff was on hand to assist.	Completed	NA	NA		
	11. Use the county's new television show, Richland Revealed, to promote ozone awareness.	Richland County has entered into an agreement with the local WB station to broadcast Richland Revealed at 11:30 am on Sunday mornings. An episode of the show to be dedicated to air quality is planned for the spring of 2006. This episode will highlight the importance of clean air, and promote steps that can be taken to reduce pollution.	Completed, with continuing updates	NA	NA		
10. Meet with representatives of other metropolitan areas that have implemented programs to learn from experiences.	Frequently survey or work in conjunction with other jurisdictions to discuss initiatives or events that might be adapted for use in Richland County.	Valuable research on hybrid vehicle use and lawnmower exchange projects has been obtained using such collaboration.	Began Spring 2003, with continuing dialogue	NA	NA		See Comments #2 #6 and #8
	Actively engaging in Clean Cities, which has stakeholders from other counties, municipalities, and state agencies, as well as the private and non-profit sector.	Staff has obtained a greater understanding of alternative fuels and their implications for cleaner air by attending Clean Cities meetings and events.	Completed				
	Work with non-profit organizations on air quality and environmental-related issues. Clean Air Report briefing was held for members of Richland County and Columbia City Council						
	1. The "Clean Air Report for the Columbia Area" was issued by the Southern Environmental Law Center. Staff members regularly interact with SELC staff.	Clean Air Report released publicly on June 6, 2005. The relationship with the SELC is ongoing.	Completed, with continuing dialogue				
	2. Partnership with Keep the Midlands Beautiful and other local organizations on special projects.	Participant in gas can exchange event, likely participant for upcoming lawnmower exchange event.	Completed, with continuing dialogue				
11. Offer compressed work weeks or flexible schedules to County employees	Many Richland County employees operate on a flex schedule. We hope to expand this program to other departments where feasible (excluding most emergency services employees.) The implementation of compressed work weeks and flex time helps reduce traffic congestion during the peak driving hours by spreading out the number of vehicles on the roadway over a longer period of time.		Completed, with future expansion as needed.	NA	NA		See Comment #2 and #6
12. Encourage carpooling, vanpooling, and mass transit as an alternative to single passenger trips	County employees and visitors to Richland County from the Camden, Sumter, and Newberry/Chapin areas are encouraged to ride SmartRide, a park and ride service offered by SCDOT.	The number of SmartRide riders has increased substantially since its inception. SCDOT now offers free trips on Ozone Action Days.	SmartRide began in Fall 2003 and continues today	NA	NA		See Comment #2 and #6
	County employees and visitors to Richland County are encouraged to use the Central Midlands Regional Transportation Authority's bus system.		Completed, with continuing reminders	NA	NA		
	In 2004, the County Ozone Coordinator undertook a survey of county employees to gauge interest in car-pooling initiatives.	Unfortunately, county employees expressed little interest in car-pooling initiatives.	Completed Spring 2004	NA	NA		
	With the recent increase in gas prices, the Ozone Coordinator has begun researching new park-and-ride and car-pooling initiatives.	Research has been done as to which zip codes county employees are coming from. A pilot park-and-ride program is expected to begin in Spring 2006. If successful, the program will expand to other areas of the region.	Research was undertaken in Summer 2005. A pilot program may begin with future interest.	NA	NA		
13. Join and participate in Clean Cities	Richland County signed on as a stakeholder in the Palmetto Clean Fuels Coalition (which is now Clean Cities) on July 22, 2003. The county joined the coalition in an effort to seek ways to increase the availability of alternative fuels in our county, to increase the use of those fuels, and to increase public awareness of the benefits of using alternative fuels. Richland County sends a representative to all Clean Cities meetings.	Richland County remains a stakeholder in this organization, and continues to send a representative to all coalition meetings.	July 22, 2003	NA	NA		See Comment #2 and #6
		With the assistance of the coalition, there are now six service stations that offer E85 to the public in Richland County.					
14. Develop City and County Energy Conservation Plan	Richland County currently promotes internal recycling in the administration building, as well as other county-owned buildings. Recycling bins are placed throughout the building, ranging from white paper to aluminum can receptacles. We remind employees to turn off lights and computers when not in use. Council is currently considering the possibility of hiring an energy conservation consultant to survey county buildings for inefficiencies and to plan for financing any needed upgrades to county facilities.		Completed, with continuing reminders Pending Council action	NA	NA		See Comment #2 and #6
15. Assign Staff to become air quality contact/expert for jurisdiction	The staff member assigned as air quality contact is also the expert for the jurisdiction.	Please see Measure 2, Assign a county air quality contact.	Completed in 2003				

16. Encourage Mass Transit (transportation choices and alternatives)	All Richland County citizens have access to mass transit.	Use of mass transit is specifically encouraged for county, city and state employees. Palmetto Health Richland and Baptist are the first and second largest users of the bus system respectively. Since education and awareness foster ozone awareness and to educate and motivate individuals to take actions to minimize ozone pollution' section g. foster use of public transit, this measure has been included as part of measure 9.	Completed and continuing with reminders.				
17. Encourage not overfilling fuel tank	Stop when the nozzle clicks off.	This information is contained on fliers that are posted throughout county departments. The flier is also online, and available to the public.	Completed in 2003 and continuing				
18. Restrict mowing days and times all year, especially during ozone season / ozone action days. Promote the use of electric and propane lawn mowers.	Per the Richland County Administrator's directive, all mowing and the use of gas-powered lawn equipment on County property should be restricted on Ozone Action Days (orange and above), when manageable. In addition, the County will seek to landscape facilities in ways that reduce equipment use, thereby requiring lower maintenance, and resulting in fewer emissions.		Effective - October 8, 2004	NA	NA		See Comment #2 and #6
19. Consider Tree Planting/landscaping standards.	Planted trees reduce the need for air conditioning, reduce the heat island effect in urban areas, and reduce energy usage. Tree ordinances could be drafted to establish minimum tree planting standards for new development; and to promote strategic tree planting, street trees, and parking lot trees.	Landscaping standards are included in the Land Development Code. Tree ordinances have been drafted to establish minimum tree planting standards for new development, and to promote strategic tree planting, street trees, and parking lot trees. Stringent specifications are laid out in this section along with repercussions for not abiding by these standards. The Land Development Code's proposed implementation date is January 1, 2005. The Planning Commission transmitted its recommended draft of the Land Development Code to the County Council on 12/31/03 and the Landscaping Standards, Section 26-176 on 2/13/04. The New Land Development Code - Effective 7/1/05 - revised 11/9/04 is available online at: <a href="http://www.richlandonline.com/information/town/LandDevelopmentCode110904.pdf">http://www.richlandonline.com/information/town/LandDevelopmentCode110904.pdf</a> Landscaping Standards, Section 26-176 is located on pages 254 through 270.	Completed. New Land Development Code effective 7/1/05.				
20. Reduction of VOC emissions and Reduction of NOx Emissions at International Paper Eastover Mill	MOA was signed with International Paper in which the facility agreed to take an annual allowable Nox emission reduction of 1,000 tons at the Eastover Mill facility. The Title V permit for the Eastover Mill provides for allowable NOx emissions totaling 5,155 tons/year. The facility-wide annual allowable NOx reduction will reduce allowable NOx emissions at the Eastover Mill from 5,155 to 4,155 tons/year. (See Comment #6 for specific information regarding reductions.)		August 12, 2004	NA	1,000 tons/year		See information above. See Comment #6 for specific information regarding reductions
21. Reduction of Nox emissions at SCE&G's Wateree Plant	MOA was signed with the SCE&G Wateree facility in which the facility agreed to take permit limits on two coal-fired boilers during the ozone season as their commitment to the EAC process. Nox emissions from any boiler equipped with selective catalytic reduction systems are not to exceed .15lbs/MMBtu averaged over a 5-month period. (See Comment #6 for specific information regarding reductions.)		September 27, 2004	NA	Emission Limit of .15lbs/MMBtu during the ozone season.		See information above. See Comment #6 for specific information regarding reductions
22. Prohibit/limit/ban open burning (all year or May - September or on Ozone Action Days); encourage to mulch clearing debris rather than burning it.	Richland County's Code of Ordinances prohibits all fires within the right-of-way of any street, road, or highway except in certain cases. Open fires may be set in performance of an official duty of any public officer when deemed necessary to protect property, life, or the public welfare. Salamanders or other devices may be used for heating by construction or other workers, provided no nuisance is created. Open burning is prohibited within any "residential" zoning district (with a few exceptions). During a pollution alert declared by duly constituted authority, any and all open burning shall be unlawful.	Codified in Richland County Code of Ordinances, Section 10-1.	Completed, with continuing enforcement	54.16 tons/season	11.4 tons/season		See Richland County Code of Ordinances, Section 10-1, available online at: <a href="http://www.amlegal.com/richlandco%5Fsc/">http://www.amlegal.com/richlandco%5Fsc/</a>
<b>RICHLAND COUNTY AIR QUALITY IMPROVEMENT POLICY - ADMINISTRATOR'S DIRECTIVE</b>							
Air Quality Awareness and Improvement Policy	An Administrative Directive, issued October 8, 2004, for the purpose of establishing policies by which air quality and awareness will be improved via recurring activities of County government. Details of the policy include:  1. Ensure that all employees continue to be notified of upcoming ozone action days. Notification occurs via email. 2. Departments allowed to promote flex-scheduling where feasible. Certain employees in emergency services departments are unable to practice flex-scheduling, but other operational departments are allowed to promote this option where manageable. 3. Richland County has several Tier II compliant vehicles and pieces of equipment currently in its fleet and will increase this number. Richland County had budgeted for 13 alternative fuel vehicles (AFVs) in FY 2004-2005, with an increase in the purchasing of AFVs thereafter. It shall be the goal of the County that by 2010, 30% of the County fleet will be the lowest emission vehicles practical. 4. All County vehicles and equipment are operating according to the manufacturer's specifications, and shall continue to do so. Richland County currently uses recyclable oil filters with an extended service interval capacity, which allows the county to perform oil changes at 4,000 or 5,000 miles instead of 3,000. Richland County seeks to incorporate synthetic oils and fluids in its maintenance program, which offer superior protection and longer service intervals. 5. Drivers are required to eliminate vehicle idling. Exceptions include emergency vehicles, traffic/weather conditions, and vehicles being repaired, maintained, or inspected. These exceptions should occur only as reasonably required for specific operations. 6. Restrict mowing and use of gas-powered lawn equipment on County property on Ozone Action Days (orange and above) where manageable. 7. The County will seek to landscape facilities in ways that reduce equipment use, thereby promoting lower maintenance, resulting in fewer emissions. 8. During a pollution alert, such as an ozone action day, all outdoor burning shall be unlawful. (See Richland County Ordinance Chapter 10, Section 10-1.) 9. Richland County will continue to practice energy conservation in all County facilities. Conservation measures include turning off lights and computers on nights, weekends, and on holidays. Strong emphasis and preference will be placed on purchasing Energy Star compliant products. 10. Recycling efforts shall remain ongoing at County facilities. SEE Comment #6	Ongoing	Effective - October 8, 2004	NA	NA		See comment #6
<b>Comments:</b>							
1. December 2004 - SC EAC SIP - activity not quantified for several reasons (first) in accordance with EAC Protocol, after all adopted Federal and State controls were accounted for in the modeling, it was determined that local controls were not necessary to demonstrate attainment of the 8-hour ozone standard. Measures were submitted by the local areas to show their continued support and commitment to the EAC process. (second) this activity is directionally sound and should provide air quality benefits and in some cases measurable results. The progress toward implementing this activity and the benefits derived will be documented as a part of the ongoing reporting requirements.							
2. December 2003 - Progress Report - See - <a href="http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac.html">http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac.html</a> - additional information provided by the county to include "findings," "advantages/disadvantages," "recommendations," "costs," etc....							
3. March 2004 - Local Early Action Plan - See - <a href="http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0304.asp">http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0304.asp</a>							
4. June 2004 - Progress Report - See - <a href="http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0604.asp">http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0604.asp</a>							
5. December 2004 - Progress Report - See - <a href="http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_1204.asp">http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_1204.asp</a>							
6. December 2004 - SC EAC SIP - Including Appendix 8 (Local Early Action Plans and the Air Quality Awareness and Improvement Policy) and Appendix 16 (County Level Emission Reductions and Descriptions for the Ozone EAC Areas) - See - <a href="http://www.scdhec.gov/eqc/baq/html/eap_sip.html">http://www.scdhec.gov/eqc/baq/html/eap_sip.html</a>							
7. April 20, 2005 - Correspondence to Mr. Palmer including clarifying supplemental information to the EAC SIP submittal of December 2004. - See - <a href="http://www.scdhec.gov/eqc/baq/html/eap_sip.html">http://www.scdhec.gov/eqc/baq/html/eap_sip.html</a>							
8. June 2005 - Progress Report - See - <a href="http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0605.asp">http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0605.asp</a>							

## **Richland County, South Carolina**

### Local Early Action Compact Measures

Prepared by Joe Cronin

In an effort to keep our contact information updated we have provided the following information for the county:

	Name	Telephone	E-mail Address
Administrator/Manager	Milton Pope	(803) 576-2058	<a href="mailto:miltonpope@richlandonline.com">miltonpope@richlandonline.com</a>
EAC contact	Joe Cronin	(803) 576-2066	<a href="mailto:joecronin@richlandonline.com">joecronin@richlandonline.com</a>

Based on stakeholder consultation and taking into consideration resource and political constraints, the following control measures are under consideration pending modeling that demonstrates compliance in 2007 by SCDHEC. It is anticipated these measures under consideration will assist the County of Richland, South Carolina, in achieving and/or maintaining the 8-hour ozone standard by 2007.

## **1. Assign a county air quality contact**

### **Description of Measure**

The Richland County Ozone Coordinator is responsible for all air quality education and outreach activities, and to insure the dissemination of the ozone forecast. The Ozone coordinator also works with SCDHEC and other parties on air quality issues relevant to Richland County.

- The Richland County Administrator assigned a staff person, Ms. Roxanne Matthews, to serve as the Richland County Ozone Coordinator on March 1, 2003.
- Ms. Matthews was replaced in this capacity by Mr. Joseph Cronin on March 15, 2005. Mr. Cronin continues to serve as Ozone Coordinator.

### **Estimate of Emission Reductions (if available)**

Not applicable. No reduction credits were taken for this measure in the South Carolina Early Action Compact SIP.

### **Implementation Status**

Completed in 2003 and continuing.

## **2. Gas can exchange events**

- Working with Lexington County, DHEC, and other sponsors, Richland County held two gas can exchange events, on June 5, 2004 and October 16, 2004.
- Over 200 cans were exchanged during the June and October events.

### **Estimate of Emission Reductions (if available)**

DHEC estimates that these exchanges will result in a reduction of 475 lbs of VOC's per year. No reduction credits were taken for this measure in the South Carolina Early Action Compact SIP.

### **Implementation Status**

Completed in 2004.

### **3. Support state-wide emission reduction efforts**

#### **Description of Measure**

Richland County has offered support to DHEC for statewide emission reduction efforts such as restrictions on open burning and BACT.

1. SC61-62.2 "Prohibition of Open Burning" regulation with reductions for 2007 calendar year - reductions expected during the ozone season for residential construction waste. DHEC estimates that this will result in a reduction of 54.16 tons of VOC's per season, and 11.4 tons of NOx per season.
2. SC61-62.5, Std. 5.2 "Control of Oxides of Nitrogen" reduction amount for both existing and new sources combined across Lexington and Richland counties for 2007 calendar year. DHEC estimates that this will result in a reduction of 183.5 tons of NOx per season.

#### **Estimate of Emission Reductions (if available)**

See information above. No reduction credits were taken for this measure in the South Carolina Early Action Compact SIP.

#### **Implementation Status**

Completed on June 25, 2004 with continuing restrictions.

## **4. Promote land-use planning**

### **Description of Measure**

Intentionally altering the urban environment to improve air quality. Examples are transit oriented development, infill development, and pedestrian oriented development, concentrated activity centers, strengthening downtowns, balancing location of housing and employment opportunities. Can include policies, programs or actions such as zoning regulations, design controls, "green development" practices, and incentive programs to encourage smart growth.

Through Richland County's new Land Development Code, the county has altered its zoning regulations, design controls, and "green development" practices in an effort to promote smart, sustainable growth, which will aid in improving air quality throughout the county and region. Updates to the code are designed to address the following areas:

1. To provide for adequate light, air, and open space;
2. To prevent the overcrowding of land to avoid undue concentration of population and to lessen congestion in the roads;
3. To facilitate the creation of a convenient, attractive, and harmonious community;
4. To protect and preserve scenic, historic, cultural, or ecologically sensitive areas;
5. To regulate the density and distribution of populations and the uses of buildings, structures and land for trade, industry, residence, recreation, agriculture, forestry, conservation, airports and approaches thereto, water supply, sanitation, protection against floods, public activities and other purposes;
6. To facilitate the adequate provision or availability of transportation, police and fire protection, water, sewage, schools, parks and other recreational facilities, affordable housing, disaster evacuation, and other public services and requirements as are set forth in this chapter;
7. To secure safety from fire, flood, and other dangers;
8. To encourage the development of an economically sound and stable county;
9. To assure the timely provision of required roads, utilities, and other facilities and service to new land developments;
10. To assure the adequate provision of safe and convenient traffic access and circulation, both vehicular and pedestrian, in and through new land developments;
11. To assure the provision of needed public open spaces and building sites in new land developments through the dedication or reservation of land for recreational, educational, and/or transportation purposes;
12. To assure, in general, the wise and timely development of new areas, and redevelopment of previously developed areas in harmony with the comprehensive plans of Richland County and its municipalities;
13. To assure compatibility between neighboring properties and adjacent zoning districts; and
14. To further the public welfare in any other regard specified by the Richland County Council.

- Among its many purposes, the LDC specifies planning requirements that seek to “lessen congestion in the roads.” For the first time, site plans for major land development must include a traffic management plan: “An evaluation of the effect of traffic generated by a development on the operation and safety of the adjacent public roads. Such analysis shall include an identification of traffic impact mitigation measures needed to improve the safety, operation, and flow of vehicular and pedestrian movement into and out of the development.”
- Richland County Council sponsored a neighborhood meeting on April 16, 2005, to share information on planning, design, and development of livable communities. Dr. Chuck Bohl, an internationally recognized expert on this topic is scheduled to speak.
- Richland County has contracted with the Palmetto Conservation Foundation (PCF) to address how land use, transportation, parks, and trails can be incorporated into a greenway network that builds on the Three Rivers Greenway and Palmetto Trail and promote integrating physical activity into daily routines. The primary activities of focus are bicycle/pedestrian transportation, safe routes to school, and community planning. In combination with Bicycle/Pedestrian planning now underway at the Columbia Metropolitan Planning Organization, car commuters will have additional commuter options. PCF has already participated in a successful active living campaign in Spartanburg, South Carolina, which brings, in part, an air quality benefit that Columbia and Richland County want to emulate.

**Estimate of Emission Reductions (if available)**

Not applicable. No reduction credits were taken for this measure in the South Carolina Early Action Compact SIP.

**Implementation Status**

Completed. Richland County’s new land development code went into effect on July 1, 2005.

## **5. Join and participate in Clean Cities**

### **Description of Measure**

The county joined the coalition in an effort to seek ways to increase the availability of alternative fuels in our county, to increase the use of those fuels, and to increase public awareness of the benefits of using alternative fuels.

- Richland County signed on as a stakeholder in the Palmetto Clean Fuels Coalition (which is now Clean Cities) on July 22, 2003.
- Richland County sends a representative to all Clean Cities meetings, including the most recent meeting on March 23, 2003.
- With the assistance of the coalition, there are now six service stations that offer E85 to the public in Richland County.

### **Estimate of Emission Reductions (if available)**

Not applicable. No reduction credits were taken for this measure in the South Carolina Early Action Compact SIP.

### **Implementation Status**

Completed in 2003 and continuing.

## **6. Industry Advisory Panel**

### **Description of Measure**

Richland County seeks to create a forum by which local industries can communicate new ideas, and inform each other of the strides each has made in ozone reduction. This panel will focus on industries emitting the highest amounts of VOCs and NOx, but all Richland County industries and other interested parties will be invited to participate. Form a group representing stationary NOx sources in the county to share best practices, share technical resources in the county and pursue targeted NOx reductions. This group could review emission inventories and modeling data to identify stationary sources with significant impact on ozone air quality. This group could also share best practices for NOx control technology and technical/engineering resources and encourage NOx reductions to support ozone attainment.

- Attempts to assemble an advisory panel have been met with little interest.

### **Estimate of Emission Reductions (if available)**

Not applicable. No reduction credits were taken for this measure in the South Carolina Early Action Compact SIP.

### **Implementation Status**

This initiative is currently on hold pending further interest.

## **7. Replace gasoline golf carts with electric cars**

### **Description of Measure**

Richland County has researched the possibility of purchasing electric golf carts for county fleet. The County currently has 4 golf carts, all of which use gasoline. Electric carts are lower maintenance and lower cost, and parts are also easier to obtain, thus providing more of an incentive to purchase electric carts in the future.

- There are currently no plans to replace existing gasoline golf carts with electric. However, as carts in the county fleet are replaced, electric carts will be preferred over gasoline, if practicable.

### **Estimate of Emission Reductions (if available)**

Not applicable. No reduction credits were taken for this measure in the South Carolina Early Action Compact SIP.

### **Implementation Status**

Pending the replacement of golf carts, as needed.

## **8. Assist with establishing alternative fuels for public fleets.**

### **Description of Measure**

Fuels other than gasoline and diesel that are used to power on-road vehicles. Examples of alternative fuels include bio-diesel, electricity, ethanol, liquefied petroleum gas, methanol and natural gas.

On October 13, 2004, Richland County Government published an ambitious administrative directive to increase the purchase of alternative fuel vehicles, the purpose being to significantly improve air quality in the region and to decrease County dependence on the less desirable petroleum. Conversion of the current fleet of 400 vehicles (excludes emergency and heavy-duty) has begun with the budgeting of twenty-four alternative fuel vehicles in FY2006. By purchasing at this level each year for five years, the County will reach the goal of 120 AFVs (30%) by the year 2010.

Administration has also issued a policy directive requiring all vehicle purchases to be approved by the County Fleet Manager. By staying current on available AFV models, the County will make better decisions on vehicle orders, insuring maximum participation in this directive. Under this policy, the county continues to pursue flexible fuel, alternative fuel, and hybrid vehicles for its fleet.

### **a. Purchase Flexible and Alternative Fuel Vehicles**

The county has purchased approximately two dozen flexible fuel (E85/Gasoline) vehicles for its public fleet. More flexible fuel vehicles will be purchased in future years as funding and availability under the state contract permits.

There were 1,815 gallons of biodiesel purchased and 38,020 gallons of ethanol purchased in 2004 in Richland County. There are approximately 745 alternative fuel vehicles operating within federal, state, county, and municipal government.

Status: Approximately two dozen purchased to date. Future purchases are planned.

### **b. CNG Buses for CMRTA**

The Central Midlands Regional Transportation Authority (CMRTA) has 7 compressed natural gas (CNG) buses in its fleet, with the remaining vehicles operated by the "clean diesel" technology. CMRTA used 60,031 gallons of CNG during 2004.

Status: Completed.

**c. Ongoing research into new cleaner and alternative fuels**

County staff, in conjunction with DHEC and the Palmetto State Clean Fuels Coalition, continues to research and consider the possibility of using other alternative fuels, such as biodiesel and hydrogen.

Staff has attended meetings and special events regarding cleaner and alternative fuels, including:

- **Clean Cities Meetings**
- **Biofuels Showcase held in Columbia on November 18, 2005 (Columbia)**
- **Fuel Cell South 2006 Hydrogen Conference, April 24 – 26, 2006 (Columbia)**

On April 13, 2005, there was a grand opening of 2 ethanol-refueling stations within the Richland County available to the public. There were two constructed in 2004. The opening of these stations was made possible by efforts of the Palmetto States Clean Fuel Coalition and its local members.

Status: Completed. Staff will continue to attend and participate in upcoming alternative fuel events.

**d. Pursue grant opportunities for alternative fuel infrastructure and equipment**

The county, in conjunction with DHEC, continues to pursue grant funds to convert existing vehicles to alternative fuel, to purchase new alternative fuel vehicles, and to install the needed infrastructure to service alternative fuel vehicles.

**1. CNG Vehicles Grant Application**

Status: Applied in 2004, Unfunded.

**2. Diesel Retrofit Grant Application**

Status: Applied in 2004, Unfunded.

**3. E85 Fueling Infrastructure Grant Application**

Status: Applied in 2005, Unfunded.

**e. Purchase Hybrid Vehicles**

The county took delivery of eight hybrid pick up trucks in March and April of 2006. These are the first hybrid vehicles in the County's fleet. The trucks have 12% better fuel economy and release 1600 fewer pounds of emissions each year

than similar non-hybrid models. The trucks also have several outlets which allow county staff to run electrical equipment off the battery of the vehicle, rather than a gasoline powered generator.

Status: Completed.

- The Governor signed Hybrid vehicle bill H4312 on June 1, 2006. Act 312, R371, H4312 Bill may be viewed at [http://www.scstatehouse.net/sess116\\_2005-2006/bills/4312.htm](http://www.scstatehouse.net/sess116_2005-2006/bills/4312.htm) and its caption reads: An act to amend the Code of Laws of South Carolina, 1976, by adding Section 12-6-3377 so as to allow a state income tax credit equal to twenty percent of certain new hybrid, fuel cell, alternative fuel, or lean burn technology motor vehicle. Credits allowed against a taxpayer's federal income tax liability.

**Estimate of Emission Reductions (if available)**

Not applicable. No reduction credits were taken for this measure in the South Carolina Early Action Compact SIP.

**Implementation Status**

Completed in 2004 and continuing

**9. Implement a program to educate and motivate individuals to take actions to minimize ozone pollution.**

**Description of Measure**

Includes a focused distribution of educational materials, dissemination of SCDHEC ground-level ozone forecast, increased media alerts to specific audiences, and includes action oriented components (i.e. ridesharing, telecommuting, etc.) Aims to foster ozone awareness and to educate and motivate individuals to take actions to minimize ozone pollution

Richland County is committed to promoting ozone awareness, both internally and externally. By using the measures listed below, the County has sought to educate residents about the harmful effects of ozone, and the everyday steps they can take to improve air quality and reduce ozone in Richland County.

**a. Place SCDHEC's Daily Air Quality Index on the County Website**

Since May 2005, a link has appeared on the County's main page, [www.rcgov.us](http://www.rcgov.us), directing visitor's to DHEC's daily air quality report. DHEC updates the index on a daily basis during the ozone season.

Status: Completed

**b. Place air quality related informational and educational items on the County's website**

A link appears on the County's main page for information on the Ozone EAP, <http://www.rcgov.us/information/ozone/home.asp>. The page includes information about the County's plan, progress reports, links to informational websites, and electronic versions of educational fliers and brochures.

Status: Completed

**c. Have a plan in place to issue press releases and promote news coverage of the county's ozone-related events and initiatives**

The Ozone Coordinator, working in conjunction with the Public Information Office, frequently issues press releases and offers media interviews to promote ozone awareness and to highlight county initiatives.

Status: Completed. Press releases are released on a regular basis.

**d. Actively participate in Ozone Awareness Week**

The county actively participated in Ozone Awareness Week during the week of

March 28 – April 1, 2005.

Status: Completed

**e. Place informational posters in the County Administration Building**

Informational (“Good Up High, Bad Nearby”) posters appear in the lobby of the building, directly across from the Treasurer's Office, where residents come to pay vehicle and other taxes. The posters were put up in Spring 2005 and remain.

Status: Completed.

**f. Place informational brochures and fliers in the County Administration Building**

Informational brochures and fliers appear in the lobby of the building. The supply is restocked as needed.

Status: Completed.

**g. Encourage mass transit and other transportation alternatives**

Employees are encouraged via email to use mass transit, especially prior to forecasted ozone awareness days. A poster is currently being developed to be placed in the lobby to advertise bus service and the SmartRide Program.

Status: Completed, with continuing updates and promotion.

**h. Keep county employees updated on air quality issues by email regularly**

The county's Ozone Coordinator frequently e-mails county staff regarding air quality issues. E-mails in 2005 included updates on forecasted ozone action days, information on the availability of E85 and other alternative fuels, a list of things you can do to improve air quality, and car maintenance tips to improve fuel efficiency and lower emissions.

Status: Completed, with continuing updates.

**i. Use the county's new television show, Richland Revealed, to promote ozone awareness**

Richland County has entered into an agreement with the local WB station to broadcast Richland Revealed at 11:30 am on Sunday mornings. An episode of the show to be dedicated to car care and air quality awareness was aired during the spring of 2006 in conjunction with Car Care Awareness Week.

Status: Completed.

**j. Actively participate in Car Care Awareness Week**

Richland County was a participant in DHEC's Car Care Awareness Week activities. A segment of the county's television show was dedicated to promoting the event, and staff was on hand to assist.

Status: Completed.

**k. Actively participate in Earth Day Events**

SC DHEC held Earth Day festivities on April 22 at the SC State Museum, located in Richland County. Other events corresponding with the event were held, including an alternative fuels display at Earth Fare, a local health food store.

Status: Completed.

**Estimate of Emission Reductions (if available)**

Not applicable. No reduction credits were taken for this measure in the South Carolina Early Action Compact SIP.

**Implementation Status**

Completed in 2005 and continuing.

**10. Meet with representatives of other metropolitan areas that have implemented programs to learn from experiences.**

**Description of Measure**

Engage other governmental entities and organizations to share ideas and build knowledge of air quality issues. Determine feasibility of replicating successful programs or components in local areas.

Richland County is committed to learning from and sharing ideas with other governments and organizations in order to build knowledge of air quality issues. Such actions have included:

**d. Survey on government hybrid vehicle use and performance (nationwide)**

The county Ozone Coordinator undertook a nationwide survey by e-mail of government agencies using hybrid vehicles. Survey results, in conjunction with economic and environmental incentives, influenced the county's decision to purchase eight hybrid vehicles in the current fiscal year.

Status: Completed.

**e. Research of lawnmower exchange programs (nationwide)**

The county Ozone Coordinator, working in conjunction with DHEC and the Ozone Coordinator in neighboring Lexington County, has researched previous lawnmower exchange programs that have occurred in other parts of the country. Results from this contact has assisted the three agencies in planning a lawnmower exchange event to be held in 2006.

Status: Completed.

**f. Participation in Clean Cities, which has stakeholders from other counties, municipalities and state agencies, as well as representatives from the private and non-profit sector.**

Richland County joined Clean Cities in July 2003, and sends a member of staff to all Clean Cities meetings.

Status: Completed, Staff will continue to attend stakeholder meetings.

**g. Work with non-profit organization and environmental groups on air quality-related issues.**

Richland County has established working relationships and lines of communication with environmental organizations such as:

- **The Southern Environmental Law Center**, which published a “Clean Air Report for the Columbia Area” on June 6, 2005.
- **Keep the Midlands Beautiful and other local organizations**, who assist in air quality outreach and participate in local events, such as the gas can exchange events.

**Estimate of Emission Reductions (if available)**

Not applicable. No reduction credits were taken for this measure in the South Carolina Early Action Compact SIP.

**Implementation Status**

Completed in 2003 and continuing.

## **11. Use compressed work weeks or flexible work hours**

### **Description of Measure**

Offer compressed work weeks or flexible schedules to county employees. The implementation of compressed work weeks and flex time helps reduce traffic congestion during the peak driving hours by spreading out the number of vehicles on the roadway over a longer period of time.

- Richland County has implemented flex scheduling, and many Richland County employees operate on flex schedules. We hope to expand this program to other departments where feasible (excluding most emergency services employees.)

### **Estimate of Emission Reductions (if available)**

Not applicable. No reduction credits were taken for this measure in the South Carolina Early Action Compact SIP.

### **Implementation Status**

Completed in 2004 and continuing. To be expanded as feasible.

**12. Encourage carpooling, vanpooling as an option where employees living in the same area agree to ride to work together rather than to drive their individual vehicles to work.**

**Description of Measure**

Encourage carpooling whenever possible and also encourage mass transit as an alternative to single passenger trips

**a. SmartRide**

SmartRide is a park and ride service offered by SC Department of Transportation, and offers service between Columbia and outlying Camden, Sumter and Newberry. County employees and visitors to Richland County from the Camden, Sumter, and Newberry/Chapin areas are encouraged to ride SmartRide.

Status: Completed, with continued promotion. The service, provided by the SCDOT, remains available.

**b. CMRTA Bus Service**

County employees and visitors to Richland County are encouraged to use the Central Midlands Regional Transportation Authority's bus system, with service in Columbia and surrounding areas. The system serves more than 40,000 passengers each week.

In 2005, the CMRTA was named the most improved public transportation system in South Carolina.

Status: Completed, with continued promotion.

**c. Car-Pooling**

In 2004, the County Ozone Coordinator undertook a survey of county employees

to gauge interest in car-pooling initiatives. Unfortunately, county employees expressed little interest in car-pooling initiatives.

Following the recent increase in gas prices, the Ozone Coordinator began researching new park-and-ride and car-pooling initiatives. Research has been done as to which zip codes county employees are coming from. In upcoming months, a survey will be again be administered to county employees to see if there is more interest in car-pooling and park-and-ride. If there is sufficient interest, a pilot park-and-ride program is expected to begin. If successful, the program will expand to other areas of the region.

Status: Employee car-pooling initiatives have not yet been initiated due to low interest. However, staff will continue to gauge interest in car-pooling and park-and-ride.

**Estimate of Emission Reductions (if available)**

Not applicable. No reduction credits were taken for this measure in the South Carolina Early Action Compact SIP.

**Implementation Status**

Completed in 2004 and continuing.

### **13. Local government joins and participates in the SC Early Action Plan for 8-hour Ozone.**

#### **Description of Measure**

Join and participate in the SC Early Action Plan for 8-hour Ozone. Given its non-attainment status under the new 8-hour ozone standard, Richland County is actively participating in the South Carolina Early Action Program in an effort to promote cleaner air sooner through the implementation of various emission reduction strategies. The county remains committed to the EAP and the emission reduction strategies listed below.

- County Council agreed to participate in the early action program in December 2002. Since that date, the county has maintained its commitment to pursuing each of its emission reduction strategies to the fullest extent possible, and will continue to look for new and innovative ways to promote cleaner air countywide.
- Preliminary data from SCDHEC shows that for the first time since the new federal standard went into effect, the three-year average of fourth highest ozone concentrations at each of the three ozone monitors located in Richland County now meet the tougher standard.

#### **Estimate of Emission Reductions (if available)**

Not applicable. No reduction credits were taken for this measure in the South Carolina Early Action Compact SIP.

#### **Implementation Status**

County Council agreed to participate in December 2002. The process continues through 2007.

## **14. Develop City and County Energy Plan (Energy Conservation )**

### **Description of Measure**

An energy plan could be developed that directs municipal departments to reduce energy use. This could include retrofitting municipal buildings/city schools and street lights for energy efficient, i.e. "Energy Star" Program, white roofs, etc., promoting transportation alternatives, and encouraging recycling and composting.

- Richland County currently promotes internal recycling in the administration building, as well as other county-owned buildings. Recycling bins are placed throughout the building, ranging from white paper to aluminum can receptacles. We remind employees to turn off lights and computers when not in use.
- County Council is currently considering the possibility of hiring an energy conservation contractor to survey county buildings for inefficiencies and to plan for financing any needed upgrades to county facilities.

### **Estimate of Emission Reductions (if available)**

Not applicable. No reduction credits were taken for this measure in the South Carolina Early Action Compact SIP.

### **Implementation Status**

Completed, with continuing reminders and further implementation pending Council action.

## **15. Assign staff to become air quality contact/expert for jurisdiction**

### **Description of Measure**

The staff member assigned as air quality contact is also the expert for the jurisdiction.

- Please see Measure 2, Assign a county air quality contact.

### **Estimate of Emission Reductions (if available)**

Not applicable. No reduction credits were taken for this measure in the South Carolina Early Action Compact SIP.

### **Implementation Status**

Completed in 2003 and continuing.

## **16. Encourage Mass Transit (transportation choices and alternatives)**

### **Description of Measure**

All Richland County citizens have access to mass transit.

- Use of mass transit is specifically encouraged for county, city and state employees.
- Palmetto Health Richland and Baptist are the first and second largest users of the bus system respectively.
- Since education and awareness foster ozone awareness and to educate and motivate individuals to take actions to minimize ozone pollution” section g. foster use of public transit, this measure has been included as part of measure 9.

○

### **Estimate of Emission Reductions (if available)**

Not applicable. No reduction credits were taken for this measure in the South Carolina Early Action Compact SIP.

### **Implementation Status**

Completed and continuing with continuing reminders.

**17. Encourage not overfilling your fuel tank.**

**Description of Measure**

Stop when the nozzle clicks off.

- This information is contained on fliers that are posted throughout county departments. The flier is also online, and available to the public.

**Estimate of Emission Reductions (if available)**

Not applicable. No reduction credits were taken for this measure in the South Carolina Early Action Compact SIP.

**Implementation Status**

Completed in 2003 and continuing.

**18. Restrict mowing days and times all year, especially during ozone season/ozone action days. Promote the use of electric and propane lawnmowers**

**Description of Measure**

Ozone action days will be a factor in scheduling county activities. Also, the county seeks to communicate to large landscaping firms asking for cooperation and encouraging all in the county to refrain from use of gas-powered equipment on ozone action days.

- Per the Richland County Administrator's directive, all mowing and the use of gas-powered lawn equipment on County property should be restricted on Ozone Action Days (orange and above), when manageable. In addition, the County will seek to landscape facilities in ways that reduce equipment use, thereby requiring lower maintenance, and resulting in fewer emissions. This directive went into effect on October 8, 2004.
- Lawnmower exchange event - Working with Lexington County, DHEC, and other sponsors, Richland County is currently planning a lawnmower exchange event to be held in the Summer of 2006. During the event, citizens will be able to turn in an old gasoline-powered engine in exchange for a discount on a new, electrically-powered lawnmower. This event will be the first of its kind held in the State of South Carolina. Due to staff changes at Richland and Lexington County, this event was pushed back from Spring 2006 to Summer 2006. Richland County is currently working with DHEC and Lexington County to finalize the exchange, which is planned to take place in Summer 2006.

**Estimate of Emission Reductions (if available)**

Not applicable. No reduction credits were taken for this measure in the South Carolina Early Action Compact SIP.

**Implementation Status**

Completed in 2004 with continuing restrictions.

## **19. Consider Tree Planting/landscaping standards.**

### **Description of Measure**

Planted trees reduce the need for air conditioning, reduce the heat island effect in urban areas, and reduce energy usage. Tree ordinances could be drafted to establish minimum tree planting standards for new development; and to promote strategic tree planting, street trees, and parking lot trees.

Landscaping standards are included in the Land Development Code. Tree ordinances have been drafted to establish minimum tree planting standards for new development, and to promote strategic tree planting, street trees, and parking lot trees. Stringent specifications are laid out in this section along with repercussions for not abiding by these standards.

- The Land Development Code's proposed implementation date is January 1, 2005.
- The Planning Commission transmitted its recommended draft of the Land Development Code to the County Council on 12/31/03 and the Landscaping Standards, Section 26-176 on 2/13/04. The New Land Development Code - Effective 7/1/05 - revised 11/9/04 is available online at:  
<http://www.richlandonline.com/information/town/LandDevelopmentCode110904.pdf>  
Landscaping Standards, Section 26-176 is located on pages 254 through 270.

### **Estimate of Emission Reductions (if available)**

Not applicable. No reduction credits were taken for this measure in the South Carolina Early Action Compact SIP.

### **Implementation Status**

Completed. New Land Development Code effective 7/1/05.

## **20. Reduction of NOx and VOC emissions at International Paper (IP): Eastover Mill**

- The Eastover facility has utilized the “best available control technology” on all of their NOx and VOC emission units at the time of initial installation, and subsequently as part of any significant modification. The power boilers at the Eastover Mill produce low NOx emission levels because of both their design (e.g. tangential firing) and fuel type (e.g. waste wood). One power boiler at the Eastover Mill is covered under the “NOx SIP” and is expected to have emission levels well below their current allocation.
- An MOA was signed with International Paper in which the facility agreed to take an annual allowable Nox emission reduction of 1,000 tons at the Eastover Mill facility. The Title V permit for the Eastover Mill provides for allowable NOx emissions totaling 5,155 tons/year. The facility-wide annual allowable NOx reduction will reduce allowable NOx emissions at the Eastover Mill from 5,155 to 4,155 tons/year. This agreement went into effect on August 12, 2004.

### **Estimate of Emission Reductions (if available)**

No reduction credits were taken for this measure in the South Carolina Early Action Compact SIP.

### **Implementation Status**

Completed in 2004.

## **21. Reduction of emissions at SCE&G: Wateree Plant**

- An MOA was signed with the SCE&G Wateree facility in which the facility agreed to take permit limits on two coal-fired boilers during the ozone season as their commitment to the EAC process. NOx emissions from any boiler equipped with selective catalytic reduction systems are not to exceed .15lbs/MMBtu averaged over a 5-month period. This agreement went into effect on September 27, 2004.

### **Estimate of Emission Reductions (if available)**

No reduction credits were taken for this measure in the South Carolina Early Action Compact SIP.

### **Implementation Status**

Completed in 2004.

## **22. Prohibit/limit/ban open burning. Encourage mulching clearing debris as an alternative to burning**

- Richland County's Code of Ordinances prohibits all fires within the right-of-way of any street, road, or highway except in certain cases. Open fires may be set in performance of an official duty of any public officer when deemed necessary to protect property, life, or the public welfare. Salamanders or other devices may be used for heating by construction or other workers, provided no nuisance is created.
- Open burning is prohibited within any "residential" zoning district (with a few exceptions). During a pollution alert declared by duly constituted authority, any and all open burning shall be unlawful. (Codified in Richland County Code of Ordinances, Section 10-1.)

### **Estimate of Emission Reductions (if available)**

DHEC estimates that these restrictions will result in a reduction of 54.16 tons of VOC's per season, and 11.4 tons of NOx per season. No reduction credits were taken for this measure in the South Carolina Early Action Compact SIP.

### **Implementation Status**

Completed in 2004 with continuing enforcement.

## **Measures not included in the December 2004 SIP submittal**

The following activities were not listed in the December 2004 SIP submittal under Appendix 8 – Local Action Plans, but are additional measures achieved in the Richland County Area.

\*\*Described in Appendix 16 – County Level Emission Reductions and Descriptions For the Ozone Early Action Compact Areas of the December 2004 SC SIP submittal.

### **1. School bus retrofit project (SC Department of Education) \*\***

The South Carolina Department of Education will retrofit approximately 21 diesel buses with particulate filters during 2006. (SC Department of Education. Additional reductions of PM are also expected.) The school buses may not be retrofitted until 2007 when ultra-low sulfur diesel is more widely available since the retrofitting technology being applied works best with this new fuel type. The Environmental Protection Agency's ultra-low sulfur diesel fuel requirements went into effect on June 1, 2006. Ultra-low sulfur diesel fuel will be available at retail stations beginning summer 2006.

DHEC estimates that these retrofits will result in a reduction of 357 lbs of VOC's per year as well as 2,499 lbs of CO per year.

In addition:

- The Department of Education has been awarded a Clean School Bus USA Grant for \$499,099 to retrofit some buses in South Carolina with diesel oxidation catalysts and crankcase filters, replace some older buses and conduct a biodiesel pilot and an idle-reduction device pilot.
- State Education Superintendent Inez Tenenbaum signed an order on June 20, 2006 to buy 630 new school buses with roughly \$36 million appropriated by the Legislature. These buses should be on South Carolina roads by the end of the year. These new buses will replace vehicles from 1984 and 1985 which are not fuel efficient and produce higher levels of polluted emissions than more modern vehicles.
- The benefits from these South Carolina Department of Education (SDE) funding sources will be distributed throughout the state. The SDE has agreed to make York County and the five deferred areas the top priority in assigning new and retrofitted buses to service. SDE is also partnering with private companies and local school districts to provide specific funding for school bus retrofits and clean air programs.

Status: To be completed in 2006.

### **2. Biodiesel buses at the University of South Carolina \*\***

The University of South Carolina, located in Richland County, has begun using 80/20 biodiesel to fuel several of its shuttle buses. The program began in 2002 with a grant from the DOE to offset the marginal cost of biodiesel fuel, and benefited from the long-term loan of a tank from United Energy.

DHEC estimates that this program will result in a reduction of 12 lbs of VOC's per year, 25 lbs of NOx per year, and 34 lbs of CO per year.

Status: Completed.

### 3. **University of South Carolina Ethanol Project** \*\*

The University of South Carolina, located in Richland County, has begun replacing regular gasoline vehicles with alternative, flexible-fuel vehicles, and has installed E85 infrastructure to supply those vehicles. (Other smaller gasoline-powered vehicles have been replaced with electric vehicles.)

DHEC estimates that this program will result in a reduction of 18.9 lbs of VOC's per year, 18.3 lbs of NOx per year, and 1250 lbs of CO.

Status: Completed, with continuing future vehicle replacements.

### 4. **SCDHEC Initiatives in Richland County**

SCDHEC, headquartered in Richland County, has initiated programs that encourage employees to choose pollution-reducing transportation alternatives. DHEC also has a number of flex-fuel vehicles which run almost exclusively on E85.

- a. **"Take a Break from the Exhaust"** runs during the ozone season and reduces the number of miles traveled in Richland County. \*\*

DHEC estimates that these programs will result in a reduction of 568 lbs of VOC's per ground level ozone season, 393 lbs of NOx per ground level ozone season and 5,494 lbs of CO per ground level ozone season.

Status: Completed.

- b. The use of **flex-fuel vehicles** has resulted in the displacement of approximately 23,500 gallons of gasoline annually. \*\*

DHEC estimates that this program will result in a reduction of 104 lbs/yr of VOC's, and 103 lbs/yr of NOx and 6,030 lbs/yr of CO.

Status: Completed.

## **5. Kerosene container exchange event**

Working with Lexington County, DHEC, and other sponsors, Richland County is currently planning a kerosene container exchange event to be held in 2006 or 2007.

Status: This event is currently in the planning stages.

## **6. Develop Air Quality Awareness and Improvement Policy \*\***

On October 8, 2004, the County Administrator issued a directive for the purpose of establishing policies by which air quality and awareness will be improved via recurring activities of County government. Details of the policy include:

1. Ensure that all employees continue to be notified of upcoming ozone action days. Notification occurs via email.
2. Departments allowed to promote flex-scheduling where feasible. Certain employees in emergency services departments are unable to practice flex-scheduling, but other operational departments are allowed to promote this option where manageable.
3. Richland County has several Tier II compliant vehicles and pieces of equipment currently in its fleet and will increase this number. Richland County had budgeted for 13 alternative fuel vehicles (AFVs) in FY 2004-2005, with an increase in the purchasing of AFVs thereafter. It shall be the goal of the County that by 2010, 30% of the County fleet will be the lowest emission vehicles practical.
4. All County vehicles and equipment are operating according to the manufacturer's specifications, and shall continue to do so. Richland County currently uses recyclable oil filters with an extended service interval capacity, which allows the county to perform oil changes at 4,000 or 5,000 miles instead of 3,000. Richland County seeks to incorporate synthetic oils and fluids in its maintenance program, which offer superior protection and longer service intervals.
5. Drivers are required to eliminate vehicle idling. Exceptions include emergency vehicles, traffic/weather conditions, and vehicles being repaired, maintained, or inspected. These exceptions should occur only as reasonably required for specific operations.
6. Restrict mowing and use of gas-powered lawn equipment on County property on Ozone Action Days (orange and above) where manageable.
7. The County will seek to landscape facilities in ways that reduce equipment use, thereby promoting lower maintenance, resulting in fewer emissions.
8. During a pollution alert, such as an ozone action day, all outdoor burning shall be unlawful. (See Richland County Ordinance Chapter 10, Section 10-1.)

9. Richland County will continue to practice energy conservation in all County facilities. Conservation measures include turning off lights and computers on nights, weekends, and on holidays. Strong emphasis and preference will be placed on purchasing Energy Star compliant products.
10. Recycling efforts shall remain ongoing at County facilities.

Status: Completed, with continuing reminders and compliance monitoring.

## **7. Promote bicycling and pedestrian strategies as an alternative to driving**

Richland County is committed to promoting bicycling and walking as an alternative to driving by providing greater access to bicycle and pedestrian pathways.

### **h. Columbia Cycle Summit**

A Columbia Cycle Summit was held on Friday May 12, 2006 at EdVenture in Columbia. Andy Clarke, Executive Director of the League of American Bicyclists, was the keynote speaker. The workshop's goal was to develop an action plan for the city in order for Columbia to be designated as a bicycle friendly community by the league.

Status: Completed.

### **i. Bicycle and Pedestrian Pathways Plan**

On May 13, 2006, the Central Midlands Council of Governments unveiled a proposal, known as the Bicycle and Pedestrian Pathways Plan, which calls for 26 cycling projects to be completed in and around the City of Columbia in the next two years. Included in the plan are new bike lanes on area roads, as well as new lanes on an abandoned rail line.

Status: Plan completed, implementation pending funding.

### **j. Columbia Cycle Summit**

The USC Prevention Research Center and the SC Department of Transportation invite held a live broadcast of "Bicycle/Pedestrian Planning Strategies: From SAFETEA-LU to Safe Routes to School" on May 4, 2006, from 1:00 to 4:00 pm, EDT, at the Moore School of Business.

The purpose of this broadcast was to highlight key bicycle and pedestrian provisions of SAFETEA-LU and the administrative efforts underway to implement them. In addition, a panel of stakeholders discussed their successful programs and initiatives. These presentations provided insight into the broad range of activities supported by the legislation and offered guidance on implementing programs in communities across the country.

Status: Completed.

## **8. Expand e-government technology to cut down on unnecessary trips to county buildings**

Richland County has greatly expanded its e-government options. Using e-government to allow citizens to make tax payments, download forms, view maps, and have their questions answered will allow for fewer trips to the county administration building.

- **Online tax payments** – Completed
- **Online business license payments** – Completed
- **Online forms database** – Completed
- **Online GIS Mapping application** – Completed, with continuing upgrades

## **9. Santee Cooper's "Green Power" Generating Station**

Santee Cooper's third "green power" generating station began operation in Richland County on April 6, 2006. The \$8.5 million facility is located at Waste Management's Richland County landfill near Elgin. Methane gas produced by decomposing waste at the 124-acre landfill fuels a 5.5-megawatt gas-turbine generator.

The voluntary "green power" program is offered to residential customers in blocks of 100-kilowatt-hours each. Because it costs more to produce "green power" than by conventional means, a \$3 premium is charged on a customer's monthly electric bill.

Status: Completed.