

US EPA ARCHIVE DOCUMENT

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Promoting and protecting the health of the public and the environment

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December 14, 2007

Mr. J. I. Palmer, Jr., Regional Administrator
U.S. EPA, Region 4
Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, GA 30303

RE: December 2007 Early Action Progress Report

Dear Mr. Palmer:

In the Fall of 2002, the Environmental Protection Agency (EPA) allowed areas the opportunity to enter into an 8-hour Ozone Early Action Compact (EAC). South Carolina led the nation with forty-five counties electing to participate in the EAC process. By signing the EAC, the counties agreed to implement emission reduction strategies in an effort to attain the 1997 8-hour Ozone standard by December 2007, three years earlier than federally required. In April 2004, when EPA issued boundary designations for the 8-hour Ozone standard, only three areas in South Carolina were designated nonattainment. The Rock Hill-Fort Mill Area Transportation Study (RFATS) Metropolitan Planning Organization (MPO) in York County was designated nonattainment due to their inclusion in the Charlotte Metropolitan Statistical Area. The Columbia Area (portions of Richland and Lexington counties) and the Greenville-Spartanburg-Anderson Area (all of the three counties) were designated nonattainment; however, as a result of their participation in the 8-hour Ozone EAC process, the effective date of their designation was deferred.

As a requirement of the EAC, South Carolina is pleased to submit this EAC Progress Report including documentation showing attainment of the 1997 8-hour Ozone standard. Strong commitments by local stakeholders, including local governments, as well as local industry and environmental groups working together, in conjunction with regional and state-wide efforts, have been successful in South Carolina, and we have the data to support the success of these efforts. Most recent data is evidence that at times when the meteorological patterns are conducive to the formation of ozone, the ozone monitors did not reveal elevated readings. While weather is definitely a factor in the formation of ozone, it is one component that we do not have the ability to control. However, local stakeholders given the flexibility to implement programs geared toward reducing oxides of nitrogen emissions do have an impact on the formation of ozone.

On December 6, 2007, Mr. Scott Reynolds, Director of the Division of Air Quality Analysis submitted documentation certifying that all South Carolina SLAMS ozone ambient monitoring and the associated quality assurance data for the 2007 Ozone Season (through October 2007) were completely submitted to AQS and are accurate to the best of his knowledge. The correspondence included a summary report generated through AQS to provide accurate 2007 ozone summary statistics for the State of South Carolina. A copy of this correspondence and report is included as Enclosure 1. Also included in Enclosure 1 is a table which gives the 4th highest 8-hour average for each of the monitoring sites for the years 2003, 2004, 2005, 2006 and 2007 as well as the three year design values for 2003-2005, 2004-2006 and 2005-2007.

In 2005, South Carolina committed to an annual review of growth (highway mobile and stationary NO_x sources) to ensure emission reduction strategies and growth are adequate as well as identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates. Review of this information indicates that for both areas designated nonattainment with the effective date deferred, the actual emissions were lower than the forecasted modeled data and the 2006 VMT was well below the action trigger. Detailed information with supporting graphs is included in Enclosure 2.

As per EPA guidance, the EAC identified eight key milestones that must be met for continued participation. All participating areas in South Carolina, including those areas designated attainment but electing to continue participation have met all milestones. In addition, each of these counties has submitted semi-annual progress reports every year, beginning with the June 2003 report. This document contains the tenth and final EAC progress report. Enclosure 3 includes the table provided by EPA's guidance document of October 17, 2005, for each participating county identifying each of the local measures included in their respective local early action plan. Additionally, a narrative description of activity from the five counties in the deferred nonattainment areas is included. Information regarding activities that have occurred since June 2007 is included for each county and is grouped by the following areas:

Appalachian: Anderson, Cherokee, Greenville, Oconee, Pickens, Spartanburg
Catawba: Chester, Lancaster, Union, York
Pee Dee: Chesterfield, Darlington, Dillon, Florence, Marion, Marlboro
Waccamaw: Georgetown, Horry, Williamsburg
Santee Lynches: Clarendon, Kershaw, Lee, Sumter
Berkeley-Charleston-Dorchester: Berkeley, Charleston, Dorchester
Low Country: Beaufort, Colleton, Hampton, Jasper
Lower Savannah: Aiken, Allendale, Bamberg, Barnwell, Calhoun, Orangeburg
Central Midlands: Fairfield, Lexington, Newberry, Richland
Upper Savannah: Abbeville, Edgefield, Greenwood, Laurens, Saluda

As pointed out in previous EAC progress reports, the emission reduction strategies submitted by the local areas contain both quantifiable and directionally sound measures. However, it should be noted that none of them were used to demonstrate attainment in 2007. A table and narrative description identifying statewide activities and progress made toward each is included as Enclosure 4 Statewide EAC Activities.

EPA should be commended for allowing areas the opportunity and flexibility to improve air quality by implementing local programs earlier than would be required under federal mandates and for rewarding these areas by deferring the prescriptive requirements of nonattainment. The partnership opportunities developed over the last several years and the awareness of the participants, including local officials, state agencies, universities, organizations, businesses, industries, environmental groups and other stakeholders about air quality issues have resulted in proactive, voluntary and regulatory actions that would not have occurred without the EAC process. The continuing effort of these groups is a marvelous example of partnerships in many directions. Each of these diverse parties has come together for a worthy common goal of providing cleaner air sooner to the citizens of South Carolina. We continue to see activities that remain a part of the EAC process, above and beyond that required of an area with a "traditional" nonattainment designation. These areas could be used as a model to show that implementation of emission reduction strategies earlier than required does bring cleaner air sooner.

South Carolina respectfully requests that EPA review the documentation submitted and expeditiously take final action on the 8-hour Ozone EAC process by re-designating the Columbia Area and the Greenville-Spartanburg-Anderson Area to attainment for the 1997 8-hour Ozone standard.

Thank you not only for the opportunity to participate in the 8-hour Ozone EAC process but for your assistance and support over the last several years. We look forward to continuing to work with EPA and other stakeholders as we continue to encourage implementing measures to achieve cleaner air sooner for our citizens. Should you have questions or desire additional information, please do not hesitate to contact me at (803) 896-8940 or Myra Reece, Chief of the Bureau of Air Quality at (803) 898-4123.

Sincerely,



Robert W. King, Jr., P.E.
Deputy Commissioner
Environmental Quality Control

Enclosures

cc: Kay Prince, EPA Region 4
County Officials (no attachments*)
Ron Methier, GA Dept. of Natural Resources (no attachments*)
Keith Overcash, NC Dept. of Environmental and Natural Resources (no attachments*)
Myra Reece (no attachments*)
EQC Regional Directors (no attachments*)
Scott Reynolds (no attachments*)

*All those not receiving attachments will be notified when materials are placed on our website.

**South Carolina's Ozone Early Action Compact
December 2007 Progress Report
Enclosures
December 14, 2007**

1. 3-Year Ozone Average Summary to Date, AQS Data
South Carolina Certification Correspondence (December 6, 2007)
2. South Carolina's Comprehensive Maintenance Plan
3. Local EAC Activities for Participating Areas
4. Statewide EAC Activities

Enclosure 1

December 2007

FINAL EAC Progress Report Document 3-Year Ozone Average Summary to Date, AQS Data



County	Monitoring Site	2003 4th 8-hr Average	2004 4th 8-hr Average	2005 4th 8-hr Average	2006 4th 8-hr Average	2007 4th 8-hr Average	2003-2005 Design Values	2004-2006 Design Values	2005-2007 Design Values
Abbeville	Due West	0.077	0.075	0.082	0.079	0.083	0.078	0.078	0.081
Aiken	Jackson	0.069	0.080	0.077	0.073	0.082	0.075	0.076	0.077
Anderson	Powdersville	0.078	0.076	0.082	0.069		0.078	0.075	
Barnwell	Barnwell	0.073	0.072	0.074	0.074	0.073	0.073	0.073	0.073
Berkeley	Bushy Park	0.070	0.073	0.068	0.064	0.06	0.070	0.068	0.064
Berkeley	Army Reserve	0.070	0.067						
Charleston	Cape Romain	0.074	0.070	0.077	0.078	0.069	0.073	0.075	0.074
Cherokee	Cowpens	0.079	0.068	0.078	0.076	0.067	0.075	0.074	0.073
Chester	Chester	0.078	0.069	0.083	0.073	0.074	0.076	0.075	0.076
Chesterfield	Chesterfield	0.075	0.074	0.078	0.074	0.073	0.075	0.075	0.075
Colleton	Ashton	0.069	0.071	0.072	0.078	0.072	0.070	0.073	0.074
Darlington	Pee Dee	0.075	0.076	0.079	0.076	0.073	0.076	0.077	0.076
Edgefield	Trenton	0.068	0.071	0.071	0.068	0.073	0.070	0.070	0.070
Oconee	Long Creek	0.079	0.075	0.075	0.065	0.076	0.076	0.071	0.072
Pickens	Clemson	0.078	0.074	0.081	0.081	0.081	0.077	0.078	0.081
Richland	Cong. Swamp/ Bluff	0.074	0.067	0.074	0.072	0.071	0.071	0.071	0.072
Richland	Parklane	0.075	0.082	0.082	0.082	0.077	0.079	0.082	0.080
Richland	Sandhill	0.083	0.082	0.086	0.078	0.084	0.083	0.082	0.082
Spartanburg	N. Spartan. FD	0.079	0.082	0.082	0.085	0.083	0.081	0.083	0.083
Union	Delta	0.078	0.072	0.078	0.077	0.076	0.076	0.075	0.077
Williamsburg	Indiantown	0.069	0.069	0.068	0.073	0.071	0.068	0.070	0.070
York	York	0.076	0.071	0.079	0.078	0.08	0.075	0.076	0.079

December 2007







2600 Bull Street
Columbia, SC 29201-1708

Bureau of Environmental Services
Division of Air Quality Analysis
8231 Parklane Road
Columbia, South Carolina 29223
(803) 896-0902 FAX (803) 896-0980

December 6, 2007

Mr. J. I. Palmer, Jr.
US EPA, Region 4
Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, GA 30303

Mr. Palmer:

In order to allow all South Carolina Early Action Compact areas to meet the protocol timelines and consistent with the requirements in 40 CFR§ 58.15, with this letter I certify that all South Carolina SLAMS ozone ambient monitoring and the associated quality assurance data for the 2007 Ozone season (through October 2007) are completely submitted to AQS and are accurate to the best of my knowledge, taking into consideration the quality assurance findings. A summary report generated through AQS should provide accurate 2007 ozone summary statistics for the State of South Carolina.

Consistent with the 2006 revisions of §58, I am also certifying of all South Carolina ozone Special Purpose Monitor (SPM) criteria pollutant data collected using reference or equivalent methods. All South Carolina SPM ozone monitors and sites are operated consistent with the requirements of 40 CFR §58 Appendix A.

Consistent with the requirements for submission for annual data and precision and accuracy summaries, I have attached copies of a recent Quick Look Report (AQS AMP 450 and AMP 450NC) and Precision and Accuracy Reporting Organization Summary (AQS AMP 240) for all SLAMS and SPM ozone monitors operated by South Carolina DHEC through the end of the 2007 ozone season. Please note the Precision and Accuracy Reporting Organization Summary (AQS AMP 240) does not show data for fourth quarter 2007 because that quarter is not yet complete. I have confirmed that all ozone precision and accuracy data for the 2007 ozone season has been correctly entered into AQS. The ozone summary statistics and precision and accuracy summaries for the full calendar year will be included in the submission accompanying the certification of the remainder of the South Carolina data.

Sincerely yours,

Scott A. Reynolds, Director
Division of Air Quality Analysis

Attachments

cc: Mr. David Lutz, Data Certification Contact
Ambient Air Monitoring Group, OAQPS (electronic)
Doug Neeley, Chief, APTMB, US EPA Region IV
Artra Cooper, EPA Region IV (w/o attachments)
Robert J. Brown, Director, DAPDOIS
SC DHEC BAQ (w/o attachments)

User ID: DSB

QUICKLOOK CRITERIA PARAMETERS

Report Request ID: 487314 Report Code: AMP450 Dec. 5, 2007

Tribal	GEOGRAPHIC SELECTIONS														
	State	County	Site	Parameter	POC	City	AQCR	UAR	MSA	CMSA	EPA Region	Method	Duration	Begin Date	End Date
	45			44201										2007	2007

SELECTED OPTIONS		SORT ORDER	
Option Type	Option Value	Order	Column
EVENTS PROCESSING	EXCLUDE REGIONALLY CONCURRED EVENTS	1	PARAMETER_CODE
MERGE PDF FILES	YES	2	STATE_CODE
		3	COUNTY_CODE
		4	SITE_ID
		5	POC
		6	DATES
		7	EDT_ID

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
QUICK LOOK REPORT (AMP450)

Dec. 5, 2007

EXCEPTIONAL DATA TYPES

EDT	DESCRIPTION
0	NO EVENTS
1	EVENTS EXCLUDED
2	EVENTS INCLUDED
3	EXCEPTIONAL EVENTS EXCLUDED
4	NATURAL EVENTS EXCLUDED
5	EVENTS WITH CONCURRENCE EXCLUDED
6	EXCEPTIONAL EVENTS WITH CONCURRENCE EXCLUDED
7	NATURAL EVENTS WITH CONCURRENCE EXCLUDED

Note: The * indicates that the mean does
not satisfy summary criteria.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
QUICK LOOK REPORT (AMP450)

Dec. 5, 2007

Ozone (44201)

South Carolina

Parts per million (007)

1-HOUR

SITE ID	P O C	PQAO	CITY	COUNTY	ADDRESS	YEAR	METH	VALID	NUM	1ST	2ND	3RD	4TH	DAY	EST	MISS	CERT	EDT
								DAYS	DAYS	MAX	MAX	MAX	MAX	MAX>/=	DAYS>/=	DAYS<		
								MEAS	REQ	1-HR	1-HR	1-HR	1-HR	0.125	.125	0.125		
45-001-0001	1	0971	Due West	Abbeville	59 JIM SCOTT LANE	2007	047	213	214	.103	.098	.091	.090	0	0.0	1	0	
45-003-0003	2	0971	Jackson	Aiken	8217 ATOMIC ROAD (INDIAN DRIVE - SCHOOL)	2007	047	209	214	.105	.101	.099	.099	0	0.0	1	0	
45-011-0001	2	0971	Not in a city	Barnwell	5795 SEVEN PINES ROAD	2007	047	213	214	.084	.081	.081	.080	0	0.0	1	0	
45-015-0002	1	0971	Not in a city	Berkeley	River Oak Drive (Goose Creek)	2007	047	196	214	.104	.081	.080	.076	0	0.0	0	0	
45-019-0046	1	0971	Not in a city	Charleston	390 BULLS ISLAND ROAD (AWENDAW)	2007	047	209	214	.090	.078	.076	.076	0	0.0	5	0	
45-021-0002	1	0971	Not in a city	Cherokee	MCGINNIS ROAD (OLD SC 110)	2007	047	211	214	.085	.082	.077	.076	0	0.0	0	0	
45-023-0002	1	0971	Not in a city	Chester	100 LUSCOMBE DRIVE	2007	047	210	214	.093	.092	.090	.084	0	0.0	2	0	
45-025-0001	1	0971	Not in a city	Chesterfield	RT 2 BOX 100 MCBEE (SC145)	2007	047	209	214	.093	.086	.080	.079	0	0.0	2	0	
45-029-0002	2	0971	Not in a city	Colleton	Ashton Road (Islandton)	2007	047	213	214	.087	.085	.083	.081	0	0.0	1	0	
45-031-0003	1	0971	Not in a city	Darlington	2200 POCKET ROAD (DARLINGTON)	2007	047	211	214	.085	.084	.084	.083	0	0.0	3	0	
45-037-0001	1	0971	Not in a city	Edgefield	660 WOODYARD ROAD	2007	047	212	214	.088	.083	.081	.081	0	0.0	2	0	
45-073-0001	1	0971	Not in a city	Oconee	ROUND MOUNTAIN TOWER ROAD (Mountain Rest, SC)	2007	047	208	214	.104	.093	.091	.082	0	0.0	1	0	
45-077-0002	1	0971	Not in a city	Pickens	106 HOPEWELL ROAD	2007	047	212	214	.102	.096	.093	.089	0	0.0	2	0	
45-079-0007	1	0971	Dentsville (Dents)	Richland	8311 PARKLANE ROAD	2007	047	210	214	.101	.094	.091	.089	0	0.0	4	0	

Note: The * indicates that the mean does not satisfy summary criteria.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
QUICK LOOK REPORT (AMP450)

Dec. 5, 2007

Ozone (44201)

South Carolina

Parts per million (007)

1-HOUR

SITE ID	P O C	PQAO	CITY	COUNTY	ADDRESS	YEAR	METH	VALID DAYS MEAS	NUM DAYS REQ	1ST MAX 1-HR	2ND MAX 1-HR	3RD MAX 1-HR	4TH MAX 1-HR	DAY MAX>/= 0.125	EST DAYS>/= .125	MISS DAYS< 0.125	CERT	EDT
45-079-0021	1	0971	Not in a city	Richland	1850 SOUTH CEDAR CREEK ROAD (GADSDEN)	2007	047	202	217	.237	.088	.084	.084	1	1.1	3	5	
45-079-1001	1	0971	Not in a city	Richland	900 CLEMSON ROAD	2007	047	206	214	.106	.098	.098	.097	0	0.0	3	0	
45-083-0009	1	0971	Not in a city	Spartanburg	1556 JOHN DODD ROAD	2007	047	214	214	.098	.096	.095	.095	0	0.0	0	0	
45-087-0001	1	0971	Not in a city	Union	1121 DELTA ROAD (WHITMIRE)	2007	047	213	214	.091	.086	.086	.086	0	0.0	1	0	
45-089-0001	2	0971	Not in a city	Williamsburg	4951 HEMINGWAY HIGHWAY	2007	047	209	214	.087	.082	.078	.076	0	0.0	0	0	
45-091-0006	1	0971	Not in a city	York	2316 CHESTER HIGHWAY (US 321)	2007	047	208	214	.107	.095	.092	.089	0	0.0	1	0	

Note: The * indicates that the mean does not satisfy summary criteria.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
QUICK LOOK REPORT (AMP450)

Dec. 5, 2007

Ozone (44201)

South Carolina

Parts per million (007)

8-HOUR

SITE ID	P O C	PQAO	CITY	COUNTY	ADDRESS	YEAR	METH	%OBS	VALID DAYS MEAS	NUM DAYS REQ	1ST MAX 8-HR	2ND MAX 8-HR	3RD MAX 8-HR	4TH MAX 8-HR	DAY MAX>/= 0.085	CERT EDT
45-001-0001	1	0971	Due West	Abbeville	59 JIM SCOTT LANE	2007	047	98	210	214	.090	.087	.085	.083	3	0
45-003-0003	2	0971	Jackson	Aiken	8217 ATOMIC ROAD (INDIAN DRIVE - SCHOOL)	2007	047	97	207	214	.084	.084	.083	.082	0	0
45-011-0001	2	0971	Not in a city	Barnwell	5795 SEVEN PINES ROAD	2007	047	99	211	214	.076	.076	.073	.073	0	0
45-015-0002	1	0971	Not in a city	Berkeley	River Oak Drive (Goose Creek)	2007	047	91	194	214	.072	.070	.065	.060	0	0
45-019-0046	1	0971	Not in a city	Charleston	390 BULLS ISLAND ROAD (AWENDAW)	2007	047	95	204	214	.079	.070	.070	.069	0	0
45-021-0002	1	0971	Not in a city	Cherokee	MCGINNIS ROAD (OLD SC 110)	2007	047	98	209	214	.074	.068	.067	.067	0	0
45-023-0002	1	0971	Not in a city	Chester	100 LUSCOMBE DRIVE	2007	047	98	210	214	.086	.085	.083	.074	2	0
45-025-0001	1	0971	Not in a city	Chesterfield	RT 2 BOX 100 MCBEE (SC145)	2007	047	97	207	214	.081	.079	.074	.073	0	0
45-029-0002	2	0971	Not in a city	Colleton	Ashton Road (Islandton)	2007	047	99	212	214	.076	.075	.073	.072	0	0
45-031-0003	1	0971	Not in a city	Darlington	2200 POCKET ROAD (DARLINGTON)	2007	047	99	212	214	.076	.076	.075	.073	0	0
45-037-0001	1	0971	Not in a city	Edgefield	660 WOODYARD ROAD	2007	047	99	212	214	.076	.075	.074	.073	0	0
45-073-0001	1	0971	Not in a city	Oconee	ROUND MOUNTAIN TOWER ROAD (Mountain Rest, SC)	2007	047	97	207	214	.090	.084	.084	.076	1	0
45-077-0002	1	0971	Not in a city	Pickens	106 HOPEWELL ROAD	2007	047	99	212	214	.093	.086	.083	.081	2	0
45-079-0007	1	0971	Dentsville (Dents)	Richland	8311 PARKLANE ROAD	2007	047	98	210	214	.089	.084	.080	.077	1	0
45-079-0021	1	0971	Not in a city	Richland	1850 SOUTH	2007	047	93	202	217	.091	.076	.072	.071	1	5

Note: The * indicates that the mean does
not satisfy summary criteria.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
QUICK LOOK REPORT (AMP450)

Dec. 5, 2007

Ozone (44201)

South Carolina

Parts per million (007)

8-HOUR

SITE ID	P O C	PQAO	CITY	COUNTY	ADDRESS	YEAR	METH	%OBS	VALID	NUM	1ST	2ND	3RD	4TH	DAY	CERT	EDT
									DAYS	DAYS	MAX	MAX	MAX	MAX	MAX> / =		
									MEAS	REQ	8-HR	8-HR	8-HR	8-HR	0.085		
45-079-1001	1	0971	Not in a city	Richland	900 CLEMSON ROAD	2007	047	93	217	233	.090	.087	.085	.084	3		0
45-083-0009	1	0971	Not in a city	Spartanburg	1556 JOHN DODD ROAD	2007	047	100	213	214	.087	.086	.085	.083	3		0
45-087-0001	1	0971	Not in a city	Union	1121 DELTA ROAD (WHITMIRE)	2007	047	100	213	214	.079	.079	.078	.076	0		0
45-089-0001	2	0971	Not in a city	Williamsburg	4951 HEMINGWAY HIGHWAY	2007	047	97	208	214	.077	.074	.072	.071	0		0
45-091-0006	1	0971	Not in a city	York	2316 CHESTER HIGHWAY (US 321)	2007	047	94	202	214	.085	.083	.082	.080	1		0

Note: The * indicates that the mean does not satisfy summary criteria.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
QUICK LOOK REPORT (AMP450)

Dec. 5, 2007

METHODS USED IN THIS REPORT

PARAMETER	METHOD CODE	COLLECTION METHOD	ANALYSIS METHOD
44201	047	INSTRUMENTAL	ULTRA VIOLET

Note: The * indicates that the mean does
not satisfy summary criteria.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
QUICK LOOK REPORT (AMP450)

Dec. 5, 2007

PQAOS USED IN THIS REPORT

PQAO	AGENCY DESCRIPTION
0971	South Carolina Department Health And Environmental Control

Note: The * indicates that the mean does not satisfy summary criteria.

User ID: DSB

QUICKLOOK ALL PARAMETERS

Report Request ID: 487321

Report Code: AMP450NC

Dec. 5, 2007

Tribal	GEOGRAPHIC SELECTIONS														
	State	County	Site	Parameter	POC	City	AQCR	UAR	MSA	CMSA	EPA Region	Method	Duration	Begin Date	End Date
	45			44201										2007	2007

SELECTED OPTIONS		SORT ORDER	
Option Type	Option Value	Order	Column
EVENTS PROCESSING	EXCLUDE REGIONALLY CONCURRED EVENTS	1	STATE_CODE
MERGE PDF FILES	YES	2	COUNTY_CODE
		3	SITE_ID
		4	PARAMETER_CODE
		5	POC
		6	DATES
		7	EDT_ID

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

QUICKLOOK ALL PARAMETERS

Dec. 5, 2007

EXCEPTIONAL DATA TYPES

EDT	DESCRIPTION
0	NO EVENTS
1	EVENTS EXCLUDED
2	EVENTS INCLUDED
3	EXCEPTIONAL EVENTS EXCLUDED
4	NATURAL EVENTS EXCLUDED
5	EVENTS WITH CONCURRENCE EXCLUDED
6	EXCEPTIONAL EVENTS WITH CONCURRENCE EXCLUDED
7	NATURAL EVENTS WITH CONCURRENCE EXCLUDED

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

QUICKLOOK ALL PARAMETERS

Dec. 5, 2007

Parameter	Unit	P O C	PQAO	Year	Meth	# Obs	1st Max Value	2nd Max Value	3rd Max Value	4th Max Value	Arith. Mean	Duration	EDT
Site ID: 45-001-0001	City: Due West		County: Abbeville				Address: 59 JIM SCOTT LANE						
44201 Ozone	Parts per million	1	0971	2007	047	6014	.103	.098	.091	.090	.0609	1 HOUR	0
Site ID: 45-003-0003	City: Jackson		County: Aiken				Address: 8217 ATOMIC ROAD (INDIAN DRIVE - SCHOOL)						
44201 Ozone	Parts per million	2	0971	2007	047	5910	.105	.101	.099	.099	.0586	1 HOUR	0
Site ID: 45-011-0001	City: Not in a city		County: Barnwell				Address: 5795 SEVEN PINES ROAD						
44201 Ozone	Parts per million	2	0971	2007	047	5980	.084	.081	.081	.080	.0541	1 HOUR	0
Site ID: 45-015-0002	City: Not in a city		County: Berkeley				Address: River Oak Drive (Goose Creek)						
44201 Ozone	Parts per million	1	0971	2007	047	5312	.104	.081	.080	.076	.0457	1 HOUR	0
Site ID: 45-019-0046	City: Not in a city		County: Charleston				Address: 390 BULLS ISLAND ROAD (AWENDAW)						
44201 Ozone	Parts per million	1	0971	2007	047	7044	.090	.078	.076	.076	.0517	1 HOUR	0
Site ID: 45-021-0002	City: Not in a city		County: Cherokee				Address: MCGINNIS ROAD (OLD SC 110)						
44201 Ozone	Parts per million	1	0971	2007	047	7174	.085	.082	.077	.076	.0526	1 HOUR	0
Site ID: 45-023-0002	City: Not in a city		County: Chester				Address: 100 LUSCOMBE DRIVE						
44201 Ozone	Parts per million	1	0971	2007	047	6009	.093	.092	.090	.084	.0572	1 HOUR	0
Site ID: 45-025-0001	City: Not in a city		County: Chesterfield				Address: RT 2 BOX 100 MCBEE (SC145)						
44201 Ozone	Parts per million	1	0971	2007	047	7166	.093	.086	.080	.079	.0570	1 HOUR	0
Site ID: 45-029-0002	City: Not in a city		County: Colleton				Address: Ashton Road (Islandton)						
44201 Ozone	Parts per million	2	0971	2007	047	7219	.087	.085	.083	.081	.0522	1 HOUR	0
Site ID: 45-031-0003	City: Not in a city		County: Darlington				Address: 2200 POCKET ROAD (DARLINGTON)						
44201 Ozone	Parts per million	1	0971	2007	047	5956	.085	.084	.084	.083	.0558	1 HOUR	0
Site ID: 45-037-0001	City: Not in a city		County: Edgefield				Address: 660 WOODYARD ROAD						
44201 Ozone	Parts per million	1	0971	2007	047	7236	.088	.083	.081	.081	.0547	1 HOUR	0
Site ID: 45-073-0001	City: Not in a city		County: Oconee				Address: ROUND MOUNTAIN TOWER ROAD (Mountain Rest, SC)						
44201 Ozone	Parts per million	1	0971	2007	047	7143	.104	.093	.091	.082	.0567	1 HOUR	0

Note: The * indicates that the mean does not satisfy summary criteria.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

QUICKLOOK ALL PARAMETERS

Dec. 5, 2007

Parameter	Unit	PQAO	Year	Meth	# Obs	1st Max Value	2nd Max Value	3rd Max Value	4th Max Value	Arith. Mean	Duration	EDT
Site ID: 45-077-0002	City: Not in a city	County: Pickens				Address: 106 HOPEWELL ROAD						
44201 Ozone	Parts per million	1	0971	2007	047	5907	.102	.096	.093	.089	.0616	1 HOUR 0
Site ID: 45-079-0007	City: Dentsville (Dents)	County: Richland				Address: 8311 PARKLANE ROAD						
44201 Ozone	Parts per million	1	0971	2007	047	7227	.101	.094	.091	.089	.0592	1 HOUR 0
Site ID: 45-079-0021	City: Not in a city	County: Richland				Address: 1850 SOUTH CEDAR CREEK ROAD (GADSDEN)						
44201 Ozone	Parts per million	1	0971	2007	047	6658	.237	.088	.084	.084	.0556	1 HOUR 5
Site ID: 45-079-1001	City: Not in a city	County: Richland				Address: 900 CLEMSON ROAD						
44201 Ozone	Parts per million	1	0971	2007	047	5971	.106	.098	.098	.097	.0608	1 HOUR 0
Site ID: 45-083-0009	City: Not in a city	County: Spartanburg				Address: 1556 JOHN DODD ROAD						
44201 Ozone	Parts per million	1	0971	2007	047	5719	.098	.096	.095	.095	.0623	1 HOUR 0
Site ID: 45-087-0001	City: Not in a city	County: Union				Address: 1121 DELTA ROAD (WHITMIRE)						
44201 Ozone	Parts per million	1	0971	2007	047	5679	.091	.086	.086	.086	.0579	1 HOUR 0
Site ID: 45-089-0001	City: Not in a city	County: Williamsburg				Address: 4951 HEMINGWAY HIGHWAY						
44201 Ozone	Parts per million	2	0971	2007	047	5845	.087	.082	.078	.076	.0516	1 HOUR 0
Site ID: 45-091-0006	City: Not in a city	County: York				Address: 2316 CHESTER HIGHWAY (US 321)						
44201 Ozone	Parts per million	1	0971	2007	047	5814	.107	.095	.092	.089	.0570	1 HOUR 0

Note: The * indicates that the mean does not satisfy summary criteria.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

QUICKLOOK ALL PARAMETERS

Dec. 5, 2007

METHODS USED IN THIS REPORT

PARAMETER	METHOD CODE	COLLECTION METHOD	ANALYSIS METHOD
44201	047	INSTRUMENTAL	ULTRA VIOLET

Note: The * indicates that the mean does not
satisfy summary criteria.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM

QUICKLOOK ALL PARAMETERS

Dec. 5, 2007

PQAOS USED IN THIS REPORT

PQAO	AGENCY DESCRIPTION
0971	South Carolina Department Health And Environmental Control

Note: The * indicates that the mean does not
satisfy summary criteria.

User ID: DSB

P/A REPORTING ORG SUMMARY

Report Request ID: 487330 Report Code: AMP240 Dec. 5, 2007

Tribal	GEOGRAPHIC SELECTIONS														
	State	County	Site	Parameter	POC	City	AQCR	UAR	MSA	CMSA	EPA Region	Method	Duration	Begin Date	End Date
	45			44201										2007	2007

SELECTED OPTIONS		SORT ORDER	
Option Type	Option Value	Order	Column
MERGE PDF FILES	YES	1	AGENCY_CODE
		2	PARAMETER_CODE
		3	DATES

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SUBSYSTEM
P/A REPORTING ORG SUMMARY

Dec. 5, 2007

PLEASE NOTE: Data selection based upon geography may result in output including more reporting organizations than you would expect.
When geographic selection is used, every reporting organization that has authority to submit data for the selected geography will be included in the output, if those reporting organizations submitted any precision or accuracy data for any monitors anywhere (not just the geographical selection) during the date range specified.

REPORT ORG: 0971 South Carolina Department Health And Environmental Control

AGENCY TYPE: F

PARAMETER															
CODE	DESCRIPTION	**** PRECISION DATA ****						***** ACCURACY DATA *****							
REC MODE	YEAR	Q	# OF	PRECIS	PROB	LIM	LOC PRI	ACC	AUDIT	NO AUDITS	PROB LIM	PROB LIM	PROB LIM	PROB LIM	
AUDIT CLASS					LO	UP	STD	TYPE	TYPE	L1-3	L4	LO-L1-UP	LO-L2-UP	LO-L3-UP	LO-L4-UP
44201	Ozone														
CONTINUOUS	2007		4	60	- 5.6	11.5	PHOTOMETER	PE	AUDIT	446	0	- 6.4	8.6 - 5.2	7.2 - 6.6	9.4
ANALYTICAL							(VERIFIED)		ONLY						
		1	4	7	- 8.9	19.5	PHOTOMETER	PE	AUDIT	129	0	- 8.8	8.8 - 7.0	7.0 - 8.2	9.5
							(VERIFIED)		ONLY						
		2	4	26	- 5.7	11.2	PHOTOMETER	PE	AUDIT	212	0	- 5.2	7.9 - 4.6	7.4 - 6.6	9.8
							(VERIFIED)		ONLY						
									BY RO						
		3	4	27	- 4.9	9.9	PHOTOMETER	PE	AUDIT	105	0	- 4.6	8.8 - 3.3	6.5 - 4.7	8.1
							(VERIFIED)		ONLY						
									BY RO						

Enclosure 2

December 2007

FINAL EAC Progress Report Document South Carolina's Comprehensive Maintenance Plan



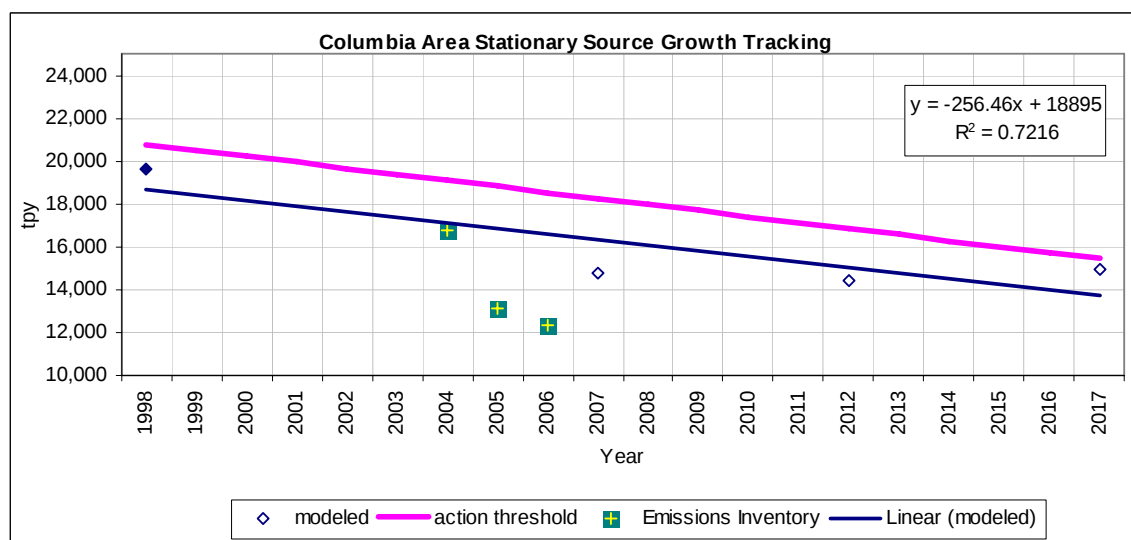
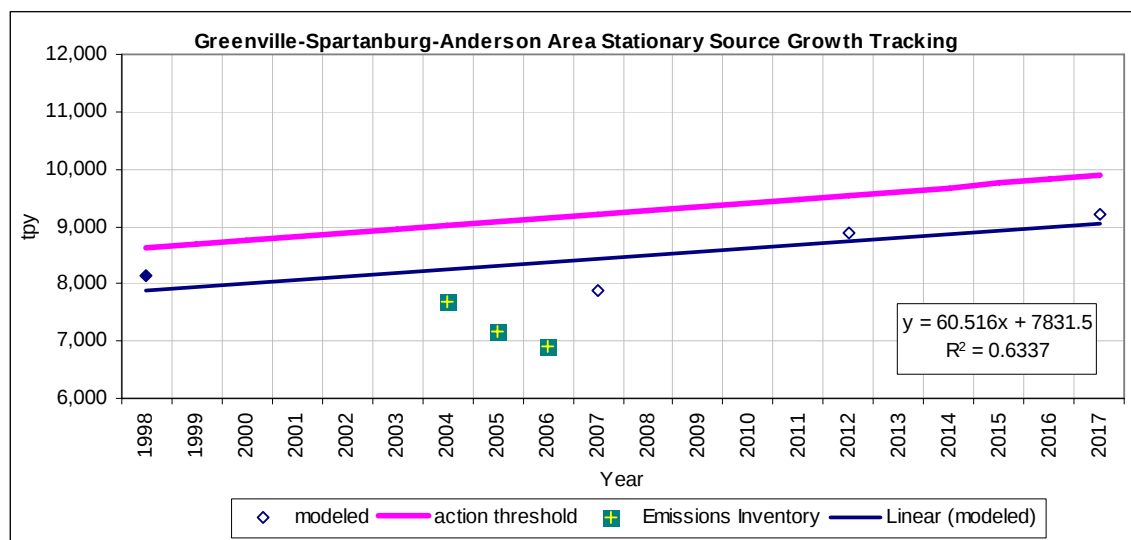
Enclosure 2
South Carolina's Ozone Early Action Compact
December 2007 Progress Report
Comprehensive Maintenance Plan

South Carolina has committed to a comprehensive maintenance plan. This commitment far exceeds the maintenance requirements in the EAC protocol. The South Carolina EAC maintenance plan is similar to the requirements for section 175A of the Clean Air Act, none of which are required for EAC areas. A Notice of General Public Interest was published in the *State Register* on May 27, 2005, scheduling a thirty-day public notice and comment period. A public hearing was held on June 30, 2005.

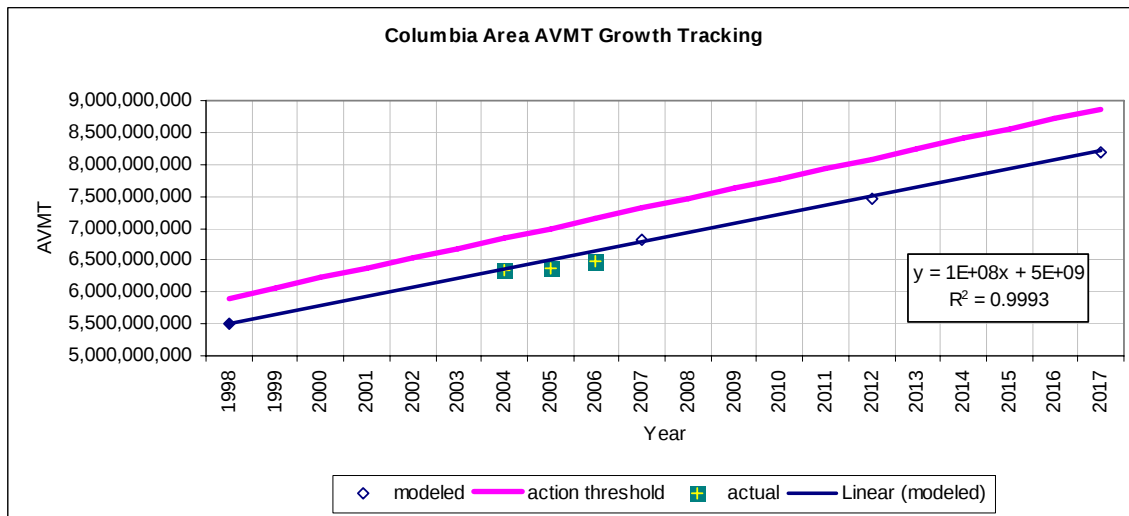
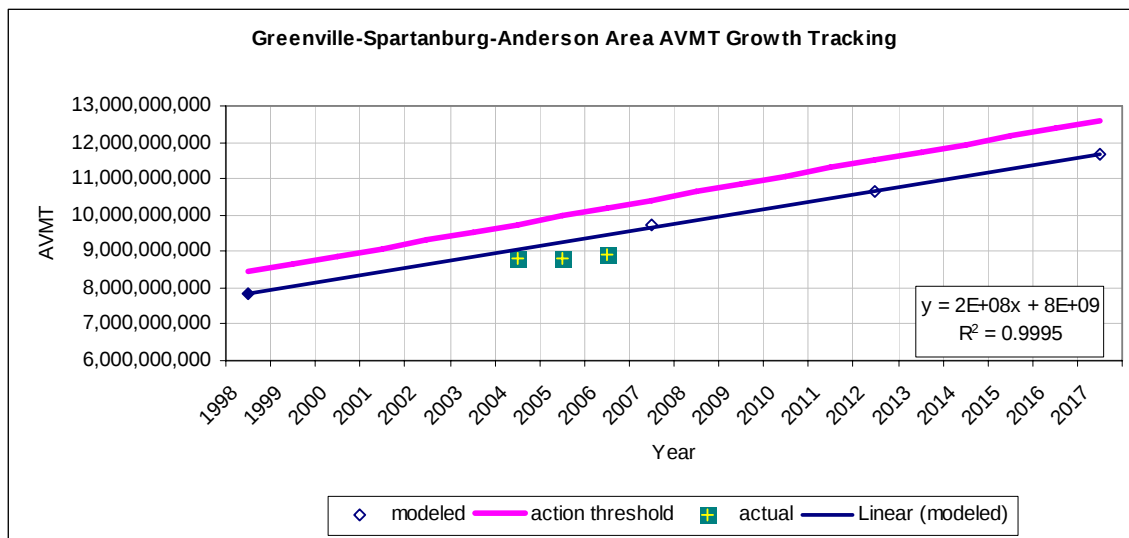
South Carolina's commitment included an annual review of growth (highway mobile and stationary NO_x sources) to ensure emission reduction strategies and growth are adequate as well as identification and quantification of federal, state, and/or local measures indicating sufficient reductions to offset growth estimates. Results of the first annual review, (December 2005) revealed that for both areas designated nonattainment with the effective date deferred, the actual emissions were lower than the forecasted modeled data and the 2004 VMT was well below the action trigger. The second annual review (December 2006) for both deferred areas, revealed the actual emissions remained lower than the forecasted modeled data and the 2005 VMT remained well below the action trigger. The third annual review (December 2007) for both deferred areas, once again revealed that the actual emissions remained lower than the forecasted modeled data and the 2006 VMT remained well below the action trigger.

Annual Review of Growth

The most recent emissions inventory (2006) was compared to the emissions used in the ozone modeling analysis with a base year of 1998. In order to compare the annual emissions to the assumptions made in the model, a regression equation for each deferred area was developed in order to forecast the emissions for years not modeled. The modeled data, forecasted data, the 10 percent “action level” and actual emissions for 2004, 2005 and 2006 were then plotted in order to determine whether the actual emissions were still comparable to the ozone modeling assumptions. For both deferred areas, the actual emissions were lower than the forecasted modeled data. The ozone modeling analysis could not be run on partial counties, so for the Columbia deferred area, the review of growth took the county wide emissions into account. Therefore, the number for the Columbia deferred area represents a conservative estimate of the emissions.



The most recent annual VMT (2006) was compared with the projected VMT from the ozone modeling analysis with a base year of 1998. The VMT for analysis years 1998, 2007, 2012 and 2017 for Greenville, Spartanburg and Anderson Counties was combined and a trend line established. The actual 2004, 2005 and 2006 VMT for the three-counties was slightly below the trend line and well below the action trigger. Because full county VMT data was used for the ozone modeling analysis, it was necessary to use combined full county data from Richland and Lexington Counties to represent the Columbia nonattainment area. For the Columbia and Greenville deferred areas, the review revealed that the 2004, 2005 and 2006 VMT was slightly below the modeled trend line.



Attachment 9

Central Midlands Area

**December 2007
FINAL EAC Progress Reports**



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
Central Midlands, SC (Designated - Attainment)							
DECEMBER 2007 FAIRFIELD COUNTY 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.							
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.	<i>Provides on ongoing basis information on ozone awareness/information/alerts provided including proclamation and education brochures and pamphlets by SCDHEC .</i>	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.	<i>County is currently developing County website that will include Ozone Awareness Notices and Updates.</i>	<i>March, 2008</i>	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
"Safe Routes to School" grant	SCDOT approved funding to develop comprehensive bicycle and pedestrian programs as part of the "Safe Routes to School Program." Partnering with SCDOT, local governments, parents, local law enforcement and educators, each school and community will develop a plan that encompasses both infrastructure and non-infrastructure components. One of the purposes outlined in the funding legislation for this program includes facilitating the planning, development, and implementation of projects and activities that will reduce traffic congestions, fuel consumption and aire pollution in the vicinity of primary and middle schools. <i>Selected schools receive up to \$200,00.00.</i>	Fairfield Middle School in Fairfield County was awarded the "Safe Routes to School" grant for the 2007 funding cycle.	2007 funding cycle <i>Press release September 28, 2007</i>	<i>*All Pollutants</i>			
Comments: 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 - http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac.html - additional information provided by the county to include "findings", "advantages/disadvantages", "recommendations", "costs", etc.... 3. March 2004 - Local Early Action Plan - See - http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0304.asp 4. June 2004 - Progress Report - See - http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0604.asp 5. December 2004 - Progress Report - See - http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_1204.asp 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 - http://www.scdhec.gov/eqc/baq/html/eap_sip.html 7. April 20, 2005 - Correspondence to Mr. Palmer including clarifying supplemental information to the EAC SIP submittal of December 2004. - See - http://www.scdhec.gov/eqc/baq/html/eap_sip.html 8. June 2005 - Progress Report - See - http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0605.asp							

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
11 South Carolina State Measures							
Comments: Modeling for 2007, shows attainment without including measures beyond national and regional measures already finalized.. 2012 and 2017 also shows attainment.							
11 Central Midlands, SC (Effective date of non-attainment designation deferred) - Lexington County							
Support efforts of The Climate Registry	The Climate Registry, established by states, tribes and provinces in North America as a mechanism to measure greenhouse gas (GHG) emissions consistently across industry sectors and borders. The Climate Registry encourages voluntary early actions to increase energy efficiency and decrease GHG emissions. The Climate Registry accounting infrastructure supports a wide variety of programs that reduce GHG emissions including voluntary, regulatory and market-based programs.	A meeting was held on October 4, 2007. Joel Levin provided an overview of the The Climate Registry. Mr. Levin is the California Climate Action Registry's Vice President for Business Development. He is responsible for educating participants from all economic sections and regions to register and certify their greenhouse gas emissions. Representatives from state and local governments, including Lexington County, as well as business and industry attended the discussion.	October 4, 2007				
Local Government Partnerships/Outreach Lexington County Council	Lexington County Council voted to make comments regarding the proposed 8-hour Ozone standard to EPA in the form of a resolution. The resolution also encourages EPA to allow local areas the opportunity to implement early action measures in lieu of nonattainment designations which carry prescriptive requirements.	Myra Reece was requested to attend the August 28, 2007, Lexington County Council meeting. Resolution passed and submitted as comments to the proposed 8-hour Ozone Standard.	September 12, 2007				
Local Government Partnerships/Outreach Town of Irmo - Lexington County	The Irmo Town Council, on behalf of the Town of Irmo issued comments regarding the proposed 8-hour Ozone standard to EPA in the form of a resolution. The resolution encourages EPA to maintain the current NAAQS. The resolution also urges the citizens and businesses of the Town of Irmo to act in a manner that will preserve and protect the quality in the Irmo community.		August 21, 2007				
Local Government Partnerships/Outreach Town of Irmo - Lexington County	DHEC Met with Central Midlands COG (Aaron Bell and Greg Sprouse) on October 24, 2007 to plan next meeting of Irmo PM2.5 Stakeholders.	Plan to meet again before the stakeholder meeting takes place on November 28, 2007.	October 24, 2007				
Lawnmower Exchange Event - 2008	Richland and Lexington Counties and DHEC-BAQ are planning a lawnmower exchange event to be held in 2008.	A planning meeting was held on September 11, 2007. The target date for the event is the Spring of 2008. The City of Columbia has expressed an interest in partnering with both Counties for the 2008 event.	2007				
Leaphart Elementary Anti-idling Program		DHEC staff have met with the principal of Leaphart Elementary school. Leaphart has incorporated a no idling policy for the 2007-2008 school year and has put up anti-idling signs. The last issue of the school news letter had an article about the b2 program for the parents, the next issue will include an article about the monitor and the air quality issues that is facing. The school is also looking at planting trees to catch PM and landscaping for beautification areas to reduce moving. DHEC staff met with the local urban forester in July to look at plans for both trees and shrubs on the school grounds.	2007				
Walk to School Day	South Carolina embraced Walk to School Day festivities.	First lady Jenny Sanford and other guests joined hundreds of children from neighborhoods in the Piney Grove Road area to walk to Leaphart Elementary School in Lexington-Richland 5 on October 3, 2007. Richland and Lexington county sheriff's deputies were alerted that more children would be walking to schools.	Oct-07				
Natural Resource Conservation Service Environmental Efforts	NRCS has the following conservation concerns which benefit air quality: Stacking Sheds, Conservation Cover, Cover Crop, Hedgerow Planting, Tree Planting and Pasture and Hayland Planting.	In 2008 NRCS is cost sharing with 4 farmers on stacking sheds, 1 farmer on cover crops and 7 farmers on pasture and hay planting. In 2007 NRCS worked with 2 farmers on stacking sheds and worked with 3 in 2006.	Ongoing				
Improve Air Quality at the City of West Columbia's water treatment plants.	The City of West Columbia operates two water plants: one on Lake Murray and the Saluda River. West Columbia plans to phase out the use of ammonia and gas chlorine during the water treatment process at both plants. This will prevent leaks of these hazardous chemicals.	A new system that eliminates the use of ammonia and gas chlorine has been implemented at the Lake Murray water plant. This system does not leak gas fumes and uses a new non-hazardous chemical which is similar to bleach. The project costs between \$1-1.5 million. Implementation of the new system at the plant on the river will be completed in 2008.	1. April 2007-2008				
Tree Care Workshop	The SC Forestry Commission, Lexington County and local municipalities are putting together a tree care workshop scheduled for January 2008. The Tree Care Workshop will cover plant selection, care and maintenance, and pruning of trees.	A save the date email was forwarded to local municipalities concerning the workshop in November. Continuing efforts are being made to acquire speakers for the workshop and agenda items.	Jan-08				
The Greater Columbia Fuel Cell Challenge	The Greater Columbia Fuel Cell Challenge is a comprehensive public and private initiative with the expressed goal of making the Columbia, S.C. region the global model for the mass deployment of fuel applications and other alternative energy sources.	1. The South Carolina Research Authority on behalf of the University of SC Greater Columbia Fuel Cell Challenge is currently soliciting proposals from interested persons or organizations for qualifying activities that would advance the commercialization of hydrogen and fuel cell technologies within the Columbia region of SC. 2. The National Hydrogen Association has announced plans to bring its annual convention to Columbia, SC in the spring of 2009.	1. October 2007 2. Spring 2009				
Tree Planting Projects	Lexington County along with Keep the Midlands Beautiful, The City of Cayce, the Town of Springdale and private sponsors will be planting trees along a mile stretch of Airport Blvd (Hwy 302). There will be about 110 trees planted during this event.	The tree planting event will be held on December 15, 2007. Volunteers were solicited through the KMP newsletter in November 2007.	Dec-07				
Environmental Programs at Lexington Medical Center	1. Install fluorescent light bulbs 2. Paper and Cardboard Recycling 3. Aluminum Can Recycling 4. Motor Oil Recycling 5. Plastic Recycling 6. Replace Vans with Hybrid Vehicles 7. Replace cleaning chemicals with EPA approved green products.	1. 4000 bulbs replaced 2. 217 tons recycled 3. 1246 lbs recycled 4. 816 Quarts recycled 5. 750 lbs recycled 6. 2 Vans converted 7. 2000 Gallons	October 2006-September 2007 Ongoing process				
Return the Warmth program	The program, sponsored by Keep America Beautiful, encouraged schools to recycle No. 1 plastics, the type commonly used for soda bottles. The program was coordinated locally by Keep the Midlands Beautiful, Paper Stock Dealers/Sonoco - the recycling center that serves the three school districts - collected and counted the bottles. Aquafina and Sam's Club provided the jackets.	Students from Richland 2, Lexington 2, and Lexington-Richland 5 collected more than 100,000 plastic bottles, ranking the area among the top 50 communities in the country taking part in the drive. Schools from those communities receive an allotment of child-sized fleece jackets - made of the same type of plastic - to be distributed to needy residents in their areas.	Dec-06				
Reusing "Brownfields" for Commuter Rail	A regional government group is looking at ways to redevelop about 50 abandoned industrial sites in the Midlands as future commuter rail stations.	The Central Midlands Council of Governments has identified 22 possible rail station sites that could serve three future commuter rail and high-speed transit lines: Columbia to Newberry, Columbia to Camden and Columbia to Batesburg-Leesville. While building such a system is still at least two decades away, council officials say reusing "brownfields" - abandoned, idle or underused industrial and commercial facilities that might be contaminated but can be cleaned up - could bring costs down.	2007				
Transportation Survey	The Central Midlands Council of Governments (CMCOG) is sponsoring the Midlands Tomorrow Travel Survey, which will capture information specific to participants' travel behavior and their opinions concerning the region's transportation network. The travel information gathered from this survey will be used to update the regional travel model that is used for transportation planning, traffic forecasting, project evaluation, and multimodal analysis.	Surveys were conducted by telephone beginning February 13, 2007 and continued through the end of March 2007.	February and March, 2007				

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
Green Infrastructure Open Space Planning	The Central Midlands Council of Governments (CMCOG) is currently working on developing a regional plan for preserving open space. The goal of such a plan is to create a network of protected lands within the region that will be a legacy for future generations. The CMCOG is taking the "green infrastructure" approach to creating an open space preservation plan. Green infrastructure is defined as an interconnected network of open spaces that conserves natural ecosystems and functions, and provides associated benefits to human populations.	The CMCOG has an online survey that was made available on the Lexington and Richland County website, the CMCOG's website and the City of Columbia's website. This survey is to determine how important open space preservation is to the citizens in the central midlands area. As of March 30, 2007 there were 122 respondents who rated the importance of open space preservation 9.3 on a scale of 1-10. The COG's Green Infrastructure committee completed the open space preservation plan. The committee decided to begin implementing the plan in 2008 with an increased emphasis on implementation within Lexington County.	Ongoing				
Congaree, Wateree and Santee Basin Initiative task force	DNR created the Congaree, Wateree and Santee Basin Initiative task force that targets 215,000 acres of land in the Midlands to be preserved from development. The task force is not anti-development, but it wants to direct growth in these areas away from prime natural property. The land is mostly in Richland and Sumter counties, but includes smaller parcels in Kershaw, Lexington and Calhoun counties.	So far, 16 landowners in the target area have committed almost 15,000 acres to conservation easements in exchange for tax breaks and other financial incentives.	Created in 2006				
Hard Scramble "green" home building and environmental education	The 853 acre Hard Scramble tract on the Wateree River in Camden was donated to Clemson University last year and could become an international model for "green" home building and environmental education. Benefactor Margaret Lloyd donated the more than 850 acres near Camden and \$2 million last year to Clemson University for an environmental education center. The center and the housing development will be used to educate the public about the human connection to the natural world. The center also will be used for research, and the green homes will help builders learn about green building.	A planned 150-home community on the site could become the first green home neighborhood in the Midlands and one of the first in the nation certified by the U.S. Green Building Council. Clemson University plans to build the environmentally friendly community - a mix of town homes, cottages and manors ranging in price from \$175,000 to \$400,000 - on 100 acres off Springdale Drive, a portion of the sprawling plot that is loaded with natural wonders Lloyd longs to share with the public. Clemson plans to build 150 "green" homes on 100 acres of the property to help pay the cost of building the center. Clemson has applied to have the homes accepted into the LEED for Homes pilot project. U.S. Green Building Council will use that project to help fine-tune guidelines for green building.	Donated in 2006				
Electronics Recycling	Intel Corporation and Best Buy sponsored an electronics recycling event. Computers, monitors, printers, scanners, keyboards, mice, VCRs, terminals, cables, fax machines, radios, modems, telephones, TVs, copiers, typewriters, stereo equipment and cell phones were accepted for recycling.	This event was held Saturday, April 14 from 9:00 a.m. to 4:00 p.m. at Colonial Center parking lot (corner of Lincoln and Blossom streets) for Midlands area residents.	04-Apr-07				
Car Care Event for women	Suddeth Automotive offered Women's Car Care Seminars at 1410 Millwood Avenue Saturday April 28, 2007. Suddeth Automotive offered another Women's Car Care Seminar on October 27, 2007.	Two sessions are available, from 9:30-11:30 a.m. and 1:30-3:30 p.m. Participants learned car essentials, including maintenance. Certified technicians were on hand to answer questions. Participants received an automotive goodie bag and were eligible for door prizes, including a \$50 gas card. Admission was free, but advanced registration was required.	28-Apr-07				
Regional roundtable discussion on the impacts of residential growth on SC communities	The Strom Thurmond Institute at Clemson University invited a number of participants from local government to attend the third in a series of regional roundtable discussions on the impacts of residential growth on SC communities, focusing especially on fiscal, economic and quality of life impacts.	The roundtable was held on April 12, 2007. Information from the sessions are taped and will be used to produce a citizen's guide on the growth issue, how it impacts communities and what citizens can do. There will also be a technical report with policy recommendations that suggest how our state and local governments can best channel growth into forms and areas that are fiscally responsible and that maximize our quality of life.	12-Apr-07				
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 2007. 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.	Held April 21, 2007. Approximately 150 gas lawn mowers were turned in during the day	2007				
Emergency Funding for CMRTA System	In early 2006, Richland County Council was informed by the Central Midlands Transportation Authority that their transitional funding would run out at the end of the year, and if funding was not obtained by that time, service would be cut by up to 85% in Richland and Lexington Counties.	After weighing several options, Richland County passed an ordinance in October to increase its road maintenance fees by 16 dollars for personal vehicles, and 24 dollars for commercial vehicles. The revenues from these fees, approximately \$7.5 million, will allow the bus system to maintain its current level of service until a permanent funding source is found. The CMRTA provides a critical service in the Midlands, having provided approximately 2.6 million trips in FY 05-06.	2006				
Richland County Transportation Study Commission	As part of its temporary funding solution to the CMRTA crisis, Richland County Council established a Transportation Study Commission to study public transit, road improvements, and walking and bicycle trails. The commission will study transportation issues that are regional in nature. As a result, members will be made up of appointments from Richland and Lexington County Councils, the City Councils in Columbia, Cayce, and West Columbia.	Established during the fall of 2006, the 33 member commission will research and recommend ways to address long-range transportation needs in county, including mass transit and road improvements. The Executive Committee has met twice and has appointed three subcommittee chairs for Roads, Transit, and Greenways. The commission is expected to release a final report in the spring of 2008, as well as a recommendation for funding high-priority transportation projects.	2006 through 2008				
Cities of Lexington and Columbia - Tree City USA	Tree City USA encourages municipalities and areas to have strong urban forestry programs. The Tree City USA program is sponsored by The National Arbor Day Foundation in cooperation with the USDA Forest Service and the National Association of State Foresters.	The City of Lexington has been a Tree City for 18 years. The City of Columbia has been a Tree City for 27 years.	through 2007				
Local Government Partnerships/Outreach Town of Irmo - Lexington County	The Town of Irmo's yearly Arbor Day festivities raises money for tree and landscaping projects.	This year the Town of Irmo raised \$30,000 during the festivities. The money will be used on tree and landscaping projects throughout the next year. Already 50 trees have been purchased for planting. Over the last four years the Town has raised \$70,000 for arbor items.					
Air Quality Fines	One-half of the enforcement penalties assessed due to violations of state air quality regulations are sent to the county in which the violation took place.	On March 13, 2007, the Lexington County Council approved to put half of the air quality fines that are given to the County into a special account to cover air quality programs.	2007				
City of Cayce - Bio-diesel	The City of Cayce switched over to bio-diesel in the fall of 2006.	Currently 71 diesel trucks operated by the City of Cayce are running on bio-diesel.	2006				
Town of Irmo Stakeholders Group	Recent monitoring data from the PM2.5 monitor in the Town of Irmo reveals that the 2004-2006 design value is above the PM2.5 standard. Due to the success of the stakeholder activities and initiatives surrounding the Cayce CMS PM10 monitor, the Department as well as Lexington County officials are hoping to involve local stakeholders in reviewing the data and surrounding activities in an effort to implement strategies to reduce emissions.	South Carolina Department of Health and Environmental Control staff is in the early planning stages of gauging interest in forming a stakeholder group in the Town of Irmo. A stakeholder meeting was held on March 28, 2007. Invited to this first meeting include Lexington County representatives, Town of Irmo representatives, Irmo-Chapin Recreation officials, Leaphart Elementary School principal, SCE&G and Shaw Industries as well as DHEC-Bureau of Air Quality Staff. A second meeting is planned on May 23, 2007.	2007				
Mass Transit	Central Midlands Council of Governments and Columbia Area Transportation Study (COATS) Metropolitan Planning Organization (MPO) Committee Work - (Lexington, Richland, Kershaw, and Calhoun Counties)	The Central Midlands Council of Governments (CMCOG) is taking on a planning study for commuter rail transit services in the Central Midlands region. It will examine three potential commuter lines from Batesburg-Leesville, Camden and Newberry into downtown Columbia. The CMCOG region being studied includes the counties of Richland, Lexington, Newberry and Fairfield. Three public meetings were held during the first 6 months of 2006, to present preliminary planning and receive public feedback. Feedback was also accepted by mail fax, website and email. Presentations on Central Midlands' air quality have been given to the Transportation Committee and the Bike/Pedestrian Committee. The Rail Transit Committee has approved a model resolution for local governments to adopt. Along with the resolution, a "Model Policy Guide for Transit Supportive Development" was approved. These policies and ordinances will be recommended to the municipalities along the three identified rail corridors. The main emphasis is stimulation of land development around proposed station area sites.	2006				
Mayor using Alternative Fuel	Batesburg-Leesville Mayor James "Wiz" Wiszowaty blends 20 gallons of used cooking oil from Wiz's Eatery, the restaurant he owns, with diesel to fuel his vehicle.	Wiszowaty is the second local municipal leader to go green recently for transit. Columbia Mayor Bob Coble is preparing to trade in his Chevrolet Suburban for a Ford Escape, a hybrid car powered partly by a battery.	2007				

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
Local Industry improvements	1. Shaw Industries located in Irmo, SC has taken many steps in order to improve energy consumption at its facility. 2. The Columbia Metropolitan Airport is investigating starting a recycling program for its facility.	1. Shaw Industries energy efficiency improvements: 1.) Switch lighting throughout facility to fluorescent lighting 2.) install capacitors on motors to reduce electricity consumption 3.) Increase the efficiency of wash water columns 4.) install an electronic system to automatically regulate the demands of the company's air compressor 5.) Streamline the workings of the steam boilers 6.) Optimize the wastewater treatment plants operations to be more energy efficient 7.) Discontinued use of the previous oily water treatment system to no longer boil off oily water 8.) Increased recycling efforts at the facility. 2. In May representatives from the airport will be visiting the University of South Carolina to view the use of solar panels on University facilities and determine if similar technology can be utilized at the airport. 3. The Airport has implemented aluminum can recycling and continues to work with the Lexington County Recycling Coordinator and DHEC to further its recycling program.	Ongoing				
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 will also have links to state and federal air quality web sites.	Lexington County's Public Works Department website was launched in the summer of 2006. On the Public Works site is information about ground level ozone and the Early Action Compact. A request to update the website to include fall air quality tips, a fall air quality flash animation and links to federal and state websites was put into the County's IS Department on October 18, 2006. The request has yet to be filled.	Summer 2006	38.16 tons/season N/A	8.03 tons/season 183.5 tons/yr	N/A	
Support SCDHEC's 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	1. 12 alternative fuel vehicles in fleet. Four additional vehicles (three trucks and on car) are scheduled purchase. 2. Tri-axes 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.	1. The County is currently trying to purchase 4 additional flex fuel vehicles. This purchase must first be approved by County Council at their December meeting. 3. Caterpillar engines that are purchased for County are meeting the air quality standards proposed for 2007. 4. The County purchased four flex fuel vehicles in 2007. 5. The new patrol cars ordered are all flex fuel vehicles. there are currently 15 on the road with 25 more expected by January 1, 2008.	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 Irmo 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.	1. Butler and Main streets to be constructed as one-way. 2. Meeting scheduled with the grants librarian at the South Carolina State Library to learn more about researching and preparing grant proposals.	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 116 residential customers who have purchased 189 units 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.	completed 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
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 held on July 18, 2006. 3. Talk with Lexington Soil and Water Conservation District to partner with us for air quality issues.	1. June 2005 - Obtained list of the major VOC and NOx emitters in county and plan to met with these companies to discuss concerns regarding attainment issues. 2. Stakeholder meeting held with large employers in Lexington County to discuss the air quality situation and possible solutions. Thirty eight letters were mailed to businesses and industry with over 100 employees. Of those 17 people attended the July 18 meeting and three who could not attend requested materials from the meeting be forwarded to them. Along with the air quality presentation there was information handed out on Best Workplace for Commuters, Take a Break from the Exhaust and Energy Star. 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. July 18, 2006	Directionally sound	Directionally sound	N/A	

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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. 4. The Lexington County Landscape Administrator is conducting a survey of the number of trees planted on private property since the inception of the County's landscape ordinance. 5. Lexington County Council has asked that the Landscape Ordinance be revised to include tree and open space preservation in residential areas. The current ordinance only covers commercial areas. Proposed	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. The Director of Planning and GIS met with the County Administrator concerning the scenic corridor concept and the idea was endorsed by her. There are plans to take this idea before the planning commission before the end of the calendar year if the December 21, 2006 meeting is not canceled due to the holidays. The Town of Irmo planted more than 300 trees over the past 15 months. These trees include willow oaks, crepe myrtles and cherry. 4. In the first calendar year after the ordinance was adopted (2001) 611 trees were planted on private property. The combined diameter of the trees planted in the first year is 2800 inches. The estimated value of the trees planted is \$250,000. The trees planted and saved in the years since the landscape ordinance's adoption will continue to be sur 5. County staff will be meeting on November 26, 2007 to discuss possible revisions to the landscape ordinance.	1. Planted trees Jan.-Mar. 2005. 4. Survey of trees is ongoing.	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 EACs. 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. 7. July 18, 2006 attended an afternoon presentation by Mr. Fred Blood on Plug-in-Hybrids at the SC Energy Office. 8. August 16-17, 2006 attended the SC Early Action Compact Summit at the Carolina Convention Center. 9. February 15, 2007 attended the Palmetto State Clean Fuels Coalition meeting. 10. April 30, 2007 attended the SC Energy Efficiency Summit at the Carolina Convention Center.	1. 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. The lawn mower exchange is tentatively scheduled for April/May 2007. On September 8, 2006 a needs assessment survey created by DHEC and administered by Zoomerang was mailed out to all Lexington County, Richland County and DHEC stakeholders. The lawn mower exchange was held on Saturday April 21, 2007 at the SC State Museum. Approximately 150 mowers were exchanged for a Neuton Electric Mower. Citizens of both Lexington and Richland County are eligible to receive a discount on a Neuton Mower without a trade in throughout the summer. 4. 60 vehicles were checked for proper maintenance	1. April 21, 2007 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. Signed up as an It All Adds Up to Clean Air Community 6. Information concerning summer air quality information was posted on PBT Cable Channel 2 during the entire summer months. This information was from the It All Adds Up to Cleaner Air community partner summer seasonal materials. 7. Information concerning fall air quality information was posted on PBT Cable Channel 2 and the Town of Lexington's local cable access channel. This information was from the It All Adds Up to Cleaner Air community partner fall seasonal materials. 8. Eight organizations in Lexington County attended the August 16-17 EAC Summit. 9. March 12, 2007-Leadership Lexington Class. 10. September 19, 2007-Presented air quality information to the Greater Columbia Chamber of Commerce 11. September 4, 2007-Presented air quality information to the Greater Columbia Chamber of Commerce 12. October 16, 2007-Presented air quality information to the Lexington County Soil and Water Conservation 13. December 11, 2007-Presentation at the NRCS "Balancing Growth with Environmental Integrity" Series 14. December 3, 2007-Presentation at the SCDOT Pedestrian Conference.	June 2005 - update on educational air quality presentations for schools....; also working with landscape "guru" on educational/outreach presentations to local organizations... 4. Abandoned see item 13 7. The information will run for the entire fall season and will be replaced with winter tips at the season's change. Winter tips were posted on both PBT Cable Channel 2 and the Town of Lexington's local cable access channel. This information was replaced with information on the lawn mower exchange. Summer information will be posted in May 2007. 9. March 12, 2007 * Leadership Lexington Meeting. Synithia Williams * Lexington County EAC Contact, Nelson Roberts and Melinda Mathias * SCDHEC-BAQ gave an overview of the BAQ roles and responsibilities (who to contact) as well as information regarding the PM2.5 standards and concerns over the readings at the Irmo monitor and the formation of a stakeholder group. Information concerning the efforts and successes with the 8-hour Ozone EAC as it relates to Lexington County were also presented to this group.	1. June 2006 first article will appear. 6. 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. Ozone Alerts on high level ozone days were forwarded to all Department Heads in the County with a 8. Live read radio PSA announcements were mailed to local radio stations on July 13, 2006. 9. August 15, 2006 Air quality handouts were put on display at the County Administration building. 10. Advertised for the American Lung Association's Asthma Walk in the October issue of the County Soil 11. September 21, 2006 Attended the Home Builders Seminar in Columbia and presented information on 12. September 27, 2006 conducted an air quality presentation at the Midlands Urban Conservation Com 13. September 26, 2006 Myra Reese with the SCDHEC conducted a presentation of the air quality statu 14. October 18, 2006 New air quality information was displayed at the County Administration building. 15. September 25, 2006 Mailed information on the "Change a Light, Change the World" campaign to the 16. October 18, 2006 Mailed a letter to the 36 large employers in Lexington county with enclosed fall a 17. October 11, 2006 Information was emailed to stakeholders about the National Alternative Fuel Vehic 18. Promote the lawn mower exchange and the benefits of using electric mowers. 19. September 24, 2007-An exhibit was set up which included air quality information at the City of Colum	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. 9. 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. 8. Follow up was conducted with the radio stations a week after the PSA's were mailed. There was no response. 16. Three employers requested additional handouts. Nucor Building Supply posted teh handouts in their building and will pass out the smaller handouts to all employees. Shaw Industries called to thank the County for providing the information to them. FB Johnston Graphics requested a non color copy of the handouts to pass out to employees. Glassmaster requested 120 copies of the handout along with an article for their company newsletter. Information on Best Workplace for Commuters, Energy Star, Anti-idling and ride sharing was also forwarded to Glassmaster and Nucor Building Supply. 18. The lawn mower exchange along with the benefits of electric lawn mowers was advertised on WIS (NBC), WOLO	1-5. Spring 2005 6-7. June 2006 7. July 21, August 1, August 2, 2006 8. July 13, 2006	Directionally sound	Directionally sound	N/A	(http://www.lexington1.net/gms/schoolappearings.html#wetland)

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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. August 8, 2006 contacted Al Gates the Science Education Coordinator with Lexington Richland School District 5 concerning the B2 @ School program. On October 11 and 13, 2006 attended meetings with the science teachers in Lex/Rich School Dist 5 where information on the B2 @ School program was presented.	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.scowt.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.	May-06	Directionally sound	Directionally sound	N/A	
1300 employees receive Ground Level Ozone Awareness Information in Pay stubs	Comments #7 and 8	Mar. 31, 2005	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
DECEMBER 2007 LEXINGTON 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.							
Air Quality Awareness and Improvement Policy	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. 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 this is the purchase of low-emission vehicles. 10. Purchase the lowest-emission vehicles practical to meet County needs. This may include the purchase of electric vehicles. 11. A memo to department heads with instructions to circulate among employees and post in the department to 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.	1. Lexington County website has a link to the DHEC site with the Ozone Action Days. 2. County sent memos August 2005, to all employees to see the interest to carpooling. 3. All County employees are to turn off computers and lights when leaving at the end of each day.	Effective immediately - October 6, 2004 May 2006-Ozone Policy re-distributed to county employees	Directionally sound	Directionally sound	N/A	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. 1. See comment #6
1. Designate an Ozone Action Coordinator	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.	Completed in 2003 and continuing.				
2. Ozone Action Contacts	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 continue to discuss with Lexington Soil and Water Conservation District to partner with us on air quality issues. The District is currently updating its list of major emitters.	Completed in 2004 and continuing. Industry contacts were made after the Lexington County stakeholder meeting in July. Those industries are included in any air quality information that is dispersed by the County. The list will continually be updated as new contacts are made.	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.	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 the attendees were asked to consider shopping centers or churches near their facilities that could be used as possible park and ride locations.	Weekly counting began May 17, 2006. Completed 2003-2004 and continuing. There are approximately 20-25 cars using the park and ride facility.	1,848 lbs/year	952 lbs/year	N/A	CO reductions 7,297 lbs/year December 2004 EAC SIP - Appendix 16 See Comment 6

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
Improve Traffic Congestion	1. Offer commuters an alternative ride on ozone action days. 2. The Town of Lexington approved spending \$14,000 for equipment needed to synchronize traffic light to improve traffic flow on Columbia Avenue and Main Street. The Town will first monitor traffic at 20 intersections and the traffic lights will be timed based on the monitoring data. It is thought that this will reduce the congestion in this part of the town. 3. Bennington Court Extension-The CMCOG conducted a study of the Columbia Avenue (S32-48) corridor along with a road improvement plan in the Town of Chapin. The study revealed many traffic congestion issues along this corridor. As a way to relieve the congestion an extension of Bennington Court from Amicks Ferry Road to Lexington Avenue was introduced. The County proposed to fund the paving of the first phase of the extension with the remainder of the paving to be completed by the CMCOG. 4. The Town of Lexington approved spending \$14,000 for equipment needed to synchronize traffic light to improve traffic flow on Columbia Avenue and Main Street. The Town will first monitor traffic at 20 intersections and the traffic lights will be timed based on the monitoring data. It is thought that this will reduce the congestion in this part of the town. 5. The Greater Columbia Chamber of Commerce and the Greater Lexington Chamber of Commerce are working on a project to improve traffic flow on Columbia Avenue and Main Street.	1. Only July 31, 2006 the Central Midlands Regional Transit Authority announced they would offer free rides on the Smartride buses on Ozone Action Days. 2. Other traffic improvements are planned to be completed by the town within 5 years. 3. On May 22, 2007 the proposal for the County to pave the first phase of the extension was presented to and approved by the Public Works Committee. 4. State Transportation officials met in Lexington County on November 13, 2007 to outline the need for a regional transportation plan that includes local aid.	1. July 31, 2006 2. October 2, 2006				
Outdoor Burning Ordinance		County and DHEC personnel met on October 16 to come up with open burning regulations. The recommendations were presented to County Council on October 24, 2006 were: Exemptions: Vegetative debris burning related to forestry, wildlife and agricultural burns, as authorized by the state forestry commission Open burning in the connection with the preparation of food for immediate consumption, or campfires and fires used solely for recreational purposes, ceremonial occasions or human warmth that are done in a safe manner. Fires set for the purposes of training public fire-fighting personnel when authorized by the appropriate governmental entity. These will be exempt only if the drills are solely for the purposes of fire-fighting training and the duration of the burning is held to the minimum required for such purposes. Prior approval is required only for sites which are not established training sites. (From Greenville County Ordinance) Fires in a residential subdivision: The burning must be located not less than 500 feet from any structure and not less than 500 feet from the property line and adequate provision is made to prevent the fire from spreading within 50 feet of any structure. Fires prohibited by the ban: Fires associated with the burning of debris on site by a licensed contractor during new construction of a home or other structure. Proposed open burning bans: 1. No burning is allowed except as listed in the exemptions at any time of the year. 2. No burning is allowed except as listed in the exemptions during the Ground Level Ozone Season of April 1-October 31. 3. No burning is allowed except as listed in the exemptions on days when the Air Quality Index for ground level ozone is 100 or greater.	Exact ordinance language still under discussion. No specific date is available at this time.				
Outdoor Burning Ordinance (continued)		A meeting with the Home Builders Association was held on December 8, 2006. Subsequent discussions between the Home Builders Association, Myra Reece, Chief – Bureau of Air Quality and Katherine Hubbard, Lexington County Administrator. On January 31, 2007, the Public Works and Public Safety Departments of Lexington County as well as SCDHEC staff (Central Office and Regional staff) met. On a tentative date of February 27, 2007 has been suggested to discuss the proposed changes to the ordinance were discussed with Lexington County Council sub-committee. On March 13, 2007, the proposed changes to the ordinance were discussed with Lexington County Council sub-committee and the proposed buffer of 100 feet for yard-trash was reduced to 75 feet (the current buffer is 50 feet). The proposed ordinance was officially read the first time before the entire Lexington County Council. Since the introduction of the burn ordinance there have been 63 Approved Burns, 320 Unauthorized Burns (warnings), and 40 citations issued					
Burn Ban Article	An article titled "Long-held tradition going up in smoke; Toughened outdoor burning law limits one of favorite activities in county" was posted on Monday July 30, 2007.	The article covered the new outdoor burning restrictions adopted by the Lexington County Council that went into effect July 1. It included the major changes: In subdivisions: No fires within 75 feet of a property line. The old rule was 50 feet. County Council backed away from a proposed 100-foot ban.	Posted on Mon, Jul. 30, 2007				
Open burning ordinance enforcement blitz	The Blitz took place the week of 3/31/07 and involved County Fire Services, Irmo Fire District & SC Forestry Commission. Lexington County is cross-training hundreds of firefighters and deputies in order to better enforce outdoor burning laws that are about to get more restrictive.	Members of the commission hit the streets of rural Lexington County to conduct spot checks at residences where burning was in progress. In March two Irmo fire officials were granted authority to write \$1,087 tickets in the 18-square-mile, unincorporated area around the town of Irmo. Council also decided 400 paid and volunteer firefighters in the rest of the county could issue warnings but not write tickets. They will be trained by the end of April. Eventually, 22 of them might be allowed to write tickets. Road deputies and resident deputies are to receive refresher training on the burning law, but their primary function will be to educate the public about its provisions. As with firefighters, deputies will issue warnings first. All complaints and violations will be tracked so authorities can track frequent offenders	31-Mar-07				
Comments: 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 - http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac.html - additional information provided by the county to include "findings", "advantages/disadvantages", "recommendations", "costs", etc.... 3. March 2004 - Local Early Action Plan - See - http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0304.asp 4. June 2004 - Progress Report - See - http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0604.asp 5. December 2004 - Progress Report - See - http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_1204.asp 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 - http://www.scdhec.gov/eqc/baq/html/eap_sip.html 7. April 20, 2005 - Correspondence to Mr. Palmer including clarifying supplemental information to the EAC SIP submittal of December 2004. - See - http://www.scdhec.gov/eqc/baq/html/eap_sip.html 8. June 2005 - Progress Report - See - http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0605.asp							

December 2007 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	kdoucett@lex-co.com
EAC contact	Synithia Williams	(803) 785-8634	swilliams@lex-co.com

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.

- o In 2003 the Lexington County Administrator Art Brooks delegated the responsibilities of this program to the Director of Public Works John Fechtel.
- o 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.
- o 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.

- o 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.
- o 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.
- o 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
- o 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.
- o Stakeholder meeting was held with large employers in Lexington County to discuss the air quality situation and possible solutions. Thirty eight letters were mailed to businesses and industry with over 100 employees. Of those 17 people attended the July 18 meeting and three who could not attend requested materials from the meeting be forwarded to them. Along with the air quality presentation there was information handed out on Best Workplace for Commuters, Take a Break from the Exhaust and Energy Star.
- o 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.

- o 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.
- o During the July stakeholder meeting the attendees were asked to consider shopping centers or churches near their facilities that could be used as possible park and ride locations.

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.

- o Please see the Ozone Policy adopted August 24, 2004.
- o 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.
- o 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. Information about TABFTE and how individuals could sign up for the program was listed in the August 2006 County Scoop newsletter. There was no interest from employees to sign up for the program. In order to increase interest for the 2007 ozone season, donations from local businesses will be solicited to give as prizes to the person or team who showed the best effort at reducing pollutants based on their inputs into the TABFTE program. **Donations were not solicited from local businesses due to the Ozone Contact taking a leave of absence. Council will be asked if money collected from air quality fines can be used to for prizes in 2008.**
- o Local industries were informed of the Take a Break from the Exhaust program during the July stakeholder meeting.

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.

- 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.
- o 12 alternative fuel vehicles in the county fleet. Four additional alternative fuel vehicles are being considered for purchase. This purchase must first be approved by County Council at their December meeting. The County purchased 4 new flex fuel vehicles in 2007.
- o The new patrol cars ordered for 2008 are flex fuel vehicles. There are currently 15 on the road with 25 more expected by January 1, 2008.
- 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 in 2005 (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.
- o VDO system on County vehicles monitors driving habits.
- o Fleet is maintained 3 month or 5,000 miles, if not maintained the fuel dispensers will not work for the vehicle.
- o 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.
- o 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, Irmo C-Mart (E-85) 7353 Nursery Road, Pitt Stop # 41 (E-85) 1005 Old Cherokee Road all sell alternative fuel in Lexington County.
- o 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.
- o Central Midlands Regional Transit Authority (CMRTA), the public transportation system for the Central Midlands area, has 7 buses that operate on compressed natural gas.
- o 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 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.

- o Local industry was informed of the benefits of AFV at the July stakeholder meeting and invited to the August Early Action Summit to receive more information on AFV.
- o The City of Cayce switched over to bio-diesel in the fall of 2006. Currently 71 diesel trucks operated by the City of Cayce are running on bio-diesel.
- o Batesburg-Leesville Mayor James “Wiz” Wiszowaty blends 20 gallons of used cooking oil from Wiz’s Eatery, the restaurant he owns, with diesel to fuel his vehicle. Wiszowaty is the second local municipal leader to go green recently for transit. Columbia Mayor Bob Coble is preparing to trade in his Chevrolet Suburban for a Ford Escape, a hybrid car powered partly by a battery.

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.

- o 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.
- o See measure four of the Air Quality Awareness and Improvement Policy.
- o During the May 9, 2007 Department Head Staff Meeting the County's Fleet Manager requested that department heads remind employees not to idle vehicles and make every trip count. This was supported by the County Administrator.

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.

- o 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.
- o 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) 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.
- o The County is researching various ways to recycle the methane produced at the 321 Landfill. One possibility is to become a partner in the Chicago Climate Exchange (CCX) which allows emissions trades for greenhouse gas emissions. The Landfill Gas Collection and Control System at 321 Landfill could be considered as an offset project for greenhouse gas emissions. The application for CCX is being prepared by the County's LMOP consultant. This information must be agreed upon by the County Council before the application can be submitted. This information will be presented to council after further research into the CCX and other methane recycling options is explored. No further action has been taken on this issue.

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. **

- o 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 **

- o 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.
- o Lexington County website has a link to the DHEC site with the Ozone Action Days.

- o 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.
- o All County employees are to turn off computers and lights when leaving at the end of each day.
- o May 2006-Ozone Policy re-distributed to Department Heads to display in the Department and pass out to their employees
- o 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 Ozone Action Day notices were forwarded to department heads on June 21, August 1 and August 2, 2006.
- o May 2007-Ozone Policy re-distributed to Department Heads. It was asked that this information be made available to employees in their departments.

3. Create Air Quality Website

- o 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
- o Lexington County's Public Works Department website was launched in the summer of 2006. On the Public Works site information about ground level ozone and the Early Action Compact is available.
- o A request to update the website to include fall air quality tips, a fall air quality flash animation and links to federal and state websites was put into the County's IS Department on October 18, 2006. The request has yet to be filled.

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). **

- o 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.
- o 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)

- o Public Meeting held Nov. 14, 2005

- 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 that will be begin implementation within the first two years after adoption of the plan, depending on funding. 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 Irmo
 - 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

6. Land-Use Improvement Action

- o 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.
- o 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. A public hearing on the stormwater ordinance is scheduled for June 12, 2007 with final reading and adoption on June 26, 2007. **The stormwater ordinance was approved in July 24, 2007. The new stormwater requirements include riparian buffers along waterways and limits on clearing during construction.**
- o 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.
- o In May and June 2006 the County's Planning Department and the Public Works Department 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/) One block is equal to 100-kilowatt hours of electricity for residential customers and 200-kilowatt hours of electricity for commercial customers.**

- o Local businesses supporting are Lowe's, BBT, Kinko, and Wachovia Banks.
- o There are 116 residential customers who have purchased 189 units of green power in Lexington County as of April 30, 2007. Residents can continue to purchase green blocks on voluntary basis.
- o There is 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

- o 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

- o Lexington County/Richland County applied for grant for Gas Cap Replacement/Gas Cap Wrenches, but did not receive the grant.
- o 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

- o 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.
- o 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.
- o The Director of Planning and GIS met with the County Administrator concerning the scenic corridor concept and the idea was endorsed by her. There are plans to take this idea before the planning commission before the end of the calendar year if the December 21, 2006 meeting is not canceled due to the holidays.
- o The Lexington County Landscape Administrator is conducting a survey of the number of trees planted on private property since the inception of the County' landscape ordinance. In the first calendar year after the ordinance was adopted (2001) 611 trees were planted on private property. The combined diameter of the trees planted in the first year is 2800 inches. The estimated value of the trees planted is \$250,000. The trees planted and saved in the years since the landscape ordinance's adoption will continue to be surveyed.
- o Lexington County Council has asked that the Landscape Ordinance be revised to include tree and open space preservation in residential areas. The current ordinance

only covers commercial areas. Proposed changes include making tree/open space preservation mandatory, increased standards for tree harvesting and extending the ordinance Countywide. The Community Development Department is working with the Stormwater Department on recommendations for updates to the ordinance.

- o 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 has 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.
- o The Town of Irmo planted more than 300 trees over the past 15 months (Jan 2006 – March 2007). These trees include willow oaks, crepe myrtles and cherry.

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

- o May 25, 2005 attended Dr. Dave Nowak-"Understanding the Effects of the Urban Forest on Air and Water Quality".
- o 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.
- o August 23-25, 2005 attended the Southern Transportation and Air Quality Summit (STAQS) Conference.
- o November 3, 2005 Participated in conference call with DHEC and Richland County for guidance for the EAC Report due December 2005.
- o March 13-14, 2006 attended the Midlands Low Impact Development Workshop presented by the Midlands Urban Conservation Committee.
- o 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.
- o July 18, 2006 attended an afternoon presentation by Mr. Fred Blood on Plug-in-Hybrids at the SC Energy Office.
- o August 16-17, 2006 attended the SC Early Action Compact Summit at the Carolina Convention Center.
- o February 15, 2007 attended the Palmetto State Clean Fuels Coalition meeting.
- o April 30, 2007 attended the SC Energy Efficiency Summit at the Carolina Convention Center.

12. Public Awareness/Education

- o 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.
- o 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.
- o 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.
 - o 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. Newsletter information has not been forwarded for inclusion in the MCEC newsletter as of this date.
 - o 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.
 - o 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.
 - o 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.
 - o 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.
 - o Information concerning summer air quality information was posted on PBT Cable Channel 2 during the summer months. This information was from the It All Adds Up to Cleaner Air community partner summer seasonal materials.
 - o Information concerning fall air quality information was posted on PBT Cable Channel 2 and the Town of Lexington's local cable access channel. This information was from the It All Adds Up to Cleaner Air community partner fall seasonal materials. The information will run for the fall season and will be replaced with winter tips at the season's change. Winter tips were posted on both PBT Cable Channel 2 and the Town of Lexington's local cable access channel. This information was replaced with information on the lawn mower exchange. Summer information will be posted in May 2007.
 - o Eight organizations in Lexington County attended the August 16-17 EAC Summit.
 - o March 12, 2007 * Leadership Lexington Meeting. Synithia Williams * Lexington County EAC Contact, Nelson Roberts and Melinda Mathias * SCDHEC-BAQ gave an overview of the BAQ roles and responsibilities (who to contact) as well as information regarding the PM2.5 standards and concerns over the readings at the Irmo monitor and the formation of a stakeholder group. Information concerning the

efforts and successes with the 8-hour Ozone EAC as it relates to Lexington County was also presented to this group.

- o September 19, 2007-Presented air quality information to the Greater Columbia Chamber of Commerce's Environmental Committee.
- o September 4, 2007-Presented air quality information to the Greater Columbia Chamber of Commerce's Issues Committee.
- o October 16, 2007-Presented air quality information to the Lexington County Soil and Water Conservation District.
- o December 11, 2007-Presentation at the NRCS "Balancing Growth with Environmental Integrity" Seminar.
- o December 3, 2007-Presentation at the SCDOT Pedestrian Conference.

13. Public Awareness/Information

- o 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.
- o Ozone Awareness Week 2005 posters were displayed at the County Administration building along with brochures for all citizens and employees.
- o 1200 brochures for spring season awareness were attached to employee paychecks on March 31, 2005 concerning Ozone Awareness.
- o 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.
- o 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.
- o Ozone Alerts on high level ozone days were forwarded to all Department Heads in the County with a request to forward the alerts to their employees.
- o Live read radio PSA announcements were mailed to local radio stations on July 13, 2006. Follow up was conducted with the radio stations a week after the PSAs were mailed. There was no response.
- o August 15, 2006 Air quality handouts were put on display at the County Administration building.
- o Advertised for the American Lung Association's Asthma Walk in the October issue of the County Scoop Newsletter. This advertisement included information on how ground level ozone affects asthma sufferers.
- o September 21, 2006 Attended the Home Builders Seminar in Columbia and presented information on air quality along with providing information on Energy Star and electric lawnmowers.

- o September 25, 2006 Mailed information on the "Change a Light, Change the World" campaign to the air quality stakeholders who attended the July meeting, county department heads and other staff members with the message to pass it on to others.
- o September 26, 2006 Myra Reece with the SCDHEC conducted a presentation of the air quality status in the midlands to Lexington County council.
- o September 27, 2006 conducted an air quality presentation at the Midlands Urban Conservation Committee monthly meeting.
- o October 11, 2006 Information was emailed to stakeholders about the National Alternative Fuel Vehicle Day Odyssey at York Technical College.
- o October 18, 2006 New air quality information was displayed at the County Administration building.
- o October 18, 2006 Mailed a letter to the 36 large employers in Lexington county with enclosed fall air quality handouts requesting they make this information available to their employees. Three employers requested additional handouts. Nucor Building Supply posted the handouts in their building and will pass out the smaller handouts to all employees. Shaw Industries called to thank the County for providing the information to them. FB Johnston Graphics requested a non color copy of the handouts to pass out to employees. Glassmaster requested 120 copies of the handout along with an article for their company newsletter. Information on Best Workplace for Commuters, Energy Star, Anti-idling and ride sharing was also forwarded to Glassmaster and Nucor Building Supply.
- o The lawn mower exchange (held in April 2007) along with the benefits of electric lawn mowers was advertised on WIS (NBC), WOLO (ABC), WLTX (CBS) and WACH (FOX). This information was also presented in the State Museum's quarterly newsletter, the Lexington County, Richland County , DHEC and City of Columbia websites, Lexington County's Community Development newsletter, through mass emails to County stakeholders and on two radio stations, WVOC and 98.5 KISS F.M.
- o September 24, 2007-An exhibit was set up which included air quality information at the City of Columbia's Climate Protection Action Committee Green is Good for Business Summit.

14. Education of environmental issues within school systems

- o 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.
- o She conducted an outdoor workshop with the students on air quality on Oct, 25, 2005.
- o 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.
- o 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.
- o August 8, 2006 contacted Al Gates the Science Education Coordinator with Lexington Richland School District 5 concerning the B2 @ School program. On October 11 and 13, 2006 attended meetings with the science teachers in Lex/Rich School Dist 5 where information on the B2 @ School program was presented.

- o December 2006-“Return the Warmth” program sponsored by Keep America Beautiful, encouraged schools to recycle No. 1 plastics, the type commonly used for soda bottles. The program was coordinated locally by Keep the Midlands Beautiful. Paper Stock Dealers/Sonoco - the recycling center that serves the three school districts - collected and counted the bottles. Aquafina and Sam’s Club provided the jackets. Students from Richland 2, Lexington 2, and Lexington-Richland 5 collected more than 100,000 plastic bottles, ranking the area among the top 50 communities in the country taking part in the drive. Schools from those communities received an allotment of child-sized fleece jackets - made of the same type of plastic - to be distributed to needy residents in their areas.

15. Join and participate in Clean Cities

- o 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

- o 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

- o 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. The lawn mower exchange is tentatively scheduled for April 2007. On September 8, 2006 a needs assessment survey created by DHEC and administered by Zoomerang was emailed out to all Lexington County, Richland County and DHEC stakeholders. The lawn mower exchange was held on Saturday April 21, 2007 at the SC State Museum. Approximately 150 mowers were exchanged for a Neuton Electric Mower. Citizens of both Lexington and Richland County are eligible to receive a discount on a Neuton Mower without a trade in throughout the summer.
- o 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. **

- o 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.
- o Car Care Event for women. Suddeth Automotive offered Women's Car Care Seminars at 1410 Millwood Avenue Saturday April 28, 2007. Two sessions are available, from 9:30-11:30 a.m. and 1:30-3:30 p.m. Participants learned car essentials, including maintenance. Certified technicians were on hand to answer questions. Participants received an automotive goodie bag and were eligible for door prizes, including a \$50 gas card. Admission was free, but advanced registration was required. [Suddeth Automotive offered another Women's Car Care Seminar on October 27, 2007.](#)
- o Regional roundtable discussion on the impacts of residential growth on SC communities. The Strom Thurmond Institute at Clemson University invited a number of participants from local government to attend the third in a series of regional roundtable discussions on the impacts of residential growth on SC communities, focusing especially on fiscal, economic and quality of life impacts. The roundtable was held on April 12, 2007. Information from the sessions are taped and will be used to produce a citizen's guide on the growth issue, how it impacts communities and what citizens can do. There will also be a technical report with policy recommendations that suggest how our state and local governments can best channel growth into forms and areas that are fiscally responsible and that maximize our quality of life.
- o Emergency Funding for CMRTA System. As part of its temporary funding solution to the CMRTA crisis, Richland County Council established a Transportation Study Commission to study public transit, road improvements, and walking and bicycle trails. The commission will study transportation issues that are regional in nature. As a result, members will be made up of appointments from Richland and Lexington County Councils, the City Councils in Columbia, Cayce, and West Columbia. Established during the fall of 2006, the 33 member commission will research and recommend ways to address long-range transportation needs in county, including mass transit and road improvements. The Executive Committee has met twice and has appointed three subcommittee chairs for Roads, Transit, and Greenways. The commission is expected to release a final report in the spring of 2008, as well as a recommendation for funding high-priority transportation projects.
- o April 14, 2007-Intel Corporation and Best Buy sponsored an electronics recycling event. Computers, monitors, printers, scanners, keyboards, mice, VCRs, terminals, cables, fax machines, radios, modems, telephones, TVs, copiers, typewriters, stereo equipment and cell phones were accepted for recycling. This event was held in the Colonial Center parking lot (corner of Lincoln and Blossom streets) for Midlands area residents.

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

- o 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.

- o 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.
- o 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.
- o 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

- o 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.
- o 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.
- o 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.

20. Support efforts to create a regional air quality committee.

- o Interest was expressed by the Lexington County Administrator in the County sending a joint letter with the Richland County Administrator to the Central Midlands Council of Governments. The letter would request that the COG take the lead in setting up a regional air quality committee. Efforts to include Newberry and Fairfield Counties will also be explored. On April 4, 2007 Katherine Hubbard met with Milton Pope, Richland County Administrator and Norman Whitaker with the Central Midlands Council of Governments to discuss forming a regional air quality group. The first regional air quality planning meeting will be held at the CMCOG on June 27, 2007. **The second regional air quality forum will be held at the CMCOG on November 28, 2007.**
- o The City of Columbia has created a Climate Protection Action Committee. The committee is charged with creating an action plan to reduce municipal greenhouse gas emissions and submit this plan to the City Council within 6 months. Lexington County is represented as an advisory member on the City of Columbia's Climate Protection Action Committee. The action plan that is developed by the Climate Protection Action Committee can serve as a basis for a regional air quality committee. The draft action plan

that was put together by the CPAC was presented to City Council on May 15, 2007. Once approved by City Council, City staff will begin to implement the plan.

21. Outdoor Burning Ordinance

- o The Lexington County Public Works and Public Safety Departments are working with SCDHEC to implement a no-burning ordinance in the County. County and DHEC personnel met on October 16 to come up with open burning regulations. The recommendations that were presented to County Council on October 24, 2006 were:

Exemptions:

- o Vegetative debris burning related to forestry, wildlife and agricultural burns, as authorized by the state forestry commission
- o Open burning in the connection with the preparation of food for immediate consumption, or campfires and fires used solely for recreational purposes, ceremonial occasions or human warmth that are done in a safe manner.
- o Fires set for the purposes of training public fire-fighting personnel when authorized by the appropriate governmental entity. These will be exempt only if the drills are solely for the purposes of fire-fighting training and the duration of the burning is held to the minimum required for such purposes. Prior approval is required only for sites which are not established training sites. (From Greenville County Ordinance)

Fires in a residential subdivision:

- o The burning must be located not less than 500 feet from any structure and not less than 500 feet from the property line and adequate provision is made to prevent the fire from spreading within 50 feet of any structure.

Fires prohibited by the ban:

- o Fires associated with the burning of debris on site by a licensed contractor during new construction of a home or other building.

Proposed open burning bans:

- o 1. No burning is allowed except as listed in the exemptions at any time of the year.
- o 2. No burning is allowed except as listed in the exemptions during the Ground Level Ozone Season of April 1-October 31 of each year.
- o 3. No burning is allowed except as listed in the exemptions on days when the Air Quality Index for ground level ozone is a code orange (101 or greater/Unhealthy for Sensitive Groups)

These recommendations are proposed in an effort to lower limits of ground level ozone. It should be noted that more stringent standards may be considered at a later date if needed.

Lexington County Council recommended that County staff and DHEC meet with the Homebuilders Association to discuss the possible ban on burning of debris by a licensed contractor. This meeting is scheduled for December 8, 2006.

The outdoor burn ordinance had final reading and was approved by the County Council on May 22, 2007. Implementation of the burn ordinance will be July 1, 2007. The new ordinance prevents fires associated with land clearing and right of way maintenance during the ozone season. It also increases the distance of residential yard burning from 50 to 17

feet. There has also been an increase in enforcement of the burn ordinance. Enforcement enhancement includes:

- all fire service personnel, both paid and volunteer can issue warnings
- Emergency dispatch records will track warnings and citations
- Deputies have been trained to enforce the burn ordinance.
- Irmo Chapin Fire District has code enforcement capabilities within the County service area.
- Additional code enforcement officers have been added to Fire Services.

Since the introduction of the burn ordinance there have been 63 Approved Burns, 320 Unauthorized Burns (warnings), and 40 citations issued

22. **Improve Traffic Congestion**

- o On July 31, 2006 the Central Midlands Regional Transit Authority announced they would offer free rides on their Smartride buses on Ozone Action Days.
- o On October 2, 2006 the Town of Lexington approved spending \$14,000 for equipment needed to synchronize traffic lights to improve traffic flow on Columbia Avenue and Main Street. The Town will first monitor traffic at 20 intersections and the traffic lights will be timed based on the monitoring data. It is thought that this will reduce the congestion in this part of the town.
- o The Central Midlands Council of Governments (CMCOG) is sponsoring the Midlands Tomorrow Travel Survey, which will capture information specific to participants' travel behavior and their opinions concerning the region's transportation network. The travel information gathered from this survey will be used to update the regional travel model that is used for transportation planning, traffic forecasting, project evaluation, and multi-modal analysis. Surveys were conducted by telephone beginning February 13, 2007 and continued through the end of March 2007.
- o Bennington Court Extension-The CMCOG conducted a study of the Columbia Avenue (S32-48) corridor along with a road improvement plan in the Town of Chapin. The study revealed many traffic congestion issues along this corridor. As a way to relieve the congestion an extension of Bennington Court from Amicks Ferry Road to Lexington Avenue was introduced. The County proposed to fund the paving of the first phase of the extension with the remainder of the paving to be completed by the CMCOG. On May 22, 2007 the proposal for the County to pave the first phase of the extension was presented to and approved by the Public Works Committee. Air quality was explicitly discussed as an issue/concern resulting from the traffic congestion.
- o The Greater Columbia Chamber of Commerce and the Greater Lexington Chamber of Commerce are pushing for a regional traffic management plan for Richland and Lexington Counties. State Transportation officials met in Lexington County on November 13, 2007 to outline the need for a regional transportation plan that includes local aid.

23. **Air Quality Fines**

- o One-half of the enforcement penalties assessed due to violations of state air quality regulations are sent to the county in which the violation took place.

- o On March 13, 2007, the Lexington County Council approved to put half of the air quality fines that are given to the County into a special account to cover air quality programs.

24. Town of Irmo Stakeholders Group

- o Recent monitoring data from the PM2.5 monitor in the Town of Irmo reveals that the 2004-2006 design value is above the PM2.5 standard. Due to the success of the stakeholder activities and initiatives surrounding the Cayce CMS PM10 monitor, the Department as well as Lexington County officials are hoping to involve local stakeholders in reviewing the data and surrounding activities in an effort to implement strategies to reduce emissions.
- o South Carolina Department of Health and Environmental Control staff is in the early planning stages of gauging interest in forming a stakeholder group in the Town of Irmo. A stakeholder meeting was held on March 28, 2007. Invited to this first meeting include Lexington County representatives, Town of Irmo representatives, Irmo-Chapin Recreation officials, Leaphart Elementary School principal, SCE&G and Shaw Industries as well as DHEC-Bureau of Air Quality Staff. A second meeting is planned on May 23, 2007. A second meeting was held on May 23, 2007. Additional stakeholders attending this meeting were representatives from the CSX railroad, local home builders, SCDOT and the Central Midlands Regional Council of Governments. The Central Midlands COG has demonstrated a leadership role in this effort and has scheduled an Air Quality Forum for June 27, 2007.

25. Mass Transit

- o Central Midlands Council of Governments and Columbia Area Transportation Study (COATS) Metropolitan Planning Organization (MPO) Committee Work - (Lexington, Richland, Kershaw, and Calhoun Counties)
- o The Central Midlands Council of Governments (CMCOG) is taking on a planning study for commuter rail transit services in the Central Midlands region. It will examine three potential commuter lines from Batesburg-Leesville, Camden and Newberry into downtown Columbia. The CMCOG region being studied includes the counties of Richland, Lexington, Newberry and Fairfield. Three public meetings were held during the first 6 months of 2006, to present preliminary planning and receive public feedback. Feedback was also accepted by mail fax, website and email. Presentations on Central Midlands' air quality have been given to the Transportation Committee and the Bike/Pedestrian Committee. The Rail Transit Committee has approved a model resolution for local governments to adopt. Along with the resolution, a "Model Policy Guide for Transit Supportive Development" was approved. These policies and ordinances will be recommended to the municipalities along the three identified rail corridors. The main emphasis is stimulation of land development around proposed station area sites.

26. Reusing "Brownfields" for Commuter Rail

- o A regional government group is looking at ways to redevelop about 50 abandoned industrial sites in the Midlands as future commuter rail stations.
- o The Central Midlands Council of Governments has identified 22 possible rail station sites that could serve three future commuter rail and high-speed transit lines: Columbia to

Newberry, Columbia to Camden and Columbia to Batesburg-Leesville. While building such a system is still at least two decades away, council officials say reusing “brownfields” - abandoned, idle or underused industrial and commercial facilities that might be contaminated but can be cleaned up - could bring costs down.

27. Congaree, Wateree and Santee Basin Initiative task force

- o DNR created the Congaree, Wateree and Santee Basin Initiative task force that targets 215,000 acres of land in the Midlands to be preserved from development. The task force is not anti-development, but it wants to direct growth in these areas away from prime natural property. The land is mostly in Richland and Sumter counties, but includes smaller parcels in Kershaw, Lexington and Calhoun counties. So far, 16 landowners in the target area have committed almost 15,000 acres to conservation easements in exchange for tax breaks and other financial incentives.

28. Hard Scrabble “green” home building and environmental education

- o The 853 acre Hard Scrabble tract on the Wateree River in Camden was donated to Clemson University last year and could become an international model for “green” home building and environmental education. Benefactor Margaret Lloyd donated the more than 850 acres near Camden and \$2 million last year to Clemson University for an environmental education center. The center and the housing development will be used to educate the public about the human connection to the natural world. The center also will be used for research, and the green homes will help builders learn about green building. A planned 150-home community on the site could become the first green home neighborhood in the Midlands and one of the first in the nation certified by the U.S. Green Building Council. Clemson University plans to build the environmentally friendly community - a mix of town homes, cottages and manors ranging in price from \$175,000 to \$400,000 - on 100 acres off Springdale Drive, a portion of the sprawling plot that is loaded with natural wonders Lloyd longs to share with the public. Clemson plans to build 150 “green” homes on 100 acres of the property to help pay the cost of building the center. Clemson has applied to have the homes accepted into the LEED for Homes pilot project. The U.S. Green Building Council will use that project to help fine-tune guidelines for green building.

29. Green Infrastructure Open Space Planning

- o The Central Midlands Council of Governments (CMCOG) is currently working on developing a regional plan for preserving open space. The goal of such a plan is to create a network of protected lands within the region that will be a legacy for future generations. The CMCOG is taking the “green infrastructure” approach to creating an open space preservation plan. Green infrastructure is defined as an interconnected network of open spaces that conserves natural ecosystems and functions, and provides associated benefits to human populations.
- o The CMCOG has an online survey that was made available on the Lexington and Richland County website, the CMCOG's website and the City of Columbia's website. This survey is to determine how important open space preservation is to the citizens in the central midlands area. As of March 30, 2007 there were 122 respondents who rated the importance of open space preservation 9.3 on a scale of 1-10.

- o The COG's Green Infrastructure committee completed the open space preservation plan. The committee decided to begin implementing the plan in 2008 with an increased emphasis on implementation within Lexington County.

30. Local Industry improvements

- o Shaw Industries located in Irmo, SC (Lexington County) has taken many steps in order to improve energy consumption at its facility. These improvements include 1.) Switch lighting throughout facility to fluorescent lighting 2.) Install capacitors on motors to reduce electricity consumption 3.) Increase the efficiency of wash water columns 4.) Install an electronic system to automatically regulate the demands of the company's air compressor 5.) Streamline the workings of the steam boilers 6.) Optimize the wastewater treatment plants operations to be more energy efficient 7.) Discontinued use of the previous oily water treatment system to no longer boil off oily water 8.) Increased recycling efforts at the facility.
- o The Columbia Metropolitan Airport is investigating starting a recycling program for its facility. In May representatives from the airport will be visiting the University of South Carolina to view the use of solar panels on University facilities and determine if similar technology can be utilized at the airport. The Airport has implemented aluminum can recycling and continues to work with the Lexington County Recycling Coordinator and DHEC to further its recycling program.

31. Support efforts of The Climate Registry

- The Climate Registry established by states, tribes and provinces in North America as a mechanism to measure greenhouse gas (GHG) emissions consistently across industry sectors and borders. The Climate Registry encourages voluntary early actions to increase energy efficiency and decrease GHG emissions. The Climate Registry accounting infrastructure supports a wide variety of programs that reduce GHG emissions including voluntary, regulatory and market-based programs.
- A meeting was held on October 4, 2007. Joel Levin provided an overview of the The Climate Registry. Mr. Levin is the California Climate Action Registry's Vice President for Business Development. He is responsible for educating participants from all economic sections and regions to register and certify their greenhouse gas emissions.
- Representatives from state and local governments, including Lexington County, as well as business and industry attended the discussion.

32. Local Government Partnerships/Outreach

- Lexington County Council voted to make comments regarding the proposed 8-hour Ozone standard to EPA in the form of a resolution. The resolution also encourages EPA to allow local areas the opportunity to implement early action measures in lieu of non-attainment designations which carry prescriptive requirements. Myra Reece was requested to attend the August 28, 2007, Lexington County Council meeting. Resolution passed and submitted as comments to the proposed 8-hour Ozone Standard.
- The Irmo Town Council, on behalf of the Town of Irmo issued comments regarding the proposed 8-hour Ozone standard to EPA in the form of a resolution. The resolution encourages EPA to maintain the current NAAQS. The resolution also urges the

citizens and businesses of the Town of Irmo to act in a manner that will preserve and protect the quality in the Irmo community.

- The Town of Irmo's yearly Arbor Day festivities raise money for tree and landscaping projects. This year the Town raised \$30,000 during the festivities. The money will be used on tree and landscaping projects throughout the next year. Already 50 trees have been purchased for planting. Over the last four years the Town has raised \$70,000 for arbor items.

33. Lawnmower Exchange Event - 2008

- Richland and Lexington Counties and DHEC-BAQ are planning a lawnmower exchange event to be held in 2008. A planning meeting was held on September 11, 2007. The target date for the event is the Spring of 2008.

34. Leaphart Elementary Anti-idling Program

- DHEC staff met with the principal of Leaphart Elementary school. Leaphart has incorporated a no idling policy for the 2007-2008 school year and has put up anti-idling signs. The last issue of the school news letter had an article about the b2 program for the parents; the next issue will include an article about the monitor and the air quality issues that area is facing. The school is also looking at planting trees to catch PM and landscaping for beautification areas to reduce mowing. DHEC staff met with the local urban forester in July to look at plans for both trees and shrubs on the school grounds.

36. Walk to School Day

- South Carolina embraced Walk to School Day festivities. First lady Jenny Sanford and other guests joined hundreds of children from neighborhoods in the Piney Grove Road area to walk to Leaphart Elementary School in Lexington-Richland 5 on October 3, 2007. Richland and Lexington county sheriff's deputies were alerted that more children would be walking to schools.

37. Natural Resource Conservation Service Environmental Efforts

- NRCS has the following conservation concerns which benefit air quality: Stacking Sheds, Conservation Cover, Cover Crop, Hedgerow Planting, Tree Planting and Pasture and Hayland Planting. In 2008 NRCS is cost sharing with 4 farmers on stacking sheds, 1 farmer on cover crops and 7 farmers on pasture and hay planting. In 2007 NRCS worked with 2 farmers on stacking sheds and worked with 3 in 2006.

38. Improve Air Quality at the City of West Columbia water treatment plants

- The City of West Columbia operates two water plants: one on Lake Murray and the Saluda River. West Columbia plans to phase out the use of ammonia and gas chlorine during the water treatment process at both plants. This will prevent leaks of these hazardous chemicals.
- April 2007-A new system that eliminates the use of ammonia and gas chlorine was implemented at the Lake Murray water plant. This system does not leak gas fumes and utilizes a new chemical which is similar to bleach. The project costs between \$1-1.5 million.
- Implementation of the new system at the plant on the river will be complete in 2008.

39. Tree Care Workshop

- The SC Forestry Commission, Lexington County and local municipalities are putting together a tree care workshop scheduled for January 2008. The Tree Care Workshop will cover plant selection, care and maintenance, and pruning of trees. A save the date email was forwarded to local municipalities concerning the workshop in November. Continuing efforts are being made to acquire speakers for the workshop and agenda items.

40. The Greater Columbia Fuel Cell Challenge

- The Greater Columbia Fuel Cell Challenge is a comprehensive public and private initiative with the expressed goal of making the Columbia, S.C. region the global model for the mass deployment of fuel cell applications and other alternative energy sources.
- October 2007-The South Carolina Research Authority on behalf of the University of SC Greater Columbia Fuel Cell Challenge solicited proposals from interested persons or organizations for qualifying activities that would advance the commercialization of hydrogen and fuel cell technologies within the Columbia region.
- The National Hydrogen Association announced plans to bring its annual convention to Columbia, SC in the spring of 2009.

41. Tree planting project along Airport Blvd

- December 15, 2007-Lexington County along with Keep the Midlands Beautiful, The City of Cayce, the Town of Springdale and private sponsors will be planting trees along a mile stretch of Airport Blvd (Hwy 302). There will be about 110 trees planted during this event.

42. Environmental Projects at Lexington Medical Center

- Lexington Medical Center is a 346-bed metropolitan medical complex located at Hwy 376 and Interstate 26. Between October 2006 and September 2007 Lexington Medical Center has completed the following projects: Installed 4000 fluorescent light bulbs. Recycled 217 tons of paper and cardboard. Recycled 1246 lbs of aluminum cans. Recycled 816 quarts of motor oil. Recycled 750 lbs of plastic. Replaced 2000 gallons of cleaning vehicles.

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
Central Midlands, SC (Designated - Attainment)							
DECEMBER 2007 NEWBERRY COUNTY 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.							
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
Comments: 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 - http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac.html - additional information provided by the county to include "findings", "advantages/disadvantages", "recommendations", "costs", etc.... 3. March 2004 - Local Early Action Plan - See - http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0304.asp 4. June 2004 - Progress Report - See - http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0604.asp 5. December 2004 - Progress Report - See - http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_1204.asp 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 - http://www.scdhec.gov/eqc/baq/html/eap_sip.html 7. April 20, 2005 - Correspondence to Mr. Palmer including clarifying supplemental information to the EAC SIP submittal of December 2004. - See - http://www.scdhec.gov/eqc/baq/html/eap_sip.html 8. June 2005 - Progress Report - See - http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0605.asp							

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
11 South Carolina State Measures							
Comments: Modeling for 2007, shows attainment without including measures beyond national and regional measures already finalized. 2012 and 2017 also shows attainment.							
11 Central Midlands, SC (Effective date of nonattainment designation deferred) Richland County							
Lawnmower Exchange Event - 2008	Richland and Lexington Counties and DHEC-BAQ are planning a lawnmower exchange event to be held in 2008.	A planning meeting was held on September 11, 2007. The target date for the event is the Spring of 2008.	2007		Richland and Lexington		
Cool Counties Resolution	On Tuesday December 4th, Richland County Council adopted the "Cool Counties" Resolution. As part of this resolution, the county will develop an implementation plan to reduce greenhouse emissions. This plan will be developed and implemented in 2008.						
VPSI proposes "turnkey" van pool service		VPSI has met with the executive directors of public transportation systems in Columbia and Greenville. While transportation planners and transit operators like the van pool program they are dealing with financial problems with the bus system that hopefully will be resolved soon.	Aug-07				
Columbia Bike and Pedestrian Week	Columbia, the Central Midlands Council of Governments and the Palmetto Cycling Coalition sponsored a Columbia Bike and Pedestrian Week October 8-12th.	Several nationally-recognized speakers participated in the event. Bob Chauncey of the National Center on Biking and Walking spoke to DHEC employees on Thursday, October 11th at 2 pm in the first floor conference room of the Heritage Building. A walk in the surrounding neighborhood, to discuss how walkable and bike friendly it is, followed the presentation.	October 8-12, 2007				
Electronics recycling	The drop-off location is at the facility, 2910 Colonial Drive (off of Slighs Road behind the city's First Tee Golf Center.) Items are accepted between 9:30 a.m. and 3:30 p.m. Monday, Tuesday, Thursday and Friday. No exceptions. Proof of residency is required.	The city of Columbia reminded residents they can drop off unwanted computers, monitors, TVs, VCRs, DVD players, stereo equipment, cell phones, digital cameras and other electronics at the city's Public Works facility to be recycled.	Aug-07				
Ridge View High ride-sharing program	Alyssa Richardson a 17-year-old senior at Ridge View High who attended a leadership training program at Furman over the summer developed a ride-sharing program.	The ride-sharing program was set to kick off Nov. 2.	Nov-07				
First LEED certified green building in Columbia's city center	The offices of Watson Tate Savory Architects, in the former Unity Life Building, last month received Leadership in Energy and Environmental Design, or LEED, Certification from the U.S. Green Building Council.	All of the architects who work for the firm are LEED-accredited, except one who is scheduled to take the certification exam soon.	Sep-07				
Green Building in Columbia	The green building council for the Home Builders Association of Greater Columbia will release details on a new set of green building standards they are putting into place. The standards will focus on elements such as recycling during the building process, building more energy-efficient homes and improving indoor air quality. An education blitz for builders already had started and will continue over the next six months, Bostic said, to help Columbia-area builders make the shift.	Several projects are in the works that will bring environmentally friendly living to the Columbia area including several EarthCraft homes, the Vison condominiums on Lady Street in downtown Columbia, and the Lofts at Printers Square at Lady and Pulaski streets.	Oct-07				
Local Government Partnerships/Outreach Richland County Council	Richland County Council voted to make comments regarding the proposed 8-hour Ozone standard to EPA in the form of a resolution. The resolution also encourages EPA to allow local areas the opportunity to implement early action measures in lieu of nonattainment designations which carry prescriptive requirements.	Resolution passed and submitted as comments to the proposed 8-hour Ozone Standard.	August 27, 2007		Richland		
Walk to School Day	South Carolina embraced Walk to School Day festivities.	First lady Jenny Sanford and other guests joined hundreds of children from neighborhoods in the Piney Grove Road area to walk to Leaphart Elementary School in Lexington-Richland 5 on October 3, 2007. Richland and Lexington county sheriff's deputies were alerted that more children would be walking to schools.	Oct-07				
"Safe Routes to School" grant	SCDOT approved funding to develop comprehensive bicycle and pedestrian programs as part of the "Safe Routes to School Program." Partnering with SCDOT, local governments, parents, local law enforcement and educators, each school and community will develop a plan that encompasses both infrastructure and non-infrastructure components. One of the purposes outlined in the funding legislation for this program includes facilitating the planning, development, and implementation of projects and activities that will reduce traffic congestions, fuel consumption and air pollution in the vicinity of primary and middle schools. Selected schools receive up to \$200,00.00.	Rosewood Elementary School in Richland County was awarded the "Safe Routes to School" grant for the 2007 funding cycle.	2007 funding cycle Press release September 28, 2007	*All Pollutants	Richland		
City of Columbia's 2008 Comprehensive Plan	The City of Columbia is revising/drafting a new edition of the 2008 Comprehensive Plan to be completed by November 2008.	A meeting was held on August 29, 2007 to discuss and address natural resource conservation in planning for the City of Columbia's future growth. Guidance was requested in planning for wise use and protection of water, air, soil, wildlife, habitat, biodiversity and other natural resources. Representatives from SC DHEC participated in the discussion.	8/29/2007 target completion date of November 2008		Richland and Lexington		
Energy Conservation	Conservation on Energy, a Town Hall meeting was hosted by Conoco Phillips and the USC Office of Research and Health Statistics. The panelist represented organizations active in renewable energy and energy efficiency, business, industry as well as the environment and conservation.	John Litton, Assistant Bureau Chief for Air Quality, SCDHEC was among the panelists.	July 13, 2007		Richland and Lexington		
Columbia Climate Protection Plan	Formation of the "Green Business Council" Part of the Home Builders Association of Greater Columbia	The Green Business Council will work to educate the public and constructions companies about what makes a green home green. The council will offer home builders a process by which they can certify their houses as green. See http://www.coccpac.com/?pageid=12 State and local government offices are offered as resources.	August 8, 2007		Richland		

Columbia Climate Protection Plan	The City of Columbia's Climate Protection Committee is drawing up sustainability protocol for businesses to earn "green" certification.	The committee sponsored a successful Green Business Summit that focused on waste- and emission-reducing best management practices. The Summit kicked off an application process whereby businesses follow step by step implementation of practices. Completion earns the certification decal and public listing. See http://www.coccpac.com/?pageid=12 . State and local government offices are offered as resources.	September 24, 2007		Richland		
Columbia Climate Protection Plan Monthly Meeting	The City of Columbia's Climate Protection Committee meets monthly.	At the October 2007 monthly meeting, the attention was focused on reducing transportation emissions in the Central Midlands area. The committee invited (and he has accepted) Mr. Norman Whitaker, Executive Director of the Central Midlands Council of Governments to attend the November monthly meeting. The idea is to garner information as to how this committee can play a role in assisting the Central Midlands areas' efforts to implement transportation choices that consider air quality goals.	October 2007 Monthly meeting		Richland		
Support efforts of The Climate Registry	The Climate Registry, established by states, tribes and provinces in North America as a mechanism to measure greenhouse gas (GHG) emissions consistently across industry sectors and borders. The Climate Registry encourages voluntary early actions to increase energy efficiency and decrease GHG emissions. The Climate Registry accounting infrastructure supports a wide variety of programs that reduce GHG emissions including voluntary, regulatory and market-based programs.	A meeting was held on October 4, 2007. Joel Levin provided an overview of the The Climate Registry. Mr. Levin is the California Climate Action Registry's Vice President for Business Development. He is responsible for educating participants from all economic sections and regions to register and certify their greenhouse gas emissions. Representatives from state and local governments, including Lexington County, as well as business and industry attended the discussion.	October 4, 2007		Lexington, Richland and surrounding counties		
South Carolina Department of Education - School Bus Initiative	A plug-in hybrid electric bus with a 2007 emission compliant diesel engine fueled with ultra-low sulfur diesel (soon to be ultra low sulfur 20% biodiesel) to be placed in Richland County.	Draft press release September 27, 2007 Press conference held on October 11, 2007	October 11, 2007 Dated to be placed into service	All Pollutants*	Richland		
Electric Cooperatives investing in conservation	South Carolina's electric cooperatives plan a multimillion dollar effort to conserve energy by encouraging their customers to use solar power and more efficient light bulbs, and to help reduce emissions from coal-fired power plants. The Electric Cooperatives of South Carolina Inc. on Monday held briefings around the state during which they announced they plan to invest as much as \$10 million a year in the efforts.	Two major studies were commissioned by electric cooperatives in South Carolina. The first study explored the potential in South Carolina for producing power from renewable resources. The second study researched the amount of energy that cooperatives and their members could save by using energy efficiency measures.	October 2007	All Pollutants*	Richland and Lexington as well as other counties within South Carolina		
Net Metering	Starting in October, Santee Cooper will buy excess power from customers who make electricity with solar panels and other generators.	Under the plan approved August 24th, the state-owned utility will pay or credit between 3.2 cents and 5.7 cents for every kilowatt-hour that is fed back onto its grid from the 160,000 or so homes that buy Santee Cooper power. The company currently charges about 7 cents for every kilowatt-hour of electricity.	August 2007	All Pollutants*			
Scana, Duke, Progress team up to sell green power	Scana Corp., Duke Energy Corp. and Progress Energy Inc. will start selling "green power" to their South Carolina customers early next year (2008) through a nonprofit group established by the state	The three utilities will market the renewable energy to the 1.3 million homes and businesses that they serve in the state, while the newly formed organization, dubbed Palmetto Clean Energy, or PaCE, will buy the power from small Southeastern companies that generate electricity with wind turbines, solar panels and landfill gas.	Announced in 2007, will take place in 2008	All Pollutants*			
Local Produce Tour	On Oct. 13 and 14 the first ever Upstate Farm and Garden Tour will take participants on a journey that shows them exactly how their food gets to their table.	Eight local farms are participating in the inaugural tour: Split Creek Farm and Lucky Acres Farm in Anderson County; Broken Wing Farm, Big Sky Farm and Happy Cow Creamery in Greenville County; Bio-Way Farm in Laurens County; and Clemson University Student Organic Farm and the Heirloom Vegetable Garden at the South Carolina Botanical Garden in Pickens County.	October 2007	All Pollutants*			
Hydrogen Fueling Station and Fuel Cell Bus demonstration	A hydrogen fueling station to service a fuel-cell bus that will debut in Columbia next year and a fleet of hydrogen-powered cars the following year could be under construction soon near the city's Canal Water Plant.	The fueling station needs to be running by next summer when a hybrid fuel cell-electric bus is expected to start rolling on Columbia's streets for a year.	Announced in 2007, in operation summer 2008	All Pollutants*			
Recycling at Williams-Brice Stadium	PalmettoPride and the University of South Carolina volunteers helped Gamecock fans recycle plastic bottles at Williams-Brice Stadium Saturday night, September 1st.	Volunteers were at the game at 4:30 p.m. - 2.5 hours before the 7 p.m. start. Volunteers paired off to staff recycling bins throughout the stadium, encouraging fans to recycle and make sure that only recyclables were placed in the bins.	September 2007	All Pollutants*			
SC Biodiesel Fuel Quality Symposium	The event's technical program was designed to provide participants with a basic understanding of how biodiesel is produced, fuel management, fuel quality, component compatibility, regulatory issues, and incentives.	On September 19, 2007 from 10:00 a.m. to 4:00 p.m. at the Columbia Metropolitan Convention Center, Richland Room located at 1101 Lincoln Street in Columbia, the South Carolina Biodiesel Fuel Quality Symposium took an in-depth look at the latest regulatory, environmental, and technical developments impacting the fastest-growing renewable fuel industry in South Carolina.	September 2007	All Pollutants*			
Bi-Lo to promote green grocery bags	Bi-Lo is piloting its green bag effort in about 80 of its more than 220 stores here and in Georgia and Tennessee	Bi-Lo sells two versions of the green bags: a woven recycled plastic for 99 cents and a canvas one, priced at \$2.99. Store management at the Columbia Super Bi-Lo said each time shoppers use any reusable bag, they receive a 5-cent per bag credit when they check out each shopping trip.	August 2007	All Pollutants*	Richland and Lexington as well as other counties within South Carolina		
Gervais Street Connector	The Gervais Street Connector is the smallest portion of the Three Rivers Greenway park that eventually will stretch 13 miles on both sides of the Congaree and Saluda rivers. The \$640,000, approximately two-block-long trail will cross under the spans of the Gervais Street bridge across from the State Museum and will be the linchpin of greenway parks north and south of Gervais.	Columbia, West Columbia and Cayce have completed about 7.5 miles of the Three Rivers Greenway so far. The link should be completed in about six months. The city also is gearing up to build three more sections: • CanalFront, a \$7 million section and the most "urban" of all the greenway sections. • The Esplanade, a \$4 million section that will provide a wide, formal walkway on the bluff above the Columbia Canal at the former state prison site. • The Saluda Riverwalk, a long stretch of trails fronting Riverbanks Zoo and the Mill Race Rapids on the northeast bank of the Saluda River. It also will include a bridge over the Saluda at the I-20 exit ramp at I-126, linking the Columbia section with a short section of river walk in West Columbia. The Cayce Riverwalk portion of the Three Rivers Greenway will sprout a new half-mile extension this fall. Construction began in early September on the \$324,000 section connecting the Cayce Locks with the Riverland Park subdivision. Work should be done in late September or early October.					
Balancing Growth with Environmental Integrity in Urban Development	A symposium for developers, engineers, natural resource conservationists and planners sponsored by the SC Soil and Water Conservation Society.	This symposium will teach developers and planners about the importance and benefits of developing a conservation footprint early in the planning stages for the ultimate goal of protecting environmental quality.	December 11, 2007				
Earlwood Baptist Church Car Care Day	Earlwood Baptist Church sponsored a Car Care Event on November 17, 2007. Flyers handed out at the event promoted "Save Money. Save Fuel, and reduce global warming emissions from your car".		November 17, 2007				

Bull Street Partners Carpool Group	Bull Street Partners Carpool Group provides employees of the Bull Street area offices of three State agencies (Department of Health and Environmental Control, Department of Mental Health and Department of Social Services) an opportunity to form carpools, thereby saving money and fuel, reducing pollution and reducing the stress of commuting.	The SCDHEC - Bureau of Air Quality sent an electronic mail message to contacts in the three state agencies located at the corner of Bull and Harden Streets. The e-mail encourages people interested in regular carpooling, occasional carpooling, or people who are willing to provide a ride home to sign up. The emails have very gone out to two of the three agencies, the third agency email will be sent out shortly. Seven people have signed up to date, and feedback from the agencies about the program has been very positive. "Goody Bags" of air quality promotional materials are being provided to people from DHEC's sister agencies who sign up.	Began late summer 2007, and is on-going	All Pollutants*	Richland and Lexington as well as other counties within South Carolina		
"Return the Warmth" program	The program, sponsored by Keep America Beautiful, encouraged schools to recycle No. 1 plastics, the type commonly used for soda bottles. The program was coordinated locally by Keep the Midlands Beautiful. Paper Stock Dealers/Sonoco - the recycling center that serves the three school districts - collected and counted the bottles. Aquafina and Sam's Club provided the jackets.	Students from Richland 2, Lexington 2, and Lexington-Richland 5 collected more than 100,000 plastic bottles, ranking the area among the top 50 communities in the country taking part in the drive. Schools from those communities received an allotment of child-sized fleece jackets - made of the same type of plastic - to be distributed to needy residents in their areas.	Dec-06				
Reusing "Brownfields" for Commuter Rail	A regional government group is looking at ways to redevelop about 50 abandoned industrial sites in the Midlands as future commuter rail stations.	The Central Midlands Council of Governments has identified 22 possible rail station sites that could serve three future commuter rail and high-speed transit lines: Columbia to Newberry, Columbia to Camden and Columbia to Batesburg-Leesville. While building such a system is still at least two decades away, council officials say reusing "brownfields" - abandoned, idle or underused industrial and commercial facilities that might be contaminated but can be cleaned up - could bring costs down.	2007				
Transportation Survey	The Central Midlands Council of Governments (CMCOG) is sponsoring the Midlands Tomorrow Travel Survey, which will capture information specific to participants' travel behavior and their opinions concerning the region's transportation network. The travel information gathered from this survey will be used to update the regional travel model that is used for transportation planning, traffic forecasting, project evaluation, and multimodal analysis.	Surveys were conducted by telephone beginning February 13, 2007 and continued through the end of March 2007.	February and March, 2007				
Congaree, Wateree and Santee Basin Initiative task force	DNR created the Congaree, Wateree and Santee Basin Initiative task force that targets 215,000 acres of land in the Midlands to be preserved from development. The task force is not anti-development, but it wants to direct growth in these areas away from prime natural property. The land is mostly in Richland and Sumter counties, but includes smaller parcels in Kershaw, Lexington and Calhoun counties.	So far, 16 landowners in the target area have committed almost 15,000 acres to conservation easements in exchange for tax breaks and other financial incentives.	Created in 2006				
Hard Scramble "green" home building and environmental education	The 853 acre Hard Scramble tract on the Wateree River in Camden was donated to Clemson University last year and could become an international model for "green" home building and environmental education. Benefactor Margaret Lloyd donated the more than 850 acres near Camden and \$2 million last year to Clemson University for an environmental education center. The center and the housing development will be used to educate the public about the human connection to the natural world. The center also will be used for research, and the green homes will help builders learn about green building.	A planned 150-home community on the site could become the first green home neighborhood in the Midlands and one of the first in the nation certified by the U.S. Green Building Council. Clemson University plans to build the environmentally friendly community - a mix of town homes, cottages and manors ranging in price from \$175,000 to \$400,000 - on 100 acres off Springdale Drive, a portion of the sprawling plot that is loaded with natural wonders Lloyd longs to share with the public. Clemson plans to build 150 "green" homes on 100 acres of the property to help pay the cost of building the center. Clemson has applied to have the homes accepted into the LEED for Homes pilot project. The U.S. Green Building Council will use that project to help fine-tune guidelines for green building.	Donated in 2006				
Electronics Recycling	Intel Corporation and Best Buy sponsored an electronics recycling event. Computers, monitors, printers, scanners, keyboards, mice, VCRs, terminals, cables, fax machines, radios, modems, telephones, TVs, copiers, typewriters, stereo equipment and cell phones were accepted for recycling.	This event was held Saturday, April 14 from 9:00 a.m. to 4:00 p.m. at Colonial Center parking lot (corner of Lincoln and Blossom streets) for Midlands area residents.	14-Apr-07				
Car Care Event for women	Suddeth Automotive offered Women's Car Care Seminars at 1410 Millwood Avenue Saturday April 28, 2007.	Two sessions are available, from 9:30-11:30 a.m. and 1:30-3:30 p.m. Participants learned car essentials, including maintenance. Certified technicians were on hand to answer questions. Participants received an automotive goodie bag and were eligible for door prizes, including a \$50 gas card. Admission was free, but advanced registration was required.	28-Apr-07				
Regional roundtable discussion on the impacts of residential growth on SC communities	The Strom Thurmond Institute at Clemson University invited a number of participants from local government to attend the third in a series of regional roundtable discussions on the impacts of residential growth on SC communities, focusing especially on fiscal, economic and quality of life impacts.	The roundtable was held on April 12, 2007. Information from the sessions are taped and will be used to produce a citizen's guide on the growth issue, how it impacts communities and what citizens can do. There will also be a technical report with policy recommendations that suggest how our state and local governments can best channel growth into forms and areas that are fiscally responsible and that maximize our quality of life.	12-Apr-07				Richland and Lexington
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 2007. 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.	Held April 21, 2007. Approximately 150 gas lawn mowers were turned in during the day	2007				Richland and Lexington
Cities of Lexington and Columbia - Tree City USA	Tree City USA encourages municipalities and areas to have strong urban forestry programs. The Tree City USA program is sponsored by The National Arbor Day Foundation in cooperation with the USDA Forest Service and the National Association of State Foresters.	The City of Lexington has been a Tree City for 18 years. The City of Columbia has been a Tree City for 27 years.	through 2007				Richland and Lexington
USC Recruits Fuel Cell Researcher	The University of South Carolina has recruited a leading researcher to head a team at USC to develop a fuel cell that could power an entire city.	Kenneth Reifsnider, director of the Global Fuel Cell Center at the University of Connecticut, will become director of USC's Solid Oxide Fuel Program and professor of Mechanical Engineering and Educational Foundation University Professor this summer.	2006				Richland
USC biomass plant	USC is installing a biomass plant.	The biomass plant will supply 1,300 kilowatts of energy for all 85 buildings currently using steam.	2006				Richland
Create a regional partnership to deal with air quality issues	Following a meeting with Myra Reece, Bureau Chief for SCDHEC's Bureau of Air Quality, on October 5, 2006, the Richland County Administrator began dialogue with the Lexington County Administrator to gauge Lexington County's interest in undertaking a regional approach to air quality issues, coordinated by the Central Midlands Council of Governments. Lexington County has expressed interest in a regional approach. A letter will be drafted to the COG in early 2007, and signed by the administrators of both counties.	While this measure is currently in the earliest stage, this represents a significant step forward in bringing both counties together in an effort to solve a regional issue on a regional level.	October 5, 2006, letter to be drafted early 2007				

Participation in Early Action Compact Summit	Richland County was the location for SCDHEC's first ever statewide Early Action Compact Summit on August 16 and 17, 2006. The conference was attended by over 200 participants. A number of information sessions were held on topics such as alternative fuels, education and outreach, and land use. A number of vendors were also on hand to promote energy saving and pollution-reducing technologies.	A number of county staff attended the summit, including the Research Manager/EAC Contact, Joe Cronin; Grants Manager, Audrey Schiflett; Fleet Manager, Bill Peters; and Planning Manager, Michael Criss. Many local leaders, such as the Mayor of Blythewood, Pete Amoth, were also in attendance.	August 16 and 17, 2006					
SCE&G SO2 Wet Scrubber for Wateree Station	SCE&G, Fossil-Hydro Generation, has initiated an Engineer/Procure/Construct (EPC) contract with Fluor Corporation to place into operation a single tower SO2 wet scrubber for Wateree Station. The current plan has both units at Wateree discharging the flue gases into a single wet SO2 scrubber tower. While SCE&G has not yet finalized the equipment supplier, they anticipate a wet SO2 scrubber optimal removal efficiency to be 92-98%. Based on 2005 SO2 emissions, and factoring in maintenance and operating conditions, a removal rate of approximately 40,000 Tons annually may be achievable. Until the final supplier is selected and actual performance information is measured on the completed project will we have confidence in the actual removal rate. Also, with the installation of the wet SO2 scrubber, a side benefit may be a reduction of mercury emissions; however, this possible reduction won't be determined until project completion and final testing.	Currently, this project is tentatively scheduled to start in 2007 and should be completed by early 2010.	To begin in 2007					
Free Showing of Kilowatt Ours: A Plan to Re-Energize America at USC	A free Showing of Kilowatt Ours: A Plan to Re-Energize America was held at USC on September 13, 2006. Director Jeff Barrie was on hand to lead a discussion after the showing on topics such as mountaintop removal mining, air pollution, global warming, childhood asthma, and mercury contamination.	Completed	September 13, 2006					
Columbia announced as one of four locations for hybrid bus demonstrations	Columbia was announced as one of four cities where a 37-passenger hybrid bus will be demonstrated. The local initiative was brought about by a partnership between USC, the S.C. Research Authority, and the Central Midlands Regional Transit Authority.	It is expected that the hybrid bus will be in operation by the time Columbia hosts the National Hydrogen Association's annual meeting in Spring 2009.	Operational by 2009					
City of Columbia signs Mayor's Climate Protection Agreement	On October 10, 2006, Mayor Bob Coble and the Columbia City Council signed the Mayor's Climate Protection Agreement, joining nearly 300 other cities nationwide who have also signed onto the agreement. By signing the agreement, the city has agreed to undertake methods designed to cut greenhouse emissions such as carbon dioxide and methane by 7 percent by the year 2012. Because of its pledge to reduce global warming and pollution, the South Carolina Chapter of the Sierra Club designated Columbia as a "Cool City."	Completed	October 10, 2006					
City of Columbia unveils eWaste Program	The City of Columbia has announced that beginning December 1, 2006, residents can turn in any electronic device, including unwanted radios, computers, televisions, appliances (except refrigerators), consumer electronics, etc. at a local drop off facility on Colonial Drive for recycling. All electronic devices will then be taken to an Aiken-based company, Global Recovery, to recycle.	Completed	December 1, 2006					
City of Columbia votes to protect two acres of trees	On October 18, 2006, the City of Columbia approved a plan that would allow Dreher High School to build new athletic facilities on a parcel of land near Owens Field Airport. Residents feared that two acres of trees would be lost under the school district's preferred option, however the city approved an option that would reconfigure an existing skateboard park in order to preserve the existing trees.	Completed	October 18, 2006					
City of Columbia initiates Climate Protection Action Committee	As an extension of its commitment to improving air quality, the City of Columbia initiated a Climate Protection Action Committee, commonly referred to as a "green committee." The committee is made up of a citizen's committee, comprised of council appointees, as well as an advisory committee, consisting of local air quality professionals, city staff, Richland and Lexington County EAC contacts, and DHEC representatives. The committee will be divided into several subcommittees, to study topics such as education and outreach, energy conservation, alternative fuels, and land use planning.	The committee will issue recommendations to City Council on ways that the city can reduce air and other types of pollution in early 2007 from the city's 56 buildings and fleet of 100 vehicles. The CPAC will also plan a community-wide summit, scheduled to take place in May 2007. The first CPAC meeting took place on November 30, 2006.	November 30, 2006					
Greater Columbia Fuel Cell Challenge	Six awards, totaling over \$150,000, were given to local organizations to spark the use of fuel cells in the Columbia area during the annual meeting of EngenuitySC. Awards included: • Segway Personal Transport Units for the University of South Carolina • A backup power system at Benedict College • A citizen's school for hydrogen and fuel cell technology • A hands-on exhibit at EdVenture Children's Museum • Portable batteries for television cameras at SC ETV • A first responders extended power pack for law enforcement and emergency officials The fuel cell challenge was project of the USC Columbia Fuel Cell Collaborative, which includes EngenuitySC, the University of South Carolina, the City of Columbia, and the S.C. Research Authority.	To be awarded	2006-2007					

Melting Pot of Columbia unveils fondue-powered vehicle	Jay Kilmartin, owner of a Columbia Restaurant, the Melting Pot, recently purchased and converted an old ambulance to run on used canola oil from the restaurant. The owner purchased the ambulance on eBay.com and converted it from diesel powered to vegetable oil powered. The vehicle now runs on used oils from fondue. The vehicle is painted in the restaurant's color scheme and features The Melting Pot logo and tagline on each side. The owners have been featured locally, as well as on national news and talk shows, such as the Glenn Beck Show. The ambulance has drawn attention to the use of alternative fuels both in the Columbia area, and around the U.S.	Completed	2006				
Emergency Funding for CMRTA System	In early 2006, Richland County Council was informed by the Central Midlands Transportation Authority that their transitional funding would run out at the end of the year, and if funding was not obtained by that time, service would be cut by up to 85% in Richland and Lexington Counties. The CMRTA provides a critical service in the Midlands, having provided approximately 2.6 million trips in FY 05-06.	After weighing several options, Richland County passed an ordinance in October to increase its road maintenance fees by 16 dollars for personal vehicles, and 24 dollars for commercial vehicles. The revenues from these fees, approximately \$7.5 million, will allow the bus system to maintain its current level of service until a permanent funding source is found.	October, 2006				
Richland County Transportation Study Commission	As part of its temporary funding solution to the CMRTA crisis, Richland County Council established a Transportation Study Commission to study public transit, road improvements, and walking and bicycle trails. The commission will study transportation issues that are regional in nature. As a result, members will be made up of appointments from Richland and Lexington County Councils, the City Councils in Columbia, Cayce, and West Columbia.	The 33 member commission is expected to release a final report in Spring 2008, as well as a recommendation for funding high-priority transportation projects.	2006-2008				
Automated vehicle location and tracking system	Richland County recently unveiled an Automated Vehicle Location system, which was highlighted in a recent article in the State newspaper. The system, resulting from a collaboration between the Fleet Manager, IT and GIS staff, will allow the county to track and monitor vehicles in the county fleet at any point in time. The system has safety, management, and air quality applications. Specifically, staff can track and monitor data obtained electronically to see if drivers are using the most economical routes on routine projects, thus reducing fuel costs and emissions from county vehicles.	Completed	2006				
Promotion of Arbor Day and related activities	Richland County Council declared November 25th through December 5th Arbor Day Week. Richland County Government staff and officials partnered with the Richland County Public Library, St. Martin de Pores school, the Governor's Office, the City of Columbia, State Forestry Commission, and the Congaree National Park to organize a variety of events. It has been a highly successful week, including a tree planting in honor of Richland County's 1st ever Arbor Day Baby. Organizations comprising the Midlands Arbor Day Committee were Richland County, City of Columbia, SC Budget and Control Board, Columbia Tree and Appearance Commission, Richland County Appearance Commission, Richland County Conservation Commission, Richland County Conservation District, Forestry Commission, USDA-Natural Resource Conservation Service, Congaree Land Trust, and the City of Forest Acres Appearance Commission.	The Midlands Arbor Day Committee hosted several events throughout the week of Saturday, November 25-December 5, 2006 in celebration of Arbor Day, which is Friday, December 1, 2006.	November and December 2006				
Lawnmower exchange survey and planning	As part of our planned lawnmower exchange (scheduled to take place in spring 2007), Richland County, Lexington County, and DHEC jointly crafted and distributed a lawnmower survey in October 2006. The survey went out to employees at each entity, neighborhood leaders, community organizations, and a link was posted on the Richland County website. The survey generated nearly 200 responses. These responses provide the necessary "market research" that will ensure that the event maximizes its success.	Completed	October 2006				
Ozone Action Days	The county received information from SCDHEC forecasting two Ozone Action Days in the summer of 2006 (June 22 and August 2, 2006.) Prior to each day, county staff send out emails to all county employees with the following message (a sample from the June 21 message):The following information was received from the SC Department of Health and Environmental Control: Air Quality Index for Thursday, June 22 ORANGE (104 AQI) - Unhealthy for Sensitive Groups Active children and adults, and people with respiratory disease, such as asthma, should limit prolonged outdoor exertion. **OZONE ACTION DAY for Midlands, Upstate and CSRA for Thursday** Monitor readings across the Upstate, Midlands and CSRA on Wednesday afternoon were indicating that very efficient ozone production conditions are currently place. With the overall weather pattern changing very little for Thursday, that is, with high pressure over the area at the surface and aloft, ground-level ozone production should once again be very efficient with the possibility that a monitor or two in the Upstate, Midlands and CSRA could peak in the code ORANGE category. There are many things you can do to limit air pollution on ozone action days. For additional information concerning the air quality forecast, please visit	Completed	Ozone Season 2006				

Northeast Richland Traffic and Road Improvement Meeting	On December 6, 2006, Councilwomen Val Hutchinson and Joyce Dickerson held an informational meeting with residents and leaders from the rapidly growing Northeast area of Richland County. The meeting included a presentation by Norm Whitaker, head of the Central Midlands Council of Governments, regarding the transportation priorities and funding mechanisms for roads in the Northeast. Mr. Whitaker explained the correlation between congestion, growth, and air quality in the Northeast, and informed attendees that that ozone monitor located at Sandhill has the potential to draw the entire two-county region into non-compliance. The committee resolved to meet on a quarterly basis in an effort to centralize the often fractured discussion of transportation needs on this rapidly growing area of the county. Councilwomen Dickerson and Hutchinson also received suggestions from the group as to how Council can better plan for transportation needs in the Northeast, including accelerating an update of the county's comprehensive plan, as well as a comprehensive countywide transportation plan.	Completed	December 6, 2006					
City of Forest Acres Considering Switching to Biodiesel	In September 2006, Forest Acres city administrator, Mark Williams, informed members of city council that he was interested in using B20 biodiesel as an alternative to diesel in the city's fleet of vehicles. The switch is expected to cost approximately \$13,000 initially, however, this would provide the city with a cleaner, renewable, and domestically produced fuel alternative. The city has eighteen vehicles, including trash loaders and recycling trucks.	Under Consideration. If Forest Acres makes the switch, it would join the city of Columbia (which is experimenting with biodiesel in two trucks, with the possibility of expanding that to about 300 diesel vehicles) and the city of Cayce, which is using biodiesel in 30 vehicles without substantial cost or maintenance issues.	2006					
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				
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

DECEMBER 2007 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.							
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 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: http://www.rcgov.us/information/town/LandDevelopmentCode110904.pdf
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. Flexible and Alternative Fuel Vehicles 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						See Comment #2 and #8
			Completed, with continuing replacements	NA	NA		
			Completed in 2004	NA	NA		
			Completed, with continuing research. Attended Clean Cities meetings, Biofuels showcase, and FuelCell South Hydrogen Conference.	NA	NA		

	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	2004 (Unfunded)	Unfunded	NA	NA		
	b. Diesel Retrofit Grant Application	2004 (Unfunded)	Unfunded	NA	NA		
	c. E85 Fueling Infrastructure Grant Application	2005 (Unfunded)	Unfunded	NA	NA		
	Hybrid Vehicles						
	1. Staff has researched the practicality of replacing traditional fleet vehicles with hybrid vehicles.		Completed	NA	NA		
	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 vehicles.	Purchases expected in FY 2005-06. In 2007, the county added to its hybrid fleet when it took possession of a 2008 Ford Escape Hybrid.	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	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 sectors.	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 the Center.	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. With the assistance of the coalition, there are now six service stations that offer E85 to the public in Richland County.	July 22, 2003	NA	NA		See Comment #2 and #6
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: http://www.rchlandonline.com/information/town/LandDevelopmentCode110904.pdf 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: http://www.amlegal.com/richlandco%5Fsc/
Columbia Recycling Program	The City of Columbia provides curbside recycling to approximately 29,000 residential and small commercial locations. Items currently accepted include, NEWSPAPERS, ALUMINUM CANS, STEEL CANS, PETE #1 AND HDPE #2 PLASTICS, MAGAZINES, CLEAR, BROWN, AND GREEN GLASS. The city also has a drop off location for recyclables, located behind DHEC at 2600 Bull Street. This drop off center accepts the same items as our curbside program. A commercial recycling program, which collects recyclables in bulk from businesses in the city limits, has also been implemented. This program also includes an office paper collection program. The city has also initiated an electronics recycling program for computers and other electronic equipment.	Service is provided to 29,000 residents, with an 85% participation rate.	Completed, with ongoing program maintenance.				
Regional Air Quality Initiative	On Wednesday, April 4, 2007, the County Administrators from Richland and Lexington Counties met with staff from the Central Midlands Council of Governments and DHEC for the purpose of discussing the structure of a possible regional air quality group. The stakeholders agreed that air quality is an important regional issue, and agreed to work together on a regional level when dealing with air quality issues. The first step of this process is to bring key leaders together. To achieve this, the CMCOG scheduled a meeting for county and municipal leaders from across the seven-county region of the Central Midlands to begin formulating an action plan for improving air quality and ensuring attainment with current and future national ambient air quality standards (NAAQS). The meeting will take place on Wednesday, June 27, 2007, from 12:00 – 2:00 PM at the CMCOG Conference Room, 236 Stoneridge Drive, in Columbia.	A preliminary meeting was held on April 4, 2007. A regional meeting of key leaders will be held on June 27, 2007.	The creation of a possible regional air quality group will be discussed by county and municipal leaders on June 27, 2007. Specific implementation will be determined after this meeting.				

Chamber of Commerce IntraRegional Visit	The Greater Columbia Chamber of Commerce hosted an IntraRegional visit for business leaders in Richland and Lexington Counties on June 5, 2007. The focus of the meeting was on the eight issues identified by a chamber committee as "Good to Great" issues, or issues that will propel the greater Columbia area from a good community to a great community. Attendees to the five-hour visit received updates from chamber subcommittees on the status of initiatives such as the greenways program and transportation. Business leaders were also informed of the region's air quality attainment status, as well as the consequences of non-attainment. One portion of the event gave participants the opportunity to participate in break out sessions for one of the eight good to great issues. Myra Reece, Bureau Chief at the DHEC Bureau of Air Quality, participated in the air quality break out session, which provided recommendations to the group as a whole.	The visit occurred on June 5, 2007.	June 5, 2007				
Commuter Rail Study	The CMCOG recently completed a planning study to CMCOG recently completed a planning study to reassess the feasibility of commuter rail and other high-capacity transit modes in the Central Midlands region. The latest study was commissioned to take a more detailed look at three corridors – Newberry, Camden & Batesburg- Leesville to Columbia - that had been identified in a previous 2000 study and to develop an Action Plan and strategies to prepare the region for future. The plan was adopted by the CMCOG Board in the Summer of 2006. Its findings were also endorsed by the City of Columbia by resolution on June 6, 2007.	The study has been approved by the CMCOG Board, and endorsed by the City of Columbia.	The study was approved in 2006. Implementation is currently pending identification of funding sources.				
CMCOG to Hold Open Space Workshops	The Central Midlands Council of Governments (CMCOG) is currently working on developing a regional plan for preserving open space. Open space can be defined as follows: An undeveloped piece of land adding ecological, scenic or recreational value to an area. Examples include forests, marshes and wildlife sanctuaries. Open spaces can also include: agriculture, retention/ detention areas and floodways and floodplains. Open space may be publicly or privately owned and maintained. The goal of such a plan is to create a network of protected lands within the region that will be a legacy for future generations. Given the rapid pace of development within the region, particularly in Lexington and Richland Counties, the time is now to identify places needing protection. To that end, CMCOG will hold four public workshops on open space planning over the next month, with one workshop in each of the CMCOG's four counties (Lexington, Richland, Fairfield and Newberry): • Tuesday, June 19th – CMCOG, 236 Stoneridge Drive, Columbia, 11:30am-1:00pm and 5:00pm-7:00pm • Wednesday, June 27th – Lexington Town Hall, 111 Maiden Lane, Lexington • Wednesday, July 11th – Winnsboro Town Clock Building (first floor meeting room) • Thursday, July 12th – Newberry City Hall, 1330 College Street, Newberry. The purpose of these workshops is two-fold: 1) to provide background on open space and 2) to gather input from the public. The format of these workshops will be an informal, drop-in basis, with a series of presentations and a Q&A session. These workshops follow the online open space survey that was done over a two-month period.	Workshops will take place regionally from June 19th through July 12th 2007.	Ongoing				
CMCOG Bike and Pedestrian Listserv	The Walk/Bike Listserv is a forum through which to communicate bicycle and pedestrian information and initiatives in the Central Midlands region of South Carolina (Richland, Lexington, Fairfield, and Newberry Counties). It is intended to make communities aware of projects that may be going on in their neighborhoods and in the region as a whole, and how citizens can help create active community environments where they live. Below are some of the uses that will be served through the listserv. • Notification of public hearings on bike / pedestrian related issues; • Local bike / pedestrian related ordinances and resolutions existing or passed by local jurisdictions; • Local road / trail projects going on in communities and their status • Awareness of bike / pedestrian events As a two-way forum, the list can also be used for on-line discussion of topics of interest to cyclists and pedestrians in the central midlands region.	Implemented.	Completed.				
EPA Grant Funding Workshop	SCDHEC's Bureau of Air Quality and the Georgia Environmental Protection Division sponsored a grant funding workshop in conjunction with the EPA Region 4 Office. wonderful opportunity in cooperation with staff from the U.S. Environmental Protection Agency's (EPA) Region 4 Office. The purpose of the workshop was to provide information that may help local entities to improve their proposals when applying for federal grants. A workshop was held in Columbia on January 17 from 1:00 to 4:00 pm at the Eau Claire print Facility. The agenda for the workshop included the following: -how to find EPA grant funding opportunities -how to prepare a strong project proposal -how to submit your proposal -how EPA selects projects -what happens after a project is selected. The workshop was open to all interested parties, including state, local and tribal governments, universities and nonprofit organizations.	The meeting took place on January 17, 2007.	Completed on January 17, 2007				
SC Summit on Energy Efficiency	Richland County was host South Carolina Summit on Energy Efficiency on Monday, April 30, 2007. The event took place from 9:00 am to 4:30 pm at the Columbia Metropolitan Convention Center in downtown Columbia. The summit was a one-day conference to learn about and discuss the opportunities for economic energy efficiency in South Carolina, share information on the key challenges to increased energy efficiency and consumer awareness in the state, discuss the options for addressing these challenges, and more.	The meeting took place on April 30, 2007.	Completed on April 30, 2007				

DHEC Presentation to County Council	On April 24, 2007, Myra Reece of SCDHEC Bureau of Air Quality made a presentation to the Richland County Development and Services Committee regarding air quality issues in the Columbia area. Ms. Reece informed members of council about the county's current attainment status for ozone and particulate matter, and illustrated air quality trends in the region and throughout the state. Ms. Reece also advised members of council of the potential penalties of non-attainment in the Columbia area for both ozone and particulate matter.	The meeting took place on April 24, 2007.	Completed on April 24, 2007				
Global Warming Café	The Global Warming Café is workshop designed to empower individuals to become part of the global warming solution. Participants engaged in a heartfelt conversation about global warming and were invited to take personal action to reduce their carbon footprints through the carbon-reduction tools and strategies embodied in the Low Carbon Diet: A 30 Day Program to Lose 5000 Pounds.* The Café, sponsored and hosted by the Cool Cities Committee of the John Bachman Group of the Sierra Club, took place on Saturday, April 14 in Downtown Columbia and was free. The Global Warming Café is part of the National Day of Climate Action sponsored by Step it Up 2007 and a broad coalition of environmental organizations including the national Sierra Club. *The Low Carbon Diet: A 30 Day Program to Lose 5000 Pounds is a program created by the Empowerment Institute of Woodstock, NY. All participants in the Global Warming Café are encouraged to familiarize themselves about this program prior to the Café by going to: http://www.empowermentinstitute.net/lcd/index.html	The event took place on April 14, 2007.	Completed on April 14, 2007				
Irmo PM 2.5 Stakeholder Group	Richland County is an active stakeholder in the recently created Irmo PM 2.5 Stakeholder Group. A representative from the county has attended each of the two meetings held to date (March 28, 2007 and May 23, 2007.) The county also made a presentation to the group during the May 23rd meeting. The purpose of the group is to bring together state (DHEC) and local (Richland County, Lexington County, Town of Irmo) entities, along with surrounding businesses (Shaw, SCANA, CSX, etc) and other interests (Central Midlands COG, Leaphart Elementary School, Irmo-Chapin Recreation Commission, etc.) in an effort to improve air quality (particularly PM 2.5 readings) in the northwest part of Richland County.	The stakeholder group has been established and meetings were held in March and May 2007.	Creation - Completed, however, meetings are ongoing.				
Mow Down Pollution: 2007 Richland-Lexington Lawn Mower Exchange	Richland and Lexington Counties jointly hosted, in conjunction with DHEC and Keep the Midlands Beautiful, South Carolina's first ever lawn mower exchange on April 21, 2007 at the South Carolina State Museum. The event received extensive press coverage on WACH Fox, WLTX, WISTV, the State Newspaper, Richland Revealed, and several other media outlets. During the event, over 150 mowers were turned in in exchange for a deep discount on the purchase of an electric mower from Neuton. The response to the event was overwhelming, and the parties have begun talks to hold a second event in 2008.	150 mowers were turned in during the event.	Completed. Future exchanges are currently being planned.				
Columbia Climate Protection Plan	The City of Columbia's Climate Protection Committee has met monthly since its inception in late 2006. The committee's work culminated in a climate protection action plan that was adopted unanimously by city council on May 16, 2007.	The plan was adopted by council on May 16, 2007.	Plan - adopted. Implementation is ongoing.				
Continued funding for CMRTA	Richland County Council passed its FY 08 budget on June 5, 2007. Included in the budget is a continuation of a \$16-24 increase in the road maintenance fee for temporary funding for the CMRTA. The county will provide nearly \$3.2 million in interim funding to the CMRTA in FY 2008. Without funding from the county, CMRTA has threatened to cut service by up to 85%.	Approved by council on June 5, 2007.	Approved on June 5, 2007.				
Richland County Transportation Study Commission	Richland County has appointed a 39-member commission to complete a multi-modal long-range transportation plan for the county. The commission is divided into four committees: Executive Steering, Roads, Transit, and Greenways/ Pedestrian. To date, the commission has developed a scope of services, selected a consultant (Parsons Brinckerhoff), and held five public meetings throughout the county.	Public Meetings: Kickoff - April 11, 2007, 80 citizens attended. Lower Richland - May 29, 85 citizens attended. Northeast Richland - May 31, 100+ citizens attended. Northwest Richland - June 4, 40 citizens attended. Downtown - June 7, 120+ citizens attended.	Created in 2006-07. The study is ongoing, with recommendations due to council in May 2008.				See the written report for the commission's scope.
Richland County Energy Audit	Richland County Council will engage an energy auditing firm to perform an energy audit of county buildings and facilities. The consultant will recommend upgrades and retrofits to county facilities in order to maximize energy efficiency. The cost of the upgrades will be financed by the energy savings.	A vendor has been selected. The Procurement Department is currently in negotiations with the vendor, and a final contract will be brought back to council for approval in early 2008.	Early 2008				
Conservation Easements	Each year, Richland County Council appropriates .5 mill to the Conservation Commission for the purpose of promoting conservation in Richland County. The Conservation Commission and Council use a portion of these funds to secure conservation easements for property in Richland County. These easements ensure the protection of perpetual greenspace for property owners that participate in the conservation easement program.	In the first half of the current fiscal year, the county has used these funds to secure conservation easements for nearly 200 acres of property in the fast-growing northeast and northwest regions of the county.	FY 2007-08				
Richland County Electronic Recycling Program	The Richland County Solid Waste Department held a recycling event on Saturday, November 17, 2007 at the Clemson University Extension on Clemson Road in northeastern Richland County.	Over 36,000 lbs of computers and mixed electronics and 10, 000 lbs of tires were recycled as part of the America Recycles Day event. Over 3,000 residents took part in the carnival-like festivities.	November 17, 2007				
Midlands Regional Air Quality Forum	Richland and Lexington Counties have worked with the Central Midlands Council of Governments to bring together counties, municipalities, state agencies and other stakeholders in the region to discuss air quality issues at the regional level.	To date, two forums have been held: June 27, 2007 and November 28, 2007. Each forum was attended by approximately 50 individuals. A regional forum for county and municipal elected officials is scheduled to take place in January 2008.	2007-2008				
Chamber of Commerce Good to Great Task Force	Richland and Lexington Counties participated in the Chamber of Commerce's Environmental Task Force meeting on September 19, 2007. The task force is one of eight chamber groups that are studying ways to improve quality of life in the Columbia area.	The topics discussed included: • CPAC Climate Conference (Hon. Anne Sinclair, City of Columbia) • Update on recent activities including EPA proposed Ozone Changes • County Environmental Updates (Joe Cronin, Richland County / Synithia Williams – Lexington County) • CPAC Green Business Initiative (Jane Hiller) • Gills Creek Watershed Improvement (Elliott Powell)	September 19, 2007				
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.	Ongoing	Effective - October 8, 2004	NA	NA		See comment #6

	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 10-4.) 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						
Comments: 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 - http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac.html - additional information provided by the county to include "findings," "advantages/disadvantages," "recommendations," "costs," etc.... 3. March 2004 - Local Early Action Plan - See - http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0304.asp 4. June 2004 - Progress Report - See - http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0604.asp 5. December 2004 - Progress Report - See - http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_1204.asp 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 - http://www.scdhec.gov/eqc/baq/html/eap_sip.html 7. April 20, 2005 - Correspondence to Mr. Palmer including clarifying supplemental information to the EAC SIP submittal of December 2004. - See - http://www.scdhec.gov/eqc/baq/html/eap_sip.html 8. June 2005 - Progress Report - See - http://www.scdhec.gov/eqc/baq/html/eap_dpr_eac_0605.asp							

Richland County, South Carolina

Local Early Action Compact Measures

December 2007

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
County Administrator	Milton Pope	(803) 576-2058	popem@rcgov.us
EAC contact	Joe Cronin	(803) 576-2066	croninj@rcgov.us

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.

Note: New items are printed in RED and may be found on pages 68-76.

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.
- 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.

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.

The county has expressed interest in working with DHEC and neighboring counties/municipalities to develop strategies to engage local industries in air quality issues.

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 county vehicles 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.

In 2007, the county added to its hybrid fleet when it took possession of a 2008 Ford Escape Hybrid.

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 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, 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:

a. 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.

b. 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.

c. 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.

d. 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:

1. **The Southern Environmental Law Center**, which published a “Clean Air Report for the Columbia Area” on June 6, 2005.
2. **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.

a. Flex Scheduling

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.

- a. 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.
- b. 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.
- c. The City of Columbia has proceeded and is currently considering proposals for an energy conservation contractor.

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,” Implement a program to

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.

a. 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.

b. 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.

a. 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.

10. Create a regional partnership to deal with air quality issues

Following a meeting with Myra Reece, Bureau Chief for SCDHEC's Bureau of Air Quality, on October 5, 2006, the Richland County Administrator began dialogue with the Lexington County Administrator to gauge Lexington County's interest in undertaking a regional approach to air quality issues, coordinated by the Central Midlands Council of Governments. Lexington County has expressed interest in a regional approach. A letter will be drafted to the COG in early 2007, and signed by the administrators of both counties.

While this measure is currently in the earliest stage, this represents a significant step forward in bringing both counties together in an effort to solve a regional issue on a regional level.

11. Participation in Early Action Compact Summit

Richland County was the location for SCDHEC's first ever statewide Early Action Compact Summit on August 16 and 17, 2006. The conference was attended by over 200 participants. A number of information sessions were held on topics such as alternative fuels, education and outreach, and land use. A number of vendors were also on hand to promote energy saving and pollution-reducing technologies.

A number of county staff attended the summit, including the Research Manager/EAC Contact, Joe Cronin; Grants Manager, Audrey Schifflett; Fleet Manager, Bill Peters; and Planning Manager, Michael Criss. Many local leaders, such as the Mayor of Blythewood, Pete Amoth, were also in attendance.

12. SCE&G SO2 Wet Scrubber for Wateree Station

SCE&G, Fossil-Hydro Generation, has initiated an Engineer/Procure/Construct (EPC) contract with Fluor Corporation to place into operation a single tower SO2 wet scrubber for Wateree Station. The current plan has both units at Wateree discharging the flue gases into a single wet SO2 scrubber tower. While SCE&G has not yet finalized the equipment supplier, they anticipate a wet SO2 scrubber optimal removal efficiency to be 92-98%.

Based on 2005 SO2 emissions, and factoring in maintenance and operating conditions, a removal rate of approximately 40,000 Tons annually may be achievable. Until the final supplier is selected and actual performance information is measured on the completed project will we have confidence in the actual removal rate.

Also, with the installation of the wet SO2 scrubber, a side benefit may be a reduction of mercury emissions; however, this possible reduction won't be determined until project completion and final testing.

Currently, this project is tentatively scheduled to start in 2007 and should be completed by early 2010.

13. Free Showing of Kilowatt Ours: A Plan to Re-Energize America at USC

A free Showing of Kilowatt Ours: A Plan to Re-Energize America was held at USC on September 13, 2006. Director Jeff Barrie was on hand to lead a discussion after the showing on topics such as mountaintop removal mining, air pollution, global warming, childhood asthma, and mercury contamination.

14. Columbia announced as one of four locations for hybrid bus demonstrations

Columbia was announced as one of four cities where a 37-passenger hybrid bus will be demonstrated.

The local initiative was brought about by a partnership between USC, the S.C. Research Authority, and the Central Midlands Regional Transit Authority.

It is expected that the hybrid bus will be in operation by the time Columbia hosts the National Hydrogen Association's annual meeting in Spring 2009.

15. City of Columbia signs Mayor's Climate Protection Agreement

On October 10, 2006, Mayor Bob Coble and the Columbia City Council signed the Mayor's Climate Protection Agreement, joining nearly 300 other cities nationwide who have also signed onto the agreement. By signing the agreement, the city has agreed to undertake methods designed to cut greenhouse emissions such as carbon dioxide and methane by 7 percent by the year 2012. Because of its pledge to reduce global warming and pollution, the South Carolina Chapter of the Sierra Club designated Columbia as a "Cool City."

16. City of Columbia unveils eWaste Program

The City of Columbia has announced that beginning December 1, 2006, residents can turn in any electronic device, including unwanted radios, computers, televisions, appliances (except refrigerators), consumer electronics, etc. at a local drop off facility on Colonial Drive for recycling. All electronic devices will then be taken to an Aiken-based company, Global Recovery, to recycle.

17. City of Columbia votes to protect two acres of trees

On October 18, 2006, the City of Columbia approved a plan that would allow Dreher High School to build new athletic facilities on a parcel of land near Owens Field Airport. Residents feared that two acres of trees would be lost under the school district's preferred option, however the city approved an option that would reconfigure an existing skateboard park in order to preserve the existing trees.

18. City of Columbia initiates Climate Protection Action Committee

As an extension of its commitment to improving air quality, the City of Columbia initiated a Climate Protection Action Committee, commonly referred to as a "green committee." The committee is made up of a citizen's committee, comprised of council appointees, as well as an advisory committee, consisting of local air quality professionals, city staff, Richland and Lexington County EAC contacts, and DHEC representatives. The committee will be divided into several subcommittees, to study topics such as education and outreach, energy conservation, alternative fuels, and land use planning. The committee will issue recommendations to City Council on ways that the city can reduce air and other types of pollution in early 2007 from the city's 56 buildings and fleet of 100 vehicles. The CPAC will also plan a community-wide summit, scheduled to take place in May 2007. The first CPAC meeting took place on November 30, 2006.

19. Greater Columbia Fuel Cell Challenge

Six awards, totaling over \$150,000, were given to local organizations to spark the use of fuel cells in the Columbia area during the annual meeting of EngenuitySC. Awards included:

- Segway Personal Transport Units for the University of South Carolina
- A backup power system at Benedict College
- A citizen's school for hydrogen and fuel cell technology
- A hands-on exhibit at EdVenture Children's Museum
- Portable batteries for television cameras at SC ETV
- A first responders extended power pack for law enforcement and emergency officials

The fuel cell challenge was project of the USC Columbia Fuel Cell Collaborative, which includes EngenuitySC, the University of South Carolina, the City of Columbia, and the S.C. Research Authority.

20. Melting Pot of Columbia unveils fondue-powered vehicle

Jay Kilmartin, owner of a Columbia Restaurant, the Melting Pot, recently purchased and converted an old ambulance to run on used canola oil from the restaurant. The owner purchased the ambulance on eBay.com and converted it from diesel powered to vegetable oil powered. The vehicle now runs on used oils from fondue. The vehicle is painted in the restaurant's color scheme and features The Melting Pot logo and tagline on each side. The owners have been featured locally, as well as on national news and talk shows, such as the Glenn Beck Show. The ambulance has drawn attention to the use of alternative fuels both in the Columbia area, and around the U.S.

21. Emergency Funding for CMRTA System

In early 2006, Richland County Council was informed by the Central Midlands Transportation Authority that their transitional funding would run out at the end of the year, and if funding was not obtained by that time, service would be cut by up to 85% in Richland and Lexington Counties. After weighing several options, Richland County passed an ordinance in October to increase its road maintenance fees by 16 dollars for personal vehicles, and 24 dollars for commercial vehicles. The revenues from these fees, approximately \$7.5 million, will allow the bus system to maintain its current level of service until a permanent funding source is found. The CMRTA provides a critical service in the Midlands, having provided approximately 2.6 million trips in FY 05-06.

22. Richland County Transportation Study Commission

As part of its temporary funding solution to the CMRTA crisis, Richland County

Council established a Transportation Study Commission to study public transit, road improvements, and walking and bicycle trails. The 33 member commission is expected to release a final report in Spring 2008, as well as a recommendation for funding high-priority transportation projects.

The commission will study transportation issues that are regional in nature. As a result, members will be made up of appointments from Richland and Lexington County Councils, the City Councils in Columbia, Cayce, and West Columbia.

23. Automated vehicle location and tracking system

Richland County recently unveiled an Automated Vehicle Location system, which was highlighted in a recent article in the State newspaper. The system, resulting from a collaboration between the Fleet Manager, IT and GIS staff, will allow the county to track and monitor vehicles in the county fleet at any point in time. The system has safety, management, and air quality applications. Specifically, staff can track and monitor data obtained electronically to see if drivers are using the most economical routes on routine projects, thus reducing fuel costs and emissions from county vehicles.

24. Promotion of Arbor Day and related activities

Richland County Council declared November 25th through December 5th Arbor Day Week. Richland County Government staff and officials partnered with the Richland County Public Library, St. Martin de Pores school, the Governor's Office, the City of Columbia, State Forestry Commission, and the Congaree National Park to organize a variety of events. It has been a highly successful week, including a tree planting in honor of Richland County's 1st ever Arbor Day Baby.

The Midlands Arbor Day Committee hosted several events throughout the week of Saturday, November 25-December 5, 2006 in celebration of Arbor Day, which is Friday, December 1, 2006.

- Nov. 25:
 - Richland County Main Library, Arbor Day Story Time.
- Nov. 27:
 - State House Ceremony- Governor Proclamation and Tree Planting, West Side Grounds.
- Nov. 28:
 - St. Martin de Porres Catholic School, Arbor Day Presentation, 4th grade Students.
- Nov. 30:

- Polo Road Elementary School, Arbor Day Presentation, 3rd-6th grade Students;
- Live Oak Tree Planting and Arbor Day Speaker Tim Womick and an appearance by Councilwoman Val Hutchinson.
- Dec. 1:
 - Tree Planting for 2005 Arbor Day Baby;
 - 2006 Arbor Day Baby Announced;
 - City of Forest Acres School Program, Satchel Ford Elementary School, Proclamation from Mayor Brunson, Live Oak Tree Planting and Dogwood seedlings distributed to children;
 - City of Columbia School Program, Carver-Lyon Elementary School- Multi-Purpose Room, 3rd grade Students, Arbor Day Speaker Tim Womick, Proclamation by Mayor Bob Coble and Live Oak Tree Planting;
 - University of South Carolina Students Allied for a Greener Earth, West Quad Learning Center, Speaker Presentation by Rudy Mancke and a Tree Planting dedication ceremony in Dr. Bruce Coull's honor, the former Dean of the School of the Environment.
- Dec. 2:
 - Congaree National Park Nature Walks
- Dec. 5:
 - Clemson REC at Sandhill, Tree Planting at the Historic Administration Building

Organizations comprising the Midlands Arbor Day Committee were Richland County, City of Columbia, SC Budget and Control Board, Columbia Tree and Appearance Commission, Richland County Appearance Commission, Richland County Conservation Commission, Richland County Conservation District, Forestry Commission, USDA-Natural Resource Conservation Service, Congaree Land Trust, and the City of Forest Acres Appearance Commission.

25. Lawnmower exchange survey and planning

As part of our planned lawnmower exchange (scheduled to take place in spring 2007), Richland County, Lexington County, and DHEC jointly crafted and distributed a lawnmower survey in October 2006. The survey went out to employees at each entity, neighborhood leaders, community organizations, and a link was posted on the Richland County website. The survey generated nearly 200 responses. These responses provide the necessary "market research" that will ensure that the event maximizes its success.

26. Ozone Action Days

The county received information from SCDHEC forecasting two Ozone Action Days in the summer of 2006 (June 22 and August 2, 2006.) Prior to each day, county staff send out emails to all county employees with the following message (a sample from the June 21 message):

The following information was received from the SC Department of Health and Environmental Control:

Air Quality Index for Thursday, June 22

ORANGE (104 AQI) - Unhealthy for Sensitive Groups

Active children and adults, and people with respiratory disease, such as asthma, should limit prolonged outdoor exertion.

****OZONE ACTION DAY for Midlands, Upstate and CSRA for Thursday**** Monitor readings across the Upstate, Midlands and CSRA on Wednesday afternoon were indicating that very efficient ozone production conditions are currently in place. With the overall weather pattern changing very little for Thursday, that is, with high pressure over the area at the surface and aloft, ground-level ozone production should once again be very efficient with the possibility that a monitor or two in the Upstate, Midlands and CSRA could peak in the code ORANGE category.

There are many things you can do to limit air pollution on ozone action days and throughout the year. To learn more about ozone, and for helpful tips on the things you can do to improve air quality in our community, please visit <http://www.rcgov.us/information/ozone/home.asp>.

For additional information concerning the air quality forecast, please visit the South Carolina Department of Health and Environmental Control air quality forecast website at <http://www.scdhec.net/ozone>.

27. Northeast Richland Traffic and Road Improvement Meeting

On December 6, 2006, Councilwomen Val Hutchinson and Joyce Dickerson held an informational meeting with residents and leaders from the rapidly growing Northeast area of Richland County. The meeting included a presentation by Norm Whitaker, head of the Central Midlands Council of Governments, regarding the transportation priorities and funding mechanisms for roads in the Northeast. Mr. Whitaker explained the correlation between congestion, growth, and air quality in the Northeast, and informed attendees that that ozone monitor located at Sandhill has the potential to draw the entire two-county region into non-compliance. The committee resolved to meet on a quarterly basis in an effort to centralize the often fractured discussion of transportation needs on this rapidly growing area of the county. Councilwomen Dickerson and Hutchinson also received suggestions from the group as to how Council can better plan for transportation needs in the

Northeast, including accelerating an update of the county's comprehensive plan, as well as a comprehensive countywide transportation plan.

28. City of Forest Acres Considering Switching to Biodiesel

In September 2006, Forest Acres city administrator, Mark Williams, informed members of city council that he was interested in using B20 biodiesel as an alternative to diesel in the city's fleet of vehicles. The switch is expected to cost approximately \$13,000 initially, however, this would provide the city with a cleaner, renewable, and domestically produced fuel alternative. The city has eighteen vehicles, including trash loaders and recycling trucks.

If Forest Acres makes the switch, it would join the city of Columbia (which is experimenting with biodiesel in two trucks, with the possibility of expanding that to about 300 diesel vehicles) and the city of Cayce, which is using biodiesel in 30 vehicles without substantial cost or maintenance issues.

29. Return the Warmth Program

The program, sponsored by Keep America Beautiful, encouraged schools to recycle No. 1 plastics, the type commonly used for soda bottles. The program was coordinated locally by Keep the Midlands Beautiful. Paper Stock Dealers/Sonoco - the recycling center that serves the three school districts - collected and counted the bottles. Aquafina and Sam's Club provided the jackets.

Students from Richland 2, Lexington 2, and Lexington-Richland 5 collected more than 100,000 plastic bottles, ranking the area among the top 50 communities in the country taking part in the drive. Schools from those communities received an allotment of child-sized fleece jackets - made of the same type of plastic - to be distributed to needy residents in their areas.

30. Congaree, Wateree and Santee Basin Initiative task force

DNR created the Congaree, Wateree and Santee Basin Initiative task force that targets 215,000 acres of land in the Midlands to be preserved from development. The task force is not anti-development, but it wants to direct growth in these areas away from prime natural property. The land is mostly in Richland and Sumter counties, but includes smaller parcels in Kershaw, Lexington and Calhoun counties.

So far, 16 landowners in the target area have committed almost 15,000 acres to conservation easements in exchange for tax breaks and other financial incentives.

31. Electronics Recycling Event

Intel Corporation and Best Buy sponsored an electronics recycling event. Computers, monitors, printers, scanners, keyboards, mice, VCRs, terminals, cables, fax machines, radios, modems, telephones, TVs, copiers, typewriters, stereo equipment and cell phones were accepted for recycling.

This event was held Saturday, April 14 from 9:00 a.m. to 4:00 p.m. at Colonial Center parking lot (corner of Lincoln and Blossom streets) for Midlands area residents.

32. Columbia Recycling Program

The City of Columbia provides curbside recycling to approximately 29,000 residential and small commercial locations. Items currently accepted include, NEWSPAPERS, ALUMINUM CANS, STEEL CANS, PETE #1 AND HDPE #2 PLASTICS, MAGAZINES, CLEAR, BROWN, AND GREEN GLASS.

The city also has a drop off location for recyclables, located behind DHEC at 2600 Bull Street. This drop off center accepts the same items as our curbside program.

A commercial recycling program, which collects recyclables in bulk from businesses in the city limits, has also been implemented. This program also includes an office paper collection program.

The city has also initiated an electronics recycling program for computers and other electronic equipment.

The city's recycling program currently has an eighty-five percent participation rate throughout the city.

33. Car Care Event for women

Suddeth Automotive offered Women's Car Care Seminars at 1410 Millwood Avenue in Columbia on Saturday April 28, 2007.

Two sessions are available, from 9:30-11:30 a.m. and 1:30-3:30 p.m. Participants learned car essentials, including maintenance. Certified technicians were on hand to answer questions. Participants received an automotive goodie bag and were eligible for door prizes, including a \$50 gas card. Admission was free, but advanced registration was required.

34. Cities of Lexington and Columbia - Tree City USA

Tree City USA encourages municipalities and areas to have strong urban forestry programs. The Tree City USA program is sponsored by The National Arbor Day Foundation in cooperation with the USDA Forest Service and the National Association of State Foresters.

The City of Lexington has been a Tree City for 18 years. The City of Columbia has been a Tree City for 27 years.

35. USC Recruits Fuel Cell Researcher

The University of South Carolina has recruited a leading researcher to head a team at USC to develop a fuel cell that could power an entire city.

Kenneth Reifsnider, director of the Global Fuel Cell Center at the University of Connecticut, will become director of USC's Solid Oxide Fuel Program and professor of Mechanical Engineering and Educational Foundation University Professor this summer.

36. USC Biomass Plant

The University of South Carolina is currently installing a biomass plant. The biomass plant will supply 1,300 kilowatts of energy for all 85 buildings currently using steam.

37. Regional Air Quality Initiative

On Wednesday, April 4, 2007, the County Administrators from Richland and Lexington Counties met with staff from the Central Midlands Council of Governments and DHEC for the purpose of discussing the structure of a possible regional air quality group. The stakeholders agreed that air quality is an important regional issue, and agreed to work together on a regional level when dealing with air quality issues.

The first step of this process is to bring key leaders together. To achieve this, the CMCOG scheduled a meeting for county and municipal leaders from across the seven-county region of the Central Midlands to begin formulating an action plan for improving air quality and ensuring attainment with current and future national ambient air quality standards (NAAQS).

The meeting will take place on Wednesday, June 27, 2007, from 12:00 – 2:00 PM at the CMCOG Conference Room, 236 Stoneridge Drive, in Columbia.

38. Chamber of Commerce IntraRegional Visit

The Greater Columbia Chamber of Commerce hosted an IntraRegional visit for business leaders in Richland and Lexington Counties on June 5, 2007. The focus of the meeting was on the eight issues identified by a chamber committee as "Good to Great" issues, or issues that will propel the greater Columbia area from a good community to a great community. Attendees to the five-hour visit received updates from chamber subcommittees on the status of initiatives such as the greenways program and transportation. Business leaders were also informed of

the region's air quality attainment status, as well as the consequences of non-attainment. One portion of the event gave participants the opportunity to participate in break out sessions for one of the eight good to great issues. Myra Reece, Bureau Chief at the DHEC Bureau of Air Quality, participated in the air quality break out session, which provided recommendations to the group as a whole.

39. CMCOG Midlands Travel Tomorrow Survey

The Central Midlands Council of Governments (CMCOG) is sponsoring the Midlands Tomorrow Travel Survey, which will capture information specific to participants' travel behavior and their opinions concerning the region's transportation network. The travel information gathered from this survey will be used to update the regional travel model that is used for transportation planning, traffic forecasting, project evaluation, and multimodal analysis.

Surveys were conducted by telephone beginning February 13, 2007 and continued through the end of March 2007.

40. CMCOG to Hold Open Space Workshops

The Central Midlands Council of Governments (CMCOG) is currently working on developing a regional plan for preserving open space. Open space can be defined as follows:

An undeveloped piece of land adding ecological, scenic or recreational value to an area. Examples include forests, marshes and wildlife sanctuaries. Open spaces can also include: agriculture, retention/ detention areas and floodways and floodplains. Open space may be publicly or privately owned and maintained.

The goal of such a plan is to create a network of protected lands within the region that will be a legacy for future generations. Given the rapid pace of development within the region, particularly in Lexington and Richland Counties, the time is now to identify places needing protection.

To that end, CMCOG will hold four public workshops on open space planning over the next month, with one workshop in each of the CMCOG's four counties (Lexington, Richland, Fairfield and Newberry):

- Tuesday, June 19th – CMCOG, 236 Stoneridge Drive, Columbia, 11:30am-1:00pm and 5:00pm-7:00pm
- Wednesday, June 27th – Lexington Town Hall, 111 Maiden Lane, Lexington, 11:30am-1:00pm and 5:00pm-7:00pm
- Wednesday, July 11th – Winnsboro Town Clock Building (first floor meeting room), 100 Congress Street, , Winnsboro, 5:00pm-7:00pm.
- Thursday, July 12th – Newberry City Hall, 1330 College Street, Newberry, 5:00pm-7:00pm

The purpose of these workshops is two-fold: 1) to provide background on open space planning, including the results of CMCOG's recent online open space survey, and 2) to solicit input from the public on what open spaces they would like to see preserved within the Central Midlands region.

The format of these workshops will be an informal, drop-in basis, with a series of stations that participants can go to, starting with background information and ending with the opportunity to fill out a survey on what open spaces the participant would like to see preserved within their community.

These workshops follow the online open space survey that was done over a two-month basis (March 15th – May 15th), which saw strong participation throughout the region. CMCOG hopes that these public workshops will enjoy an equally strong turnout and will serve as an important means for guiding our open space planning efforts for the region.

41. CMCOG Bike and Pedestrian Listserv

The Walk/Bike Listserv is a forum through which to communicate bicycle and pedestrian information and initiatives in the Central Midlands region of South Carolina (Richland, Lexington, Fairfield, and Newberry Counties). It is intended to make communities aware of projects that may be going on in their neighborhoods and in the region as a whole, and how citizens can help create active community environments where they live. Below are some of the uses that will be served through the listserv.

- Notification of public hearings on bike / pedestrian related issues;
- Local bike / pedestrian related ordinances and resolutions existing or passed by local jurisdictions;
- Local road / trail projects going on in communities and their status
- Awareness of bike / pedestrian events

As a two-way forum, the list can also be used for on-line discussion of topics of interest to cyclists and pedestrians in the central midlands region.

42. Commuter Rail Study

The CMCOG recently completed a planning study to CMCOG recently completed a planning study to reassess the feasibility of commuter rail and other high-capacity transit modes in the Central Midlands region. The latest study was commissioned to take a more detailed look at three corridors – Newberry, Camden & Batesburg- Leesville to Columbia - that had been identified in a previous 2000 study and to develop an Action Plan and strategies to prepare the region for future. The plan was adopted by the CMCOG Board in the Summer of 2006. Its findings were also endorsed by the City of Columbia by resolution on June 6, 2007.

43. EPA Grant Funding Workshop

SCDHEC's Bureau of Air Quality and the Georgia Environmental Protection Division sponsored a grant funding workshop in conjunction with the EPA Region 4 Office. wonderful opportunity in cooperation with staff from the U.S. Environmental Protection Agency's (EPA) Region 4 Office. The purpose of the workshop was to provide information that may help local entities to improve their proposals when applying for federal grants.

A workshop was held in Columbia on January 17 from 1:00 to 4:00 pm at the Eau Claire print Facility.

The agenda for the workshop included the following:

- how to find EPA grant funding opportunities
- how to prepare a strong project proposal
- how to submit your proposal
- how EPA selects projects
- what happens after a project is selected.

The workshop was open to all interested parties, including state, local and tribal governments, universities and nonprofit organizations.

44. SC Summit on Energy Efficiency

Richland County was host South Carolina Summit on Energy Efficiency on Monday, April 30, 2007. The event took place from 9:00 am to 4:30 pm at the Columbia Metropolitan Convention Center in downtown Columbia.

The summit was a one-day conference to learn about and discuss the opportunities for economic energy efficiency in South Carolina, share information on the key challenges to increased energy efficiency and consumer awareness in the state, discuss the options for addressing these challenges, and more.

The speakers roster included: Kateri Callahan, President, Alliance to Save Energy; Dana Beach, Executive Director, South Carolina Coastal Conservation League; Brian Spiers, Owner/Partner, Regal Custom Home Builders; Bryan Cordell, Executive Director, Sustainability Institute; Renee Shealy, Assistant Bureau Chief, Bureau of Air Quality, South Carolina Department of Health and Environmental Control; Otis Rawl, Vice President, SC Chamber of Commerce; Roger Flynn, Research Assistant, Strom Thurmond Institute of Government and Public Affairs; John Clark, Director, State Energy Office; Nicholas Rigas, Director, South Carolina Institute for Energy Studies; Robert W. King, Deputy Commissioner, South Carolina Department of Health and Environmental Control; Brian Walser, Portfolio Energy Manager, Bank of America.

The event was sponsored by: Advanced Energy, Alliance to Save Energy, Catawba College Center for the Environment, Duke Energy, Environmental Defense, Progress Energy, SCANA, South Carolina Department of Health and Environmental Control, South Carolina Department of Natural Resources, South Carolina Energy Office, South Carolina Institute for Energy Studies, South Carolina Chapter of the US Green Buildings Council, South Carolina Coastal Conservation League, South Carolina Manufacturers Alliance, South Carolina State Chamber of Commerce, Southeast Energy Efficiency Alliance, and the Sustainability Institute.

45. DHEC Presentation to Council

On April 24, 2007, Myra Reece of SCDHEC Bureau of Air Quality made a presentation to the Richland County Development and Services Committee regarding air quality issues in the Columbia area. Ms. Reece informed members of council about the county's current attainment status for ozone and particulate matter, and illustrated air quality trends in the region and throughout the state. Ms. Reece also advised members of council of the potential penalties of non-attainment in the Columbia area for both ozone and particulate matter.

46. Global Warming Café

The Global Warming Café is workshop designed to empower individuals to become part of the global warming solution. Participants engaged in a heartfelt conversation about global warming and were invited to take personal action to reduce their carbon footprints through the carbon-reduction tools and strategies embodied in the Low Carbon Diet: A 30 Day Program to Lose 5000 Pounds.*

The Café, sponsored and hosted by the Cool Cities Committee of the John Bachman Group of the Sierra Club, took place on Saturday, April 14 in Downtown Columbia and was free.

The Global Warming Café is part of the National Day of Climate Action sponsored by Step it Up 2007 and a broad coalition of environmental organizations including the national Sierra Club.

*The Low Carbon Diet: A 30 Day Program to Lose 5000 *Pounds* is a program created by the Empowerment Institute of Woodstock, NY. All participants in the Global Warming Café are encouraged to familiarize themselves about this program prior to the Café by going to: <http://www.empowermentinstitute.net/lcd/index.html>

47. Irmo PM 2.5 Stakeholder Group

Richland County is an active stakeholder in the recently created Irmo PM 2.5 Stakeholder Group. A representative from the county has attended each of the two meetings held to date (March 28, 2007 and May 23, 2007.) The county also made a presentation to the group during the May 23rd meeting.

The purpose of the group is to bring together state (DHEC) and local (Richland County, Lexington County, Town of Irmo) entities, along with surrounding businesses (Shaw, SCANA, CSX, etc) and other interests (Central Midlands COG, Leaphart Elementary School, Irmo-Chapin Recreation Commission, etc.) in an effort to improve air quality (particularly PM 2.5 readings) in the northwest part of Richland County.

48. Mow Down Pollution: 2007 Richland-Lexington Lawn Mower Exchange Event

Richland and Lexington Counties jointly hosted, in conjunction with DHEC and Keep the Midlands Beautiful, South Carolina's first ever lawn mower exchange on April 21, 2007 at the South Carolina State Museum.

The event received extensive press coverage on WACH Fox, WLTX, WISTV, the State Newspaper, Richland Revealed, and several other media outlets.

During the event, over 150 mowers were turned in exchange for a deep discount on the purchase of an electric mower from Neuton. The response to the event was overwhelming, and the parties have begun talks to hold a second event in 2008.

49. Columbia Climate Protection Action Plan

The City of Columbia's Climate Protection Committee has met monthly since its inception in late 2006. The committee's work culminated in a climate protection action plan that was adopted unanimously by city council on May 16, 2007.

City of Columbia Climate Protection Action Plan

Mission/Purpose of Action Plan

The Climate Protection Action Plan provides measures to reduce emission levels of the City of Columbia consistent with the commitment made in the US Conference of Mayor's Climate Protection Resolution. The City's baseline emissions will serve as the threshold for measuring the success of these efforts.

Building-Related Energy

Municipal Building Energy Efficiency & Conservation

- Conduct an energy audit of municipal facilities and implement the recommendations.
- Implement an energy tracking and management system.
- Develop plan to install digital thermostats in city facilities. Adjust thermostats based on the industry standards to reduce consumption.
- Develop plan to install energy-efficient exit sign lighting in all city facilities over a defined period of time.
- Develop a plan to perform energy-efficient lighting retrofits in all city facilities over a period of time.

- Institute a lights out policy in all city facilities when not in use.
- Require city employees to turn off computer monitors each evening and turn off the computer over the weekend.
- Install motion detectors and/or timers that will turn lights off if room is unoccupied for a certain length of time.
- Develop plan to perform heating, cooling and ventilation system retrofits (e.g., chillers, boilers, fans, pumps, belts) based on the energy audit. Consider alternative energy resources.
- Develop a plan to install ENERGY STAR appliances in all city facilities as deemed appropriate and feasible.
- Develop a plan to install green or reflective roofing on city facilities.
- Develop a plan to improve water pumping energy efficiency.
- Replace hot water heater units with hot water on demand systems if they are more energy efficient
- Encourage Commission of the Blind to install energy-efficient vending machines in all city facilities that currently utilize vending machines.
- Require that all new construction and renovations of municipal buildings follow LEED Certified guidelines.

Outdoor Lighting

- Continue to install energy-efficient traffic lights and replace all incandescent traffic signals with LED signals.
- Develop ordinance requiring all street lighting inside City limits to be energy-efficient street lights (e.g., high pressure sodium) – plan will accommodate normal replacement schedule of existing lights.
- Evaluate street lighting to determine if the average daily time streetlights are on can be reduced without compromising public safety. City will work with SCE&G on this initiative.
- Develop energy efficient lighting programs for city parks including the greenways, and city parking garages.
- Develop and implement lighting standard to be used citywide to include specifications regarding spacing and lighting levels.

Renewable Energy

- Encourage SCE&G to produce/provide Green Energy.
- Purchase green electricity from solar, geothermal, wind, landfill or hydroelectric sources if made available.
- Purchase green tags / renewable energy certificates if made available.
- Use alternative energy sources in municipal facilities when possible.

Transportation

Vehicle Fuel Efficiency

- Continue to monitor use of take home vehicles and ensure proper justification is in place for all approved.
- Enforce policy to trailer equipment to job sites.

- Retire old and under-used vehicles and equipment.
- Purchase fuel efficient or electric (e.g., hybrid) and/or smaller fleet vehicles.

Alternative Fuels

- Evaluate option of using alternative fuel in City vehicles.
- Evaluate option of running bio-diesel in municipal fleet.
- Utilize electric vehicles in municipal fleet.
- Develop and place sticker on municipal vehicles that are using alternative fuels.
- Educate employees regarding use of alternative fuels and encourage use in personal vehicles.

Trip Reduction / Transportation Demand Management

- Encourage car-pooling or vanpooling by municipal employees.
- Evaluate option of telecommuting by municipal employee.
- Evaluate use of alternate work schedules by municipal employees so arrival and departure times are staggered.
- Encourage use of mass-transit by municipal employees. Work with RTA to allow city employees to ride for free or reduced rate on mass transit.
- Evaluate police use of motorcycles and bicycles to determine suitable locations and implement accordingly.
- Expand community bicycle infrastructure (e.g., dedicated bicycle lanes, additional bicycle parking spaces).
- Institute a “safe routes to school” program.

Other Transportation-Related Measures

- Develop and Enforce policy to limit idling of municipal vehicles. Explore anti-idling software for older vehicles.
- Continue studies to determine if further measures can be taken to improve traffic signal synchronization.
- Secure stable funding for Midlands Regional Transit Authority.

Recycling & Waste

- Enhance recycling programs in municipal facilities by offering incentives for departments/divisions and for solid waste customers.
- Conduct a public relations campaign to inform the public of the details of recycling programs and encourage recycling.
- Conduct a public relations campaign to inform citizens of the City’s composting operation and encourage its use.
- Utilize city compost material as much as possible.
- Evaluate use of compost material as stabilization material for embankments.
- Establish internal system for reuse or recycling of construction and demolition materials.

- Implement solid waste reduction programs. Reduce use of paper through copying on both sides, minimize printing when information can be read on the Internet and require grant applicants to use both sides of the paper.
- Evaluate on-line grant applications for the city's grant programs (community promotions, accommodations, hospitality, community development block grant, etc.)
- Evaluate establishing methane recovery in local wastewater treatment plant and landfills.
- Implement Electronic Waste Recycling Program for Residential Customers (State Law limits the city's ability to provide electronic-waste services to commercial customers).
- Utilize recycled items when possible.
- Provide advice and information to commercial businesses and the public on recycling hazardous substances.

Land Use

- Educate public about the requirements of the landscape ordinance
- Modify landscape ordinance to allow planted green rooftops as an option to meet the landscape ordinance tree density factor requirement.
- Review and modify planning and zoning codes to discourage sprawl and promote green space through such practices as infill development, traditional neighborhood development and mixed use neighborhood development
- Promote Forever Forest and Treasured Trees Programs
- Perform Tree Survey and develop Five Year Plan for Maintenance and Replacements
- Institute programs to preserve open space
- Continue to fund efforts to perform landscape maintenance and planting of shade trees
- Encourage planting of new trees and shrubs strategically to shelter buildings and reduce fuel consumption needed to cool buildings.
- Review existing parking lot ordinance and consider incentives for retrofitting existing parking lots. Encourage use of pervious paving and best practices to reduce runoff.
- Create a reward system for development projects that go beyond the tree protection requirements or in other ways demonstrate environmentally sensitive design.

50. Continued funding for CMRTA

Richland County Council passed its FY 08 budget on June 5, 2007. Included in the budget is a continuation of a \$16-24 increase in the road maintenance fee for temporary funding for the CMRTA. The county will provide nearly \$3.2 million in interim funding to the CMRTA in FY 2008. Without funding from the county, CMRTA has threatened to cut service by up to 85%.

51. Richland County Transportation Study Commission

Richland County has appointed a 39-member commission to complete a multi-modal long-range transportation plan for the county. The commission is divided into four committees: Executive Steering, Roads, Transit, and Greenways/Pedestrian.

To date, the commission has developed a scope of services, selected a consultant (Parsons Brinckerhoff), and held five public meetings throughout the county:

Kickoff - April 11, 2007, 80 citizens attended.

Lower Richland – May 29, 85 citizens attended.

Northeast Richland – May 31, 100+ citizens attended.

Northwest Richland – June 4, 40 citizens attended.

Downtown – June 7, 120+ citizens attended.

An overview and scope of services for the commission's work is outlined below:

Richland County Transportation Study Scope of Services

In October 2006, the Richland County Council established by ordinance the Richland County Transportation Study Commission. The Commission is composed of thirty-nine (39) members with a 7-member Executive Committee. Additionally, the Commission has three subcommittees: 1) Greenways and Pedestrian Modes; 2) Vehicular Traffic Improvements/Roads; and 3) Public Transit and Transit Oriented Development. By ordinance, the Commission's mission is to study the long range multimodal transportation needs of Richland County through the development of a Long Range Transportation Plan (LRTP).

This Scope of Services establishes the process for the development of the Richland County LRTP. It has been crafted to allow particular elements pertaining to individual modes (i.e., greenways/pedestrians, vehicular travel/roadways, and transit) to be guided and reviewed by the respective subcommittees. In addition, this Scope of Services provides a comprehensive process that will result in a fully integrated, multimodal LRTP for Richland County.

Task 1 Public Participation Plan

Due to the importance of public involvement in not only developing the LRTP for Richland County (the County), but also in creating consensus and awareness for support and implementation of such a plan once it is realized, the public participation plan is a high priority of the project.

The objectives of this task include the following:

- Create and maintain an on-going process for project communication between PB, the County, the Transportation Study Commission (and its subcommittees), area municipalities, Central Midlands Council of Governments (CMCOG), South Carolina Department of Transportation (SCDOT), and other key stakeholders;

- Establish a unified vision for the transportation network; and
- Identify and implement a process for meaningful public involvement.

PB will develop and implement a comprehensive public involvement plan. Public awareness, education, participation, and input gained through this process will assist in the development of solutions appearing in the final plan.

PB invites the County to take as active or passive a role in the public involvement process as desired and welcomes such participation in the process. However, for the purposes of this Scope of Services, it has been assumed that PB will provide the majority of public involvement services.

The following sections outline specific public participation techniques to be utilized during the execution of the project.

Task 1.1 Project Identity

The County will create a public identity for the project that will be memorable and inspire participation. Rather than referring to the effort as “Richland County Transportation Study,” it is recommended that a “public name” for the project be established that is catchy, creative, and inspiring. Such a name will convey the vision of the planning process. Additionally, the County will create a project logo that will be included in all project materials and communications in order to establish a recognizable “image” for the project.

Task 1.2 Project Contact Database

The County will develop and maintain a project contact database that will include contact information (as appropriate) for each project participant (e.g., Transportation Study Commission members, consultant team members, involved Richland County personnel, involved/interested agency representatives, key stakeholders, public meeting participants, etc.). The origin for this database will be a compilation of available information and it will be continuously updated throughout the life of the project. This database will be used exclusively for communication of project information. Additionally, it will be kept in the strictest of confidence and will not be disseminated to the general public.

Task 1.3 Press Releases

The County will prepare press releases for distribution to local media outlets (e.g., television stations, *The State*, alternative newspapers, radio stations, etc.) to announce new thresholds that have been met by the Commission, public meetings, key project milestones, etc.

Task 1.4 Commission Meetings

Per the Commission’s charter, the Commission will meet monthly. PB’s project manager will attend seven (7) progress meetings with the Transportation Study Commission Executive Committee. As part of the progress meetings, PB will apprise the Executive Committee of activities performed to date, schedule future activities, and ensure the project is moving forward as planned. In addition to progress meetings, on-going communication with the Executive Committee will occur through the project’s collaborative website (see Task 1.5). Interim deliverables (and their review) will be conveyed in electronic format.

During the course of the LRTP development, collaboration on specific elements of the plan will occur principally through the three established Transportation Study Commission subcommittees. The Executive Committee will provide overall policy and technical guidance to the team on an ongoing basis through completion of each Scope of Services task. As a complement, the subcommittees will function as “roll up your sleeves” working groups that will assist in documenting existing conditions, analyzing the transportation network, identifying and evaluating alternatives, and creating an implementation plan for the Final LRTP. PB’s project manager will attend each of the subcommittee meetings to present and discuss relevant information. Individual meetings for each of the three subcommittees will be coordinated to occur concurrently on a single day to maximize efficiency.

To provide formal “kick-off” and “closure” to the development of the LRTP, the full Commission (i.e., all 39 members) will meet at the beginning and end of the LRTP process. These “bookends” will provide opportunity for public declaration of the Commission’s focus and mission, what will be accomplished, and what has been accomplished. Appropriate PB staff will attend each of these meetings.

All technical memoranda developed for the project will be submitted to the subcommittees for review and comment. Given the short duration of the project (15 months), relatively short time frames have been anticipated for the County’s review of documents. The County agrees to review/comment on technical memoranda within seven (7) calendar days. Comments will be addressed in the Draft Final LRTP (i.e., revisions and re-issue of individual technical memoranda are not included in this scope of services).

Task 1.5 Collaborative Website

PB will host a collaborative website (for project management purposes) that will ease communications for the project between PB, the County, and the Transportation Study Commission. The site will provide an easily accessible location for project files, interim deliverables, project calendars, contact information, and other project related items. All key parties (i.e., Transportation Study Commission members, County staff, PB staff, subconsultants, etc.) will have access to the site and its content. This will be a private site not available to the public (see Task 1.6 relative to the public website).

Task 1.6 Public Website

The County will design and implement of a public website, which shall announce meetings, and post drafts as well as finalized plans, press releases, etc. Additionally, the website shall be designed to assist in the receipt of comments and feedback from the public. Information for public dissemination will be hosted by the County and directly linked to the County’s website so as to promote the County and its mission. PB will provide project documentation (e.g., technical memoranda, fact sheets, etc.) in formats conducive for website inclusion (e.g., pdf, jpg, etc.).

Task 1.7 Public Meetings

A sense of public ownership is critical to a successful planning process. To this end, PB proposes a series of public meetings to engage both stakeholders and the general public more fully in the project and achieve consensus on alternative solutions.

Public meetings will serve as face-to-face outlets for the dissemination of project information in an informal setting. These interactive public gatherings will provide a forum for the exchange of ideas, comments, and suggestions. Due to the large geographic area that must be covered, public meetings will be conducted in series, with essentially the same meeting occurring four (4) times (i.e., once in each specified geographic area). The specific boundaries for these geographic areas will be determined in the early stages of the project, but essentially will consist of Northwest Richland, Northeast Richland, Central Richland, and Lower Richland. A total of three (3) public meeting series (i.e., 12 total meetings) have been included in the Scope of Services as follows:

- One (1) public meeting series during the establishment of existing conditions (see Task 2) to introduce the study, engage the public early, and establish ownership of the planning process from the very beginning;
- One (1) public meeting series following the identification of alternative solutions (see Task 4) to allow the public to react to a wide array of possible alternatives and provide input on the criteria that will evaluate those alternatives; and
- One (1) final public meeting series following the preparation of the Draft LRTP (see Task 8), to solicit public feedback.

The first public meeting series will be conducted in charrette format to provide an interactive environment in which participants may easily express issues and concerns. Each charrette will consist of a drop-in meeting featuring facilitated planning discussion groups, each giving attention to particular planning areas that will include but not be limited to:

- Greenways and Pedestrian Modes;
- Vehicular Travel / Roads;
- Public Transit;
- Land Use; and
- Community Character.

These discussion groups will operate as roundtable forums where feedback will be received and recorded on large easel pads. Additionally, display boards will be set up at each discussion group containing existing conditions information.

The second and third public meeting series will be conducted in an open-house format. Display boards will be set up around the room outlining pertinent issues identified, alternatives evaluated, and formal recommendations. PB will staff the meetings with appropriate personnel to meaningfully engage the public and solicit comments.

At all public meetings, opportunities will be provided for the public to provide feedback by submitting written comments via comment sheets or oral comments via voice recorders. Comment sheets may be filled out during the meeting, or participants may take a sheet with them and return it via mail, email, or fax. Additionally, all staff working the meetings will carry clipboards and record comments that are conveyed verbally to them.

The Commission will take ownership of all public meetings (i.e., act as host, call meetings to order, etc.). PB will staff and conduct all public meetings. The County will be responsible for meeting logistics, including securing meeting locations and advertising meetings.

Task 1.8 Informational Kiosk

PB will assemble and maintain an informational kiosk at a prominent and well-traveled location within the County. PB will secure appropriate locations (e.g., County administration building, post offices, libraries, bill payment centers, shopping centers, etc.) and will update kiosk information in concurrence with significant project activities. The kiosk will serve as an informational resource on project status to the citizens of Richland County and as a location for receiving comments from the public. Although only a single kiosk will be utilized, it will be moved periodically to new locations to maximize exposure.

Task 1.9 Council Briefings

In coordination with the Commission Executive Committee, PB will provide three (3) technical presentations to Richland County Council as specified by the Commission's charter. These briefings will be in concert with the Commission's progress reports in May 2007 and November 2007 and final report in May 2008.

Task 1.10 Miscellaneous Briefings

Based on our experience with similar projects, it is anticipated that additional briefings may be needed to groups that have yet to be identified. These could include presentations to the CMCOG, local municipalities, SCDOT, chambers of commerce, adjacent counties, etc. Five (5) such miscellaneous briefings have been included in this scope of services.

Task Deliverables:

- Creation of project name and logo (County);

- Creation and maintenance of project contact database (County);
- Preparation of press releases (County);
- Participation in seven (7) Executive Committee meetings (PB);
- Participation in seven (7) meetings for each of the three subcommittees (i.e., a total of 21 subcommittee meetings) (PB);
- Participation in two (2) full Commission meetings (PB);
- Hosting and maintenance of a collaborative team (private) website (PB);
- Provision of content for a County created, hosted, and maintained public website (PB);
- Execution of three (3) public meeting series (i.e., total of 12 meetings) (PB);
- Assembly and maintenance of an informational kiosk (PB);
- Participation in three (3) County Council briefings (PB); and
- Participation in five (5) miscellaneous briefings (PB).

Task 2 Document Existing Conditions

Task 2.1 Establish Existing Planning and Regulatory Context

PB will develop a “big picture” of the future of the midlands regional transportation system through an examination of related reports, plans, studies, policies, and legislation. Content will be reviewed to minimize redundant data collection, provide insight into the workings of the County and region’s transportation network, and gain understanding as to previous recommendation rationale. The vast majority of information will be taken from secondary sources.

PB will review relevant planning efforts performed by Richland County, Lexington County, appropriate municipalities, CMCOG, Central Midlands Regional Transit Authority (CMRTA), SCDOT, and South Carolina Department of Natural Resources (SCDNR) with an eye for determining what will be occurring in and near Richland County. The purpose of this review is to establish a baseline understanding of relevant planning efforts that have been performed at the county level as well as at the regional level and to build upon those efforts in the development of the Richland County LRTP.

Efforts to be reviewed and coordinated with include, but are not limited to (some of these are completed, while others are in process):

- Columbia Area Transportation Study (COATS) LRTP;
- SCDOT Statewide Multimodal Transportation Plan;
- COATS Transportation Improvement Program (TIP);
- SCDOT Statewide TIP (STIP);
- CMCOG Rural Long Range Multimodal Transportation Plan;
- COATS Bike and Pedestrian Pathways Plan;
- COATS Motor Freight Transportation Plan;

- CMRTA Transit Development Plan;
- Commuter Rail Study for the Central Midlands Region;
- Lower Richland Sub-Area Plan;
- COATS Congestion Management Plan;
- County and municipal land use plans and policies; and
- County and municipal land development regulations and policies;

Should other documents and/or efforts exist, PB will include those items as appropriate under this task. The review will also include all state laws related to transportation including but not limited to:

- Laws related to bicycle and pedestrian travel, including appropriate travel on sidewalks, shoulders, sidepaths, and roadways.
- Laws related to vehicular traffic and roadways, including ownership, maintenance, funding, and vehicular operations.
- Laws related to public transit, including ownership, governance, management, oversight, service provision, and cost sharing.
- State enabling legislation pertaining to planning and land use control, including a local government's ability to adopt and enforce zoning, development regulations, developer fees, etc.

As introduction/background to the first technical memorandum, the merits of a multimodal transportation system will be discussed in general and specifically in the context of Richland County.

Task 2.2 Research

PB will research “best practices” in the areas of bicycle and pedestrian facilities, vehicular travel and roadways, and transit governance and operating models (i.e., management, oversight, service provision, cost sharing, local revenue sources, etc.) used by other regions in South Carolina and urban areas throughout the United States that are highly regarded for transportation/land use decision-making. Research will occur primarily through the compilation of existing information from secondary sources, including national organizations and professional associations (e.g., American Planning Association (APA), Institute of Transportation Engineers (ITE), American Public Transportation Association (APTA), National Transit Institute (NTI), Center for Livable Communities, etc.).

Task 2.3 Identify Existing Transportation Facilities

PB will identify and collect data with regard to the current transportation system of the County. This effort will consist of compiling data from existing, secondary sources (as identified in Task 2.1). The goal is to maximize the use of existing information and to limit the need to conduct in-field data collection. Utilizing data from existing, secondary sources, PB will inventory, map, and evaluate the conditions of the existing transportation network. This will produce a composite database that will be the framework for further tasks to follow.

To conduct the inventory of existing conditions, PB will identify and obtain existing data currently available from the County, MCOG, CMRTA, SCDOT, local municipalities, and others. It is anticipated that components of the County's transportation network to be identified will likely include:

Bicycle and Pedestrian Travel

- Location of existing bike lanes, trails, bicycle routes, and other bicycle accommodations (including any available information on the condition of these facilities);
- Location of existing pedestrian facilities (if information is available electronically); and
- High risk areas for bicyclists and pedestrians based on available historical crash data (in as much as this data is available electronically).

Vehicular Travel / Roadways

- Roadway functional classification (e.g. local, collector, arterial, interstate, etc.);
- Location and classification/designation of major signalized and un-signalized intersections, interchanges, bridges, and other major roadway structures;
- Design characteristics and conditions (e.g. number of lanes, speed, volumes, etc.);
- Corridor and route designations (e.g. major freight or truck corridors, corridors served by transit services, roadways with sidewalk and bicycle accommodations (e.g. bike lanes, wide shoulders, etc.), or other important roadway designations); and
- Location and connection to transit stations and park-and-ride facilities, major freight and rail terminals, and other major intermodal facilities.

Public Transit

- Transit routes, stops, and stations;
- Latest ridership information by route, trip, and stop;
- Data on demand and operations of Dial-a-Ride Transit (DART) including daily trip logs, customer origins-destinations, and operations performance data;

Existing databases will be utilized within an ArcGIS platform to provide a geographic frame of reference for as much data as possible. The visual display of information will be a key tool for analyzing data and for making presentations to the Transportation Study Commission, County Council, and the public. PB will build upon and update data layers currently within the County's GIS database to meet project objectives; no original data sets will be developed.

Task Deliverables:

- Technical Memorandum No. 1: Existing Conditions

Task 3 Analyze Existing Transportation Network

PB will identify community needs and goals through the analysis and evaluation of the existing transportation network. Specific areas of analysis are outlined in the following sections.

Task 3.1 Bicycle and Pedestrian Analysis

Task 3.1.1 Identify Current and Potential Bicycle and Pedestrian Generators

PB will compile data on existing and potential bicycle and pedestrian generators in Richland County and local governments immediately adjacent to the County. It is anticipated that generators will include but not be limited to the following:

- Residential areas;

- Major employment centers;
- Commercial/retail centers;
- Recreation areas; and
- Educational institutions.

Task 3.1.2 Identify Opportunities and Constraints to Implementation

PB will identify existing opportunities and potential constraints or issues with regard to implementation of bicycle and pedestrian improvements. Such opportunities and constraints may take on a variety of forms including but not limited to the following:

- Regulatory opportunities and constraints (i.e., by reviewing a sampling of local land use and subdivision regulations);
- Fiscal opportunities and constraints (based on agency input); and
- General roadway attribute opportunities and constraints (e.g., excessive speeds or volumes, excessive capacity, excessive or limited shoulder widths, topography, etc.).

Task 3.2 Vehicular Travel / Roadways Analysis

Task 3.2.1 Impacts to Existing Roadway Network

PB will coordinate with the COATS travel demand model and utilize existing/projected land use to determine impacts to the existing roadway network. It is assumed that existing and projected land use, population, and employment data, or the inputs needed to determine such (i.e., building permits by year, zoning, etc.), will be available from the County, CMCOG, and/or other federal/state/local sources.

Under this task, impacts to the existing roadway system, and its intersections and interchanges will be determined under a “no build” condition (i.e., the “no build” scenario will consist of the existing transportation system and projects that are currently under construction, under development, and/or programmed in a local, regional, or state improvement program). Specific issues to be analyzed include the following:

- Trip distribution and traffic assignment;
- Traffic volumes;
- ☐ Peak hour data (i.e., hours and volumes for those periods);
- Capacity analysis (i.e., level of service analysis);
- Travel time increase (i.e., delay);
- Travel cost increase (i.e., lost operating cost, lost time cost, and accident cost);
- Excess delay index and delay ratio; and
- Safety related factors (e.g., high crash locations, etc.).

Other factors to be considered under this task include data and information from the County’s Pavement Management System as well as data from other state and local management systems (e.g. bridges and structures). Data from these systems will be used to establish a clear understanding of current roadway deficiencies within the County.

Task 3.2.2 Assess Future Travel Demand

Based on public input, analysis of existing conditions, results from the travel demand model, and a review of current and projected roadway system deficiencies, PB will assess the short-, medium-, and long-term needs for development of improvements to the roadway network. The process will include close coordination with consultants working on related efforts and other local, regional, and state transportation professionals. The needs assessment will take into account constraints of the existing roadway network, geographic features, development patterns, and other factors to ensure the development of realistic alternatives.

Task 3.3 Public Transit Analysis

Task 3.3.1 Ridership and Performance Analysis

PB will utilize available CMRTA data provided by the agency (see Task 2.3). The ridership and performance analysis is a comprehensive assessment of transit service effectiveness (productivity) and efficiency. Proposed analysis for routes/segments and service days/times of day will include:

- Service productivity and financial performance for comparison with CMRTA Route Performance standards;
- Boardings, alightings, and passenger loads by stop, trip, time of day, and service day, as available;
- Service utilization through passenger mile and seat mile analysis;
- Service quality assessment including schedule adherence, average customer wait times, customer perceived loads, and average operating speeds; and
- TransCad or ArcView GIS area and sub-area maps depicting the above route/segment and service day/time of day data as well as service frequencies to assist the team and staff in assessing network performance for the market analysis work in Task 3.3.2.

PB will also review the following for CMRTA and DART:

- Staffing levels and costs;
- Operating practices;
- Maintenance practices, including transit vehicles, bus stops and bus stop amenities, and transfer points/centers;
- Fare practices and policies, including fare revenues, charter and advertising revenues; and
- Marketing program and practices. The marketing program review will include not only daily operations but special events as well. The review will assess promotion of bus advertising (exterior and interior) and charter activity.

Task 3.3.2 Market Analysis and Identification of Growth Areas

To optimize current operations and service expansion, PB will perform a market analysis in order to determine areas where new services could be provided and/or where existing services should be improved. Sources of data for this task include, but are not limited to, Census data, current transit patronage, and population and employment forecasts.

Market Segmentation

With the advent of GIS, the opportunities to learn more about the market conditions that affect mobility choice has greatly expanded. A variety of data would be utilized, including Census 2000, employment, school, commercial, and land use data to assess the market conditions for CMRTA bus transit. The GIS

analysis is adjusted to match the available data and geography and any special market segment needs and would include the following at a minimum:

- Population and employment density distributed over land use geography;
- Transit dependency using household incomes and vehicle ownership levels;
- Disabled concentrations (origins & destinations);
- Senior concentrations (origins & destinations);
- Student concentrations (origins & destinations);
- Residential transit orientation using a consolidated index of transit potential;
- Commute travel market and relative transit use (i.e., “how do we get people to/from work,” including potential for reverse commute);
- Travel times for key destinations; and
- Employment levels and densities by type.

The key objective of this subtask is to begin to identify the connections between underlying market conditions and the opportunities for increased CMRTA transit service success. Besides the extensive mapping and findings, a set of target market opportunities will be identified to help guide the development of the transit plan.

Current and Future Travel Patterns

While the previous subtask focused on the intensity of origins and destinations for transit opportunities, this subtask looks at the travel patterns to identify both the connections and volume of travel flows throughout the service area. Current and future travel model projections will be used to identify major work and non-work travel patterns within, from, and to areas within bus service area using GIS. This analysis will also determine whether major trip patterns in the study area are served by transit and at what capacity, and if not, whether they could realistically be served.

Task 3.3.3 Service Optimization and Efficiency Analysis

PB will identify actions needed to ensure service delivery efficiency, service reliability, and predictability meet CMRTA standards based on the evaluation and “best practices” in route design, fare policies, and marketing from areas throughout the United States that are highly regarded for transportation/land use decision-making.

Task 3.4 Development Trends Analysis

PB will identify development trends and forces within and outside the County including but not limited to land use and demographics that impact transportation systems within the County. Analysis of outside forces will include the impacts of adjacent local government development regulations and commuting traffic to/from outside the County.

Land development regulations and enabling legislation will be evaluated to determine local governments’ abilities to entertain the adoption of regulations that would further encourage intelligent use of the transportation network including but not limited to:

- Performance standards;

- Adequate facilities ordinances;
- Public/private cost-sharing;
- Right-of-way preservation;
- Transit “friendly” requirements; and
- Transfer of development rights.

Task 3.5 Environmental Constraints Analysis

Existing social, economic, and natural conditions will be assessed through established databases available through local, state, and federal sources. These databases include, but are not limited to: U.S. Bureau of the Census, National Wetlands Inventory, Department of Health and Environmental Control information, and University of South Carolina GIS information. All information will be built into a GIS database that will be provided to the County for future use.

Generalized information regarding natural conditions will be incorporated through GIS into a constraints map. This map will depict the general location of sensitive resources that should not be compromised or “destroyed” by future growth of the built environment. Information concerning the natural environment will be presented as a “big picture” of Richland County.

Social and economic conditions will be examined at a closer level than the natural environment. Census data will be used as a “starting point.” However, various local agencies and community organizations will also be contacted to provide more in-depth detail on populations that are underserved or not served by the existing transportation network (i.e., these populations often consist of minorities, low-income, elderly, and handicapped). Social justice for these populations will be considered throughout the LRTP process.

Existing and planned economic resources/areas will also be identified and evaluated as to the transportation needs of both the companies and their workers. Access to freight and highways will be addressed in light of the overall transportation network. General access to work, especially for larger corporations and business parks will also be addressed.

Quality of life issues, especially air quality issues will be examined. Transportation recommendations will be examined in light of recent Environmental Protection Agency guidance for air quality performance standards. Green vehicles and opportunities for fuel efficiency can also be examined to conform with Richland County’s Ozone Standard Early Action Plan Compact.

Task Deliverables:

- Technical Memorandum No. 2: Existing Transportation Network Analysis

Task 4 Identify Alternatives

PB will develop alternative strategies for meeting short-, medium, and long-term transportation needs. Specifics on alternative development are outlined in the following sections.

Task 4.1 Greenways / Pedestrian

PB will develop a bicycle and pedestrian facility and strategy plan for the County. The plan will identify existing and potential rights-of-way for bicycle and pedestrian accommodations (both on- and off-road), as well as strategies to promote use of such a system. PB will use the COATS Bike and Pedestrian Pathways Plan as a guiding document, but will take that plan to the “next level” by applying a more detailed look at the County proper.

PB will develop strategies to guide future planning, development, and implementation of bikeway and pedestrian facilities. The goal of this task is to develop a synergy between the recommendations of the LRTP and the policies of agencies that are responsible for roadway design, construction, and maintenance. Such will include but not be limited to the following:

- Policy recommendations that influence the accommodation of bicyclists and pedestrians on all new and improved roadways;
- Policy recommendations pertaining to the retrofitting of existing roadways to accommodate pedestrians and bicyclists;
- Policy recommendations that address access requirements for bridges and other potential physical barriers; and
- Strategies for coordinating the roles and responsibilities of various governmental agencies for both implementing the plan and encouraging active lifestyles (i.e., bicycle and pedestrian modes of travel).

Task 4.2 Vehicular / Roadways

Alternative roadway, bridge, and intersection/interchange improvements will be developed to meet future needs based on analyses conducted in Task 3.2. These initial alternatives will include improvement/expansion of existing roadways, new location roadways, ridesharing, accommodation of freight, system management and maintenance, travel demand management strategies, intelligent transportation system (ITS) improvements, system connectivity, and access management. Considerations will be given to the design of the roadway network, and its interaction with land use.

Task 4.3 Public Transit

PB will develop a range of potential transit alternatives for the Richland County service area that are both more effective at increasing ridership and more efficient in using operating resources. The results of the market and service analysis work, together with sub-committee and public input, will provide guidance into the development of service alternatives. The transit alternatives also will respond to future growth areas and opportunities for enhancements such as express services, HOV operations, and park-and-ride lots.

The alternatives for evaluation will cover the following areas:

- Transit governance, ownership, and legislation;
- Changes in the management contract, with an emphasis on service operations and cost;
- Transfer locations and passenger facilities;
- Staffing levels and management and administrative costs;
- Operating practices;
- Maintenance practices; and
- Marketing program, including special event and regular program marketing, bus advertising, and charter opportunities.

Task 4.4 Land Use Controls

Alternative solutions will be developed that encourage projects that reduce modal conflicts (i.e., conflicts between pedestrians and automobiles, conflicts between bicycles and pedestrians, etc.), while increasing mobility, accessibility, and safety for all modes. This may involve the implementation of enhanced zoning requirements, design guidelines, off-site improvement standards, or other passive/demand-side methods to improve the character of the County, maximize the performance of the existing transportation network, and delay/regulate costly infrastructure improvements. Additionally, specific attention will be focused on the encouragement of innovative development controls, appropriate and balanced roadway configurations, and the connection between these.

Task Deliverables:

- Technical Memorandum No. 3: Preliminary Alternatives

Task 5 Evaluate Alternatives

Each Commission subcommittee (i.e., greenways and pedestrian, vehicular travel/roadways, and public transit) will identify performance measures and evaluation criteria that will be utilized to measure the relative merits of each alternative. A matrix will be developed for each of the three focus areas showing evaluation criteria and project name. Each project will be given a score for each criterion. Based on input from Richland County staff, the Transportation Study Commission, and the public, each criterion will be given a weighted value depending on its importance to the mobility, accessibility, and safety of the overall transportation network. A score for each criterion will be calculated taking the project's rating for that criterion times the weighted factor for that criterion. A total score will emerge for the project when the scores for all criteria are added together. Projects will be ranked based on these total scores (i.e., higher the score, higher the ranking). Separate criteria/rankings will be developed for projects classified as greenways/pedestrian, vehicular/roadways, and transit to ensure that a mixture of modes is achieved in the final plan.

When developing evaluation criteria it is an excellent opportunity to incorporate more progressive or innovative transportation planning techniques and measurement systems. Innovative techniques that could be incorporated include:

- **Context Sensitive Criteria** – criteria would encourage the development of projects that are integrated into the existing environment in a sensitive manner. Such criteria would produce projects that create a lesser impact on environmental, social, and cultural resources.
- **Access Management Criteria** – criteria would encourage projects that reduce modal conflicts (i.e., conflicts between pedestrians and automobiles, conflicts between bicycles and pedestrians, etc.) while increasing mobility, accessibility, and safety for all modes.
- **Land Use and Transportation Connection Criteria** – criteria would encourage projects that demonstrate an understanding that the quality of a transportation corridor is undeniably linked to the land uses within the corridor and the transportation components that facilitate the connections in, around, and through the corridor.
- **Community Character Criteria** – criteria would encourage projects that preserve and enhance the unique and distinct elements of the community in which they are being implemented. Such enhancement of community identity could serve as a method to ensure that transportation projects benefit low-income and minority populations.

Strategies must not only be effective, but also be appropriate and proportional to needs. The alternatives will be reviewed and revised with input from the Transportation Study Commission and the public. Preferred alternatives will be selected by the Commission.

Task Deliverables:

- Technical Memorandum No. 4: Alternatives Evaluation

Task 6 Recommendations

In all likelihood, Task 5 will develop a list of potential projects that exceeds the dollars available to implement such projects. Because of this reality, a system of prioritization and phasing will be devised. Based on recommendations identified through the evaluation process, PB will create a multimodal plan complete with short-, medium-, and long-term actions. Short-term actions will be fiscally constrained, while medium- and long-term actions will look at the “bigger picture” without budget constraints. The final plan will include development of policies and guidelines for the implementation of the plan.

Realizing that the efficient service of multiple modes of travel will best benefit mobility, access, and safety throughout the County, PB will ensure that the plan is multimodal in nature. In addition, this effort will strive to provide proportional equality to all modes. Specifics of recommendations are outlined in the following sections.

Task 6.1 Greenways / Pedestrians

Recommended bicycle and pedestrian routes (on- and off-road) and strategies for encouraging the use of such routes will be included. Such routes will encompass trails, greenways, sidewalks, bicycle lanes, shared-use pathways, shared travel lanes, and shoulders. Additionally, site-specific recommendations may include implementation of curb ramps, crosswalks, pedestrian signals, etc. Strategies will include methods to encourage active lifestyles, enhance the perception of bicycling and walking, and increase non-motorized travel in the County. The overarching goal of each of the individual bike and pedestrian recommendations will be to further the goal of realizing a complete, connected, and well-utilized system. Cost estimates and prioritization will be included for all recommendations.

Task 6.2 Vehicular / Roadways

Conceptual roadway improvement plans and associated order-of-magnitude cost estimates and prioritization will be developed. The level of detail for the conceptual plans will be limited to that required to sufficiently model the potential benefits, identify the scope of the recommendation, and effectively communicate project intent to the public.

Task 6.3 Public Transit

Recommendations will include complete service parameters for each route or service by day of the week, including service spans, frequencies by time period, desired timed transfers, vehicle requirements by time period, service hours and miles, roundtrip running times, trip distances, and interlining combinations. GIS maps and alignment descriptions of all route alignment changes and changes in operating policies that are required to implement the service will be identified. Also to be included are passenger facility improvements, fleet requirements, and other capital needs, as well as estimated ridership, revenue, and costs for both operations and capital improvements. Particular attention will be given to the equity of “who pays for what” and what the return is on that investment.

PB will recommend changes in transit governance and operations. Short-term recommendations would be based on existing state law and currently available models in South Carolina for transit provision. Medium- and long-term implementation recommendations would be based on changes in State law and incorporate relevant practices used from around the country. These recommendations would be designed to optimize operations and would cover:

- Transit governance, ownership, and legislation;
- Changes in the management contract, with an emphasis on service operations and cost;
- Transfer locations and passenger facilities;
- Staffing levels and management and administrative costs;
- Operating practices;
- Maintenance practices; and
- Marketing program, including special event and regular program marketing, bus advertising, and charter opportunities.

Task 6.4 Land Use Controls

Land use recommendations will primarily focus on recommended changes to the ordinances and regulations of Richland County and local governments within and directly adjacent to the County. Recommendations will encourage ordinances and regulations that result in built development that is sensitive to the effective use and functionality of the transportation network.

Task Deliverables:

- Technical Memorandum No. 5: Recommendations

Task 7 Identification of Funding Options

Resources are limited at all levels of government, and financial planning is not only applicable in the long range planning process, but responsible as well. PB will develop a financial plan for the implementation of the LRTP. This will involve forecasting future revenues from existing sources and programs, and estimating how alternative revenue sources and financing strategies can be utilized to meet the County's transportation capital and operating needs.

Revenue forecasts will be developed for a thirty (30) year period beginning with the year 2009 and for every fifth year thereafter through 2039. Forecasts will be developed for individual funding categories including roadway, transit, freight, and intermodal resources provided by FHWA, FTA, SCDOT, local matches, dedicated funding sources, and internally generated revenues. Specific to transit, PB will recommend fare setting policies and an associated methodology for passenger charges, promotional and special fees, as appropriate.

PB will work with Richland County on the methodology to develop forecasts of alternative revenue sources and financing strategies, which may include new dedicated funding sources (e.g., Special Purpose Local Option Sales Tax (SPLOST)), leveraging of other funding sources (e.g., State Infrastructure Bank (SIB)), private sector partnering, and user fees.

In addition, PB will review funding mechanisms utilized in other areas within South Carolina and throughout the United States. Alternative innovative funding sources will be identified through this assessment of "best practices." Identified funding sources will be evaluated based on feasibility of implementation and probable public support. In all cases, for a new funding source to be considered worthy of utilization in the LRTP, a reasonable and timely strategy for securing the additional revenue must be apparent.

Task Deliverables:

- Technical Memorandum No. 6: Funding Options

Task 8 Final Documentation

A draft version of the plan will be presented to the Transportation Study Commission and the public for review before the plan is finalized. The plan will include illustrations of recommended roadway cross sections, planning-level design concepts, and any other facilities for which a particular design is preferred.

Task Deliverables:

- Draft LRTP
- Final LRTP

2008 Richland-Lexington Lawnmower Exchange

Richland and Lexington Counties and DHEC-BAQ are planning a lawnmower exchange event to be held in 2008.

A planning meeting was held on September 11, 2007. The target date for the event is the Spring of 2008.

The 2008 Lawn Mower Exchange will feature the addition of the City of Columbia as a key sponsor.

VPSI proposes "turnkey" van pool service

VPSI has met with the executive directors of public transportation systems in Columbia and Greenville. While transportation planners and transit operators like the van pool program they are dealing with financial problems with the bus system that hopefully will be resolved soon.

Columbia Bike and Pedestrian Week

Columbia, the Central Midlands Council of Governments and the Palmetto Cycling Coalition sponsored a Columbia Bike and Pedestrian Week October 8-12th.

Several nationally-recognized speakers participated in the event. Bob Chauncey of the National Center on Biking and Walking spoke to DHEC employees on Thursday, October 11th at 2 pm in the first floor conference room of the Heritage Building. A walk in the surrounding neighborhood, to discuss how walkable and bike friendly it is, followed the presentation.

Representatives also made a presentation to the Greenways/Bike/Pedestrian Subcommittee of the Richland County Transportation Study Commission during Bike and Pedestrian Week.

Electronics recycling – City of Columbia

The drop-off location is at the facility, 2910 Colonial Drive (off of Slighs Road behind the city's First Tee Golf Center.) Items are accepted between 9:30 a.m. and 3:30 p.m. Monday, Tuesday, Thursday and Friday. No exceptions. Proof of residency is required.

The city of Columbia reminded residents they can drop off unwanted computers, monitors, TVs, VCRs, DVD players, stereo equipment, cell phones, digital cameras and other electronics at the city's Public Works facility to be recycled.

Ridge View High ride-sharing program

Alyssa Richardson a 17-year-old senior at Ridge View High who attended a leadership training program at Furman over the summer developed a ride-sharing program.

The ride-sharing program was set to kick off Nov. 2.

First LEED certified green building in Columbia's city center

The offices of Watson Tate Savory Architects, in the former Unity Life Building, last month received Leadership in Energy and Environmental Design, or LEED, Certification from the U.S. Green Building Council.

All of the architects who work for the firm are LEED-accredited, except one who is scheduled to take the certification exam soon.

Green Building in Columbia

The green building council for the Home Builders Association of Greater Columbia will release details on a new set of green building standards they are putting into place. The standards will focus on elements such as recycling during the building process, building more energy-efficient homes and improving indoor air quality. An education blitz for builders already had started and will continue over the next six months, Bostic said, to help Columbia-area builders make the shift.

Several projects are in the works that will bring environmentally friendly living to the Columbia area including several EarthCraft homes, the Vsion condominiums on Lady Street in downtown Columbia, and the Lofts at Printers Square at Lady and Pulaski streets.

Comments on EPA's Proposed Ozone Standard

Richland County Council voted to make comments regarding the proposed 8-hour Ozone standard to EPA in the form of a resolution. The resolution also encourages EPA to allow local areas the opportunity to implement early action measures in lieu of nonattainment designations which carry prescriptive requirements.

Resolution passed and submitted as comments to the proposed 8-hour Ozone Standard.

The Town of Irmo, a portion of which is in Richland County, also submitted comments to EPA.

Walk to School Day

South Carolina embraced Walk to School Day festivities.

First lady Jenny Sanford and other guests joined hundreds of children from neighborhoods in the Piney Grove Road area to walk to Leaphart Elementary School in Lexington-Richland 5 on October 3, 2007. Richland and Lexington county sheriff's deputies were alerted that more children would be walking to schools.

"Safe Routes to School" grant

SCDOT approved funding to develop comprehensive bicycle and pedestrian programs as part of the "Safe Routes to School Program." Partnering with SCDOT, local governments, parents, local law enforcement and educators, each school and community will develop a plan that encompasses both infrastructure and non-infrastructure components. One of the purposes outlined in the funding legislation for this program includes facilitating the planning, development, and implementation of projects and activities that will reduce traffic congestions, fuel consumption and air pollution in the vicinity of primary and middle schools.

Selected schools receive up to \$200,00.00.

Rosewood Elementary School in Richland County was awarded the "Safe Routes to School" grant for the 2007 funding cycle.

City of Columbia's 2008 Comprehensive Plan

The City of Columbia is revising/drafting a new edition of the 2008 Comprehensive Plan to be completed by November 2008.

A meeting was held on August 29, 2007 to discuss and address natural resource conservation in planning for the City of Columbia's future growth. Guidance was requested in planning for wise use and protection of water, air, soil, wildlife, habitat, biodiversity and other natural resources. Representatives from SC DHEC participated in the discussion.

Energy Conservation

Conservation on Energy, a Town Hall meeting was hosted by Conoco Phillips and the USC Office of Research and Health Statistics. The panelist represented organizations active in renewable energy and energy efficiency, business, industry as well as the environment and conservation.

John Litton, Assistant Bureau Chief for Air Quality, SCDHEC was among the panelists.

Green Business Council

The Green Business Council is a joint effort between the City of Columbia and the Homebuilders Association. The council will work to educate the public and constructions companies about what makes a green home green. The council will offer home builders a process by which they can certify their houses as green.

See <http://www.coccpac.com/?pageid=12>.

Columbia Green Business Initiative

The City of Columbia's Climate Protection Committee has drawn up sustainability protocol for businesses to earn "green" certification.

The committee sponsored a successful Green Business Summit on September 24, 2007 that focused on waste- and emission-reducing best management practices. The Summit kicked off an application process whereby businesses follow step by step implementation of practices. Completion earns the certification decal and public listing.

A green business "boot camp" was also held on November 29, 2007.

See <http://www.coccpac.com/?pageid=12>.

Columbia Climate Protection Committee

The Columbia Climate Protection Committee continues to meet on a monthly basis. At the October 2007 monthly meeting, the attention was focused on reducing transportation emissions in the Central Midlands area. Norman Whitaker, Executive Director of the Central Midlands Council of Governments, attended the November monthly meeting. Joe Cronin from Richland County also provided an update regarding the Richland County Transportation Study. The CPAC committee is interested as to how it can play a role in assisting local efforts to implement transportation choices that consider air quality goals.

Support efforts of The Climate Registry

The Climate Registry, established by states, tribes and provinces in North America as a mechanism to measure greenhouse gas (GHG) emissions consistently across industry sectors and borders. The Climate Registry encourages voluntary early actions to increase energy efficiency and decrease GHG emissions. The Climate Reigstry accountying infrastructure supports a wide variety of programs that reduce GHG emissions including voluntary, regulatory and market-based programs.

A meeting was held on October 4, 2007. Joel Levin provided an overview of the The Climate Registry. Mr. Levin is the California Climate Action Registry's Vice

President for Business Development. He is responsible for educating participants from all economic sections and regions to register and certify their greenhouse gas emissions.

Representatives from state and local governments, including Lexington County, as well as business and industry attended the discussion.

South Carolina Department of Education - School Bus Initiative

A plug-in hybrid electric bus with a 2007 emission compliant diesel engine fueled with ultra-low sulfur diesel (soon to be ultra low sulfur 20% biodiesel) to be placed in Richland County.

Draft press release September 27, 2007

Press conference held on October 11, 2007

Electric Cooperatives investing in conservation

South Carolina's electric cooperatives plan a multimillion dollar effort to conserve energy by encouraging their customers to use solar power and more efficient light bulbs, and to help reduce emissions from coal-fired power plants.

The Electric Cooperatives of South Carolina Inc. on Monday held briefings around the state during which they announced they plan to invest as much as \$10 million a year in the efforts.

Two major studies were commissioned by electric cooperatives in South Carolina. The first study explored the potential in South Carolina for producing power from renewable resources. The second study researched the amount of energy that cooperatives and their members could save by using energy efficiency measures.

Net Metering

Starting in October, Santee Cooper will buy excess power from customers who make electricity with solar panels and other generators.

Under the plan approved August 24th, the state-owned utility will pay or credit between 3.2 cents and 5.7 cents for every kilowatt-hour that is fed back onto its grid from the 160,000 or so homes that buy Santee Cooper power. The company currently charges about 7 cents for every kilowatt-hour of electricity.

Scana, Duke, Progress team up to sell green power

Scana Corp., Duke Energy Corp. and Progress Energy Inc. will start selling "green power" to their South Carolina customers early next year (2008) through a nonprofit

group established by the state.

The three utilities will market the renewable energy to the 1.3 million homes and businesses that they serve in the state, while the newly formed organization, dubbed Palmetto Clean Energy, or PaCE, will buy the power from small Southeastern companies that generate electricity with wind turbines, solar panels and landfill gas.

Hydrogen Fueling Station and Fuel Cell Bus demonstration

A hydrogen fueling station to service a fuel-cell bus that will debut in Columbia next year and a fleet of hydrogen-powered cars the following year could be under construction soon near the city's Canal Water Plant.

The fueling station needs to be running by next summer when a hybrid fuel cell-electric bus is expected to start rolling on Columbia's streets for a year.

Recycling at Williams-Brice Stadium

PalmettoPride and the University of South Carolina volunteers helped Gamecock fans recycle plastic bottles at Williams-Brice Stadium Saturday night, September 1st.

Volunteers were at the game at 4:30 p.m - 2.5 hours before the 7 p.m. start. Volunteers paired off to staff recycling bins throughout the stadium, encouraging fans to recycle and make sure that only recyclables were placed in the bins.

SC Biodiesel Fuel Quality Symposium

On September 19, 2007 from 10:00 a.m. to 4:00 p.m. at the Columbia Metropolitan Convention Center, Richland Room located at 1101 Lincoln Street in Columbia, the South Carolina Biodiesel Fuel Quality Symposium took an in-depth look at the latest regulatory, environmental, and technical developments impacting the fastest-growing renewable fuel industry in South Carolina.

The event's technical program was designed to provide participants with a basic understanding of how biodiesel is produced, fuel management, fuel quality, component compatibility, regulatory issues, and incentives.

Bi-Lo to promote green grocery bags

Bi-Lo is piloting its green bag effort in about 80 of its more than 220 stores here and in Georgia and Tennessee.

Bi-Lo sells two versions of the green bags: a woven recycled plastic for 99 cents and a canvas one, priced at \$2.99.

Store management at the Columbia Super Bi-Lo said each time shoppers use any reusable bag, they receive a 5-cent per bag credit when they check out each shopping trip.

Gervais Street Connector

The Gervais Street Connector is the smallest portion of the Three Rivers Greenway park that eventually will stretch 13 miles on both sides of the Congaree and Saluda rivers. The \$640,000, approximately two-block-long trail will cross under the spans of the Gervais Street bridge across from the State Museum and will be the linchpin of greenway parks north and south of Gervais.

Columbia, West Columbia and Cayce have completed about 7.5 miles of the Three Rivers Greenway so far. The link should be completed in about six months. The city also is gearing up to build three more sections:

- CanalFront, a \$7 million section and the most “urban” of all the greenway sections.
- The Esplanade, a \$4 million section that will provide a wide, formal walkway on the bluff above the Columbia Canal at the former state prison site.
- The Saluda Riverwalk, a long stretch of trails fronting Riverbanks Zoo and the Mill Race Rapids on the northeast bank of the Saluda River. It also will include a bridge over the Saluda at the I-20 exit ramp at I-126, linking the Columbia section with a short section of river walk in West Columbia.

The Cayce Riverwalk portion of the Three Rivers Greenway will sprout a new half-mile extension this fall. Construction began in early September on the \$324,000 section connecting the Cayce Locks with the Riverland Park subdivision. Work should be done in late September or early October.

Balancing Growth with Environmental Integrity in Urban Development

A symposium for developers, engineers, natural resource conservationists and planners sponsored by the SC Soil and Water Conservation Society.

This symposium, to be held in December 2007, will teach developers and planners

about the importance and benefits of developing a conservation footprint early in the planning stages for the ultimate goal of protecting environmental quality.

Bull Street Partners Carpool Group

Bull Street Partners Carpool Group provides employees of the Bull Street area offices of three State agencies (Department of Health and Environmental Control, Department of Mental Health and Department of Social Services) an opportunity to form carpools, thereby saving money and fuel, reducing pollution and reducing the stress of commuting.

The SCDHEC - Bureau of Air Quality sent an electronic mail message to contacts in the three state agencies located at the corner of Bull and Harden Streets. The e-mail encourages people interested in regular carpooling, occasional carpooling, or people who are willing to provide a ride home to sign up. The emails have very gone out to two of the three agencies, the third agency email will be sent out shortly. Seven people have signed up to date, and feedback from the agencies about the program has been very positive. 'Goody Bags' of air quality promotional materials are being provided to people from DHEC's sister agencies who sign up.

Richland County Energy Audit

Richland County Council will engage an energy auditing firm to perform an energy audit of county buildings and facilities. The consultant will recommend upgrades and retrofits to county facilities in order to maximize energy efficiency. The cost of the upgrades will be financed by the energy savings.

A vendor has been selected. The Procurement Department is currently in negotiations with the vendor, and a final contract will be brought back to council for approval in early 2008.

Conservation Easements

Each year, Richland County Council appropriates .5 mill to the Conservation Commission for the purpose of promoting conservation in Richland County. The Conservation Commission and Council use a portion of these funds to secure conservation easements for property in Richland County. These easements ensure the protection of perpetual greenspace for property owners that participate in the conservation easement program.

In the first half of the current fiscal year, the county has used these funds to secure conservation easements for nearly 200 acres of property in the fast-growing northeast and northwest regions of the county.

Richland County America Recycles Day Event

The Richland County Solid Waste Department held a recycling event on Saturday, November 17, 2007 at the Clemson University Extension on Clemson Road in northeastern Richland County.

Over 36,000 lbs of computers and mixed electronics and 10, 000 lbs of tires were recycled as part of the America Recycles Day event. Over 3,000 residents took part in the carnival-like festivities.

Midlands Regional Air Quality Forums

Richland and Lexington Counties have worked with the Central Midlands Council of Governments to bring together counties, municipalities, state agencies and other stakeholders in the region to discuss air quality issues at the regional level.

To date, two forums have been held: June 27, 2007 and November 28, 2007. Each forum was attended by approximately 50 individuals.

A regional forum for county and municipal elected officials is scheduled to take place in January 2008.

Chamber of Commerce Good to Great Environmental Task Force

Richland and Lexington Counties participated in the Chamber of Commerce's Environmental Task Force meeting on September 19, 2007. The task force is one of eight chamber groups that are studying ways to improve quality of life in the Columbia area.

The topics discussed included:

- CPAC Climate Conference (Hon. Anne Sinclair, City of Columbia)
- Update on recent activities including EPA proposed Ozone Changes
- County Environmental Updates (Joe Cronin, Richland County / Synithia Williams – Lexington County)
- CPAC Green Business Initiative (Jane Hiller)
- Gills Creek Watershed Improvement (Elliott Powell)

Earlwood Baptist Church sponsored a Car Care Event

Earlwood Baptist Church held a Car Care Day on November 17, 2007. Flyers handed out at the event promoted "Save Money. Save Fuel, and reduce global warming emissions from your car".

Cool Counties Resolution

On Tuesday December 4th, Richland County Council adopted the "Cool Counties" Resolution. As part of this resolution, the county will develop an implementation plan to reduce greenhouse emissions. This plan will be developed and implemented in 2008.

Enclosure 4

December 2007

FINAL EAC Progress Report Document Statewide EAC Activities



Enclosure 4
South Carolina's 8-hour Ozone Early Action Compact
Statewide EAC Activities
December 2007

A Notice of Drafting (NOD) was published in the South Carolina *State Register* on August 23, 2002, expressing our desire to pursue an early action plan that provides for ambient air in South Carolina that meets the more restrictive federal standard prior to the deadline(s). The NOD requested those interested in participating in an early action plan for ground-level ozone provide that interest in writing to the Department. Due to the timing of events and the requirements of the State's Administrative Procedures Act, a second drafting notice was published in the *State Register* on April 25, 2003, the purpose of which was to extend the comment period.

The South Carolina Department of Health and Environmental Control (Department) established a large stakeholder group consisting of federal, state and local government officials, environmental groups, citizens groups, business, industry and private citizens. On August 26, 2002, correspondence was issued to the stakeholders seeking active participation in the development of an Early Action Plan (EAP) regarding ground level ozone reduction in South Carolina and providing a list of informational forums scheduled throughout the state. Surveys were a part of the informational forum and included an opportunity for attendees to request active participation in the EAP process. Copies of sign-in sheets, meeting agendas, and survey forms were included as Attachment 4 of the June 2003 Progress Report.

Local stakeholder participation was obtained through the involvement of the county administrators and/or county councils. On November 12, 2002, the South Carolina Association of Counties issued correspondence to each county council chairman and county chief administrative officer stating support of each county's participation in South Carolina's 8-hour Ozone Early Action Compact (EAC). Also on November 12, 2002, the Department issued correspondence to county administrators seeking active stakeholders for participating in the EAC. This correspondence included a working draft copy of the EAC. As a result, Department staff participated in numerous county council meetings and other discussions (telephone and electronic mail) with county officials seeking local participation in the EAP process. On December 12, 2002, Department staff presented at the yearly meeting of county administrators sponsored by the South Carolina Association of Counties. At the request of several counties and the Association of Counties, the Department again issued correspondence to the county's seeking participation.

On December 20, 2002, the Department submitted to EPA the Early Action Compacts received as of that date, signed by the respective local participant and DHEC representative, R. Lewis Shaw, Deputy Commissioner for Environmental Quality Control. On December 27, 2002 and again on December 31, 2002, the Department submitted additional compacts received from local participants. As of December 31,

2002, forty-five of the forty-six counties in South Carolina elected to become active stakeholders in the South Carolina Early Action process.

One condition set by EPA Region 4 for York, Chester, and Lancaster counties participation in the EAC, requires South Carolina continue to actively participate in the Charlotte Region Integrated Air Quality Management Pilot Project. This project has since been renamed “Sustainable Environment for Quality of Life” (SEQL). In addition to the milestones established in the Early Action Compact, South Carolina and North Carolina were required to develop a specific memorandum of understanding (MOU) detailing how this requirement will be met. On March 14, 2003, Mr. R. Lewis Shaw, Deputy Commissioner for Environmental Quality Control at the Department and Mr. William G. Ross, Jr., Secretary for the North Carolina Department of Environmental and Natural Resources signed the MOU, included as Attachment 8 of the June 2003 Progress Report.

The Department continues to be an active partner in the SEQL project. As a part of the SEQL project, the Catawba Council of Government (COG) partnered with the Department and other stakeholder groups to compile sample ordinance language, policies, best management practices (BMPs) and program guidance for the development and implementation of SEQL action items geared to the local governments within the SEQL project area. This information should prove helpful to local governments in their 8-hour ozone early action efforts. In December 2004, a CD with these documents was provided to all participating areas. The information is also available on the Department’s website.

South Carolina was not required to enter into a formal agreement with the state of Georgia in regards to emission reduction strategies for the Upper and Lower Savannah areas. However, representatives from the state of Georgia attended the Lower Savannah Council of Government meeting held on February 6, 2003. Representatives from EPA also attended this meeting. In addition, Department staff attended a meeting held on February 21, 2003, in Augusta, Georgia, with local and state government officials from Georgia and South Carolina and EPA to discuss the impact of the early action process and emission reduction strategies for that area.

In 2006, South Carolina has joined forces with the State of Georgia to address air quality issues in the Augusta-Aiken-Edgefield area. While the area is attaining the 8-hour ozone standard there is much concern over the fine particulate matter standard. A stakeholder group consisting of representatives from the Georgia and South Carolina state environmental agencies as well as the Environmental Protection Agency Region 4 office, local government, industry and concerned citizens is being formed. The focus of this stakeholder group will be emission reduction efforts to address air quality. These efforts should help the area maintain the ozone attainment status as well as address fine particulate matter concerns. For additional information on the stakeholder meetings refer to the Aiken and Edgefield local progress reports.

In February 2007 another stakeholder group was formed in the Town of Irmo located in Lexington County. While Lexington County is currently attaining the 8-hour ozone standard, there is concern over the fine particulate matter standard. The goal of this effort is to involve local stakeholders in reviewing local monitoring data and surrounding activities in an effort to implement strategies to reduce emissions. The stakeholder group includes local industry, local government, and recreation and school officials and was expanded to include neighboring Richland County as well as the Central Midlands Council of Governments (COG). Other counties and local governments within the Central Midlands COG will be invited to participate. For additional information on the stakeholder efforts refer to the Lexington and Richland County local progress reports.

The Department held a public meeting on the Early Action State Implementation Plan (SIP) submittal on August 18, 2004. The meeting was held in Columbia and broadcast around the state at local Department Environmental Quality Control offices to allow participation from all over the state. The Draft Early Action SIP was published in the *State Register* on October 22, 2004, and the public hearing was held on November 22, 2004. As deemed appropriate, based on comments presented during the public comment period, the Department finalized the Early Action SIP and submitted it to EPA on December 29, 2004. A complete copy of the submittal may be found at http://www.scdhec.gov/eqc/baq/html/eap_sip.html.

The modeling analysis completed as a part of the EAC SIP submittal demonstrates that all monitors in South Carolina will be attaining the 8-hour standard without the inclusion of measures beyond the national and regional programs already finalized. The Protocol for Early Action Compacts endorsed by EPA states that “after all Federal and State controls that have been or will be implemented by December 31, 2007, are accounted for in the modeling, the local area will identify additional local controls, as necessary, to demonstrate attainment of the 8-hour ozone standard on or before December 31, 2007.”

While the early action process was developed to provide local areas the option to attain the 8-hour ozone standard by December 31, 2007, and obtain cleaner air sooner than federally mandated by implementing emission reduction strategies that make sense for their respective area, South Carolina also realized that statewide emission reduction efforts would be necessary to achieve and maintain the 8-hour ozone standard.

Among the key control strategies that were developed as part of the EAC process, were revisions to state wide regulations for the purpose of providing additional reductions in ozone precursors. R.61-62.5 Standard 5.2, Control of Oxides of Nitrogen, and R.61-62.2, Prohibition of Open Burning, were published in the South Carolina *State Register* on June 25, 2004, and became effective upon publication. For more information on these regulations refer to Number 4 – Regulatory Initiatives of the State Activities enclosure.

While information pertaining to the amount of NO_x and VOC reductions that are expected as a result of these regulations is available, it is important to note that modeling indicates that all monitors will be attaining the 8-hour standard by 2007 even without these additional measures. However, the reductions from these regulations are

quantifiable, permanent and will ensure that South Carolina obtains cleaner air sooner and helps ensure continued maintenance of the 8-hour ozone standard in the future.

Another significant control strategy that was developed through this process is the voluntary commitments that the Department has negotiated with several of the state's largest existing industrial sources to reduce and/or limit their NO_x emissions. These negotiations were the direct result of the EAC process as are the NO_x reductions that will result from them. These voluntary commitments are described in more detail in Number 8 – Other Point Source Reductions of the State Activities enclosure.

The Department believes that the sum of all these efforts will have a very real and positive impact on the health and environment of South Carolina. The EAC process has allowed the state of South Carolina to achieve reductions in ozone precursors from a variety of sources that otherwise would not have occurred and this was all done on a timeframe that was sooner than what would be required through the traditional nonattainment designation process. In addition, as a result of the local EAC plans and local efforts, awareness of air quality issues has been raised to a level that would not have been possible without the EAC process. People from around the state, who have never previously had any significant exposure to air quality issues, have participated in the EAC process and helped make decisions about improving air quality. This is perhaps, above all else, the reason why the South Carolina Wildlife Federation chose to honor the “SCDHEC Early Action Compact SIP” with their 2005 South Carolina Wildlife Federation Air Conservation Award, an award that has only been bestowed six times since 1970 (see Appendix 15 of the SC EAC SIP).

Beginning with June 2003 to present, this report represents the eighth bi-annual progress report. In addition, local plans identified the emission reduction measures under consideration by the participating county. The South Carolina EAC SIP was submitted December 2004 and supplemental information to the EAC SIP was submitted on April 20, 2005. Each of these submittals contains information updating local and state measures supporting the EAC process and can be found on the Department's website (<http://www.scdhec.gov/eqc/baq/html/eap.html>).

This document includes highlights of activities in the deferred nonattainment areas as well as statewide activities.

2006 Early Action Compact Summit - Participation in the recent 2006 Early Action Compact (EAC) Summit held in Columbia, South Carolina on August 16-17, 2006 was tremendous. As the first of its kind, it attracted nearly 300 stakeholders from 5 different states including representatives from 24 counties and 7 Councils of Government. Participants included representatives from federal, state and local governments as well as industry representatives, environmental organizations as well as private citizens.

Topics covered included energy conservation, diesel retrofits, land use planning, alternative fuels, commuting options and multi-modal transportation, innovative education and outreach, health impacts/lifestyle and finding the funding. Key speakers

included Bill Wehrum, Acting Assistant Administrator for Air & Radiation, U.S. Environmental Protection Agency, and Mark MacLeod, the Director for Special Projects in Environmental Defense's Climate and Air program working out of the Washington DC office. As has been our experience with the EAC process over the past years, direct involvement by stakeholders is a critical key to overall success with initiatives for improving air quality. The EAC Summit initiative certainly proved this point again. The exchange of ideas, information and interest experienced during the sessions and other opportunities, including breaks and meals was very beneficial.

These benefits will help us all to reach our objective of attainment for the 8 hour ground-level ozone standard in the near future and reinforces a process for addressing other air quality issues. Our over-arching goal of "Cleaner Air Forever" for South Carolina will be achieved through the cooperation and collaboration of the very individuals and organizations that were represented at the EAC Summit.

To expand our outreach to those who did not make it to the EAC Summit we have created a website where electronic copies of the EAC Summit materials can be downloaded. Information on this site includes speaker bios, presentations, additional information, Department staff, registered attendee contact information, list of vendors and contact information, a list of sponsors and event photos.

Emission Reduction Strategies – As a result of the EAC process and the desire to ensure air quality in South Carolina meets the federal standards, the Department has expanded outreach activities to include both ozone and PM_{2.5}. The current focus is to maintain the 8-hour ozone standard through the 2007 Ozone Season, thereby returning the deferred nonattainment areas to attainment and to develop strategies to help reduce emissions that contribute to PM_{2.5} levels. Local governments are being asked to be proactive (stay ahead of the standards); strengthen local measures; and, take action ("Kick things up a Notch"). Myra Reece, Renee Shealy, and John Litton, BAQ Bureau Chief and Assistant Bureau Chiefs, have met with Anderson, Greenville, Spartanburg, Richland and Lexington Counties over the last several months. As a result, work in progress is being recognized. Effort is being made to work with the EAC contacts in all counties to ensure that all activities are being captured for inclusion in future EAC progress reports.

Climate Change Discussions – The Bureau of Air Quality (BAQ) has been engaged in climate change discussions with air agencies in other southeastern states including North Carolina, South Carolina, Georgia, Tennessee and, more recently, Virginia since early 2006. Discussions between the states have focused on climate change activities in the respective states, particularly North Carolina's Legislative Commission and Advisory Committee processes. BAQ has distributed some internal outreach with regard to climate change and is incorporating climate change into outreach materials and presentations. BAQ's Education and Outreach Section has responded to numerous requests from teachers for classroom visits addressing climate change, and has addressed similar requests that have been received from community groups.

State Planning for Greenhouse Gas Mitigation

On February 16, 2007, Governor Sanford issued an Executive Order creating the Climate, Energy and Commerce Advisory Committee (CECAC). Department staff compiled background materials to include studies, current actions, and a draft list of potential participants that will comprise five technical work groups and the decision-making body, the CECAC. The process will follow the Center for Climate Strategies-facilitated study and adoption of carbon reduction policies. It is anticipated to take a year or more to complete. The first CECAC meeting took place May 3, 2007.

To develop a Climate, Energy, and Commerce Action Plan as directed by the Governor's Executive Order, the CECAC is tasked with completion of the following specific planning recommendations:

1. Review and approval of a current and comprehensive inventory and forecast of greenhouse gas (GHG) emissions in South Carolina from 1990 to 2020;
2. Development and recommendation of a comprehensive set of specific policy recommendations and associated analyses to reduce GHG emissions and enhance energy and economic policy in South Carolina by 2020 and beyond;
3. Development and recommendation of a set of recommended statewide GHG reduction goals and targets for implementation of these actions; and
4. Issuance of recommendations in the form of a final report to the Governor by June 2008.

Governor Sanford's CECAC includes:

Sen. John Courson, South Carolina Senate / Chairman
Dana Beach, Executive Director, South Carolina Coastal Conservation League
Crandall Close Bowles, President and CEO, Springs Mills
Jim Byrd, Deputy Director, Market Services Division, South Carolina
Department of Insurance
Lonnie Carter, President and CEO, Santee Cooper
John Clark, Director, South Carolina Energy Office
Barry Falin, Vice President and General Manager of Carolina Operations, Voridian
Bob Fledderman, Manager, Environment and Regulatory Assurance, MeadWestvaco
John Frampton, Director, South Carolina Dept. of Natural Resources
Reggie Gallant, Vice President, Southern Zone, State Farm
Dr. Paul Gayes, Director, Center for Marine and Wetlands Studies, Coastal Carolina
University
Emerson Gower, VP, Southern Region, Progress Energy Carolinas
Rep. Ben Hagood, South Carolina House of Representatives
Ladd Hall, Vice President and General Manager, Nucor Steel
Rep. Bill Herbkersman, South Carolina House of Representatives
Joe James, CEO, Corporation for Economic Opportunity

Bob King, Deputy Commissioner, South Carolina Department of Health and Environmental Control
E. Bruce Morgan, Mayor, City of Union
Dr. Marcus, Newberry Former Dean, MUSC College of Medicine
Mike Olbrich, Plant Manager, BP Chemical
James E. Rogers, Chairman, President and CEO, Duke Energy Corporation
Bob Scott, President, South Carolina Forestry Association
Lanneau Siegling, Past Chairman, Hospitality Association of South Carolina
David Smalls, President, Walterboro-Colleton Chamber of Commerce
Steve Smith, Executive Director, Southern Alliance for Clean Energy
John Tiencken, Former CEO, Santee Cooper
Bill Timmerman, CEO, SCANA
Sen. Danny Verdin, South Carolina Senate
Hugh Weathers, Commissioner, Department of Agriculture
Johnny Williamson, CEO, South Carolina Soya, LLC
Brad Wyche, Executive Director, Upstate Forever

The Climate Registry

South Carolina joined with 31 other states as a founding member of The Climate Registry (TCR). BAQ staff is setting out a strategy for recruiting participation by regulated and non-regulated entities. On August 3, 2007, BAQ gave a presentation on TCR to the state Chamber of Commerce Technical Committee. About 60 business representatives, including manufacturing, electric utilities, attorneys and consultants attended.

The Climate Registry was established by states, tribes and provinces in North America as a mechanism to measure greenhouse gas (GHG) emissions consistently across industry sectors and borders. The Climate Registry encourages voluntary early actions to increase energy efficiency and decrease GHG emissions. The Climate Registry accounting infrastructure supports a wide variety of programs that reduce GHG emissions including voluntary, regulatory and market-based programs.

On October 4, 2007, Joel Levin, California Climate Action Registry's Vice President for Business Development, provided an overview of the Climate Registry. Mr. Levin is the California Climate Action Registry's Vice President for Business Development. He is responsible for educating participants from all economic sections and regions to register and certify their greenhouse gas emissions. Representatives from state and local governments, including Lexington County, as well as business and industry attended the discussion. Eight businesses nationally have signed Statements of Intent to join the registry as of November 14, 2007, none in South Carolina. However, South Carolina has set a goal of having three businesses sign up by January 15, 2008.

Local Government

BAQ is collecting data from the City of Columbia to determine base year emissions inventory. BAQ is also assisting the cities of Greenville and Rock Hill to implement their US Mayors Climate Protection Agreement.

The City of Columbia's Climate Protection Committee is drawing up sustainability protocol for businesses to earn "green" certification. On September 24, 2007, the committee sponsored a successful **Green Business Summit** that focused on waste- and emission-reducing best management practices. The Green Business Summit kicked off the development of a protocol for businesses requiring a step by step implementation of practices. Completion earns the certification decal and public listing. As a follow-up, a "Green Business Boot Camp" was held on November 29, 2007. In this intensive, interactive workshop, Midlands businesses and nonprofit organizations developed Green Business plans that met the membership requirements of the City of Columbia's Green Business Program.

Businesses that develop a Green Business plan and submit it to the City of Columbia's Green Business program are awarded with a "City of Columbia Green Business Member" window decal and recognized by the City as a member of the Green Business Program.

Business Initiatives

The Home Builders Association of Greater Columbia formed the "Green Business Council of Greater Columbia" in August 2007. The Green Business Council of Greater Columbia will work to educate the public and constructions companies about what makes a green home green. The council will offer home builders a process by which they can certify their houses as green.

Energy Efficiency - The South Carolina Summit on Energy Efficiency (EE Summit) was held on April 30, 2007, in Columbia, South Carolina. The EE Summit brought together 175 participants representing a broad range of interests – electric and gas utilities, regulators, legislators, consumer and environmental advocates, industry, universities, schools, and regional transmission organizations. For additional information, see Number 11 – Energy Efficiency of this document.

Ground-level Ozone Awareness Week – The Governor of South Carolina declared April 1-7, 2007 as Ground-level Ozone Awareness Week. This is the eighth consecutive year this declaration has occurred.

Commuting Options – New "Take a Break from the Exhaust" participants for the 2006 Ground-level Ozone Season include:

The County of Lexington
Central Midlands Council of Governments
Winthrop University

York Technical College
Bowater – York County
Citi Group – York County
Springs Industries – York County.

In 2006 the goal for the Department's Bureau of Air Quality (BAQ) was to reduce over 125,000 miles. The BAQ exceeded the goal by almost 25,000 miles. The reductions from the 2006 TABFTE program for participants within the State of South Carolina were:

Miles Reduced:	289,889 miles
VOC's Reduced:	1,076 pounds
NO _x Reduced:	684 pounds

The total reductions from the 2007 Ozone Season TABFTE program for the State of South Carolina only:

146, 991 miles reduced
592 pounds of VOCs reduced
411 pounds of NO_x reduced

Legislation - Members of the Upstate EAC counties (Anderson, Greenville, and Spartanburg) in coordination with the Palmetto State Clean Fuels Coalition and the South Carolina Chapter of the Sierra Club, supported statewide legislation that will provide tax incentives for purchase of alternative fuel and hybrid-propulsion vehicles and help reduce costs and provide tax credits for production and infrastructure for alternative fuels. On June 1, 2006, Governor Sanford signed 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.

Four bills were introduced into the 2007 South Carolina Legislature. These four bills are collectively known as "Energy Independence for South Carolina's Future." The bills address the dependence of foreign energy, the rising costs of energy on South Carolina, the effects of a building's indoor environment and protecting the environment.

Senate Bills 376 and 362 implement aggressive sustainable construction standards for public buildings and schools, using a high performance rating system known as LEED. The Sustainable Investment Act (Senate Bill 377) creates tax incentives for private developers to use "green" standards in constructing new or renovated commercial buildings. The bill also creates an expedited permitting process for developers employing LEED standards. The fourth bill (Senate Bill 368) requires the state's Fleet Management Program to select hybrid, plug-in hybrid, bio-diesel and Flex-Fuel Vehicles when price, performance and quality are comparable to traditional vehicles. This measure will reduce the state's spending while minimizing the vehicle emissions.

In May 2007, a South Carolina Legislative House Transportation and Roadways Subcommittee amended and approved H. 3780 – “Transportation Performance and Accountability Act of 2007.” This bill provides that the Department of Transportation will implement the Traffic Congestion Reduction Program whose purpose is to minimize traffic congestion along the state’s highways in order to promote economic growth within South Carolina.

Also in May 2007, a South Carolina Legislative House Ways and Means Economic Development, Capitol Improvement, and Other Taxes Subcommittee approved H.3153. This bill establishes the Mass Transit Advisory Council to advise the Deputy Director for Mass Transit for the Department of Transportation on the mass transit needs and the specialized transportation needs of all areas of the State.

A school bus replacement law passed in June 2007 requires the state to provide funding to replace one-fifteenth of the school bus fleet each year. The law also requires the state to use biodiesel in the buses.

Senate Bill S243, The Hydrogen Infrastructure Act, was amended to include the key components of the Energy Freedom and Rural Development Act (H3649). S243 passed the South Carolina Senate and House of Representatives but was vetoed by the Governor; however, the Senate and House of Representatives overrode the Governor’s veto. This bill advances the state’s goal to create a thriving hydrogen and fuel cell cluster in South Carolina’s economy and promotes the use and production of biofuels in South Carolina.

Alternative Fuels Bill (S.243)

On June 19, 2007, the SC House and Senate overruled the governor's veto of the Hydrogen Bill (S.243). The passage of this monumental energy bill will provide millions of dollars starting in 2008 for tax incentives, sales tax rebates, and incentive payments to encourage the development of renewable fuels and alternative energy in South Carolina. Additionally, H.3749 was passed that included a provision to establish a Renewable Energy Grants and Loans program. The following are a list of incentives:

Beginning July 1, 2007:

- The SC Renewable Energy Infrastructure Development Fund includes a grant program providing planning grants to aid in the time and resources required to submit grant proposals and matching grants for research and development and demonstration projects. The program will also include a low-interest revolving loan program designed to assist entities building renewable energy projects;
- The SC Hydrogen Infrastructure Development Fund provides grants to promote the development and deployment of hydrogen production, storage, distribution, and dispensing infrastructure and related products and services;
- The biofuels marketing program will promote public awareness;
- Free ethanol and biodiesel testing for SC producers became available;
- An expansion of the solar system tax credit to include electricity generation;

- An increased tax credit for production of ethanol and biodiesel from alternative feedstocks, such as switchgrass, wood, waste cooking oil, animal fats, and algae;
- The requirement that school buses use B20 where feasible; and
- The requirement that construction of large state-owned buildings be “Green Buildings” and meet certain nationally recognized building standards.

Beginning October 1, 2007:

- Sales tax exemption for equipment operation, production, distribution, manufacture, or research of hydrogen or fuel cells. Also includes building materials and machinery used by a research district.

Beginning January 1, 2008:

- Income tax credit of up to \$2,000 for plug-in hybrid vehicles purchases;
- Tax credits of up to \$100,000 for research and development of renewable fuel feedstocks best suited for South Carolina, such as cellulosic ethanol and algae-based biodiesel;
- Income tax credits for contributions made by a taxpayer to the South Carolina Hydrogen Infrastructure Development Fund;
- Tax credits for the purchase and installation of equipment to produce electricity and gas from biomass resources including wood and wood waste, agricultural and animal waste, sewage, landfill gas, and other organic materials; and
- A requirement that all state-owned diesel pumps provide a minimum of five percent biodiesel.

Beginning July 1, 2008:

- Tax rebates up to \$300 for the purchase or lease of vehicles that are flex-fuel (ethanol), hybrid, electric, or fuel efficient with an EPA city fuel economy of 30 mpg or greater;
- Incentive payments for biomass energy users ranging from one cent per kilowatt-hour or 9 cents per therm.

Beginning July 1, 2009:

- Five cents per gallon incentive payments will be available for retailers selling B20 biodiesel and E85 ethanol.

Outreach Efforts – During the first 6 months of 2006, information was sent to the EAC contacts including:

- Governor’s Proclamation and the Departments news release for Ozone Awareness Week
- Information on national bike month and related activities
- Information of Car Care Awareness Month and related activities
- Information for National Air Quality Awareness Week (May 15 – 19, 2006)
- Earth Day 2006
- EnviroFlash
- 2006 Ground Level Ozone Season (April 1 – October 31)
- Ozone Action Tool – survey to assess and promote measures that reduce ozone.

Information during the last 6 months of 2006 provided to the EAC contacts included:

- Information and news release on the 2006 SC EAC Summit held in Columbia, August 16 and 17, 2006
- Information and press release on open burning alternatives
- Information on an Emissions Reduction Campaign
- Information on the Energy Star Change a Light, Change the World Campaign 2006
- Climate Change 101: Understanding and Responding to Global Climate Change
- Information on the free showing of Kilowatt Ours: A Plan to Re-Energize America – shown in Clemson, Columbia, Florence and Charleston in September 2006
- Information on grant opportunities to include an EPA grant workshop that will be held in January 2007 in Greenville, Columbia and Augusta.

Information during the first 6 months of 2007 provided to the EAC contacts included:

- South Carolina Educational Television Explores South Carolina's Alternative Fuel Options - CNN's John King Hosts "Securing Our Future: From Farm to Fuel" on Friday, April 13, 2007 at 9 p.m.
- Information on April 22nd marking the 37th observance and celebration of Earth Day.
- Information and opportunities for the 2007 Ground-Level Ozone Season was sent to on March 29, 2007. Opportunities included the Mobile Source Outreach Assistance Grant offered by the EPA and the 2007 National Air Quality Awareness Week (April 30-May 4). Information was included on EPA and NOAA's National Weather Service compiling federal, state and local activities for inclusion on their website. The air quality project, "Mow Down Pollution" events, implemented by Richland and Lexington Counties on April 21, 2007, and hosted by York County on April 28, 2007, were included as opportunities. Attached to the e-mail was a copy of Governor Mark Sanford's proclamation for Ground Level Ozone Awareness Week (April 1-7).
- Information on the Ground-level Ozone Season and the new forecast region for SC sent February 27, 2007. Information included an announcement that forecasting for ground-level ozone will begin April 1 this year as a result of the Department observing elevated levels of ground-level ozone during the month of April 2006 and that the Department will be adding a new forecast region. The CATAWBA region will include York, Chester, and Lancaster counties. The Department is adding two counties to the existing PEE DEE forecast region. Marlboro and Dillon counties will join the other counties in the Pee Dee regional forecast in 2007.

Outreach Efforts - Car Care Awareness Month (April 2006) – In recognition of Car Care Awareness Month, the Department and Richland and Lexington counties organized a vehicle maintenance check event in April. The State Museum, Ben Satcher Ford and Pope Davis Tires helped sponsor this free event on April 1, from 10 a.m. until 2 p.m. at the State Museum on Gervais Street. A team of certified technicians made suggestions for improving vehicle safety and gas mileage. The technicians also performed vehicle

checks and raised citizens' awareness about how proper maintenance of a vehicle can help to reduce air pollution and protect the public's health.

The goal of the event, held on April 1, 2006, was to increase the target audience's awareness about the importance of car maintenance in preserving good air quality. To reach this goal, several objectives were set, and our ability to meet those objectives is documented herein. The objectives were: to have 100 cars come through the car check lanes, create a replicable project that can be implemented in other areas across the state, and to educate drivers and volunteers who participated in the event about the importance role vehicle maintenance plays in preserving good air quality. The target audience was drivers local to the downtown Columbia area.

Outreach Efforts – “Mow Down Pollution” Event (April 21, 2007) - Lexington and Richland Counties in conjunction with local non-profit Keep the Midlands Beautiful, and the Department's Bureau of Air Quality (BAQ) planned and implemented the first lawn mower exchange in South Carolina. To encourage Columbia-area residents to do their part to "Spare the Air," the lawn mower exchange was held at the State Museum to Mow Down Pollution! The lawn mower exchange coincided with other activities the museum hosted to celebrate Earth Day. The event collected empty, functional gas powered lawn mowers and offered a discount between 30 percent and 55 percent off MSRP on Neuton cordless electric mowers. To compliment the lawn mower exchange, other partners were invited to exhibit Greenscaping information at the event. These partners helped extend the impact of the exchange by highlighting complimentary lawn and garden practices that help protect air quality.

Outreach Efforts - October 2007 - U.S. Walk to School Day - At 141 plus, South Carolina had more schools participating in this anti-obesity, enviro-friendly campaign than any other state except California.

Outreach Efforts – October 2007 - A push to educate consumers about the benefits and advantages of plug-in hybrid electric vehicles in North and South Carolina was kicked off in Charleston with the launch of the Plug-In Hybrid Coalition of the Carolinas. The Plug-In Hybrid Coalition of the Carolinas debuted at the annual meeting of the Southeastern Governmental Fleet Managers Association. During a session about plug-in hybrids attendees were asked to commit to the Plug-In Carolinas Challenge.

Grant Assistance – January 2007 - South Carolina and Georgia sponsored a timely opportunity, in cooperation with staff from the U.S. Environmental Protection Agency's (EPA) Region 4 Office. In advance of upcoming funding opportunities for various types of projects to address air quality issues through the EPA, a workshop was held for each of three areas of our state to provide information that may help local entities to improve their proposals for applying for these funding grants.

Staff from the Department's Bureau of Air Quality and the Georgia Environmental Protection Division worked with local government contacts in the Greenville, Columbia and Augusta/Aiken areas to host these workshops. The schedule for these workshops was as follows:

- 1) January 16th.....1:00 - 4:00 p.m. for the Augusta/Aiken areas
Location: University Prompt Care Building - Suite 202
3121 Peach Orchard Road; Augusta, GA 30906
- 2) January 17th.....1:00 - 4:00 p.m. for the Central Midlands area
Location: Eau Claire Print Facility
3901 Ensor Avenue; Columbia, SC
- 3) January 18th.....9:00 a.m. - 12:00 p.m. for the Greenville/Spartanburg areas
Location: Greenville County Council Chamber
301 University Ridge; Greenville, SC

The workshop agenda included:

Explaining EPA's competitive grant process, to include

- how to find EPA grant funding opportunities
- how to prepare a strong project proposal
- how to submit your proposal
- how EPA selects projects
- what happens after a project is selected.

The workshop was open to all interested parties. Organizations that are eligible to compete for EPA grant funds, includes state, local and tribal governments, universities and nonprofit organizations.

Mass Transit - The Central Midlands Council of Governments (CMCOG) is taking on a planning study for commuter rail transit services in the Central Midlands region. It will examine three potential commuter lines from Batesburg-Leesville, Camden and Newberry into downtown Columbia. The CMCOG region being studied includes the counties of Richland, Lexington, Newberry and Fairfield. Three public meetings were held during the first 6 months of 2006, to present preliminary planning and receive public feedback. Feedback was also accepted by mail fax, website and email.

Mass Transit - December 2007 - Mass transit is expected in South Carolina's Upstate under a plan by the city of Travelers Rest that would convert the abandoned 10-mile-long, northern segment of the Greenville & Northern Railroad into a "Carolina Swamp Rabbit Tram Trail." The plan is to convert the rail line, which runs from Greenville to Travelers Rest, into a multi-use trail that can be used for recreational and motorized transit. A 7-foot-wide microbus would travel a 10-foot wide asphalt strip constructed over the railroad bed, carrying passengers between downtown Greenville and downtown Travelers Rest. The plan is an intermediate step in response to U.S. Department of Transportation statistics showing that Georgia and South Carolina lead all states in the number of rural residents dependent on passenger rail as their only public transportation. The long-term goal of the plan is to preserve the integrity of the rail corridor for eventual conversion to a commuter rail line, while attempting to have the area's transportation infrastructure keep pace with expanding growth.

School Busses – In the spring of 2006, the S.C. Department of Education announced a \$500,000 Clean School Bus USA grant to help reduce school bus pollution. The state plans to replace a dozen 22 year old school buses, upgrade 132 other buses and convert 1,220 buses to B-20 fuel. Idle reduction devices will be installed on 200 buses.

In 2006, the S.C. Department of Education contracted to purchase 630 - 2006 model buses and 82 - 2007 model buses to replace 25 percent of the 1989 and older buses in the fleet. The Department of Education also ordered two - 2007 model plug-in diesel-electric hybrid buses that will be delivered in April 2007. The Department of Education has agreed to work with the Department to assign these new buses to routes in areas of the state where they will have the most benefit to air quality.

Through funding from a Supplemental Environmental Project, the Department of Education awarded a contract in 2006 for diesel particulate filters to be installed on approximately 100 school buses.

The Department of Education has worked with the State Procurement Office to establish a statewide contract for B20 biodiesel. The biodiesel will be available to purchase at the state contract price for all political subdivisions in the State. The Department of Education plans to convert the entire State fleet of school busses (over 5,700 busses) to B20 in 2007.

A school bus replacement law passed in June 2007 requires the state to provide funding to replace one-fifteenth of the school bus fleet each year. The law also requires the state to use biodiesel in the buses.

School Busses - December 2007 - South Carolina Department of Education - School Bus Initiative

Two plug-in hybrid electric buses with a 2007 emission compliant diesel engine fueled with ultra-low sulfur diesel (soon to be ultra low sulfur 20% biodiesel) were placed into service in South Carolina. One bus was placed in Richland County and the other in York County. A press release was issued on September 27, 2007, and a press conference was held on October 11, 2007.

School Busses - December 2007 Clean School Bus USA Grant - The South Carolina Department of Education submitted a grant proposal for the 2007 U.S. Environmental Protection Agency Clean School Bus USA grant, in conjunction with the Southeast Diesel Collaborative. Initial review indicates with some minor modifications, the proposal will be accepted and the Department of Education will be awarded the grant. The grant will provide 500 school buses with crankcase ventilation filters and anti-idling hardware. The grant will also allow the Department of Education to create a computer program that will use GPS data to identify areas of excessive idling. The Department of Education has also requested additional funding for anti-idling awareness education.

School Busses - December 2007 School Bus Ridership Grant Proposal - Staff in the BAQ's Division of Air Planning Development and Outreach submitted a proposal to

EPA's Mobile Source Outreach Competition Grant for 2007. This proposal is intended to work with an elementary and middle school in local areas (up to 3 areas) of the State to determine mechanisms to increase the utilization of school buses and carpooling to and from school by students. This project will include working with parents, students, faculty, and school administration to encourage better use of school buses for transportation.

Southeast Diesel Collaborative – The Southeast Diesel Collaborative (SEDC) is a new partnership between US EPA Region 4, State and local air quality programs, and other public and private entities and is intended to promote opportunities to reduce diesel emissions. The collaborative is modeled after other regional diesel collaboratives, which have proven beneficial for addressing a significant source of mobile source air pollution. On April 26, 2006, a Memorandum of Understanding (MOU) in support of the Southeast Diesel Collaborative was signed by Mr. William G. Gallardi, Assistant Bureau Chief, BAQ.

Throughout 2006, the SEDC continued to create partnerships and disseminate information for reductions of diesel emissions. The SEDC held a South Carolina stakeholders meeting in August 2006 in Columbia. A SEDC emerging fuels conference was held in Atlanta in December 2006. Through the SEDC the Department has been contacted by equipment vendors to exchange ideas on increasing sales for diesel retrofit devices. The Department is made aware of the products offered and the manufacturers gain insight into what areas of the state the equipment will have the most benefit to air quality.

In March 2007, the SEDC conducted a workshop for identifying available funding sources to implement clean diesel programs. Two Department employees attended the workshop and received the training materials and contacts to pursue funding for diesel emission reduction programs.

In June 2007, the SEDC held its second annual partners meeting in Atlanta, Georgia. The meeting provided an opportunity for the eight Region 4 state environmental commissioners, including South Carolina's, to establish a vision for future diesel emission reduction projects.

December 2007 - BAQ staff continue to participate in routine conference calls with the SEDC partners.

Alternative Fuels - State Ports Authority (SPA) - The Department continues to work with the SPA to reduce diesel emissions. In March 2007, the SPA signed a memorandum of agreement with the Department to partner in reducing port-related diesel emissions. In late September 2007, the SPA switched to cleaner burning, ultra-low sulfur diesel fuel ULSD three years prior to the EPA mandate (2010).

Alternative Fuels - Railroads – Diesel Emissions - The Department has initiated programs to address diesel emissions from railroads in South Carolina. During October

and November 2007, the Department participated in a national and a regional conference to seek reductions in diesel emissions. The Department is working with CSX Railroad to implement some of those strategies in Charleston. In November 2007, the Division of Public Railways (South Carolina Department of Commerce) announced that all locomotives will be using ultra low sulfur diesel (ULSD) fuel five years earlier than the EPA mandate (2012). The Division of Public Railways uses an estimated 26,000 gallons of diesel fuel annually.

Alternative Fuels - October 2007 - Washington Savannah River Co. gave \$175,000 to the Center for Hydrogen Research in Aiken for a hydrogen-fueled truck to demonstrate the viability of the alternative fuel. The center also announced plans for a refueling station to provide hydrogen for the truck and other hydrogen-powered vehicles. The Hydrogen Internal Combustion Engine vehicle, or HICE, is based on a full-size 2007 Chevrolet Silverado 1500 pickup. The truck will be powered solely by hydrogen. Options for the refueling location include either the Savannah River Research Campus or at a site along I-20.

Energy Efficiency - July 2007 – S.C. Hydrogen Infrastructure Development Act
The S.C. Hydrogen Infrastructure Development Act, establishing a \$15 million fund to promote the development of a hydrogen economy was passed by the Legislature. While funding for the Hydrogen Infrastructure Development Act was not included in the state budget, legislators did include other critical funds. Through the University of South Carolina budget, EngenuitySC will get \$100,000 to help with preparations for the National Hydrogen Association meeting to be held in Columbia in the spring of 2009. A National Hydrogen Association forum, “Hydrogen Uses in the Military,” was held in Columbia this October. USC also got \$1 million for continued funding for hydrogen and fuel research. The S.C. Hydrogen and Fuel Cell Alliance got \$367,640 in recurring funding. The Hydrogen Infrastructure Development Act is recognition by the Legislature that nurturing a hydrogen and fuel cell cluster in South Carolina can have tremendous economic impact.

Energy Efficiency - August 2007 – Bi-Lo to promote green grocery bags - Reusable market bags have been around for years however, this is new for Bi-Lo, the Mauldin (Greenville County)-based grocer. Bi-Lo is piloting its green bag effort in about 80 of its more than 220 stores here and in Georgia and Tennessee. The Super Bi-Lo at the Village at Sandhill (Richland County) is participating in the pilot. Bi-Lo sells two versions of the green bags: a woven recycled plastic for 99 cents and a canvas one, priced at \$2.99. Store management at the Columbia Super Bi-Lo said each time shoppers use any reusable bag, they receive a 5-cent per bag credit when they check out each shopping trip. It doesn't seem like much at first - but after 20 uses, a woven plastic bag pays for itself.

Energy Efficiency - October 2007 - Santee Cooper announced they will quadruple to 40 percent by 2020 the amount of electricity made from non-greenhouse gas sources and created a new department to oversee the effort. The state-owned utility serves most of Horry and Georgetown counties either directly or indirectly, with about 2 million

residents statewide receiving power from it. The company also began purchasing excess power from customers who make electricity with solar panels and other generators.

Transportation Conformity – Currently, the only area subject to transportation conformity in South Carolina is the Rock Hill-Fort Mill Area Transportation Study Metropolitan Planning Organization (RFATS MPO) in York County. EPA has promulgated and proposed a number of revisions to the Transportation Conformity Rule since the time that South Carolina's SIP revision incorporating the South Carolina Transportation Conformity MOA was published in the *Federal Register* (69 CFR 4245) on January 29, 2004. On May 2, 2007, EPA published in the *Federal Register* a proposal to amend the transportation conformity rule to make it consistent with the CAA, as amended by SAFETEA-LU. The Department has initiated the process for revising South Carolina's Transportation Conformity SIP to incorporate amendments to the CAA as a result of SAFETEA-LU. Interagency partners have been contacted and will be involved in drafting the necessary revisions. The process will encompass stakeholder meetings, to include involvement of MPOs, government entities, and the general public. The first meeting was held on November 2, 2007. Interagency partners participating, included EPA Region 4, US DOT (FHWA and FTA), SC DOT, DHEC, and several MPOs.

While only one area in South Carolina is subject to transportation conformity, involving all interagency partners provides the opportunity to discuss mobile source issues and concerns with areas that may face the tough challenge of meeting the proposed 8-hour ozone standard. The Department is using this opportunity to encourage continued partnerships focusing on emission reduction strategies.

Community Outreach - The State of South Carolina agreed to conduct the project and submitted a request for funding which was included in their Performance Partnership Grant (PPG). Region 4 approved their request and awarded the funds (\$142,500) in the PPG for the community activities in Greenville. South Carolina has conducted four community meetings (10/27/05, 11/14/05, 12/05/05, and 01/09/06) to establish and start the Greenville project. The next meeting is scheduled for February 13, 2006. There are five communities or neighborhoods involved in the meetings and project (Greater Sullivan Community Neighborhood Association, Sterling Neighborhood Association, West End Neighborhood Association, Haynie-Sirrine Neighborhood Association, and the Green Avenue Area Civic Association). The participants have selected a name for themselves – "Breathing for Life Community Coalition (BfLCC)." There is a good exchange of information and interaction between the participants at the meetings. This is due in large part to the organizational and community relationship skills of the State's staff and the active participation of the residents, community liaisons and pastors in the communities. State staff participating are from Greenville's environmental quality control and health department offices, the Bureau of Air Quality (BAQ) and EQC Administration.

While there is a wide range of possible projects which would include reducing toxic pollutants (e.g., diesel retrofits, indoor air quality projects), household hazardous waste reduction projects, anti-idling campaigns, integrated pest management programs, and or

other projects from which the community can select, they have elected to start by having an essay, logo and drawing competition with the children in the five neighborhoods. The subject of the competition is "Breathing for Life – Your Health and the Environment." In addition to this project, the community would like to hold an "educational forum" (date to be announced). The forum will highlight winners of the environmental essay, logo and drawing contest. It was suggested that a Region 4 representative, possibly Beverly Banister, be present at the forum. She is a champion of the project would be an inspiration to the children who would be participating. The long term purpose of BfLCC is to find funding to implement the selected projects and to establish a permanent, ongoing effort to continue reductions of toxics risks to the community.

The Air Toxics Assessment and Implementation Section of the BAQ is overseeing the performance under the PPG related to the effort for the Greenville Project. When BfLCC determines that they want or need the Region to actively participate, the Section will provide information, technical support, training, and risk analysis as requested. In addition, EPA Region 4 as a primary author of the "How To" manual that walk communities step by step through performing an environmental project, has provide information on the availability of this document so that it can be used when it is determined that the concepts and processes should be applied in this project.

Additional meetings that have been held are February 13, February 27, March 13, March 27, April 24 and May 22 and June 19, 2006. Extra meetings were held in February and March 2006 to plan for the education forum.

An educational forum was held on April 8, 2006. Winners of the essay and drawing contests were announced and presented their prizes. A logo is being developed for the Coalition as a result of the logo drawing contest. In addition, education was provided on asthma, weatherization and air pollution. Guest speakers were Carol Kemker from EPA and Miss Crystal Garrett, Miss Lexington, SC, who gave her testimony on how she has managed living with asthma. A community member gave the history of the BfLCC. A feedback questionnaire was used for evaluation of the event. Comments were very positive and the community would like to have more informative events like this.

Future projects that are being planned are a household hazardous waste collection day in conjunction with a gas can exchange and providing EPA-certified woodstoves in homes that are using old woodstoves. Preliminary discussions have taken place with a school official about implementing school bus anti-idling programs in Greenville schools. Other partners that are helping with these projects are Greenville City and County officials.

Additional BfLCC meetings were held on July 31, August 28 and September 25, 2006. Knowing this project funding would end on September 30, 2006, discussion began at the June meeting on sustainability of the "Breathing for Life Community Coalition." BfLCC members agreed to remain organized and continue working as a group on other projects. Sustainability discussion continued at the July meeting where members discussed concerns they have about their community and what is good about their community. They also discussed what they see as "accomplishments" since the beginning of the project and what would they like to see accomplished. This discussion continued at the

August and September meetings. The local health and environmental offices will continue to facilitate meetings and/or discussion as requested by the BfLCC. The BAQ will continue to provide assistance as needed.

With the goal of reducing air toxics, the BAQ entered into a contract with the City of Greenville to assist with air toxic reduction projects. The following projects were completed:

- August 12, 2006, a Household and Hazardous Waste (HHW) Collection day and gas can exchange were held. The Solid Waste Division and Recycling Coordinator for the City of Greenville were instrumental in organizing this event. This was the first HHW Collection day for the City of Greenville and it was possible through this EPA funding. Ray Gregory from Region 4 EPA attended the event. It was very successful with the following results:
 - o 250 cars came and dropped off items;
 - o Approximately 5,000-6,000 cans containing gasoline, paint, household cleaners, pesticides, etc. were collected. Other items collected were batteries, used tires, propane cylinders, and a container of mercury;
 - o 200 environmentally-free gas cans were distributed; and,
 - o Residents appreciated the effort and hope to have another event.
- City of Greenville staff met with the five neighborhood association presidents to identify homes in their neighborhood that needed their heating source repaired or replaced to a more efficient and less polluting one. Criteria used in identifying the homes were those using wood or coal, low-income elderly and disabled, and those who have medical conditions that warrant a different heating system. As a result, 20 homes were selected to have their heating source repaired or changed out. The City of Greenville contracted with local companies to assist with the work. These homes were also weatherized with storm windows, insulation and weather stripping and smoke and carbon monoxide detectors were installed. The following list provides details of the heating source repairs and/or change outs:
 - o Two homes were heating with wood and had EPA-approved gas packs installed.
 - o Two homes heating with kerosene because the gas furnace was broken had EPA-approved heat pumps installed.
 - o One home was heating with kerosene because the oil furnace was broken and had a new EPA-approved oil furnace installed.
 - o Two homes were heating with a small inefficient gas heater and had EPA-approved Rinnai vented heaters installed.
 - o One home was using several kerosene heaters and had a Rinnai vented heater installed.
 - o Two homes were heating with kerosene because their gas pack was broken and new gas packs were installed.
 - o Five homes were using a gas or oil unit that needed servicing and all were serviced to be more efficient.
 - o Two homes with old gas furnaces that ran a lot and did not heat well had new gas furnaces installed.

- o One home with an old gas unit that was not efficient had a new gas heater installed.
 - o One home had an old woodstove that was changed out to an EPA-certified woodstove.
 - o One home using a gas pack that did not work well and could not be repaired had a new gas pack installed.
- 115 self-venting kerosene cans were ordered and distributed in the five neighborhoods to homes still using kerosene for heat.

In addition to the PPG funding for this community outreach project, Greenville County government applied for a grant and was awarded funding to pilot an anti-idling program in a local school as well as other outreach programs on improving air quality.

Department Activities – The Department continues to leading by example:

- a. BAQ staff for the past few years has adopted a strip of lawn in front of the Sims/Aycock Department Headquarters building and use an electric mower for cutting. Working in coordination with the facilities maintenance staff from the State Budget and Control Board, cutting this area with a gas-powered mower is discontinued during the ground-level ozone forecast season. A fact sheet has been made and often distributed to customers who inquire about our activity. In addition a sign is placed in the area to convey the message of this lawn area being adopted by staff using an electric lawn mower.
- b. BAQ staff worked with the EAC contacts from Lexington County to create a sign that has been placed in front of the main Department Headquarters building to advertise the ground-level ozone forecast. Motorists traveling the busy corridor of Bull Street to I-277 are able to view the forecast sign each week day.
- c. Inter-bureau workgroup on open burning. Staff from the Department's Bureau of Land and Waste Management and Bureau of Air is collaborating on the development of training tools for staff to improve consistency in dealing with open burning issues around the state. This includes interpretation of the current Agency regulations for both bureaus, messages regarding alternatives to open burning and communication/coordination with other agencies that may have some involvement with open burning (e.g., SC Forestry Commission, Fire Marshalls, etc.). Also, another objective of this workgroup is the development of an awareness campaign to convey messages regarding open burning regulations and alternatives for disposal (e.g., recycling, composting, etc.). These messages will be tailored to specific audiences based on waste streams. The Bureau Chiefs for the BLWM and BAQ have been presented this outline and are going to help identify resources for implementing these objectives. Additional information may be found in Number 4 – Regulatory Initiatives of the State Activities enclosure.
- d. Project Discovery - Working with the state Public Education Television (ETV) agency, staff from all EQC bureaus, including the BAQ worked to develop an information segment on various aspects of the environment. BAQ staff, along with region staff developed a script and message related to alternatives to open burning. This series of messages aired on May 5, 2006 and was broadcast to

students in schools statewide over the ETV channel. Here is a part of the message communicated regarding this show:

Project Discovery - A special program to highlight how students can help take better care of our environment will be our May 2006 edition of Project Discovery. Presented from Hilton Head Island as part of the ETV Road Show, Project Discovery host Tabitha Lewis and co-host, Paula Randler of SC DHEC leads students on a behind-the-scenes view of the waste water treatment plant located there to see just how this important life-sustaining resource is cleaned and returned to the environment. In addition, students will learn about the importance of keeping a healthy coastline. Picking up after a day at the beach is more than just a beautification issue and something everyone can do to help. We'll also learn about the importance of recycling and how we can take better care of our air by not burning trash. And, a trip to the landfill is also on tap to see where all that stuff we cannot recycle actually ends up.

Presented in cooperation with the Department, this program is designed for grades 1-8 and our toll-free phone line (1.800.763.ETV1) will be open for calls from students during the program. Join Project Discovery for the last program for this school year and be more prepared to enjoy clean water and air this summer as we pay more attention to how we impact our world around us and how we can help keep it clean for all to enjoy and appreciate both today and in the future. Please alert your teachers to this special program and plan to tape it for your school.

- e. Emissions Reduction Campaign for 2007 - To further encourage the development and promotion of local initiatives, BAQ Outreach staff began researching the possibility of implementing a combined media and community outreach campaign focused on ground-level ozone in May 2006. The objectives were to engage local government in the priority areas (Anderson, Spartanburg, Greenville, Aiken, Richland, Lexington and York Counties) to develop local air quality initiatives with a significant potential to reduce ground-level ozone; to assist the efforts of local government entities who already have such plans in place; to promote ozone awareness and/or related events through television and radio announcements; and to encourage the public, through outreach events as well as media promotions, to voluntarily reduce vehicle emissions throughout the ozone season beginning in 2007.

Prior to the EAC Summit in August 2006, all the South Carolina COG contacts received a message informing them of the campaign and encouraging them, as well as their county and municipal governments, to participate. Activities which followed the EAC Summit included a conference call to discuss strategies and activities and follow-up discussions, via telephone and email, to those who were unable to participate. A sample radio script about proper vehicle maintenance, which the Department would produce internally at little or no cost, was also sent out for feedback from stakeholders interested in holding a car care event.

More recently, a Clean Air Initiative has been implemented at the BAQ level which entails fostering relationships with local governments and working proactively with all regions of the state to improve air quality and to prevent significant deterioration. BAQ staff members have been assigned to specific COG areas for this purpose. As this initiative has gained momentum and staff members are becoming more closely involved with their assigned areas, re-evaluation of the campaign has shown that the Clean Air Initiative has the potential to accomplish virtually all of the same goals as the campaign. As such, the campaign planning is being suspended until further developments under the Clean Air Initiative demonstrate potential for the campaign to enhance the statewide effort now underway.

- f. Bike to Work Events (2007) – May is National Bike Month, and Friday May 18, 2007, was “Bike-to-Work Day.” The Department’s State Nutrition and Physical Activity Consultants, Division of Injury and Violence Prevention, and Bureau of Air Quality encouraged Department staff in Columbia to participate in a “Bike-to-Work Day” ride coordinated by Central Midlands Council of Governments and the City of Columbia, and/or to bike to lunch together. The Columbia/CMCOG ride started at Boyd Plaza in Columbia (NW Corner of Hampton & Main). The ride took about 20 minutes for the average rider. Maps and routes were provided.

Because bicycle commuting helps reduce ground-level ozone pollution, global warming emissions and other pollutants, it is an air quality strategy being pursued around the state. Cycling has the potential to provide significant societal benefits in other aspects of life such as health, resource consumption, and the cost of transportation. Additional information may be found in Number 2 – Commuting Reduction Programs enclosure.

g. **“Safe Routes to School” Grant – 2007 funding cycle**

The South Carolina Department of Transportation (SCDOT) approved funding to develop comprehensive bicycle and pedestrian programs as part of the "Safe Routes to School Program." Partnering with SCDOT, local governments, parents, local law enforcement and educators, each school and community will develop a plan that encompasses both infrastructure and non-infrastructure components. One of the purposes outlined in the funding legislation for this program includes facilitating the planning, development, and implementation of projects and activities that will reduce traffic congestions, fuel consumption and air pollution in the vicinity of primary and middle schools. The schools for the 2007 funding cycle are: College Park Elementary School, Berkeley County; Alston Middle School, Dorchester County; Willow Drive Elementary School, Sumter County; North Vista Elementary School, Florence County; Wren Elementary/Middle School, Anderson County; Lone Oak Elementary School and Pine Street Elementary School, both of Spartanburg County; Rosewood Elementary School, Richland County; College Park Middle School, Berkeley County; Fairfield Middle School, Fairfield County; Stono Park Elementary School and Hunley Park

Elementary School, both of Charleston County. Each of the selected schools will receive up to \$200,000.00.

- h. The **Bull Street Partners Carpool Group** provides employees of the Bull Street area offices of three State Agencies (Department of Health and Environmental Control, Department of Mental Health and Department of Social Services) an opportunity to form carpools, thereby saving money and fuel, reducing pollution and reducing the stress of commuting.

Additional information may be found in Number 2 - Commuting Reduction Programs enclosure.

Press Coverage – Recent coverage includes:

- On March 25, 2005, WIS-TV in Columbia aired a feature story highlighting alternative fueled vehicles. The story specifically covered the actions that the Department and local government were taking to utilize alternative fuels.
- On Friday, April 15, 2005, The State newspaper wrote a story on one TABFTE partner and his decision to give up his car for a bike and public transportation. This generated interest in more bike and pedestrian paths and public transportation in the Columbia area.

Additional listings of press releases may be found in Number 1 – Outreach and Education of the State Activities enclosure.

1. Outreach and Education

Public involvement through education and outreach plays a major part in the success of an early action program whether it is a statewide program or a local program. The Air Education and Outreach Section (AEOS) is responsible for increasing awareness, educating, and encouraging behaviors for improving air quality among various segments of the population in South Carolina. As a result of the early action process, several fact sheets were updated and new fact sheets created. This information is available by contacting the office and is also available on the Department website (www.scdhec.net/baq/eap.html). This information has been provided to local areas to assist in the local education and outreach efforts.

School aged youth have been targeted with programs such as the following:

- Ozone Action Class – An interactive program focusing on how to reduce ground-level ozone forming air pollution through the outreach efforts of local schools; and,
- B2 @ School (Breathe Better Air at School)- a project designed to involve students, their parents, teachers and administrators in assessing idling activity on school grounds, and determining mechanisms for reducing idling by vehicles and/or school buses. Mechanisms include awareness activities, policy support/development and tools such as no-idling signs.

Resource materials in place or that have been developed for public outreach, include the following:

- “Driving Smarter for Tomorrow” brochure
- “Ozone Action Class” brochure
- “Care About Air” coloring book
- “Spare the Air” bookmark
- “Share the Road: Getting around in South Carolina” brochure (08/06)
- “Clean the Air*Save Gas: Turn the Key Be Idle Free!” poster (10/06)
- Facts about ethanol as an alternative fuel (05/07)
- VEHICLE MAINTENANCE AND AIR QUALITY (05/07)

Refer to Enclosure 2-1 for the ethanol facts and vehicle maintenance document.

October 31 - November 2, 2007 - Two AEOS staff members participated in the Annual South Carolina Science Council conference held in Myrtle Beach, South Carolina. Staff presented information to teachers on an air lesson plan that may be utilized in the classroom, as well as staffed an exhibit where materials for use with school-aged youth were available. Information about AEOS programs (e.g., B2-an anti-idling project) was also made available.

The “GreenScene Magazine” published by the Department’s EQC Outreach Committee, provides a one-stop shop of the environmental education programs offered by the Department. The first issue published in the fall of 2002, contained an article entitled “Ozone is Not Just Another Season.” This committee is responsible for numerous

projects that promote environmental education, both internal and external to the Department. One of the projects is a series of monthly environmental e-mails sent to all Department staff. The May 2003 message was "Clean Air Month" and informed staff that Governor Sanford proclaimed May 1-7 as **Ozone Awareness Week**. A copy of the magazine, the message, and the proclamation were included in a previous progress report. Other activities include Earth Today Broadcast, Earth Camp, and, Kids Day events.

New graphics were introduced on the BAQ's web site May 1, 2003. The existing ozone forecast web page was revised to reflect all four forecasted regions in South Carolina and color coded to align with EPA's Air Quality Index. The new graphics makes the Air Quality Index easier to read and understand by the public who use this web site.

Website - One of the first outreach activities of the EAC process included the establishment of a website (www.scdhec.net/baq/eap.html) for stakeholders to obtain updated information regarding the early action process. The website address was given in the initial press release (August 28, 2002) and continues to be included on correspondence and presentations.

Ozone Events – The Department has sponsored Ozone Awareness events to educate areas on the ozone standard, forecasting and measures that can be taken to reduce ground-level ozone. Following, is a schedule and summary of the 2003 Ozone Events:

April 26, 2003 - Central Savannah River Area

"Kids Earth Day" held on Saturday, April 26, 2003, was attended by approximately 1,000 children residing in the Aiken/North Augusta area. The Department's Central Office and District Bureau of Air Quality (BAQ) staff assisted children in playing Air Jeopardy as well as leading them through an educational exhibit on ground-level ozone. Prizes were also distributed.

April 29, 2003 - Pee Dee Area

A community meeting was held at the Pee Dee Regional Council of Governments office in Florence. Various community members and media were invited to attend this meeting for an educational program on ground-level ozone and health implications due to ground-level ozone exposure. This event was well attended and received excellent media coverage.

May 1, 2003 - Central Midlands Area

A partnership with WACH 57 TV was formed with BAQ staff to promote the Bureau's "Ozone Action Class." This is a web-based program encouraging students to find solutions to reduce ground-level ozone pollution. Spears Street Elementary School in Newberry County was the first recognized Ozone Action Class by weatherman Cary Allen and BAQ staff member, Amy Curran. WACH 57 incorporated the day's events, along with promoting Ozone Awareness Week, on their nightly weather segment that evening.

June 28, 2003

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Upstate

The BAQ and Recycling Office of the Bureau of Land and Waste Management partnered with the Upstate Air Quality Advisory Committee (Anderson, Greenville and Spartanburg Counties) to hold a gas can exchange event in this three county region. This was the first of a kind event for South Carolina. As well as new environmentally friendly gas cans, educational materials were distributed. Results of the Gas Can Exchange Event are included with the individual county reports.

Public Presentations - Numerous public presentations by Department staff regarding the 8-hour ozone standard and the early action process have been held. Since the process started there have been over 75 meetings in which Department staff promoted the benefits of the EAC process.

Greenscapes – The Department partnered with the South Carolina State Budget and Control Board's (B&CB) Horticulture services to implement a tree planting and environmental landscape project at the Department's central office and to conduct workshops on environmental benefits of trees for representatives of local and state government agencies. Funding for this effort was through a grant from the Urban and community Forestry Grant Assistance program administered through the South Carolina Forestry Commission and funded by the USDA Forest Service. Planting trees and reducing grass area results in less lawn mowing which helps reduce the emission of NO_x and VOC from gas powered equipment. For example, this project decreased the mowing area by 39 percent (original turf area was 24,816 sq. ft.; new mulch area 9,684 sq. ft., new turf area 15,132 sq. ft.). The time to mow this area has been cut in half, to less than 45 minutes.

To assist in promoting the incorporation of landscape planning to support the health of the environment, each EAC contact was invited to attend a presentation on May 25, 2005, to be provided by David J. Nowak, Ph.D. Dr. Nowak is a Project Leader with the USDA Forest Service, Northeastern Research Station in Syracuse, NY. Dr. Nowak is a principal scientist on the Chicago Urban Forest Climate Project and is a recipient of the American Forests Urban Forest Medal recognizing outstanding national contributions in urban forest research and the Distinguished Science Award of the Northeastern Research Station. His presentation is designed to provide an understanding of urban forests and their benefits and regulatory effects related to air and water quality.

a. Ozone forecast/outreach, education

The Department began forecasting for the 8-hour ozone standard in 1998 for the Upstate and Central Midlands areas of South Carolina. In 1999, the Central Savannah River area was added in the forecast and in 2003 the Pee Dee area was added. The Catawba area, including Chester, Lancaster and York counties is included in North Carolina's forecast through a cooperative partnership. A link for the Catawba forecast is included on the

Department's website. The forecast serves as a public health advisory to protect those persons who are most at risk to the effects of ozone.

Prior to 2006, the Division of Air Planning, Development and Outreach was responsible for disseminating the ozone forecast to interested individuals and groups across the state.

Most counties participating in the EAC have assigned an air quality contact person that receives the daily forecast and is responsible for disseminating the ozone forecasts and related information on Ozone Action Days to stakeholders.

The Department and the SC Department of Transportation (DOT) have an agreement during the ground level ozone season. When an Ozone Awareness Day is forecasted in a particular region, Department staff contact DOT staff to activate the DOT Intelligent Transportation System (ITS) message board in the affected area. The ITS boards alert drivers that an Ozone Awareness Day has been forecasted for the next day and provides drivers with options and suggestion on how to deal with the upcoming Ozone Awareness Day. The Department's website is also included as a part of the message.

In 2004, the Department established a toll free telephone line for persons to call and receive the ground-level ozone forecast for the four areas of the state involved. Listed here is the number of calls for this "Ozone Hotline" for 2004 – 2006.

2004: 45 (only 3 months)

2005: 197

2006: 10 (thru May, 2006)

2006: 187 (June thru September 2006)

The number of contacts for the e-mail distribution for the 2005 ground-level ozone season was over 130 contacts.

Beginning with the 2006 ground-level ozone forecast season, the Department and the Bureau of Air Quality began participation in a new program that will make getting the forecast easier and more reliable. **EnviroFlash** is a program, sponsored by the EPA with State and local air quality agencies. **EnviroFlash** provides important air quality information such as forecasts and action day notifications via email or pager notification. The email includes the same local air quality forecast information which is coordinated through the news media, like television and radio.

EnviroFlash provides instant information that may be customized for individual needs. Subscribers can choose to receive the forecast everyday or only on forecasted Ozone Action Days. Air quality information allows subscribers to adjust lifestyle activities when necessary on unhealthy air quality days.

Participants in the BAQ's forecast system were provided information to an on-line subscription page and requested users to sign up, edit the reported information, or cancel the service. Subscribers are able to choose the type and frequency of service desired.

EnviroFlash will be sent to your email or pager as soon as the ground level forecast is made. Persons are able to select from the Central Midlands, Upstate, Central Savannah River, or Pee Dee area. Subscribers to this free service may also receive the forecast for all four regions. See below for **EnviroFlash** subscriber statistics as of June 2006, for each zone. This information is split into categories, whereby "Green" level subscribers receive forecasts every day, "Yellow" level subscribers receive forecasts for "Yellow" forecasts and higher, etc.

Midlands - 81 subscribers

"Green" Level Subscribers: 12
"Yellow" Level Subscribers: 16
"Orange" Level Subscribers: 53

Upstate - 81 subscribers

"Green" Level Subscribers: 16
"Yellow" Level Subscribers: 11
"Orange" Level Subscribers: 51
"Red" Level Subscribers: 2
"Maroon" Level Subscribers: 1

CSRA - 19 subscribers

"Green" Level Subscribers: 5
"Yellow" Level Subscribers: 2
"Orange" Level Subscribers: 12

Pee Dee - 12 subscribers

"Green" Level Subscribers: 5
"Yellow" Level Subscribers: 0
"Orange" Level Subscribers: 7

The total number of subscribers, 193, may reflect more than just individuals receiving the forecast. Some subscribers may forward the email **EnviroFlash** delivers, to other employees at a worksite. The forecast may be utilized by local meteorologists to share with their TV audiences.

Subscribers for the 2006 Ground-level Ozone season through EnviroFlash (December 2006):

Midlands - 90 subscribers

"Green" Level Subscribers: 13
"Yellow" Level Subscribers: 18
"Orange" Level Subscribers: 58
"Red" Level Subscribers: 1

Upstate - 84 subscribers

"Green" Level Subscribers: 17

"Yellow" Level Subscribers: 10
"Orange" Level Subscribers: 53
"Red" Level Subscribers: 3
"Maroon" Level Subscribers: 1

CSRA - 25 subscribers

"Green" Level Subscribers: 6
"Yellow" Level Subscribers: 3
"Orange" Level Subscribers: 16

Pee Dee - 13 subscribers

"Green" Level Subscribers: 5
"Yellow" Level Subscribers: 0
"Orange" Level Subscribers: 8

2007 Ozone Awareness Proclamation

For the eighth year in a row, the governor of South Carolina has signed a proclamation regarding ground-level ozone awareness week. In 2007, Governor Sanford signed a proclamation declaring April 1-7, as "Ozone Awareness Week." A news release was developed to help announce this proclamation and was distributed electronically to all EAC contacts for their use locally. A copy of the 2007 proclamation is located at: <http://www.scdhec.gov/eqc/baq/pubs/OzoneAwarenessWeek.pdf>.

2006 Ozone Awareness Proclamation

For the seventh year in a row, the governor of South Carolina has signed a proclamation regarding ground-level ozone awareness week. This year, Governor Sanford signed a proclamation declaring May 1-7, 2006, as "Ozone Awareness Week." A news release was developed to help announce this proclamation and was distributed electronically to all EAC contacts for their use locally. A copy of this year's proclamation is located at: <http://www.scdhec.gov/eqc/baq/pubs/OzoneAwarenessWeek.pdf>.

b. Developed Outreach Projects / Provided Outreach Materials

While the Department has not had the resources to track the education and outreach activities performed by non-Agency personnel in the recent past (i.e., no baseline data) to make comparisons, the EAC process has improved information regarding such activities. Because of the reporting requirements involved with the local participants towards meeting the EAC milestones, there have been numerous updates concerning outreach activities that have been initiated in the local areas. Material resources such as posters, brochures and radio and television Public Service Announcements (PSAs) developed by the Department have been requested for use by these local contacts.

- Gas Can Exchange - Using the BAQ's protocol developed for Gas Can Exchange events, Anderson County organized and planned its own gas can exchange (09/01/2005) with some limited assistance from BAQ staff. 200 new, environment

friendly gas cans were distributed and 79 used gas cans collected. Results from Gas Can Exchange events held in other counties include:

Georgetown – 334 pounds VOC reductions
Greenville – 711 pounds VOC reductions
Greenwood – 334 pounds VOC reductions
Lexington – 348 pounds VOC reductions
Richland – 475 pounds VOC reductions

- Car Care Awareness (April 2006) - The BAQ has drafted a protocol for hosting a Car Care Awareness Project. The draft protocol outlines planning activities associated with this inaugural Car Care Awareness Project and will be shared with the EAC contacts for information and planning consideration.
- BAQ - Education and Outreach – School related activities

March 15, 2007 – At a Department Environmental Quality Control (EQC) Region VI meeting, staff discussed the needs of the region for EAC efforts. Two areas of focus were identified: 1) Anti-idling in the schools (using b2 to kick it off), and 2) Reduce opening burning. Help enforcing the regulations (staff numbers are limited) is needed. Discussion also included the possibility of using the local fire department to help with open burning enforcement actions.

March 21, 2007 – Staff met with Gilbert Middle School (an EIC school) and presented to them the “Air Quality” kiosk panels to be displayed at their outdoor learning center area. Staff worked with several groups at the learning center focusing on the importance of air quality and the state of South Carolina’s air quality.

April 21, 2007 – Earth Day at the State Museum. Staff provided a booth that focused on the importance of using native plants for air quality. A local “Master Gardener” assisted with the booth to learn the importance of using native plants providing her with information to share with clients and colleagues.

April 28, 2007 – Earth Day Birthday at the Museum of York County - Staff assisted with a lawn mower exchange and provided a booth with various publications for the participants including information on energy conservation, native gardening, ozone, driving smarter and other environmental interests.

May 10, 2007 - “Air Quality and Trees” presentation - Staff presented to the Northeast Beautification committee about the importance of trees and using native plants and shrubs. The committee has several projects going on in the Northeast area of Columbia, all of which focus on planning greenways, tree planting, and beautification areas. Several BAQ staff is on the “Trees for Two Notch” sub-committee.

May 23 – 25, 2007 – South Carolina Public Health Association (SCPHA) conference - Staff conducted provided presentations on the b2 program and EPA’s “Tool for Schools”

air quality program. A booth that included several publications on air quality issues (ambient and indoor) focusing on the health effects of poor air quality was provided.

June 6, 2007 - Fountain Inn Elementary School meeting - The school has been working for several weeks with county and city planners to implement b2. The school has taken the program beyond its anti-idling focus. The school has plans to plant shade trees, build benches, landscape needed areas, and re-route bus/carpool traffic.

June 6, 2007 - Conference call with Richland and Lexington counties - The two counties are applying for the "Barrett Lawrimore Memorial Regional Cooperation Award" using the lawn mower exchange that took place at the SC State Museum April 21, 2007. BAQ staff will be providing information.

June 7, 2007 - EQC Education and Outreach committee meeting - The decision was made to move forward with the proposal to award the Duke Energy funds to Greenville County to expand the b2 efforts to other local schools and to help Anderson County with their open burning campaign.

Staff has been involved for the past 3 years with Gilbert Middle School. Several outdoor workshops with the students on air quality have been conducted.

Staff has taught the 7th grade at Northside Middle School the science curriculum incorporating the health and environmental issues of air quality.

Crossroads Middle School, Rosewood Elementary School in Rock Hill and Fountain Inn Elementary School have implemented a no idling policy.

Greenville County was the recipient of a 2006 EPA grant to raise public awareness about air quality, and implement an anti-idling campaign in one county school. The anti-idling campaign is called B2-Breathe Better, and the idea is to spread the program through out the county-wide school district.

December 1, 2006 - Buck Station meeting/Duke Energy, Salisbury, NC - This was the second meeting with Duke Energy to discuss the Lee Station site for the outdoor education center in Anderson County. We visited this well used/established site to get an idea of where the project could be heading. Present at this meeting was a representative from Clemson University for a program called South Carolina Maps and Aerial Photographic Systems (SC MAPS), and a representative from the State Department of Education (Ed Falco). The site will initially be open to all middle school students from Anderson school districts.

November 1-3, 2006 - SC² Convention, Myrtle Beach, SC - Staff provided a booth for educators at the conference as well as a presentation on Breathe Better Air at School (B²@ school) during one of the break out sessions (about 25 attended the session). There were at least 200 educators from all over the state at the conference. Over 60 pledges for the EPA program "Change a Light" Campaign were collected.

November 14, 2006 - Project consult/presentation on Global Climate Change, Rosewood Elementary Rock Hill, SC - Staff presented to an audience of 102 5th grade students facts about global climate change, discussed impacts, contributions, and solutions for the school to present in a project locally, state wide, and globally.

October 3, 2006 - B2@ school district meeting, Chapin Middle School - Staff met with the approximately 45 science teachers from Lexington School District 5 to present the B²@ school program.

October 5 and 19, 2006 – Using the Environment as the Integrating Context for Learning (EIC) Workshop, Gilbert, SC - Staff worked with the students from Gilbert Middle school that are participating in the EIC model. Field studies and investigations on air and water quality in the school's nearby wetland area were conducted. The total number of students in the model for this year is approximately 140.

October 10, 2006 - Lee Station meeting/Duke Energy, Anderson, SC - Staff met with Duke Energy to discuss the plans for the outdoor education center at Lee Station in Anderson County. Palmetto Middle School (an EIC school) will serve as the “host” school for the project. The center will initially be open to all middle school students from Anderson school districts.

August 29, 2006 - EAC Greenville meeting Greenville, SC - Staff met with Sandra Yudice and John Owings from Greenville County as well as several school district personnel to discuss implementation of an anti-idling campaign in the schools using B²@ school as a model. The initial focus will be the middle schools, approximately 18 in the Greenville area.

July 27-28, 2006 - EIC teacher training, Kelly Mill Middle School, Columbia, SC - This two day teacher workshop focused on project ideas for the EIC schools in order to expand existing projects. Staff offered advice on how to keep the projects on track with the EIC model. Teachers that were new to the EIC program attended the workshop which included Gilbert Middle School in Lexington 1 and Kelly Mill Middle School in Richland 2.

June 21, 2006 - Take Action Today, Columbia, SC - This summer workshop provided information, demonstrated lesson plans/ideas, and provided several field trips for educators. All participants received an “Action for a Cleaner Tomorrow” CD to use in their classroom. The workshop is open to all educators in the state. There were 142 teachers attending this workshop.

June 22, 2006 - Museum of York County summer camp, Rock Hill, SC - The one day class focusing on ground-level ozone. There were approximately 16 students in the class that day ranging from third to fifth grade.

May 5, 2006 - Project Discovery, Hilton Head, South Carolina – In collaboration with the South Carolina Educational Television (SCETV) several segments were taped on environmental issues pertaining to the Beaufort area. The segments included a live broadcast where callers could call in with questions on the issues. The BAQ segment focused on open burning. The SCETV viewing area includes the entire state.

April 19, 2006 - York County - Rosewood Elementary - worked with an Environmental Club on understanding and investigating environmental issues.

July 18, 2005 - Bethel Christian Camp - Gaston, SC. Guest speaker/presentation at the camp for "Environmental Day"

March 24, 2006 - Satchel Ford Elementary School - Presentation for Science Day

March 2006 - Central Carolina Technical College (Sumter County), Education and Outreach Support, Environmental Symposium

March 2006 - Keep Beaufort County Beaufort, Local Schools (Beaufort County), Education and Outreach Support, Earth Day Events

March 2006 - Southeast Elementary (Richland County), Presentation for Career Day, Education and Outreach Support

March 2006 - Hampton Conservation District (Hampton County), Education and Outreach Support – Environmental Activity Books, Local Schools

Congaree-Wood Elementary (Lexington County) Education and Outreach Support – Earth Day Activities

Mauldin Middle School (Greenville County) Education and Outreach Support – Earth Day Activities

May 7, 2005 - Earth Fair Irmo, (Saluda Shoals, Lexington County), exhibit for state wide Earth Fair

December 2004 – Present - air pollution reduction program at Crossroads Middle School (Lexington County), Education and Outreach support, environmental school project for SCDHEC pilot program

February 2005 - Pine Grove Elem. School (Richland County), presentation for Science Day

April 15, 2005 - Forest Heights Elem. School (Richland County), presentation for Science Day

October 2004 – March 2005 Sanders Middle School (Richland County), Education and Outreach support

Provide approximately 100 "Driving Smarter" brochures every other month to be placed at the Richland County Administration building.

March 2005 - Berry Shoals Elem. School, (Spartanburg County), educational materials, Special science awards

April 30, 2005 - Museum of York County (York County), exhibit, Earth Day Birthday

2002-present, focus on air pollution reduction strategies - Rawlinson Road Middle School (York County), education and outreach support, environmental school project through the South Carolina Department of Education

- **EAC Ozone Action Needs Assessment Tool** - A survey tool for the 2006 Ozone Season was developed and sent to EAC contacts to: 1) assess their current initiatives, 2) determine their needs for education/information resources and activities and 3) identify how BAQ staff could best support their efforts. Contact was made by BAQ staff with all responders via email and/or telephone for follow-through. A copy of this tool is available.

c. *Breathe Better @ School Program*

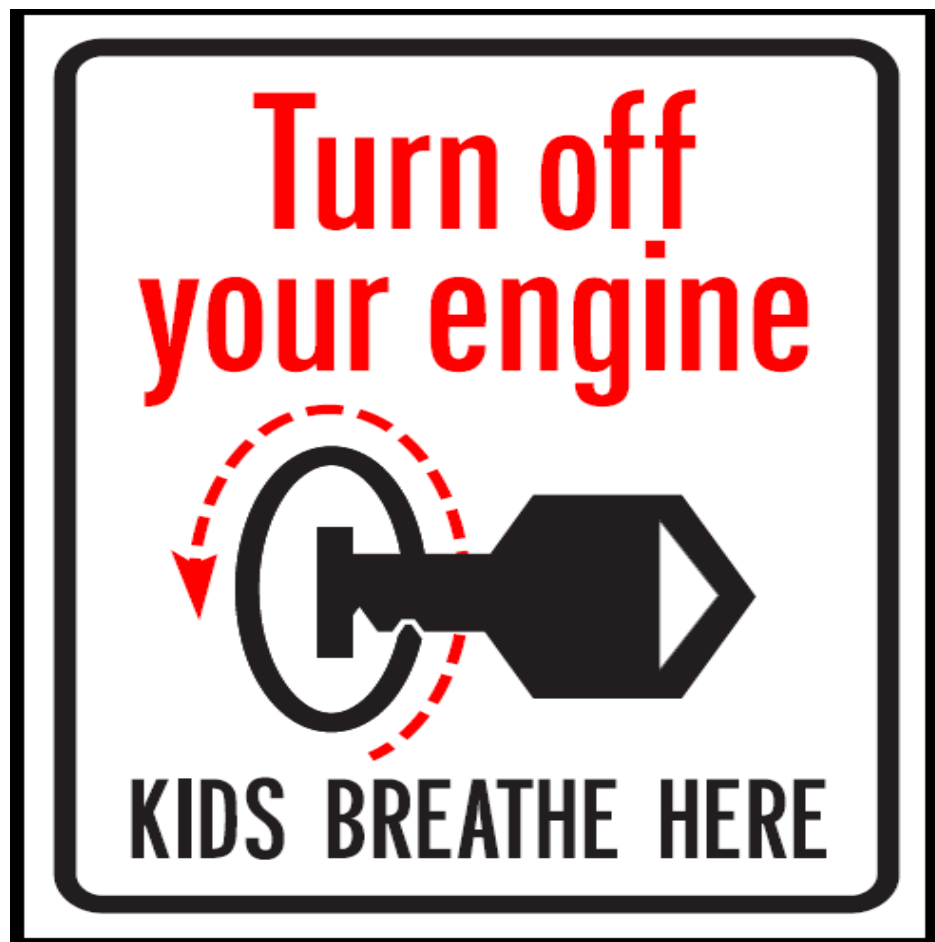
The *B²@ school* (Breathe Better Air at School) program's main focus is reducing air pollution around school campuses so everyone can breathe better. Solutions to reduce air pollution are made possible through the efforts of students, faculty, staff, community and local agencies. The *B²@ school* has many accomplishments to be proud of its first year in existence, the first, receiving the EPA Children's Environmental Health Recognition Award for 2006! Research shows that children, especially those with respiratory conditions, are more sensitive to air pollution. A key component of the *B²@ school* program is policy change within the school. A good example of this is a local school's new policy included in the student/ parent handbook that reads, "We request/advise that any individual in a vehicle that is waiting on a student or adult please turn their car off if weather is permitting. We hope to reduce respiratory problems for our students, staff and improve the air quality in our environment." The school has "No Idling" signs around the campus which were purchased as a result of winning a \$750.00 "**Champions of the Environment**" award. The number of visits to the office for asthma incidences has decreased since the implementation of the "No Idling" policy, and the *B²@ school* coordinator was inducted into the "GreenSteps" Hall of Fame for her commitment to environmental education.

Another accomplishment of the *B²@ school* program is that it is a component of an EPA Clean School Bus grant awarding the state \$500,000 targeted for reducing air pollution through anti-idling programs, retrofitting old school buses and building new ones. As the

B²@ school program expands, the goal is to continue reducing air pollution around school campuses and improving children's health in South Carolina. Information is available at <http://greenstepschools.com/page1.html>

Future plans include working with the Lexington County EAC contact to implement the *B²@ school* program at three Lexington County middle schools. The plans include providing "No Idling signs for those three middle schools as well.

June 2007 – The following sign is utilized at participating schools implementing anti-idling measures.



December 2007- To enable better access, a website for this project has been developed and is located at the following link:

<http://www.scdhec.gov/environment/baq/docs/edu/B2/b2originalprotocol.pdf>

d. South Carolina Educators trained with Action for a Cleaner Tomorrow

In FY05, 28 educators were trained on the Department's environmental curriculum, Action for a Cleaner Tomorrow. There have been 26 trainings with 724 teachers trained from July 2005 through June 2006.

e. Car Care Awareness Month Projects

April 2007

Suddeth Automotive in Richland County offered Free National Car Care Month Inspections. The inspections were offered on Monday thru Friday between 9 AM and 4:30 PM during the entire month of April. In addition, Suddeth Automotive offered a Free Women's Car Care Seminar on Saturday April 28. Door prizes, drawings and refreshments were offered. The Department supplied "Driving Smarter For Tomorrow" brochures which included tips to save money, improve vehicle reliability, reduce air pollution, and maximize fuel economy.

April 2006

In recognition of Car Care Awareness Month, the Department and Richland and Lexington counties organized a vehicle maintenance check event in April. The State Museum, Ben Satcher Ford and Pope Davis Tires helped sponsor this free event on April 1, from 10 a.m. until 2 p.m. at the State Museum on Gervais Street. A team of certified technicians made suggestions for improving vehicle safety and gas mileage. The technicians also performed vehicle checks and raised citizens' awareness about how proper maintenance of a vehicle can help to reduce air pollution and protect the public's health.

The goal of the event, held on April 1, 2006, was to increase the target audience's awareness about the importance of car maintenance in preserving good air quality. To reach this goal, several objectives were set, and our ability to meet those objectives is documented herein. The objectives were: to have 100 cars come through the car check lanes, create a replicable project that can be implemented in other areas across the state, and to educate drivers and volunteers who participated in the event about the importance role vehicle maintenance plays in preserving good air quality. The target audience was drivers local to the downtown Columbia area.

This event was on a large scale, and approximately 60 cars were assessed during the four-hour event. At least 2 more technicians would have been needed to have reached the first objective. This is based on the average time per car was approximately 15 minutes, from the time the pre-survey was taken to the time the post-survey was collected and information was provided to the participant.

To help promote this event, a news release was issued by *The State* on April 1, 2006, titled – DHEC helps drivers focus on car care with expert advice.

Statistical information for this project:**Tire issues:**

- **5 vehicles**, or 8 percent, had at least one tire with low tread. Most states recommend tire tread to be 3/32 inches or higher.
- Since each vehicle varies on tire pressure, stats on how many vehicles had low tire pressure are not available. Over half of the vehicles at the event needed tire pressure adjustments in at least one tire or more.

The level of:

- CO₂ (standard is: 14-16 percent) 0 vehicles, or 0 percent, exceeded the standard
- HC (standard is: 100) 10 vehicles, or 17 percent, exceeded the standard
- CO (standard is: 1.0 percent) 7 vehicles, or 12 percent, exceeded the standard
- O₂ (standard is: 1.0 percent) 13 vehicles, or 22 percent, exceeded the standard

OBD light on: 6 vehicles, or 10 percent, exceeded the standard

Air Filter: Air filters in 15 vehicles, or 25 percent, needed attention

The BAQ has drafted a protocol for hosting a Car Care Awareness Project. The draft protocol outlines planning activities associated with this inaugural Car Care Awareness Project and will be shared with the EAC contacts for information and planning consideration.

f. Earth Week

2007 - Governor Sanford signed a proclamation declaring April 22-28, 2007 as “Earth Week” in support of the efforts described above. A copy of this proclamation is located at: <http://www.scdhec.gov/eqc/baq/pubs/earthweek.pdf>.

The Department, with the help of volunteer staff, celebrated Earth Day 2007 throughout the state. During the month of April and the first part of May, staff participated in many community Earth Day events including grade schools, colleges, churches, hospitals, historic parks and private industry (BMW). Staff presented on topics such as air sampling, criteria pollutants, ozone formation, open burning, electric lawn mowers, hybrid electric vehicles, and greenscaping. Distributed information discussed particulate pollution and health, automobile emissions, spill-proof gas cans, the benefits of urban trees, and energy conservation. School aged children were enthused to receive promotional items such as environmental activity booklets, recycled pencils, and several themed posters included ways to help reduce air pollution.

Many adults were also excited about their newfound environmental concepts such as the use of native plants, compact florescent light bulbs, alternate fuels and the display of hybrid vehicles at events around the state. Many onlookers stated that they planned or hoped to make a hybrid car their next vehicle of purchase. Information that was collected through an evaluation tool is still being collated and will be available.

Earth Day Activities – 2007

Activities included:

Air sampling and monitoring presentation at Coker College
Lawn Mower Exchange at the S.C. State Museum
First Annual Kids Earth Day in Camden
Gas Can Exchange in Greenville
N. Augusta Kids Day in Aiken County
Earth Day at Park Circle in Charleston
Saluda Shoals Park Earth Fair

Over ten-thousand (10,000) environmental materials were distributed which included:

"Particulate Matter and Your Health" brochures
"Ozone and Your Health" brochures
"Drive Smarter" brochures
"Don't Spill When You Fill" brochures
"Good Up High, Bad Near By" ozone posters
"Air is Everywhere" posters
"Champions of the Environment" pencils
B2 @ School postcards
BLWM Recycling Posters
Spare the Air coloring books
Air Pollutants bookmarks
EPA 'No Idling Campaign" VHS video
"Earth Today" VHS video
Energy Conservation pamphlets
Hybrid Vehicles and Auto Emissions fact sheets
Fish's Wish Books
BOW pencils
BOW bookmarks
Petwaste magnets

Earth Day Website Resources were also identified and provided at this web address:

<http://www.scdhec.gov/environment/earthtoday/schools.htm>

2006 - Governor Sanford signed a proclamation declaring April 16-22, 2006 as "Earth Week" in support of the efforts described above. A copy of this proclamation is located at: <http://www.scdhec.gov/eqc/baq/pubs/earthweek.pdf>

Earth Day 2006 included DHEC celebrating **Earth Day** with participating schools all around the state with help from volunteer staff. Throughout the month of April staff visited with registered schools and watched DHEC's Emmy-award winning *Earth Today*

video with students. Following the video, staff held question and answer sessions, lead environmental projects, and distributed promotional items such as wildflower seed packets, activity booklets, recycled pencils and posters.

With an initial target goal to reach 6,000 students, volunteers extended outreach to over 11,000 general audience members in twenty (20) of the forty-six (46) counties. In addition, The *Earth Today* video was among the top 100 videos, among 3,406, requested from SCETV's Streamline Program for the month of April.

Staff found students enthused about the video and eager to participate in the follow-up questions. Several schools have already expressed the desire to participate in next year's Earth Day events while the Department anticipates hearing of the environmental efforts initiated by participating school in the coming months.

Many adults were also excited about their newfound environmental concepts such as alternate fuels and the display of hybrid vehicles at events around the state. Many onlookers stated that they planned or hoped to make a hybrid car their next vehicle of purchase. Information that was collected through an evaluation tool is still being collated at this time, but will be available.

Earth Day Activities - Friday, April 21, 2006

The Department set a goal for 2006 to send employees into more than 200 classrooms across the state to help raise environmental awareness among our students. Employees viewed the Department's three year running, Emmy-winning video *Earth Today* with students and answering questions afterward. The Agency's Earth Day materials were available for staff visiting with classrooms.

Via the S.C. Dept of Education, Science teachers and Media Specialist around the state were invited to register and participate. The Department's website included Earth Day plans and information for teachers to register: <http://www.scdhec.gov/earthtoday/>.

Additional information on the agency's plans for Earth Day and Education and Outreach services was available during the following briefings scheduled for March at the Department's Central Office in Columbia on the following dates:

Friday, March 3, 2006 - 10 a.m.

Friday, March 10, 2006 - 10 a.m.

Friday, March 17, 2006 - 2 p.m.

Friday, March 24, 2006 - 10 a.m.

Friday, March 31, 2006 - 10 a.m.

The following are Earth Day 2006 participants in which Education and Outreach Support was provided:

McLees Elem	Anderson
Starr Elem	Anderson
Wren Elem	Anderson
Grove Elem	Greenville
Armstrong Elem	Greenville
Liberty Elem	Pickens
Greenview Elem	Greenville
Calvary Christian Central	Greenville
Lone Oak Elem School	Spartanburg
Cannons Elem	Spartanburg
Inman Elem	Spartanburg
DR Hill Middle	Spartanburg
West View Elem	Spartanburg
USCS Upstate	Spartanburg
Great Falls Middle	Chester
Rosewood Elem	York
Andrew Jackson Middle School	Lancaster
Jefferson Elem	York
Gold Hill Elem	York
Indian Land Elem/Middle School	Lancaster
Chester Park Elem School of Arts	Chester
Cotton Belt Elem	York
A R Rucker Middle	Lancaster
Chester Park Elem School of Arts	Chester
Heath Springs Elem	
Bethel Hanberry Elem	Richland
Lexington Elem	Lexington
Plainview Elem	Chesterfield
Schofield Middle	Aiken
Paul Knox Middle	Aiken
Warrenville Elem	Aiken
N. Augusta Earth Day	Aiken
Aiken's Earth Day	Aiken

Carolina Forest Middle	Horry
Jasper County High	Jasper
Cottageville Elem	Colleton
Rosewood Elem	Richland
North Springs Elem	Richland
H.B. Rhame Elem	Richland
Forest Lake Elem	Richland
North Springs Elem	Richland
Montessori School of Camden	Kershaw
Forest Heights Elem	Richland
White Knoll Middle	Lexington
Rice Creek Elem	Richland
Lake Murray Elem	Lexington
Congaree-Wood Elem	
Sandhills Intermediate	Lexington
Lake Murray Elem	Lexington
Bethel Academy	Richland
St. Peter Academy	Richland
Earth Fare Earth Day	Richland

g. Small, Gas-powered Engine Exchange Project

- Staff is currently meeting with EAC contacts in Greenville, Richland and Lexington counties to discuss the development of a small gas engine exchange project. Specifically, the project is targeting the exchange of gas-powered lawn mowers for electric mowers. A copy of the logic model for planning this event is available. Also available is a draft needs assessment tool to assist the planners in gathering information to help identify support/barriers to supporting this project. It is tentatively planned to be utilized with a sample of the target audience prior to finalizing planning for implementation of this project.

December 2007 - Richland and Lexington Counties and BAQ staff are planning a lawnmower exchange event to be held in 2008. A planning meeting was held on September 11, 2007. The target date for the event is the Spring of 2008.

November 2007 - The Education and Outreach section of the Department's BAQ will be coordinating a "Mow Down Pollution"- Lawn Mower Exchange event and promoting energy efficiency activities, particularly related to use of computer equipment, with local government in the Duke Energy service area in South Carolina. These activities will present opportunities to raise awareness of air quality issues in the Upstate of South Carolina and reduce emissions of air pollution. The funds (\$6500.00) will be used for but not limited to: advertising and promotion, creating brochures and other written materials,

providing promotional items and subsidizing the cost of the electric lawn equipment. This project will be completed by December 31, 2008.

June 2007 – “Mow Down Pollution” Event (April 21, 2007) - Lexington and Richland Counties in conjunction with local non-profit Keep the Midlands Beautiful, and the Department’s Bureau of Air Quality (BAQ) planned and implemented the first lawn mower exchange in South Carolina. To encourage Columbia-area residents to do their part to "Spare the Air," the lawn mower exchange was held at the State Museum to Mow Down Pollution! The lawn mower exchange coincided with other activities the museum hosted to celebrate Earth Day. The event collected empty, functional gas powered lawn mowers and offered a discount between 30 percent and 55 percent off MSRP on Neuton cordless electric mowers. To compliment the lawn mower exchange, other partners were invited to exhibit Greenscaping information at the event. These partners helped extend the impact of the exchange by highlighting complimentary lawn and garden practices that help protect air quality. The Columbia event collected 155 gas-powered mowers as trade-in. These mowers were recycled by Lexington County and thereby removed from operation. Our estimated emission reductions are 6.8665 tons VOC per year and 14.1205 tons CO per year (based on EPA emissions for 2 cycle gas mowers). Refer to Attachment 2-2 for the DRAFT “Mow Down Pollution” report and the participant survey.

- December 2006 - EAC contacts in Richland and Lexington Counties are continuing to plan for a small gas-powered lawn equipment exchange. A survey tool has been developed and is being utilized at various events held in these two counties to gauge citizen interest for such an event. The notes from the most recent meeting of the planning committee for this project are available. Here is the memorandum language being utilized with the survey tool:

“The following message is brought to you by a partnership of Lexington County, Richland County, Keep the Midlands Beautiful, and SC DHEC.

As part of South Carolina's 2007 Emissions Reduction Campaign, you have been selected to participate in a voluntary survey to help us improve our community's Air Quality. The link below will take you to a survey that will ask you questions about your lawnmower use. We will use your answers to help us plan a **"Trade It In For Cleaner Air"** lawn mower exchange, currently scheduled for March/April 2007 for Lexington and Richland Counties.

The **"Trade It In For Cleaner Air"** Event will offer participants a great discount on a new electric lawn mower when they bring in their old gas-powered mower to be recycled. *A trade-in will not be required.*

Operating a lawn mower releases chemicals that create Ground Level Ozone, a federally regulated criteria air pollutant. This is especially true of old lawn mowers, and includes leaf blowers, weed trimmers, chainsaws, and other gas-powered lawn equipment. By

participating in the event, residents will be able to get a great deal on a new electric mower, AND promote good Air Quality *at the same time!*

For more information about the "**Trade It In For Cleaner Air**" Event, please call 803-898-2233. For more information about South Carolina's 2007 Emissions Reduction Campaign, please call... More information about Ground Level Ozone, including its impact on your health, please visit www.scdhec.gov".

Press Coverage

Over the last several years, numerous press releases, news publications and television reports have been done on the early action process. Additional articles for specific areas may be found in the local progress reports submitted by the participating areas.

2007

Upstate residents cautioned about ozone conditions (September 5, 2007)
<http://www.scdhec.gov/administration/news/2007/nr20070905-01.htm>

Upstate residents cautioned about ozone conditions (August 3, 2007)
<http://www.scdhec.gov/administration/news/2007/nr20070803-02.htm>

Upstate residents cautioned about ozone conditions (August 15, 2007)
<http://www.scdhec.gov/administration/news/2007/nr20070815-01.htm>

Residents cautioned about ozone conditions (June 21, 2007)
<http://www.scdhec.gov/administration/news/2007/nr20070621-03.htm>

Climate Registry established (May 2007)
<http://www.scdhec.gov/administration/news/2007/nr20070509-01.htm>

Upstate residents cautioned about ozone conditions (May 2007)
<http://www.scdhec.gov/administration/news/2007/nr20070501-02.htm>

Lawn mower exchange program announced (April 2007)
<http://www.scdhec.gov/administration/news/2007/nr20070409-02.htm>

Fountain Inn Elementary School group named Champions of the Environment (April 2007)—Part of B2@School Effort
<http://www.scdhec.gov/administration/news/2007/nr20070402-01.htm>

Ground-level Ozone forecasts begin with new date and new areas (March 2007)
<http://www.scdhec.gov/administration/news/2007/nr20070326-01.htm>

2006

Alternatives to Open Burning (November 2006)

<http://www.scdhec.gov/administration/news/2006/nr20061108-03.htm>

Citizens Encouraged to Reduce Open Burning (October 2006)

<http://www.scdhec.gov/administration/news/2006/nr20061009-02.htm>

Ground-Level Ozone Alert (August 2006)

<http://www.scdhec.gov/administration/news/2006/nr20060802-01.htm>

Ground-Level Ozone Alert (August 2006)

<http://www.scdhec.gov/administration/news/2006/nr20060801-01.htm>

SmartRide (July 2006)

<http://www.scdhec.gov/administration/news/2006/nr20060731-01.htm>

Ground-Level Ozone Alert (July 2006)

<http://www.scdhec.gov/administration/news/2006/nr20060720-03.htm>

EAC Summit (July 2006)

<http://www.scdhec.gov/administration/news/2006/nr20060720-02.htm>

Ground-Level Ozone Alert (July 2006)

<http://www.scdhec.gov/administration/news/2006/nr20060719-02.htm>

Ground-Level Ozone Alert (June 2006)

<http://www.scdhec.gov/administration/news/2006/nr20060718-01.htm>

Ground-Level Ozone Alert (June 2006)

<http://www.scdhec.gov/administration/news/2006/nr20060621-01.htm>

Ground-Level Ozone Awareness Week/Proclamation (April 2006)

<http://www.scdhec.net/administration/news/2006/nr20060428-01.htm>

Earth Day (April 2006)

<http://www.scdhec.net/administration/news/2006/nr20060420-01.htm>

Car Care Event (March 2006)

<http://www.scdhec.net/administration/news/2006/nr20060320-04.htm>

Open Burning (November 2005)

http://www.scdhec.net/administration/news_archive/releases/2005/200511/nr11BurningGreenville05.htm

Open Burning (October 2005)

http://www.scdhec.net/administration/news_archive/releases/2005/200510/nr10OpenBurning05.htm

Ozone Warning (July 2005)

http://www.scdhec.net/administration/news_archive/releases/2005/200507/nr07OzoneMidlands05.htm

Ozone Warning (July 2005)

http://www.scdhec.net/administration/news_archive/releases/2005/200507/nr07OzoneUpstate05.htm

Ozone Warning (June 2005)

http://www.scdhec.net/administration/news_archive/releases/2005/200506/nr06OzoneAlert6-23-05.htm

SmartRide/Free Ride-OAC (June 2005)

http://www.scdhec.net/administration/news_archive/releases/2005/200506/nr06FreeRide05.htm

SmartRide (June 2005)

http://www.scdhec.net/administration/news_archive/releases/2005/200506/nr06SmartRide05.htm

Ozone Forecasting (April 2004)

http://www.scdhec.net/administration/news_archive/releases/2004/200404/nr04OzoneSeason04.htm

Gas Can Exchange (June 2004)

http://www.scdhec.net/administration/news_archive/releases/pdf_files/2004GasCanExchange.jpg

Gas Can Exchange (June 2004)

http://www.scdhec.net/administration/news_archive/releases/2004/200406/nr06GreenwoodCans04.htm

Non-Road Diesel Rule (May 2004)

http://www.scdhec.net/administration/news_archive/releases/2004/200405/nr05DieselRule04.htm

Ozone Alert (May 2004)

http://www.scdhec.net/administration/news_archive/releases/2004/200405/nr05-06Ozone%20alert04.htm

Ozone Hotline (July 2004)

http://www.scdhec.net/administration/news_archive/releases/2004/200407/nr07OzoneHotline04.htm

Cutting Diesel Emissions (July 2004)

http://www.scdhec.net/administration/news_archive/releases/2004/200407/nr07DieselEmissions04.htm

New OB Regulations (July 2004)

http://www.scdhec.net/administration/news_archive/releases/2004/200407/nr07BurningRules04.htm

Truck Stop Electrification (October 2004)

http://www.scdhec.net/administration/news_archive/releases/2004/200410/nr10MAELECTRIC04.htm

Gas Can Exchange (October 2004)

http://www.scdhec.net/administration/news_archive/releases/2004/200410/nr10MidlandsCans04.htm

GreenScapes Project (November 2004)

http://www.scdhec.net/administration/news_archive/releases/2004/200411/nr11GreenScapes04.htm

August 28, 2002 – DHEC press release – “Planning for Cleaner Air Sooner”

September 3, 2002 – Bureau of National Affairs Daily Environment out of Atlanta announced South Carolina’s decision to take advantage of EPA’s offer to implement early measures to meet the 8-hour ozone standard.

September 5, 2002 – Greenville News – “Upstate will meet new clean air standards before deadline, DHEC says”

Fall 2002 – The Palmetto Planner – A Publication of the South Carolina Chapter of the American Planning Association – included article titled “The Bureau of Air Quality’s Early Action Plan for the 8-Hour Ozone Standard.

September 25, 2002 – DHEC press release – “Meeting on air quality plan set for Oct. 1”

October 1, 2002 – The State – “Groups oppose state’s ozone plan”

October 4 – Greenville News – “Early air effort could keep EPA at bay”

October 4 – Spartanburg Herald-Journal - “DHEC outlines clean-air proposal; State health officials on Thursday explained to an Upstate audience a proposal they say is a common-sense approach to cleaning up South Carolina’s air sooner.”

October 8, 2002 – Morning News – “Pee Dee air quality not up to par of EPA”

October 17, 2002 – Charleston Post and Courier – “State asked to get a jump on tougher ozone standards” – Article summarizing public meeting held in Charleston by DHEC.

November 14, 2002 – Anderson Independent-Mail – “Government agrees to ozone deadline”

November 22, 2002 – Spartanburg Herald-Journal – “Air quality resolution wins support”

November 27, 2002 – Clean Air Today – “SC Officials Discuss Air Quality Plans at Summit”

December 2002 – Spartanburg Herald Journal – “Council votes to join 3-county compact to improve air quality”

December 2002 – Augusta Chronicle – “City considers air-quality plan”

January 2003 – The Charlotte Observer – “York County is trying to get jump on upcoming new standards”

January 30, 2003 – Darlington News and Press – “Ozone problem threatens local economy, DHEC reps, local industry meet to help county avert federal penalties”

February 21, 2003 – DHEC press release – “Ozone early action update meeting Feb. 26”

February 27, 2003 – Anderson Independent Mail – “State wants ideas to clean the air”

February 27, 2003 – The State – “S.C. making plans to clean up its air”

April 28, 2003 – DHEC press release – “Ozone forecasting begins in Pee Dee”

April 28, 2003 – Morning News – “Pee Dee counties added to ozone program”

April 29, 2003 – The Post and Courier – “4 counties to be added to S.C.’s ozone forecast”

April 30, 2003 – Morning News – “Greater ozone awareness brought to Pee Dee”

May 13, 2003 – Anderson Independent Mail – “Group creates plan to reduce Upstate Ozone”

May 15, 2003 – DHEC press release – “Meeting set to discuss air quality proposal”

June 9, 2003 – Anderson Independent Mail – “State warns of sun’s rays and ozone today”

June 9, 2003 – DHEC press release – “Legislators support air quality early action plans”

June 11, 2003 – DHEC press release – “Gas can trade will help air quality” (also includes Public Service Announcements)

2. Commuting Reduction Programs

a. Take A Break From The Exhaust (TABFTE)

The “Take a Break from the Exhaust” (TABFTE) project developed by the Department, is an interactive alternative commute program in which employees are asked to take voluntary actions to help reduce emissions from mobile sources, such as cars and trucks to help improve air quality. Some examples of these actions include: carpooling to work, staying in for lunch, working an alternate work schedule, telecommuting, using mass transit, bicycling or walking to work. The TABFTE project was awarded the *Governor’s 2003 Pollution Prevention Award for State Agencies*. The project’s software tracking tool was important in supporting the Bureau of Air Quality’s (BAQ) application to participate in the U.S. Environmental Protection Agency and U.S. Department of Transportation’s *Best Workplace for Commuters* voluntary program, which as of 2005 the BAQ holds the only designation in South Carolina.

Prior to 2004, the Department focused on behavior changes including, carpooling, riding a bicycle to work and staying in for lunch. In 2004, the Department began estimating emission reductions.

Reductions for 2004 Ozone Season:

BAQ reduced just over 100,000 miles in 2004

598 pounds of VOCs reduced

393 pounds of NO_x reduced

5,494 pounds CO reduced

The utilization of the TABFTE grew in 2005, with the Bureau of Water (BOW), Bureau of Land & Waste Management (BLWM), the SC State Energy Office (SCEO) and the Wisconsin Department of Natural Resources using this program. The BAQ also partnered with the SC Department of Transportation and the SCEO to promote rider ship on the SmartRide alternative transportation project during Ground-level Ozone Season.

On Friday, April 15, 2005, *The State* newspaper wrote a story on one TABFTE partner and his decision to give up his car for a bike and public transportation. This generated interest in more bike and pedestrian paths and public transportation in the Columbia area.

In 2005 the goal for BAQ was to reduce over 100,000 miles. Staff within the BAQ surpassed this goal by almost 40,000 miles! Another goal was to have the TABFTE program reduce 150,000 miles overall. Results program wide showed that the goal was almost DOUBLED!

2005 TABFTE participants included:

Bureau of Air Quality

Bureau of Water

Bureau of Land and Waste Management

South Carolina Energy Office

Wisconsin Department of Natural Resources

Total Reductions for 2005 Ozone Season for South Carolina only:

286,889 miles reduced

1,076 pounds of VOC's reduced

684 pounds of NO_x reduced

Individual reductions for 2005 Ozone Season:

Bureau of Air Quality, SCDHEC: In 2005, BAQ had 111 participants and reduced 139,264 miles during the season. This season the BAQ has reduced 248,700 grams (**548 pounds**) of VOC's and 172,786 grams (**318 pounds**) of NO_x.

Bureau of Water (BOW), SCDHEC: 2005 was BOW's first year of participation. In 2005, BOW had 98 participants and reduced 100,881 miles during the season. This season, BOW reduced 178,948 grams (**395 pounds**) of VOC's and 124,127 grams (**274 pounds**) of NO_x.

Bureau of Land and Waste Management, SCDHEC: BLWM expressed an interest in TABFTE about half way through the season. Even though BLWM plans to participate in full in 2006, the thirty-two participants reduced over 25,852 miles. This season, BLWM reduced 46,086 grams (**102 pounds**) of VOC's and 31,650 grams (**70 pounds**) of NO_x.

South Carolina Energy Office: SCEO provided the grant that enabled TABFTE to come into existence back in 2000. This year, SCEO decided to participate in TABFTE after we made a presentation to their group in February. Even though they are a small group, SCEO reduced 7,892 miles this year. This season, SCEO reduced 14,172 grams (**31 pounds**) of VOC's and 9,798 grams (**22 pounds**) of NO_x.

Wisconsin Department of Natural Resources (WDNR): While attending a National Air Quality Conference in San Francisco, staff spoke with a few people about TABFTE. WDNR expressed an interest, and since TABFTE is a web-based program, we added them to our list of users. In 2005 the twenty participants reduced over 15,513 miles and had a reduction of 18,304 grams (**40 pounds**) of VOC's and 15,266 grams (**34 pounds**) of NO_x.

2006 TABFTE participants:

Bureau of Air Quality

Bureau of Water

Bureau of Land and Waste Management

South Carolina Energy Office

Wisconsin Department of Natural Resources

Lexington County Government

Central Midlands Council of Governments

Winthrop University - York County

York Technical College

Bowater - York County
 Citi Group - York County
 Springs Industries - York County

Results for the 2006 Ground-Level Ozone Season will be provided with the December 2006 Progress Report. As of the date of this submittal, 7 participants have joined the program for the 2006 ground-level ozone season bringing the total number of TABFTE participants to 12.

The following table is an updated list of all participants for the 2006 TABFTE project. It should be noted that participation for TABFTE in 2006 was mixed. Some of the groups that participated in the past did not have as high a turnout as before, while groups added for 2006 may not have had a very high participation rate the first season. As noted in the table below, a number of local governments were added during the 2006 season. The Department hopes to encourage more local governments to participate during the 2007 ground-level ozone season, with an emphasis on counties in nonattainment deferred areas of the state.

Entity Name	City	State	AQI Region
Bowater	Catawba	SC	NA
Bureau of Air Quality	Columbia	SC	Midlands
Bureau of Land and Waste Management	Columbia	SC	Midlands
Bureau of Water	Columbia	SC	Midlands
Central Midlands Council of Governments	Columbia	SC	Midlands
Citigroup	Ft. Mill	SC	NA
Clean Air Works	Charlotte	NC	NA
Florence County	Florence	SC	Pee Dee
County of Lexington	Lexington	SC	Midlands
Jefferson County Department of Health	Birmingham	AL	NA
Kentucky Division for Air Quality	Frankfort	KY	NA
Madison Environmental Group, Inc.	Madison	WI	NA
South Carolina Energy Office	Columbia	SC	Midlands
Springs Industries	Fort Mill	SC	NA
Wisconsin DNR	Milwaukee	WI	NA
Winthrop University	Rock Hill	SC	NA
York Technical College	Rock Hill	SC	NA

The Department as a whole posted impressive numbers but involvement in BOW and BLWM was off for 2006. One of the goals for 2007 is to establish a permanent contact in each of those areas to help encourage participation. This was discussed at the Environmental Quality Control (EQC) Outreach meeting on November 8, 2006. In 2006,

the Department reduced almost 150,000 miles traveled, over 590 pounds of VOC's and over 400 pounds of NO_x.

Total Reductions for 2006 Ozone Season for South Carolina only:

162,000 miles reduced
609 pounds of VOC's reduced
387 pounds of NO_x reduced

A number of companies in the upstate were added during the 2006 season as well. While their reductions were not as impressive due to their limited involvement for the season, it is expected that they will contribute more in the 2007 season. Hopefully with the "Clean Air Forever" effort underway the TABFTE project will add many more companies prior to the 2007 ground-level ozone season.

Results for the 2007 ground-level ozone season will be provided in December 2007.

TABFTE has expanded from January 2007 to May 31, 2007. Florence County has expressed an interest in participating and has been set up on the program. Columbia: The Central Midlands Council of Governments (CMCOG) has also been signed up and is participating in the program. The TABFTE program has also been presented during these COG meetings to other State and Local agencies within the area. Plans are to have at least five more meetings with the CMCOG to promote TABFTE. Aiken: TABFTE was presented to stakeholders on two separate occasions in the Aiken area. Although no groups have formally signed up yet, there was interest expressed in the program and follow-up will be conducted to encourage more participation.

December 2007: The four major participants for the TABFTE program in SC for 2007 were: BAQ, BLWM, CMCOG, and the SCEO. The County of Lexington and the City of Columbia are planning on adopting the program for 2008. The BAQ also plans to focus on other state agencies, counties, and major companies prior to the 2008 season.

Total Reductions for 2007 Ozone Season for South Carolina only:

146,991 miles reduced
592 pounds of VOCs reduced
411 pounds of NO_x reduced

Outside of South Carolina, we had two major locations that participated. One was the Mid-America Regional Council in Kansas, Missouri which included a number of companies. The other was the Wisconsin Department of Natural Resources. **Total Reductions for 2007 Ozone Season for these two locations only:**

547,587 miles reduced
2,107 pounds of VOCs reduced
1,455 pounds of NO_x reduced

TABFTE Reductions for 2007			
	Miles	VOC (grams)	NO_x (grams)
Within South Carolina			
Bureau of Air Quality	140,326	255,904	178,004
Bureau of Land and Waste Management	12	525	356
Central Midlands Council of Governments	5,082	9,123	6,305
SC Energy Office	1,571	2,731	1,890
Outside of South Carolina			
Mid America Regional Council	525,810	923,358	637,835
Wisconsin Dept of Natural Resources	21,777	32,560	22,178

b. SmartRide Program

In October 2003, the South Carolina Department of Transportation (SCDOT) conducted the SmartRide Research Project. For four weeks, the SCDOT provided commuter focused transit service and gathered information regarding the use of alternative forms of transportation. The project was a temporary mass transit service that focused on the needs, concerns and preferences of working commuters. Between October 6th and October 31st, 2003, the SmartRide Research Project served an average of 68 riders daily and provided a total of 2,730 passenger trips to and from work. The Smart Ride Research Project represents a strategy that can potentially improve traffic congestion and air quality conditions in South Carolina. The effective utilization of an expanded network of commuter-focused transit operations could result in the reduction of vehicle miles traveled each year.

As a result of the SmartRide Research Project, in June 2004, "SMARTRIDE" returned to the Central Midlands area and continues today. Santee Wateree Regional Transportation Authority began commuter service originating from Camden to the Columbia area and the Central Midlands Regional Transportation Authority began commuter service from the City of Newberry with stops in Little Mountain and Chapin and then on to Columbia. The development of similar "SMARTRIDE" projects in other areas of the State is anticipated.

During the 2005 Ozone Season, to promote SmartRide and to encourage reductions of ozone precursors, free rides were offered for those days designated as Ozone Action Days. The BAQ helped promote this effort by providing posters and public service announcements. In addition, the BAQ provided \$500.00 to help off-set the cost. During the 2006 Ozone Season, free rides on Ozone Action Days will again be offered.

SmartRide Statistics for 2005:**Passenger Boardings:**

Total Newberry – Columbia:

January - November 2005

4,932 boardings

Increase of 200 percent starting with 338 in January and 659 in November

Total Camden – Columbia:

July1 - October 30, 2005

4,770 boardings

The number of boarding approximately doubled per month from July 2004 to June 2005.

Emissions Reductions (Lexington, Newberry, Kershaw, and Richland):

207 pounds NO_x

153 pounds VOC

3,166 pounds CO

SmartRide Statistics for June 2006:**Passenger Boardings:**

Total Camden – Columbia:

November 2005 – May 2006

7,514 boardings

Emissions Reductions (Kershaw and Richland):

684 pounds NO_x

943 pounds VOC

SmartRide Statistics for December 2006:**Passenger Boardings:**

Total Camden – Columbia:

November 2005 – November 2006

14,301 boardings

Emissions Reductions (Kershaw and Richland):

1,368 pounds NO_x

2,152 pounds VOC

Passenger Boardings:

Total Newberry – Columbia:

November 2005 – October 2006

6,408 boardings

Emissions Reductions (Newberry and Richland):

613 pounds NO_x

964 pounds VOC

Again for the 2006 Ozone Season, to promote SmartRide and to encourage reductions of ozone precursors, free rides were offered for those days designated as Ozone Action Days.

During the 2007 Ozone Season, to promote SmartRide and to encourage reductions of ozone precursors, free rides will be again be offered for those days designated as Ozone Action Days. BAQ staff met on June 12, 2007, with the new SCDOT project coordinator. Discussions included issuing a press release; updating the SmartRide website; increasing ridership; and, possible expansions.

December 2007 – BAQ staff plan on meeting with the SmartRide project coordinator later this year or early 2008 to assist with the development of expanding routes to other areas in the Midlands.

SmartRide Statistics for December 2007:

Passenger Boardings:

Total Camden – Columbia:

November 2006 – October 2007

12,332 boardings

Emissions Reductions (Kershaw and Richland):

1,642 pounds NO_x

2,269 pounds VOC

Passenger Boardings:

Total Newberry – Columbia:

November 2006 – October 2007

11,709 boardings

Emissions Reductions (Newberry and Richland):

1,584 pounds NO_x

995 pounds VOC

c. SIGIS carpool matching program

The Department initiated a web-based, map based carpooling program in December 2005. The Shared and Integrated Geographic Information System (SIGIS) program facilitates ridesharing opportunities throughout the state by allowing interested employees to map their commute trip information and view the trips entered by other employees. The program is available to 4,987 Department employees in eight environmental quality control offices, eight regional public health offices, four Ocean and Coastal Resources Management Offices, and eight office locations in Columbia. At this time there are approximately forty-five participants. The program has undergone some

recent refinements. A second agency-wide email notification about the program was sent out on June 27, 2006 from Earl Hunter, Commissioner of the Department.

As of December 2006 the total number of participants in the SIGIS program is 54. A total of 34 employees added their names to the list this year.

As of June 2007 the total number of participants in the SIGIS program is 64. Nine new employees have added their names to the list so far this year.

d. Best Workplace for Commuters

The Bureau of Air Quality was designated as a "Best Workplace for Commuters" on February 3, 2005. Currently, the BAQ holds the only designation in South Carolina. However, BAQ continues to promote this program to EAC areas and to other program areas within the Department.

As of December 2006, the BAQ continues to maintain the "Best Workplaces for Commuters" (BWC) status, based on records from the TABFTE project. BAQ staff continues to promote BWC to local stakeholders as a part of our general outreach campaign. A recent presentation to Lexington County included information on BWC. An insert to be included in the EPA "Best Workplaces for Commuters" brochure has been developed. This insert is more closely tailored to target South Carolina business professionals, local governments, and other organizations. Initial feedback has been positive however there are a number of organizations that are still unaware of the benefits possible by participating in this program. A goal for 2007 is to continue to promote this opportunity to other programs within the Department as well as any other organization looking for a voluntary measure proven to benefit employees and air quality alike.

June 2007 – EPA will no longer fund the BWC program. The Department will continue to promote best workplace practices to other programs within the Department as well as other organizations seeking voluntary measures proven to benefit employees and air quality.

December 2007 - EPA has since announced that the Center for Urban Transportation Research (CUTR) at the University of South Florida will assume responsibility for management of the program when the EPA relinquished it on October 1st. The Department continues to meet the minimum requirements.

e. Audio-conferencing

The Department offers employees 3 audio-conferencing choices based on the number of participants (up to 6, up to 30, or up to 144 lines). Department employees as well as other state agency employees were faced with travel restrictions in the late summer

months of 2005. Employees were notified via e-mail of the audio-conferencing capability.

The Department continued to offer audio-conferencing capabilities for 2006 and 2007.

f. Duke Energy

Duke Energy is sponsoring a pilot program to subsidize public transportation costs for Charlotte-area employees. The pilot program, September 1 through December 31, 2006 will provide subsidies and incentives around bus transit, carpools and vanpools for full-time and part-time employees, including the Catawba Nuclear Station located in York, South Carolina. Company executives recognize that environmental stewardship is a shared responsibility and that along with the company investment in emission controls at power plants, transit subsidy is also an important piece of the effort to reduce ozone-related emissions.

Duke Energy has also provided funding in the amount of \$5,000 to the County of Greenville, with the Department's BAQ as the administrator of this grant to implement activities to address air quality. The timeframe for this grant is March 1, 2007 to December 31, 2007. A copy of the grant agreement and authorization by the County of Greenville is attached in Enclosure 2-3.

g. Bike to Work Events - 2007

May is National Bike Month, and Friday May 18, 2007 was "Bike-to-Work Day." The Department's State Nutrition and Physical Activity Consultants, Division of Injury and Violence Prevention, and Bureau of Air Quality encouraged Department staff in Columbia to participate in a "Bike-to-Work Day" ride coordinated by Central Midlands Council of Governments and the City of Columbia, and/or to bike to lunch together. The Columbia/CMCOG ride started at Boyd Plaza in Columbia (NW Corner of Hampton & Main). The ride took about 20 minutes for the average rider. Maps and routes were provided.

Because bicycle commuting helps reduce ground-level ozone pollution, global warming emissions and other pollutants, it is an air quality strategy being pursued around the state. Cycling has the potential to provide significant societal benefits in other aspects of life such as health, resource consumption, and the cost of transportation.

Bike to Work Week biking events were held this year in Greenville, Columbia, Spartanburg and Rock Hill, and an awareness event was held in Summerville. The Department shared information about Bike to Work Day with all EAC contacts. The cities of Spartanburg and Columbia are working towards "Bicycle-Friendly Community" designations.

Eight people from the Department participated in the Bike to Work Day ride around the statehouse coordinated by the City of Columbia and the Central Midlands Council of

Governments. They included Brandy Armstrong, Leslie Coolidge, Jay Daniels, Shawn Gerald, Michael Juras, Heinz Kaiser, Maeve Mason, and Paul Wojoski. The Department contingent made a substantial contribution to the ride. A group of ten biked to lunch at the Taste of China, including Brandy, Leslie, Shawn, Heinz, Michael, Paul, as well as Brian and Lynn Barnes, Debra Briggs-Monroe, and BAQ Chief Myra Reece! Amy Curran and Marian Nanney walked to join the group, to make a party of twelve.

A new commuter bike was on loan for the day, and was used for both the morning ride (by Maeve) and the lunch trip (by Myra). Amy Curran, Dianne Minasian and Marian Nanney rode the bike around Sims/Aycock campus in the afternoon.

h. Bike Commuting for Air Quality

Spartanburg has received a bronze level Bicycle Friendly Community designation in September 2007. Charleston, Greenville, Rock Hill and Columbia are also working towards designation. Columbia is holding twice-a-month meetings and a monthly lunchtime ride.

i. Bull Street Partners Carpool Group (Organized late summer 2007)

The Bull Street Partners Carpool Group provides employees of the Bull Street area offices of three State agencies (Department of Health and Environmental Control, Department of Mental Health and Department of Social Services) an opportunity to form carpools, thereby saving money and fuel, reducing pollution and reducing the stress of commuting.

The Department's Bureau of Air Quality sent an electronic mail message to contacts in the three state agencies located at the corner of Bull and Harden Streets. The e-mail encourages people interested in regular carpooling, occasional carpooling, or people who are willing to provide a ride home to sign up. The emails have very gone out to two of the three agencies, the third agency e-mail will be sent out shortly. Seven people have signed up to date, and feedback from the agencies about the program has been very positive. 'Goody Bags' of air quality promotional materials are being provided to people from the Department's sister agencies who sign up.

j. September 2007 - "Safe Routes to School" Program is 100 percent Federally Funded

The South Carolina Department of Transportation Commission approved funding for 12 schools to develop comprehensive bicycle and pedestrian programs as part of the newly established "Safe Routes to School Program." Selected schools and their respective communities will soon begin the planning phase of the Safe Routes to School funding process. By partnering with SCDOT, local governments, parents, local law enforcement and educators, each school and community will develop a plan that encompasses both infrastructure and non-infrastructure components. Projects and programs will begin in early 2008. In addition to encouraging children to walk and bicycle to school and to

make walking and bicycling safer, the Safe Routes to School Program recognizes this effort as an activity that will reduce traffic congestion, fuel consumption and air pollution.

3. Ground Level Ozone Awareness Week Proclaimed

2005

Governor Mark Sanford proclaimed **March 28 – April 1, 2005** as Ozone Awareness Week in South Carolina. The EAC areas used the proclamation to launch their 2005 Ozone Awareness efforts. Some of these efforts included:

- *The State* newspaper (which is widely circulated in Richland and Lexington Counties) ran an article recognizing Richland County staff's effort to promote Ground-level Ozone Awareness Week, their work to provide alternative fuel for county flex-fuel vehicles and the link of their county web page for the SCDHEC ozone forecast.
- Richland County staff sent out a press release (03/25/05) to promote Ground-level Ozone Awareness Week and provided additional information on their web page: www.rcgov.us. An email was sent (03/29/05) to almost 900 county employees promoting the week.
- Lexington County EAC contact distributed (03/23/05) Ground-level Ozone Awareness information in paychecks to 1,300 employees.
- Anderson County staff sent out a news release (03/28/05) on Ground-level Ozone Awareness Week and promoted the week on a local radio station, WRIX 103.1FM. An article on Ground-level Ozone was also placed on their county web page: www.andersoncountysc.org.
- SCDHEC staff provided interviews on Ground-level Ozone Awareness Week to two radio stations: News Talk for Charleston 1250AM (03/29/05) and Columbia WVOC 560AM (03/30/05).
- SCDHEC staff provided an interview for WIS-TV in Columbia for Ground-level Ozone Awareness Week. Information may be found at this link: <http://www.wistv.com/Global/story.asp?S=3132984&nav=0RaMXyjF>.
- The Charleston County Administrator sent an email (03/28/05) to county employees regarding Ground-level Ozone Awareness Week and staff set up a display in their Public Services Building to provide more information.
- Laurens County EAC contact distributed (03/22/05) news release to two local newspapers, and included tips on cleaner air and the Governor's proclamation for Ground-level Ozone Awareness Week. A similar package of information was distributed to 300 county employees.
- The York County EAC contact worked with the York County Council to declare March 28-April 1, Ground-level Ozone Awareness Week. Ground-level Ozone Awareness bookmarks were mailed, along with the county council agenda, to 300 citizens.

The following includes materials that were requested by the EAC areas:

County/COG	Item	Number
Chester	Spare the Air – paycheck inclusions	250
Cherokee	Ozone and Your Health	50
Greenville	Ozone and Your Health	200
	Learn Before You Burn	200
	Coloring Books – Spare the Air	100
	Pencils	150
	PDF of Display	1
	Air PSA	1
Charleston	Learn Before You Burn	200
Georgetown	Air is Everywhere Posters	5
Lexington	Air PSA	6
Anderson	Air PSA	1
Spartanburg	Air PSA	1
Appalachian COG	Air PSA	1
Richland	Air PSA	1
Central Midlands COG	Air PSA	1
York	Air PSA	1
Catawba	Air PSA	1
Abbeville	Air PSA	1
Abbeville	Ozone and Your Health (for Paycheck)	200
Allendale	Ozone and Your Health	200
York	Learn Before You Burn	500
	Gas Can Exchange Brochures	100
Aiken	Ozone and Your Health	100
	Coloring Books – Spare the Air	450
	CO2 Brochures 150	150
	Driving Smarter 450	450
	Learn Before You Burn 150	150
	Learn Before You Burn Spanish	100
	Pencils	1 Box (500)
Pickens	Notepads	25
	Pencils	25
	Air Fresheners	25
	Ozone Posters	25
	Care About Air coloring books	25

All counties received:

- Coloring Book
- Bookmarks (*It All Adds Up To Cleaner Air*)
- Posters (*Ozone, Air is Everywhere, Good Up High*)
- Ozone and Your Health* Brochure and Electronic Version
- Instructions to link to the SCDHEC Bureau of Air Quality website
- Note Pad
- Pencil
- Information on EPA website
- Draft Press Release
- Electronic Version of Proclamation
- 25 Things To Improve Air Quality* flyer and Electronic Version

Department contributions:

- Letters and 2,000 posters to doctors' offices statewide regarding ozone
- Distributing 5,000 flyers in paychecks
- Press releases
- E-mail about Ozone and Proclamation sent to Air Program staff

2006

Governor Mark Sanford proclaimed **May 1 – May 7, 2006** as Ozone Awareness Week in South Carolina. This was the seventh consecutive year for this proclamation. A news release was issued by the Department on April 28, 2006.

An **Ozone Action Needs Assessment Tool** (Tool) was sent to all of the EAC contacts. The Tool was developed to assist local areas in promoting awareness of the 2006 8-hour Ozone Season and the Early Action Compact (EAC) process. Local areas were encouraged to promote and implement measures that will reduce ozone precursors within their county. The Tool offered suggestions for strategies that will increase awareness and thereby create a positive impact on public health and the environment. Local areas were asked to review the list of activities/strategies and indicate if they have already implemented; will implement in 2006; request additional information/assistance; or are not interested. The Tool was returned by nineteen EAC contacts. Staff within the division contacted those counties that returned the Tool and are providing additional information and assistance.

An example of a request from an EAC regarding this follow-up:

Spartanburg County requested a number of outreach materials and was provided:

- 150 Clean Air Kid Bookmarks
- 10 Ozone Action Class Brochures
- 10 DHEC Environmental Outreach Booklets
- 100 Drive Smarter for tomorrow
- 10 Good Up High, Bad Nearby Posters (Small)
- 10 Good Up High, Bad Nearby Posters (Large)

2007

Governor Mark Sanford proclaimed **April 1 – April 7, 2007** as Ozone Awareness Week in South Carolina. This was the seventh consecutive year for this proclamation.

A news release was issued by the Department on March 26, 2007. The Department's BAQ has over the past two years observed elevated levels of ground-level ozone during the month of April. In 2007, management made the decision to begin forecasting for ground-level ozone a month earlier than in previous years to alert South Carolinians in the event elevated levels occur early. The forecast area was expanded this year to include a new region and the addition of two counties to an existing forecast region. Added is the Catawba region which includes York, Chester and Lancaster counties. Marlboro and Dillon counties have been added to the Pee Dee regional forecast.

4. Regulatory Initiatives

In early 2003, the Department began meeting with industry representatives, environmentalists, local governments, and other interested parties to develop state-wide regulations for the purpose of getting additional Oxides of Nitrogen (NO_x) and Volatile Organic Compounds (VOC) reductions to assist us with the EACs. NO_x reductions were focused on during these meetings because modeling indicates that, with respect to ozone formation, NO_x is the critical pollutant. Furthermore, sensitivity analysis has demonstrated that VOC reductions have very little impact on ozone in South Carolina. The EAC process resulted in the promulgation of one new statewide regulation to control NO_x from stationary sources. In addition, the existing open burning regulation was revised to add more stringent restrictions. Upon publication in the June 25, 2004 issue of the *State Register*, the EAC regulations became effective. (It is important to note that local officials and industrial leaders supported the Department's promulgation of the Control of NO_x Regulation and the amendments to the open burning regulation.)

Regulation 61-62.5, Standard 5.2, Control of Oxides of Nitrogen

The Control of Oxides of Nitrogen NO_x Regulation (R.61-62.5, Standard 5.2), while not needed to demonstrate attainment, will help ensure the areas attain and maintain the 8-hour ozone standard. The Control of NO_x Regulation requires Best Available Control Technology (BACT)-level controls on all stationary sources that emit or have the potential to emit NO_x. Many of these sources would not otherwise be required to control their NO_x emissions. For example, under the Clean Air Act requirements, the preconstruction review program referred to as New Source Review (NSR) only applies to larger sources (generally those with potential emissions greater than 100 tons per year or more). For sources with emissions below these levels, there are generally no controls for NO_x required.

This newly-developed regulation is applied statewide to new and existing stationary sources of NO_x emissions. Larger sources that have undergone a BACT review for NO_x are exempt from the regulation; however, larger sources that have taken limits to opt out of a Prevention of Significant Deterioration (PSD) review will still be required to comply with this regulation, which covers sources ranging from boilers and turbines to fluidized bed combustors and lime kilns. For existing sources, the regulation only applies when an applicable unit undergoes a burner replacement, at which time the burner must be replaced with a low burner or equivalent technology capable of achieving a 30% reduction from uncontrolled levels.

Appendix 13 of the December 2004 EAC SIP submittal provides estimated NO_x reductions that are expected as a result of the implementation of this new regulation. These estimates have also been included in Appendix 16 of the December 2004 EAC SIP as part of the county-level emission reductions for the EAC areas. The tables are divided into three groups (two of the tables provide expected NO_x from regulation 61-62.5, Standard 5.2; the third table provides reductions expected from the revisions to the open

burning regulation). The first table in Appendix 13 of the December 2004 EAC SIP provides estimates based on the percent reduction to be achieved for new sources. The reductions for new sources vary greatly depending on the source type. For instance, new combined-cycle natural gas turbines of less than 50 megawatts capacity must have controls installed that will achieve the equivalent of a 94% reduction from uncontrolled levels. The control requirements will help ensure that the growth of NO_x emissions is controlled. The second table in Appendix 13 of the December 2004 EAC SIP pertains to estimated reductions from existing sources. As this regulation will be triggered upon the replacement of burners at existing sources, it may take a number of years for these reductions to be realized. However, these estimates, based on the number of applicable sources in the inventory, indicate that when fully implemented, the regulation has the potential to reduce NO_x emissions by 2,913.51 tons per year. It is important to note that these reductions were not used to support the modeling demonstration. Even without these additional control measures, which will apply statewide rather than just in select areas, modeling analysis indicates that all monitors will be attaining the standard by 2007. However, the reductions from these regulations are quantifiable, permanent, and will ensure that South Carolina gets cleaner air sooner.

Regulation 61-62.2, Prohibition of Open Burning

The most significant revisions to this regulation are as follows: deleting the exception for the burning of household trash, revising the exception for the burning of construction waste, and revising the exception for fires set for the purpose of firefighter training. The burning of household trash presents health and environmental concerns for many communities. The smoke generated from these activities is a nuisance to some and a health threat to others with asthma or other respiratory problems. Furthermore, the Department spends a lot of staff time and resources responding to complaints related to these activities. Regulation 61-62.2 had previously prohibited the burning of household waste except where other disposal options were not available. This activity is now clearly prohibited, which should provide the clarity necessary to help us enforce this restriction.

With respect to the exception for the burning of construction waste, the Department has revised this provision to allow only residential construction waste to be burned. Residential construction waste can only be burned outside of the ozone season (which runs April 1 through October 30), between the hours of 9:00 a.m. and 3:00 p.m., and must be conducted at least five hundred feet from any occupied structure. Furthermore, only certain “clean” wastes are allowed to be burned. (“Clean” wastes would be residential construction waste free of heavy oils, wood treatment products, asphaltic materials, natural or synthetic rubber, or any other trade wastes which would produce smoke in excess of forty percent capacity.) Again, the Department believes that the burning of construction waste presents health and environmental concerns for many; prohibiting a significant portion of this waste from being burned will alleviate some of these concerns and provide additional NO_x reductions.

Finally, the exception for the purpose of firefighter training has been revised to ensure that minimum health, environmental and safety concerns are addressed. Prior Department

approval is required in order to obtain the exemption as a permanently established training site. Fires set for the purpose of fire-fighter training at non-permanent locations must receive Department approval prior to the initiation of any burning activity.

Based on the Department's 1999 emissions inventory, residential burning of household waste generates 2,379 tons of NO_x and 11,896 tons of VOCs in the state annually. Such emissions reductions can be realized with the Department's implementation of the ban on burning of household waste. Emissions inventory data also indicate that an annual reduction of 147 tons of NO_x and 625 tons of PM would be realized under the revisions to the residential construction waste burning provision (see Appendix 13 of the December 2004 EAC SIP for further information). Although information on the reduction of NO_x and VOCs resulting from the ban on burning commercial construction waste is not available, it is presumed that substantial reductions of those pollutants will occur with the implementation of this prohibition. Additionally, Appendix 16 of the December 2004 EAC SIP includes county-level emission reductions and descriptions for the EAC areas.

On April 14, 2005, the Department issued a news release reminding citizens in SC of the revised regulations. Additional news releases were sent out during the fall of 2005 to encourage citizens to use alternatives for disposing of yard trash.

On October 9, 2006, the Department issued a news release encouraging citizens to reduce open burning of yard debris. Additional news releases during the fall of 2006 included October 15, 2006, "Open burning poses threats" in the Anderson County – Independent Mail; October 2006 and "Alternatives to burning waste urged" in the Greenville News. Lexington County officials are working with stakeholders to reduce open burning within the County. On October 25, 2006, The State published an article on officials considering restricting fires in subdivisions and construction sites. For additional information regarding the discussions in Lexington County see Enclosure 3 – Local EAC Activities.

A workgroup was established in 2005 that includes staff representation from the Department's Bureau of Land and Waste Management (BLWM) and the Bureau of Air Quality (BAQ). The intent of this workgroup has been to develop a tool for staff, especially regional inspectors, to more clearly outline the regulations the two Bureaus have related to Open Burning regulations. This is an effort to enable staff to more effectively use these regulations in the response to complaints on open burning. Accompanying the work of this group will be training of staff in the use of this new tool and the development of an outreach plan to increase awareness of the public regarding open burning, and alternatives to this action. A plan (DRAFT Open Burning Campaign Logic Model; June 2006) is attached. Workgroup meeting notes are available. The resource tool mentioned above has been developed and is awaiting management approval as of December 1, 2006.

On April, 26, 2007, the Waste Disposal Matrix Document tool described above was approved for use internally with staff in the BLWM and BAQ. A meeting of the inter-bureau workgroup is scheduled for June 28, 2007 to discuss the development of a training plan to use this tool with the appropriate staff.

On September 28, 2007, the managers of the education and outreach sections for the BLWM and for the BAQ met with staff from the Agency Media Services to discuss the development of a statewide Open Burning information campaign. This campaign is tentatively set to begin in the Spring of 2008 and will include TV and radio PSAs, and print materials targeting various key audiences with messages on options to open burning materials.

Draft June 6, 2006

- a. Create a Program Logic Model
 - i. Identify the impacts (outcomes) of the project on the intended audience and/or issue. Start with the broadest, or long-term outcome, then add the steps (mid- and short-term outcomes) needed to get there.
 - ii. List the activities and outputs needed to achieve the outcomes.
 - iii. List the resources needed and/or available.
 - iv. Read the model left-to-right as a series of “If...then...” statements.
 - v. Restate the outcomes as SMART objectives.
 1. Specific
 2. Measurable
 3. Audience-directed
 4. Ambitious
 5. Realistic
 6. Time-bound

Impacts:

1. Public Awareness
 - a. Gain knowledge about the pollution caused by open burning various materials
 - b. Positive experience
 - i. Positively affect attitude toward DHEC, counties, partners
 - ii. Realize there is something each person or contractor can contribute to the pollution solution
 - iii. Positive feeling about alternatives to open burning waste products from various sources
 - c. Behavior Change
 - i. Recycling materials where possible
 - ii. Reducing the amount of materials burned
 - iii. Transporting materials to appropriate landfill
 - d. Spreading the word
 - i. Participants will spread the word about the event to their families, friends, business associates
 1. It must be well organized
2. Short Term Outcomes
 - a. Positive reaction
 - b. Increased awareness of open burning as source of air pollution
 - c. Increased awareness of options
3. Mid term Outcomes
 - a. Use of recycling alternatives (curb side, drop-off stations)
 - b. Spread the word
4. Long term outcomes

- a. User begins to realize impact of daily activities on environment
 - b. Word spreads and project grows, impact more people
 - i. Message about air quality spreads with project, begins to take hold in people's minds, making it easier to reach them with future projects
 - c. Reduction in open burning complaints to regional staff
5. Resources
- a. DHEC staff
 - b. Early Action Compact Partners (local government)
 - c. Art Studio/BLWM-Office of Recycling/Air Education & Outreach Section
 - i. Development of brochures (including Spanish versions); Also utilize existing materials where appropriate.
 - ii. PSA (both TV and Radio) development; General message: "Open burning is bad for your health, the environment and it is illegal in many instances. Reduce, Re-use, And Recycle. Specific messages may be developed dependent upon resources.
 - d. Development of a web-page specific to open burning issues that is linked by both BLWM and BAQ.
 - e. Partners- Forestry Commission, Fire Stations, Fire Marshall
 - f. Partner contacts
 - g. Knowledge of other states who have done this project before
6. Activities
- a. Gather information from other states for prototype
 - b. Identify and Inform partners
 - c. Identify locations for possible press conference(s) - major urban areas?
 - d. Identify funding (PPA)
 - e. Utilize access to teachers to utilize lessons to share with students regarding open burning messages.
 - f. Document project
 - g. Meet with team to organize details
 - h. Advertise messages via TV/Radio; conferences/meetings
 - i. Host press conference(s)- Release PSAs and informational materials
 - j. Document and publicize results
7. Impacts
- a. If we can properly reach the various segment audiences, and we may be able to affect the issue of open burning.
 - b. If we garner the involvement and leadership of the EACs, we can build and strengthen our relationship and our joint commitment to improving air quality.
 - c. If we can find funding, we can more broadly disseminate our message(s) to the appropriate audiences.
8. Objectives
- a. Utilize TV PSAs in the Upstate, Central Midlands, York County and Central Savannah River Area, and Coast areas.
 - b. Ensure significant involvement from local government leadership, especially EAC partners.

- c. Begin campaign in mid-March 2007.
- 9. Planning
 - a. Identify primary target audiences
 - b. Identify partners to help with planning and execution
 - c. Identify evaluation methods
 - d. Identify sponsors to help with funding
 - e. Identify appropriate message(s) for audiences
 - f. Secure funding
 - g. Develop necessary media tools
 - h. Advertise
 - i. Report planning and progress
 - j. Identify weak spots
 - k. Address weak spots
 - l. Host news conference event(s)
 - m. Analyze results
 - n. Final report
 - o. Meet to discuss outcome and follow-up work

5. Assist local areas in determining emission reductions

South Carolina has been and will continue to work with EPA to assist local areas in determining the emission reduction strategies that will assist the area in achieving emission reductions needed for maintaining the 8-hour ozone standard within their respective area. The emission reduction strategies submitted by the local areas contain both quantifiable and directionally sound measures, it should be noted that none of them were included in the attainment demonstration model for 2007.

The EAC process encourages state and local areas to design control strategies that best fit their specific needs. As part of this process the Department began meeting in 2002 with local governments, industry representatives, environmental groups, and other state and federal agencies in an effort to develop state and local control strategies to reduce ozone precursors as part of the commitments under the compacts. The Department tackled these requirements from many different perspectives. The Department met with the local EAC areas to consult with them and provide them with assistance on developing the local plans. The Department formed stakeholder groups and conducted meetings in an effort to develop statewide regulations to achieve additional reductions in ozone precursors to support the EAC process.

This effort continues and as a result of the 2006 SC Early Action Compact Summit has expanded. Bureau of Air Quality (BAQ) staff have been assigned to work with local government officials based on the State Council of Governments (COG) structure. This is a recent shift in our strategy for outreach to local and state government. BAQ staff will work with local contacts, assess their planning and determine how the BAQ may offer assistance. Recent examples of this type of work has been the “Motor Vehicle Maintenance Project,” expansion of the “Take a Break for the Exhaust Project,” and the potential expansion for the “Breathe Better Air at School Project.”

6. Clean Air Initiatives for Government Entities

Bureau of Air Quality (BAQ) staff were charged with the task of developing, implementing and marketing a plan for reducing precursors to ground-level ozone emissions by state government that supports the Early Action State Implementation Plan initiative. Bureau staff solicited participation from other state government agencies to include the transportation sector and property maintenance agencies. Also included were local Council of Governments and the Palmetto State Clean Fuels Coalition. A major accomplishment of the group is the passing of a Concurrent Resolution by the South Carolina State Legislature on May 14, 2003. This resolution supports the activities of the Department's establishment and implementation of the state's early action approach for complying with the 8-hour ozone standard and provides for the establishment of an intergovernmental workgroup for the purpose of promoting behaviors and policies to reduce air pollution throughout the state of South Carolina.

In 2005, three policies (telecommuting, alternate work schedules and variable work hours) in the Department's Administrative Policy Manual were updated to encourage these activities to help protect ambient air quality.

Other accomplishments through April 2005 included the following:

- Richland County requested air quality articles for use in their staff newsletter and information regarding the EPA *Energy Star* Power Management program to share with county administration.
- A staff person from the South Carolina Department of Transportation (SCDOT) was designated to receive the Department's Ground-level Ozone Forecast and to distribute it via e-mail to approximately 5,000 staff. SCDOT utilizes the Department's Ozone Forecast Internet link for the forecast on their web page. SCDOT roadside emergency signs in the Upstate and Midlands will be utilized for Ground-level Ozone Action Alerts. The number of signs by county (April 2005) is: Anderson (1), Greenville (5), Spartanburg (7), Oconee (1), Richland (5), Lexington (2), and Orangeburg (10).
- The South Carolina State Energy Office implemented "Take a Break from the Exhaust" in their office during the 2005 Ozone Season.

The utilization of the TABFTE grew in 2005, with the Bureau of Water, Land & Waste Management and the SC State Energy Office using this program. (Detailed information on the TABFTE program may be found under Commuting Reduction Options (2.a.) of this report.) The BAQ also partnered with the SCDOT and the Energy Office to promote ridership on the SmartRide Alternative Transportation project during Ground-level Ozone Season.

In 2006, the utilization of the TABFTE continued to increase. New partners included Bowater, CitiGroup, Springs Industries, Winthrop University and York Technical College all located within York County. In addition, Lexington County Government and the Central Midlands Council of Governments offered the program to employees. (Detailed information on the TABFTE program may be found under Commuting Reduction Options (2.a.) of this report.) Partnerships with the SCDOT and the Energy

Office to promote ridership on the SmartRide Alternative Transportation project continued for 2006. SCDOT includes messages on the Intelligent Transportation System (ITS) Boards around the State encouraging citizens to car-pool on Ozone Action Days.

Work with both state and local governments to develop activities in support of “Cleaner Air Sooner” is on-going, although not in the formal workgroup called CAIGE. BAQ staff has determined that outreach activities need to be developed on a local and individual need basis. Thus, at this time staff has been assigned to work with local government officials based on the State Council of Governments (COG) structure.

This is a recent shift in our strategy for outreach to local and state government. BAQ staff will work with local contacts, assess their planning and determine how the BAQ may offer assistance in terms of resources and project development. Recent examples of this type of work has been the “Motor Vehicle Maintenance Project,” expansion of the “Take a Break for the Exhaust Project,” and the potential expansion for the “Breathe Better Air at School Project.”

BAQ staff offer consultation services for exploring, developing, implementing and evaluating these types of projects based on local and state agency interests and initiative. This approach, rather than a formal, central based workgroup, offers more flexibility and support to these entities based on individual organizational need and plans.

7. Smart Highways

The Smart Highways effort through the EAC process addresses transportation planning and any impact transportation might have on air quality. This approach is not a requirement of the EAC and is not being done in any other EAC area in the country. It is an example of the commitment by air quality and transportation agencies at the local, state, and federal level. In the event that deferral of the effective date of the nonattainment designation is withdrawn, these areas will be fully prepared to address the full regulatory requirements of Transportation Conformity. In addition, South Carolina already has in place the necessary consultation procedures to address traditional transportation conformity requirements for all pollutants in any nonattainment area. Again, this initiative is something no other state has accomplished.

The parties involved in the interagency meetings developed a Smart Highways checklist to be used in transportation planning. This checklist is intended solely as an informational guideline to be used in reviewing Long Range Transportation Plans and Transportation Improvement Programs for adequacy of their documentation and will be used during long range transportation plan updates as required by 23 CFR 450.322. A copy of the Smart Highways Checklist is attached in Appendix 12 of the December 2004 EAC SIP. Air quality and transportation officials engaged in these interagency meetings include the Metropolitan Planning Organizations (MPOs) from the deferred nonattainment EAC areas (Anderson Area Transportation Study (ANATS), Greenville-Pickens Area Transportation Study (GPATS), Spartanburg Area Transportation Study (SPATS) and the Columbia Area Transportation Study (COATS)), the South Carolina Department of Transportation, Federal Highway Administration South Carolina Division, EPA Region 4, Federal Transit Administration, and the South Carolina Department of Health and Environmental Control.

As a result of this effort, each of the four Metropolitan Planning Organizations (MPOs) in deferred nonattainment areas (Greenville, Anderson, Spartanburg, Richland and Lexington counties) demonstrated that their respective long-range transportation plan eliminates or reduces violations of the national ambient air quality standards (NAAQS).

Copies of the four MPO reports may be found at:

http://www.scdhec.gov/eqc/baq/html/eap_Smart_Highways.html.

The documentation in the reports was the subject of interagency consultation. Interagency consultation began in January 2003, and continued through completion of the emissions analysis with regular meetings to discuss and agree upon schedules, model parameters, latest planning assumptions, horizon years, exempt projects, and regionally significant projects. In addition, each of the MPOs provided public review of this report in accordance with the respective MPOs public involvement policy. A key element of the public involvement process is a public review of transportation planning documents including the Long-Range Transportation Plan.

Using 2002 as the base year, the following table shows that the emissions expected from implementing the proposed MPO long-range transportation plan(s) are less than emissions from either the baseline case or the no-build case for 2007. Further emission reductions are forecasted for the longer term. The specific numbers can be found in each MPOs report.

	ANATS		GPATS		SPATS		COATS	
	NO _x	VOC	NO _x	VOC	NO _x	VOC	NO _x	VOC
2002	7.703	4.354	30.213	19.276	17.96	10.58	45.295	27.135
2007	5.507	2.94	21.58	13.648	11.86	6.83	32.017	18.962
Reduction tpd	2.196	1.414	8.633	5.628	6.1	3.75	13.278	8.173
Reduction tpy	801.54	516.11	3151.045	2054.22	2226.5	1368.75	4846.47	2983.145

tpd = tons per day

tpy = tons per year

EAC Reinforcement of Planning Initiatives at the Local Level

The EAC process has allowed contact with counties at a critical time in their comprehensive planning process. Many are in the midst of updating their 5 and 10-year plans. The dates for completing these do not coincide with EAC dates but improving air quality does not have a “sunset” provision. Many counties have already begun or completed changes to their land use plans that reduce sprawl and traffic congestion.

Anderson County

Highlights of the Anderson County Land Use and Development Standards include items that develop standards with respect to landscaping and open space, promote public health and safety through the reduction of noise pollution, storm water runoff and air pollution. Also included are development standards with “Greenways” defined which link residential areas with other open space areas. These greenways may contain bicycle paths, footpaths, and bridle paths. Additionally, intensity standards (designed principally to regulate land use in accordance with the design function and carrying capacity of the road on which it is located) are being developed.

Greenville County

Smart Growth America has said about the City of Greenville, “The city has the right idea about how communities should be designed.” It has chosen Greenville as one of four cities and counties nationwide to work with to turn smart growth ideas into better development for Greenville. Efforts include spreading the kind of development happening downtown to its more suburban edges including more sidewalks, buildings closer to the street, smaller parking lots and more landscaping.

Greenville County’s Comprehensive Plan encourages the development of industrial parks so aesthetics, design, screening and land use impacts can be better managed. Plans are being worked on to revise the county Zoning Ordinance to create new residential zoning classifications that permit design innovations such as open space, varying setbacks,

cluster development, varying lot sizes, and mixed uses with extensive landscaping. Through incentives, it would also encourage developers to build in the urban area of the county. Transit goals in the Comprehensive Plan encourage residents to use alternative modes of transportation for travel.

Greenville County Planning Commission, on behalf of the City of Mauldin and the City of Simpsonville, retained Day Wilburn Associates to prepare a Transit Development Plan for the Mauldin-Simpsonville Urbanized Area. Information regarding the results of this study can be found in the Greenville County portion of this document.

Spartanburg County

Spartanburg County's land use efforts include strategies that are represented in the county's comprehensive plan or unified land management ordinance. Some important strategies include:

- Development of a comprehensive urban forestry plan to include local tree ordinances, protection policies of urban open spaces, and landscape ordinances that utilize native plants.
- Revisions of the county's subdivision regulations to include conservation provisions to help not only retain natural resources, but add to the value and marketability of rural residential projects. This will also maintain balance between the rural setting and future growth and development.
- Amending the county's subdivision regulations to promote cluster housing development in rural areas, thereby minimizing land coverage for residential use. Establishing maximum lot size (recommended 1/4 acre) for cluster subdivisions of a certain size, as opposed to minimum lot size, and allocating in perpetuity through lease, trust, common ownership, etc. up to 80 percent of such subdivisions to open, agricultural, or forested use, thus retaining rural, open character.

To address transit needs Spartanburg County is working to provide convenient, coordinated, accessible and affordable transit service under the administration of a single transit agency, controlled by a Joint Transit Commission appointed by city and county government. This includes interfacing the transit system with other transportation modes including highways, airports, rail, intercity bus, school buses, and bikeway/trail systems. Components of this approach include developing alternative funding sources to promote public transit as a low cost alternative to the automobile and as a means of lessening traffic congestion.

To promote bicycle and pedestrian facilities, a governmental committee composed of local officials whose mission is to promote alternative transportation systems in the county has been created. The committee is also responsible for the procurement of funding for the implementation of such facilities. Securing a public and private partnership to oversee the implementation of proposed improvements and promote the use of alternative transportation through educational, promotional and incentive programs is also being addressed.

Lexington County

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.

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.

Per an October 5, 2006 article in *The State* newspaper, Lexington Town Council approved spending \$14,000 to install equipment to synchronize traffic flow in the downtown Lexington area. The equipment will monitor traffic at 20 intersections and allow state traffic officials to adjust the length of lights to improve traffic movement on the roads. This is one of several changes implemented to reduce traffic congestion.

Richland County

Effective July 1, 2005, Richland County began using a vastly updated Land Development Code (LDC) to address a number of issues that citizens have brought to the attention of the county over the years such as transportation, community appearance, conservation, water quality and affordable housing. The central reason for drafting the updated LDC was to revise the county's land development regulations as needed to make certain they accomplish the goals and objectives of the comprehensive plan.

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 also 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.

As part of its temporary funding solution to the Central Midlands Regional Transit Authority (CMRTA) crisis, Richland County Council established a Transportation Study Commission to study public transit, road improvements, and walking and bicycle trails. The 33 member commission is expected to release a final report in Spring 2008, as well as a recommendation for funding high-priority transportation projects. The commission will study transportation issues that are regional in nature. As a result, members will be made up of appointments from Richland and Lexington County Councils, the City Councils in Columbia, Cayce, and West Columbia.

On December 6, 2006, Councilwomen Val Hutchinson and Joyce Dickerson held an informational meeting with residents and leaders from the rapidly growing Northeast area of Richland County. The meeting included a presentation by Norm Whitaker, head of the Central Midlands Council of Governments, regarding the transportation priorities and funding mechanisms for roads in the Northeast. Mr. Whitaker explained the correlation between congestion, growth, and air quality in the Northeast, and informed attendees that that ozone monitor located at Sandhill has the potential to draw the entire two-county region into non-compliance. The committee resolved to meet on a quarterly basis in an effort to centralize the often fractured discussion of transportation needs on this rapidly growing area of the county. Councilwomen Dickerson and Hutchinson also received suggestions from the group as to how Council can better plan for transportation needs in the Northeast, including accelerating an update of the county’s comprehensive plan, as well as a comprehensive countywide transportation plan.

Richland County's Transportation Study Commission will be hosting a series of public meetings to receive input from the citizens on ways that the county can improve all modes of transportation. A copy of the meeting announcement may be found in Enclosure 2-4. Each meeting will have three breakout sessions: Roads, Transit, and Greenways/Pedestrian/Bike Paths.

While this commission will be looking at ways to improve the transportation network, it will also be looking at the impact of transportation on the air quality attainment status. The meetings were open to anyone who lives, works, or visits Richland County.

October 2007 - Berkeley, Charleston and Dorchester counties

Region 4 EPA and the Berkeley-Charleston-Dorchester Council of Governments (BCDCOG) provided a series of training workshops on how each of us can work with our elected officials and communities to coordinate on Smart Growth Strategies. The strategies included promoting better land use and transportation as well as improved bicycle and pedestrian facilities. EPA supports this strategic training as a way of reducing energy costs and protecting air and water quality.

8. Other Point Source Reductions

As noted in the June 2003 EAC Progress Report, Bureau of Air Quality staff met with individual industry representatives in an effort to negotiate emission reductions. The intent was to focus on several large NO_x emitters, particularly those with few existing NO_x controls that are impacting potential nonattainment areas, to negotiate reductions through the permitting process or consent agreement. This was done in lieu of developing statewide regulations on existing industrial sources. Meetings with various industries were held on May 1, 2003, June 2, 2003, and June 11, 2003.

Appendix 10 of the December 2004 EAC SIP included copies of the agreements with these facilities. As part of the EAC process, several of the largest existing industrial sources in the Upstate and Midlands areas of South Carolina have voluntarily committed to reduce and/or limit their NO_x emissions. These negotiations were the direct result of the EAC process as are the NO_x reductions that will result from them. SCE& G - Wateree in Richland County installed Selective Catalytic Reduction (SCR) on two coal-fired boilers to comply with the NO_x SIP Call and has agreed to take permit limits on these units as their commitment to the EAC process. International Paper in Richland County agreed to take an annual allowable NO_x emission reduction of 1000 tons, facility wide.

In addition, Duke Power in Anderson County has committed to install and operate low NO_x combustion controls on two coal-fired boiler units (controls were installed in 2001 on the other boiler at the facility) and to limit the NO_x emissions from these units to an emission rate of 0.27lbs/MMBtu. This is a \$7 million investment by Duke Power that will result in approximately 850 tons of NO_x reduced annually. As part of this process, Transcontinental Gas Pipeline Corporation (Transco), which operates the internal combustion engines at Station 140 in Spartanburg County, began early implementation of the NO_x emission reductions required by Phase II of EPA's NO_x SIP Call regulation. In accordance with the federal requirements, Phase II is required to be fully implemented by 2007. As part of the EAC process, Transco performed engine overhauls and engine combustion modifications on 13 engines during the 2005 calendar year so that these NO_x emission reductions were captured well ahead of the federal timeline. The goal is to have all NO_x reductions quantified and certified before the end of the 2006 calendar year, allowing Transco to take credit for NO_x reductions prior to the start of the 2007 Ozone Season. August 2006 testing reports of the 13 units at Transco revealed emissions were significantly below the control period emissions limit established in the facility's permit. The South Carolina Electric and Gas installed NO_x reducing technology on some of its coal-fired boilers at the Canadys, McMeekin, and Urquhart plants. All units have NO_x continuous emission monitors in place. These actions are permanent and quantifiable and were not required by any federal or state regulation. These actions were taken to demonstrate the facility's commitment to the EAC process.

9. Palmetto State Clean Fuels Coalition Initiatives

The Palmetto State Clean Fuels Coalition (PSCFC) is part of the Clean Cities program and is one of 88 designated coalitions in the United States. The Department of Energy approved the application for PSCFC's designation in 2003, recognizing the commitment of the stakeholders to building an alternative fuels market in South Carolina. <http://www.palmettocleanfuels.org>

Prior to receiving the official designation, stakeholders were involved in a number of alternative fuel activities. On October 17, 2001 – a station supplying ethanol and biodiesel opened in the Aiken area. The station is privately owned and sells fuels to both the government and the public and was the first of its kind in the United States. In conjunction with the opening, on October 18, 2001 – Governor Hodges signed an Executive Order supporting the use of alternative fuels and requiring state agencies, when feasible to utilize alternative fuels when operating alternative fuel vehicles.

On April 2, 2002, the Department held a ceremony to officially announce the availability of E85 at the 2600 Bull Street location in Columbia. The fueling site consists of a 10,000 gallon E85 tank. The Department spent \$105,000 for modifications to existing tanks and was the first state agency to offer E85 in Columbia to county, federal and state governments.

There are currently 33 publicly accessible E85 refueling infrastructure stations in the Columbia, Greenville, and Aiken areas. Two more stations will come on-line in 2006 in the Rock Hill/Fort Mill area. During 2005, South Carolina opened more publicly accessible E85 refueling sites than the State of Iowa.

A recent survey (2005) identified a total of 1,232 alternative fuel vehicles actually operating on alternative fuel in the nine-county PSCFC service area. Of these vehicles, 691 (56.1%) were E-85 flex fuel, 461 (37.4%) were operating on B20 biodiesel, 42 (3.4%) were operating on propane, 20 (1.62%) operating on compressed natural gas, and 18 (1.5%) are electric vehicles. Many of these vehicles are owned by PSCFC stakeholders.

Survey respondents indicated that they planned to buy and operate more AFVs in the next five years. Taken together, these stakeholders will add 2,005 operational AFVs to the road through 2008. This represents an annual increase of approximately 21.5% or roughly 401 vehicles annually.

The 2006 calendar-year survey should be available for the June 2007 EAC Progress Report.

June 2007

The 2006 calendar-year survey is available through the PSCFC website. The survey revealed an overall increase in the number of alternative fueled vehicles. This in part is

due to expanding the participation in the survey as well as additional fleets, including industry and government, turning to alternative fueled vehicles.

The 2006 survey identified a total of 6,916 alternative fuel vehicles actually operating on alternative fuel in the nine-county PSCFC service area. Of these vehicles, 3,754 were E-85 flex fuel, 2,709 were operating on B20 biodiesel, 356 were operating on propane, 72 operating on compressed natural gas, and 25 electric vehicles.

Other activities involving the PSCFC include:

Columbia CNG Initiative - In 2000, the PSCFC worked closely with the Central Midlands Regional Transit Authority (RTA) Board of Directors as they made decisions regarding the fate of Columbia's bus fleet. The Board decided to purchase 7 new compressed natural gas (CNG) transit buses when they replaced SCE&G's aging bus fleet. These buses were delivered in December 2002 and are running successfully on CNG. They are expected to reduce nitrogen dioxide and hydrocarbon emissions by 6,296 pounds per year over a ten-year period, which will result in a cleaner downtown area.

Because of the RTA's commitment to alternative fuels, the Energy Office worked with others to expand the capacity of Columbia's only CNG refueling station. This station is located on the corner of Flora Street and Assembly Street, right across from the Capital City Bombers baseball stadium. This station refuels not only the buses, but also federal, state and local government fleets. It is also open to the public, and accepts both Visa and Master Card.

Ethanol Refueling Infrastructure - In April 2005, six fueling stations in the Columbia and Greenville areas kicked off their sale of ethanol (E85) with E85 for \$.85 events. E85 is the term for motor fuel blends of 85 percent ethanol and 15 percent gasoline and is an alternative fuel as defined by the U.S. Department of Energy. Besides its superior performance characteristics (octane=105), ethanol burns cleaner than gasoline, and it is a completely renewable, domestic, environmentally friendly fuel that enhances the nation's economy and energy independence.

PSCFC and Stakeholders Receive Funding for Two Special Project Proposals in 2005:

1. **York Technical College: Ethanol Refueling Infrastructure:** The SCEO received \$25,191 in federal funds with a cost share of \$18,500 for a total project cost of \$43,691 to establish an ethanol (E-85) fueling station in Rock Hill, S.C. to support the use of E-85 in the existing and future fleets of the City of Rock Hill, York County Natural Gas, the City of Clover, Palmetto Clean Fuels Coalition and York Technical College. The E-85 fueling station will be located at the main Rock Hill maintenance facility and will consist of a 12,000 gallon below ground tank converted from an existing unleaded fuel tank. The refueling station will support 59 ethanol flex fuel vehicles currently using gasoline in the fleets of Rock Hill, Palmetto Clean Fuels Coalition, York County Natural Gas Authority, the City of Clover and York Technical College.

2. PSCFC - Clean Cities Coalition Support - Palmetto State Clean Fuels

Coalition: The SCEO received \$20,000 in federal funds with a cost share of \$27,822 for a total project cost of \$47,822 for a coordinator support grant for the Palmetto State Clean Fuels Coalition (PSCFC). The purpose of this project is to ensure continued coordination and staffing of the PSCFC by the Catawba Regional Council of Governments. Funding will ensure continued momentum in the nine-county PSCFC region for projects, marketing, and increased use of alternative fuel and alternative fuel vehicles. Funding will enable promotion and building of infrastructure to support increasing use of alternative fuels by state and local government in the PSCFC region.

Biofuels Showcase - The Palmetto State Clean Fuels Coalition (PSCFC) hosted a Biofuels Showcase on November 18, 2005. This event showcased ethanol and biodiesel and featured a Ride and Drive event where participants had a chance to drive the alternative fueled vehicles on display. Over the last decade, Clean Cities Coalitions have reported activities that have displaced more than a billion gallons of petroleum in transportation. By implementing projects that make use of alternative fuels, hybrid vehicles, truck idle reduction, fuel blends, and fuel economy improvement, Coalitions have helped build local and regional markets for non-petroleum solutions to our energy challenges. On October 14, 2005, the PSCFC hosted a variety of celebratory events in Rock Hill, Aiken, Columbia and Greenville.

Billion Gallon Celebration - Over the last decade, Clean Cities Coalitions have reported activities that have displaced more than a billion gallons of petroleum in transportation. By implementing projects that make use of alternative fuels, hybrid vehicles, truck idle reduction, fuel blends, and fuel economy improvements, Coalitions have helped build local and regional markets for non-petroleum solutions to our energy challenges. On October 14, 2005, the Palmetto State Clean Fuels Coalition hosted a variety of celebratory events in Rock Hill, Aiken, Columbia and Greenville.

Southeastern Alternative Fuels Task Force Workshop

Department staff along with Palmetto Cities Clean Fuel Coalition coordinator, Wendy Bell and South Carolina Energy Office, Chantal Fryer participated in and helped to support the planning and implementation of this workshop held in Tennessee, June 6-7, 2005. Website for the SEATFF is: <http://www.sealtfuels.org/>. Evaluation results for this workshop are available.

As of the December 2005 Progress Report, there were 23 public E85 refueling sites in South Carolina with 4 additional stations planned with the next 6 months. In addition to the E-85 refueling sties located at the Department's Bull Street office in Columbia, there were 5 other refueling sites that are not open to the public (2 in Aiken County at the Savannah River Site; 1 in Berkeley County at Santee Cooper; and 2 in Horry County). In 2006, the University of South Carolina and the City of Rock Hill each have plans to install an E85 refueling site; bringing the total number of non-public refueling sites to 8

during 2006. In addition to E85, there were 3 biodiesel public sites in South Carolina. B2 at Spinx and 2 United Energy Sites.

As of June 2006, there were 34 public E85 refueling sites in South Carolina. In addition, there are 14 public biodiesel (B20) refueling sites in South Carolina.

As of December 2006, there were 40 public E85 and 42 public B20 refueling sites in South Carolina. Two sites, one of which will be located in the City of Rock Hill (York County) will be opening soon. Under a recent grant award, PSCFC received funding for 2 additional E85 sites and a B20 site in the Rock Hill area.

The 2006 calendar-year survey should be available for the June 2007 EAC Progress Report. The survey will include information such as the City of Rock Hill converting their entire diesel fleet, on-road and off-road to B20; the City of Union and Union County both are now using B20; and, Fort Jackson is using E85 in non-tactical vehicles.

On August 15, 2006, Bell Exxon in Union opened E85 and B20 dispensers that will service the City of Union and Union County AFVs. Southeast Biodiesel hosted a grand opening for their Charleston facility on October 27, 2006. Production at this facility is expected to begin in January 2007.

A grand opening was held on December 6, 2006 for Carolina Soya located in the City of Estill, Hampton County. The facility is expected to be operational in March 2007 and will produce up to 30 million gallons of soybean-based biodiesel fuel per year.

PSCFC provided a moderator/speaker for the 2006 SC EAC Summit held in Columbia on August 16 and 17. A presentation on alternative fuels by the PSCFC was also given at the Southeast Governmental Fleet Managers Association meeting in October 2006.

December 2007 – There are currently 49 public E85 and 49 public B20 refueling sites in South Carolina. PSCFC is in the process of funding 7 more sites. An additional 12 E85 sites will be installed over the next 6-8 months.

September 19, 2007 – South Carolina Biodiesel Fuel Quality Symposium

The South Carolina Biodiesel Fuel Quality Symposium took an in-depth look at the latest regulatory, environmental, and technical developments impacting the fastest-growing renewable fuel industry in South Carolina. The event's technical program provided participants with a basic understanding of how biodiesel is produced, fuel management, fuel quality, component compatibility, regulatory issues, and incentives. Speakers include recognized experts in their respective fields including industry professionals, regulators, local and state officials, fleet managers, retailers, distributors, and producers.

Legislation - Members of the Upstate EAC counties (Anderson, Greenville, and Spartanburg) in coordination with the Palmetto State Clean Fuels Coalition and the South Carolina Chapter of the Sierra Club, supported statewide legislation that will provide tax incentives for purchase of alternative fuel and hybrid-propulsion vehicles and help reduce

costs and provide tax credits for production and infrastructure for alternative fuels. On June 1, 2006, Governor Sanford signed 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.

October 10, 2006 - National AFV Day Odyssey: Showcasing Cleaner More Energy-Efficient Choices in Transportation - hosted by York Technical College. This public event enables Americans to learn about the benefits of alternative fuel and hybrid electric cars, vans, trucks, and buses. The event was an opportunity for the public to get close-up look at a number of alternative fuel and hybrid electric vehicles—including vehicles from Honda, Ford and Toyota—and to meet experts who can answer questions about the future of transportation. Workshops were conducted throughout the day on AFV and hybrid electric vehicles to include what makes hybrids different, how they came about, and how they operate. Participants will also be able to view natural gas, bio-diesel and electric fueled vehicles from the City of Rock Hill and a hybrid lineman's truck from Duke Energy. National AFV Day Odyssey is coordinated by the National Alternative Fuels Training Consortium, headquartered at West Virginia University, and includes a group of 27 higher-education institutions dedicated to educating technicians and the public about clean, cost-effective vehicles. York Technical College's partners include the South Carolina Energy Office, South Carolina Department of Health and Environmental Control, Palmetto Clean Fuels Coalition, Centralina Clean Fuels Coalition, the City of Rock Hill and Duke Energy.

These combined efforts continue to exhibit the State's dedication to renewable energy.

10. Tree City USA

Tree City USA encourages municipalities and areas to have strong urban forestry programs. In the fall of 2005, the Bureau of Air Quality sent an electronic mail message to all 45 EAC areas in South Carolina asking the counties to encourage municipalities within their county to help participate in this program that can benefit air quality.

As of June 2006, there were 39 designated areas in South Carolina, an additional 2 from the December 2005 Progress Report.

The Tree City USA program is sponsored by The National Arbor Day Foundation in cooperation with the USDA Forest Service and the National Association of State Foresters. According to the National Arbor Day Foundation website ([http://www.arborday.org/programs/treecities.cfm?chosenstate=South Carolina](http://www.arborday.org/programs/treecities.cfm?chosenstate=South%20Carolina)) as of December 2006 there are 40 designated areas in South Carolina.

As of June 2007, there are still 40 designated areas in South Carolina.

As of December 2007, there are 39 designated areas in South Carolina.

11. Energy Efficiency

a. ENERGY STAR

Energy Benchmarking/Portfolio Manager Report January 2005-September 2005

The Department received \$5,000 in additional Section 105 grant monies to promote the ENERGY STAR Energy Benchmarking program in our area. Below is a summary of the Bureau of Air Quality's (BAQ) efforts in promoting this program through September of 2005.

Efforts were made on two fronts to promote Energy Star. The first effort was to install Energy Star with the BAQ and then expand the program throughout the rest of the Department. Starting in October of 2006, BAQ began tracking energy consumption for the Bull Street office building, which is also home to the Bureau of Water, some Health Services offices and the Department's administration. This information will be used as a baseline to show progress in reducing energy consumption. Research has been done into energy conserving upgrades already completed. BAQ is developing a comprehensive energy efficiency program for the Bull Street building that will include identifying best practices for staff and tracking of energy use.

The second front was to involve other state agencies and local governments through outreach efforts to try to get them to utilize Energy Star. To assist with those efforts, BAQ registered as an Energy Star Driver in February 2007. Since September 2006, information about the benefits of energy conservation, including Energy Star, have been included in presentations to Spartanburg County, Greenville County, the City of Greenville, Oconee County, Lexington County, as well as various other stakeholder groups participating in Greenville County's public awareness campaign. To assist with these efforts, BAQ has developed an educational postcard that recipients can use to register for the "Change a Lightbulb" Pledge. These postcards and other informational brochures are distributed at all of the Department's public events.

South Carolina Department of Health and Environmental Control

The BAQ already had 80% of its computers installed with monitor power management enabled. However, all of the monitors had longer shutdown times than the Energy Star default of 10 minutes. Therefore, the BAQ saved five minutes on 25% of the monitors, 15 minutes on 45% of the monitors, and over 20 minutes on 30% of the monitors that had power management engaged.

The numbers calculated from EPA's calculator program are below:

RESULTS--Savings Per Year

Energy	
Current Use	25,216 kWh
Future Use	18,127 kWh
Savings	7,089 kWh
Dollars	
Current Cost	\$2,169
Future Cost	\$1,559
Savings	\$610
Percent	
Savings	28%

Since the BAQ's successful installation of Energy Star, other Bureau's within the Department are now starting the process of installing Energy Star. Once the Information Technology (IT) staff has completed the necessary installation on the respective servers, the Bureau of Water and the Bureau of Land and Waste Management will be joining the Energy Star team. With the addition of these two Bureaus, the number of computer monitors will increase from around 150 to over 500.

Other State Agencies and Local Governments

During the reporting period BAQ staff met with staff at other state agencies to provide them information about Energy Star. Staff met with the South Carolina Energy Office, the South Carolina Department of Transportation, and the South Carolina Department of Education. At least one Agency (South Carolina Energy Office) has expressed an interest in implementing Energy Star and BAQ staff will be working with them to do so.

As part of the EAC process Energy Star is being used as an example of how local governments can save money, and also help reduce air pollution. Staff have provided flyers and used PowerPoint presentation to demonstrate local government contacts the benefits of Energy Star and how to implement the program.

Department staff created and distributed Energy Star pledge postcards at the South Carolina Science Council Conference in November 2006. Participants returned 54 pledge cards, with pledges to replace over 200 incandescent bulbs with compact fluorescents. The cards were also distributed to 5th graders at Rosewood Elementary School.

Recent Activities and Future Plans

BAQ staff plan to finish installing Energy Star at the Bureau of Water and the Bureau of Land and Waste Management. We also plan on expanding Energy Star to the rest of the Department. Along with the installation to the South Carolina Energy Office, staff plans to revisit the Energy Star issue with the South Carolina Department of Transportation and the South Carolina Department of Education in hopes of convincing them to install Energy Star.

We will also continue using outreach materials and presentations to inform counties and local governments about the advantages of Energy Star and assist them with implementing the program.

Over the past 6 months (June – December 2006) the BAQ has continued to work with local and state contacts to promote EPA “Energy Star” products. Recently, in addition to promoting and encouraging the use of computer monitor power saving software, staff is responding to requests for assistance to draft responses to grants. A recent request from a partner in a state Council of Government (COG) area prompted BAQ to develop the following proposal. While this proposal may or may not be introduced by this COG, the information will be made available by BAQ staff to other contacts interested in pursuing energy efficiency reduction strategies. Also developed and available is the project design and evaluation along with the project logic model.

Energy Star Upgrade Proposal - October 2006:

We propose to upgrade local facilities in the area to demonstrate the ease and effectiveness with which energy reductions can be made. At the core of our proposal are the ideas suggested by the national Energy Star Campaign. We propose the following upgrades to participating facilities:

- Upgrade incandescent light bulbs with CFL light bulbs
 - At a cost of \$10 per unit
 - With an energy savings of 66% per bulb
- Upgrade any existing T 12 fluorescent light fixtures with T8 ballasts and bulbs
 - At an average cost of \$25 per unit
 - With an energy savings of about 30% per fixture
- Upgrade computer system with automatic sleep modes
 - At no cost
 - With an energy savings of about \$10-\$50/computer annually

In addition, we propose to investigate and report where additional savings could be realized. In particular, we plan to look at exit sign efficiency and upgrade costs, overhead diffuser and reflector efficiency and upgrade costs, automatic shut-off savings and installation costs, as well as other items such as interior paint color and occupant behavior patterns.

Every participating facility will first be analyzed to determine baseline energy consumption. Gains in energy efficiency as a result of the upgrades will be measured against this baseline. Upgrades should be extensive enough to demonstrate a real energy savings, while leaving room for improvement should the facility take the initiative to complete the upgrades and invest in further improvements as suggested in the report. The analysis conducted to establish the energy consumption baseline for the facility will also be useful in encouraging that facility to sign-up as an Energy Star Partner.

Energy Conservation and Air Quality Awareness shall be promoted through informational presentations, brochures, and displays at the participating facility throughout the upgrade process. In this way, we hope to impact employee energy conservation behaviors at home, as well as at the workplace. Sponsor and partner logos will be displayed along with or on these informational fliers, kiosks, and presentations.

Finally, the improvements, suggestions for additional upgrades, energy savings, and emission reductions will all be documented in the project report. The report findings shall be made known to the participating management and employees, and shall be used to promote similar campaigns in other areas across the state. Bulbs containing mercury that are replaced as a part of the upgrade will be recycled and/or disposed of properly, and mercury awareness will be a sub-set of the awareness campaign.

Change a Light and Change the World with Energy Star

The BAQ also promoted the **Change a Light and Change the World with Energy Star** in October 2006 to staff within the Department via email. The informational message utilized (listed below) was also shared with EAC contacts statewide. Staff also developed a pledge card and utilized a small inventory of CFLs during a conference with school science teachers (South Carolina Science Council) in October. For this conference, 60 teachers returned the pledge card to take the action of changing a light bulb to a CFL to help reduce Global Climate Change, and 45 signed to buy recycled products and support recycling efforts.

Informational Message:

ENERGY STAR Change a Light, Change the World Campaign 2006

Need a Bright Idea? Here's One:

There is a National effort underway to Change a Light and Change the World with Energy Star, beginning on October 4, 2006 with the National Change a Light Day.

At the campaign's heart, the ENERGY STAR Change a Light pledge is a simple, but vital method of forming a community of inspired individuals across the nation, committing to help reduce the risks of global climate change and to save energy. The pledge asks the individual to change a light in his or her home to an energy-efficient (ENERGY STAR qualified) one.

It couldn't be easier to participate at www.naco.org/changealight. Employees are even then offered a \$1.50 off coupon to purchase their light bulb from Office Depot if they so choose! Just indicate the county in which you live, along with the other information requested in the pledge. You will then be directed to the coupon site for the light bulb.

The goal is to encourage at least 500,000 people nationwide to take the ENERGY STAR Change a Light Pledge over the course of the campaign year.

This is an effort to help save energy, money, and reduce greenhouse emissions. Citizens across our nation are being encouraged to pledge to change one light at home to an energy-efficient model.

You typically spend more to light your home than you do to operate your refrigerator all year long. If you're still using traditional incandescent bulbs and inefficient fixtures, a lot of energy and money is being wasted. As we all are aware, pollution, albeit controlled, is an environmental side effect of energy generation. Reducing energy generation needs through conservation measures, thereby, minimizes emission levels of pollutants.

Please do your part to "Help Spare the Air!"

December 2007 – The Department made a commitment to do our part to save energy, improve air quality and reduce greenhouse gas emissions. By joining the national ENERGY STAR Change a Light, Change the World Campaign as a pledge driver, the Department set a goal to encourage 500 employees to commit online to replace at least one inefficient incandescent light bulb at home with a highly efficient ENERGY STAR labeled option such as a compact fluorescent light bulb (CFL). As of November 30, 2007, the Department exceeded the goal of 500 pledges. Department employees made 751 pledges to replace incandescent light bulbs with a more energy efficient option such as a CFL. This is over 150 percent of our goal. The 751 participants pledged to replace 6,396 incandescent light bulbs which will save more than 1,803,672 kWh of energy and 2,615,964 pounds of greenhouse gas emissions.

b. South Carolina Energy Office

2007

South Carolina Summit on Energy Efficiency

The South Carolina Summit on Energy Efficiency (EE Summit) was held on April 30, 2007 in Columbia, South Carolina. The EE Summit brought together 175 participants representing a broad range of interests – electric and gas utilities, regulators, legislators, consumer and environmental advocates, industry, universities, schools, and regional transmission organizations. A complete list of the attendees is available. The goals of the EE Summit were:

- To use the National Action Plan for Energy Efficiency as a springboard for discussion and action in South Carolina;
- To learn about and discuss the benefits of energy efficiency to South Carolina, including utilities, consumers (residential, commercial, and industrial), the state economy, and the environment;
- To share information on the key challenges to increased energy efficiency and consumer awareness in South Carolina; and
- To jointly discuss proposed initiatives that can begin to address challenges of increased energy efficiency and consumer awareness.

Over the course of the day three panels of stakeholders and experts addressed:

(1) Why energy efficiency makes economic and environmental sense for South Carolina;

(2) Challenges to increased energy efficiency and consumer awareness in South Carolina; and,

(3) A roundtable discussion of opportunities to address challenges and take energy efficiency to the next level in South Carolina.

For a summary of the speaker remarks and discussion following each of the panels as well as the full agenda a PowerPoint slides is available through the South Carolina Energy Office at <http://www.energy.sc.gov/news.aspx>.

2006

The South Carolina Energy Office (SCEO) released an Annual Report for 2006. Some items addressed in the report include:

1. The SCEO promotes energy efficiency in government agencies and public schools by encouraging the adoption of programs and procedures designed to capture and measure energy use, analyze key energy data for the development and implementation of energy saving measures, and incorporate these improvements into a master energy plan. In addition, the SCEO provides energy audits or assessments, special grants, or low interest loans to encourage installation of energy efficient equipment or systems improvements in public facilities.

2. The SCEO promotes the use of renewable energies and sustainable development practices throughout the state to offset and replace traditional methods of energy generation and consumption and to mitigate environmental degradation and the loss of economic investment. Renewable technologies such as solar, biomass, wind, hydrogen, and geothermal energy sources can help South Carolina depend less and spend less on imported energy while improving the state's environment. A description of projects such as landfill gas to energy, solar technology, biomass renewable energy, green power and hydrogen may be found at the SCEO website: <http://www.energy.sc.gov/index.aspx>

3. Transportation – This section discusses the SCEO role in Palmetto State Clean Fuels Coalition; Alternative Fuel Refueling Infrastructure; Alternative Fuel Vehicles; Take a

Break from the Exhaust; and Truckstop Electrification. The Palmetto State Clean Fuels Coalition (PSCFC) is a SCEO-sponsored group of public and private stakeholders. The PSCFC and its stakeholders continued to improve access to alternative fuels for the public by installing alternative fuels infrastructure and educating public and private sector fleet managers, the general public, fueling station owners, and government entities. In FY06 the SCEO partnered with the PSCFC for a DOE grant of \$20,000 to promote and encourage growth of alternative fuel infrastructure.

4. Public Information - This section discusses the ways in which the SCEO reaches a variety of audiences in the state.

5. EarthCraft Houses - The SCEO continued its partnerships with the Home Builders Association of Greenville, Charleston Trident Home Builders Association, and Southface Energy Institute to pilot the EarthCraft House program for the Greenville and Charleston areas. In FY06 the partnership built 18 EarthCraft Houses and trained over 100 builders and other building industry professionals. Three leading builders in the low country have made a commitment to build 80 percent of their homes to EarthCraft House standards, and a leading Upstate builder has committed to building 100 percent of his houses to EarthCraft standards. One EarthCraft builder training was conducted this year for Crescent Resources, LLC, a low country development at Palmetto Bluffs, a large upscale residential project between Charleston and Savannah. The success of the EarthCraft House program in Charleston and Greenville has led to participation by developers and builders in Hilton Head, Bluffton, and other parts of the state.

6. Landfill Gas to Energy Projects - Landfill Gas to Energy Projects - Since 1999, the SCEO has partnered with the US EPA Landfill Methane Outreach Program (LMOP) to evaluate, reclaim and use landfill gas for energy in the state. Strong efforts on Landfill Gas to Energy (LFGTE) projects have resulted in significant energy and environmental benefits for South Carolina.

Santee Cooper has installed generating stations at Horry County Landfill near Conway which produce 3.3 megawatts (MW) of power and are expected to increase to 9 MW. A second facility located at Allied Waste's Lee County Landfill generates 5.4 MW of electricity and is expected to increase to 21 MW. In FY06, an energy project at Screaming Eagle Landfill in Richland County was completed. It is generating 5.5 MW of green power and is expected to increase to 11 MW. An energy facility at Anderson Regional Landfill will be completed in early FY07, generating 5.5 MW, eventually increasing to 13 MW. These facilities bring Santee Cooper's green power generation to a current total of 19.7 MW and a projected total of 54 MW. Three upcoming projects, including the Richland Northeast Landfill, Oak Ridge Landfill in Dorchester County, and the Hickory Hill Landfill in Jasper County, will bring the projected total to 71 MW by 2012.

The largest LFGTE project to date, the Palmetto Landfill in Spartanburg County produces the equivalent of 10 MW of electricity and will soon upgrade to 12 MW. The landfill gas produced at this site is sent to BMW's automotive manufacturing facility near Greer. The methane powers four turbines. BMW plans to retrofit the system in FY07 to supply 40 percent of the plant's electrical needs and 100 percent of thermal needs. BMW will be the

first automotive manufacturing plant in the country to utilize landfill gas for its paint shop. The gas will fuel 23 oven burners and provide indirect heat for the area. This will greatly reduce the factory's reliance on natural gas and reduce carbon dioxide emissions by 17,000 tons per year. Another South Carolina factory, JW Aluminum, announced plans in FY06 to build a smelting plant at the Berkeley County Landfill and derive most of its energy from landfill gas at the site. According to the US EPA, this \$5 million project will be the first of its kind in the country.

At the end of the 2006 legislative session, the South Carolina General Assembly passed S.1245, which included a provision providing tax credits for manufacturers to use landfill gas. Beginning in FY07, a manufacturing facility can get 25 percent of the landfill gas energy equipment costs in a business income tax credit.

2005

The SC Energy Office released an Annual Report for 2005. Four items addressed in the report include:

1. The SC Energy Office promotes energy efficiency in government agencies and public schools by encouraging them to measure their energy use, analyze their building envelopes and mechanical systems, incorporate energy improvements into their master plans, and implement energy-saving measures. The SC Energy Office also provides grants and loans to encourage installation of energy efficient equipment and capital improvements in state agencies.
2. The SC Energy Office promotes the use of renewable energies and sustainable development practices throughout the state to offset and replace traditional methods of energy generation and consumption and to mitigate environmental degradation and the loss of economic investment. Renewable technologies such as solar, biomass, wind, hydrogen, and geothermal energy sources can help South Carolina depend less and spend less on imported energy while improving the state's environment. A description of projects such as landfill gas to energy, solar technology, biomass renewable energy, green power and hydrogen is included.
3. Transportation – This section discusses the SC Energy Office role in Palmetto State Clean Fuels Coalition; Alternative Fuel Refueling Infrastructure; Alternative Fuel Vehicles; Take a Break from the Exhaust; and Truckstop Electrification.
4. Public Information – This section discusses the ways in which the SC Energy Office reaches a variety of audiences in the state.

c. Energy Wise

Pilot program sponsored by the Office of Economic Opportunity (OEO) on behalf of the South Carolina Governor's Office. Energy Wise is an adult energy education initiative coupled with low-cost energy efficiency measures and agency staff training. All program participants received energy education from a local community action agency as well as a

kit of energy efficiency measures to install in their homes. Data was collected and analyzed to determine energy and cost savings generated by participants and the program. www.state.sc.us/energy/PDFs/AR_V_3.doc

d. Michelin Energy Reductions in Spartanburg, SC

Michelin Spartanburg Manufacturing in Spartanburg, SC plans to reduce water usage by four million gallons and its energy use by more than 40,000MM Btu's.

e. Duke Energy Efficiency Program

Duke Energy Corporation asked the North Carolina Utilities Commission (NCUC) to consider new energy efficiency programs that would help the Charlotte-based utility continue to meet rising consumer demand for electricity. In what Duke Energy calls its "save-a-watt" model, the company would replace existing energy efficiency programs with new ones and shut down older coal plants. Duke Energy can reduce demand by 666 megawatts during the summer under its existing programs in North Carolina and South Carolina, according to the company. The new program proposes to reduce demand by up to 1,700 megawatts after four years, a key metric in meeting the company's expected customer demand growth. Under Duke Energy's proposal, customers would pay for the programs with an energy efficiency "rider" that would be included in their power bill and adjusted annually. The company asked the commission for a first year rider of \$0.001129 per kilowatt-hour for residential customers and \$0.000940 for nonresidential customers.

Duke Energy Carolinas has had an ongoing dialogue on the save-a-watt plan with customers, environmentalists, the NCUC Public Staff and other stakeholders in a collaborative group since last August. These conversations and feedback received played a key role in the development of the program.

The following are the save-a-watt energy efficiency programs Duke Energy Carolinas is proposing:

Residential Assessments – to help residential customers identify opportunities to use energy more efficiently through a mail-in analysis, on-line analysis and on-site energy audit. Participating customers will receive either an energy efficiency kit or compact fluorescent light bulbs at the time of the audit to begin their energy savings immediately.

Non-Residential Energy Assessments – to help commercial and industrial customers identify opportunities to use energy more efficiently through an on-line analysis, telephone interviews and on-site energy audits.

Smart Saver® – to provide residential customers with incentive payments to install more energy-efficient equipment, such as compact fluorescent light bulbs and high-efficiency air conditioners and heat pumps. The commercial and industrial customer program will

provide incentives to install high-efficiency lighting, heating, ventilation, and air conditioning equipment, motors and pumps.

Low Income Service – to assist low income residential customers with energy efficiency measures using kits or assistance in purchasing equipment and weatherizing homes.

Power Manager – to enable residential customers to receive a monthly credit from July to October in exchange for allowing Duke Energy to cycle their central air conditioning in times of peak power demand.

PowerShare® – to enable commercial and industrial customers to receive a credit on their bills in exchange for reducing their electric use in times of peak power demand.

Residential Bill Check Pilot – to evaluate the use of new technology to provide customers with a monthly report analyzing their energy use and comparing it to weather patterns and other issues that relate to energy use. The pilot will initially test new technologies in up to 200 homes in the Charlotte area.

Efficiency Savings Plan Pilot – to evaluate allowing residential, commercial and industrial customers to install energy efficiency products with no up-front payment, allowing customers to save money by reducing their energy use. Customer would pay for these products through an added charge to their power bill.

Advanced Power Manager Pilot – to evaluate new technologies and advanced metering to study the feasibility of an energy management system that enables customers to participate in energy efficiency without disrupting their lifestyle or normal business practices.

f. Computer Energy Use Audit - 2007

In an effort to improve energy efficiency in its own facilities, the Department performed an internal computer energy use audit. The study tracked computer energy use over a number of computer use test cases. It was determined that there was significant opportunity to decrease energy use, reduce emissions and save money through better computer power management. As a result, employee education is taking place and new policy is being considered.

g. Town Hall Meeting - Conservation on Energy - June 27, 2007

Hosted by Conoco Phillips and the University of SC, invited panelists represented organizations active in renewable energy and energy efficiency, business and industry, the environment and conservation. John Litton with the BAQ was a panelist.

h. Green Power Solar Schools Program – August 2007

Aiken Electric Cooperative and Santee Cooper announced the formation of the Green Power Solar Schools program in the cooperative territory, and that New Ellenton Middle School has been selected as the Green Power Solar Schools program participant.

The initiative is designed to encourage interest in the environment and demonstrate the feasibility and limitations of renewable power generation. Each school will receive a 2 kilowatt solar power system, which will provide a teaching, research and hands-on demonstration opportunity for students. A focus of the project is the use of a new renewable energy curriculum endorsed by the South Carolina Department of Education.

The program continues the Electric Cooperatives of South Carolina's and Santee Cooper's efforts to promote renewable energy, and fulfill Santee Cooper's commitment to reinvest Green Power funds back into renewable resources across South Carolina.

i. Want Discounts on Energy Efficient Light Bulbs? (September 2007)

Progress Energy is offering discounts on compact fluorescent light bulbs at 11 Home Depot stores in North and South Carolina. The energy efficient bulbs will be available with the 1 dollar discount from October first to December 30th. The companies say they plan to sell up to 200,000 of the 40, 60 and 100-watt bulbs. Progress Energy is trying to gauge consumer acceptance and awareness of the fluorescent bulbs. If the program is successful at the North and South Carolina stores, it could expand.

j. Palmetto Clean Energy – September 2007

SCANA Corp., Duke Energy Corp. and Progress Energy Inc. will start selling "green power" to their South Carolina customers early next year through a nonprofit group established by the state. The three utilities will market the renewable energy to the 1.3 million homes and businesses that they serve in the state, while the newly formed organization, dubbed Palmetto Clean Energy, or PaCE, will buy the power from small Southeastern companies that generate electricity with wind turbines, solar panels and landfill gas.

k. Waste Management - September 2007

In September, Waste Management, Inc. announced a major national initiative to expand the number of landfill gas to energy (LFGTE) facilities. The program will result in the creation of an additional 60 renewable energy facilities across the country -- including the potential of two additional facilities in South Carolina -- over the next five years.

Waste Management currently operates LFGTE facilities at Elgin and Wellford. The two LFGTE plants generate nearly 16 MW of electricity -- enough to power 15,000 homes per year. The company also has two other landfills in St. George and Ridgeland, which could host a LFGTE facility. As part of the national initiative, WM will generate more than 700 megawatts of clean renewable energy -- enough to power 700,000 homes or replace over eight million barrels of oil per year.

l. South Carolina Electric Cooperatives Invest in Conservation and Renewable Energy – October 2007

South Carolina's 20 electric cooperatives plan to invest up to \$10 million per year towards renewable energy and energy efficiency measures. The investment includes a three-pronged approach to improving the environment and saving energy. The following three measures represent the beginning of this process.

- Encouraging homegrown renewable energy (a pilot program for net metering.)
- Producing efficiencies to save energy and money (a program to place energy efficient compact fluorescent lights (CFLs) in the home of every cooperative member in the state, approximately seven million bulbs within 10 years).
- Investing resources in clean energy research (a partnership with the University of South Carolina to develop technology that reduces carbon dioxide and other emissions from coal-fired power plants).

m. Alternative Energy Tax Credits – November 2007

This year, South Carolina began offering a number of new tax credits for people and businesses investing in alternative energy. A state tax credit that took effect in 2007 covers 25 percent of the cost of solar equipment for hot water, heating, cooling, or generating electricity, as an income tax credit worth up to \$3,500 or half an individual's tax liability. The credit can be carried over for up to 10 years. For new homes, according to the U.S. Department of Energy, solar water heating systems can save money immediately, when the monthly energy savings are compared to the amount a system adds to the cost of a 30-year mortgage.

December 2007

South Carolina State Measures					
A. Control Measure/Activity	B. Control Measure/Activity Description	C. Current Status	D. Date Occurred	G. Pollutants	H. Additional Information
1. Outreach and Education					
a. Ozone forecast/outreach,education	To make South Carolinians aware of daily air quality forecasts for ozone season to alert sensitive groups and increase awareness to motivate more people towards lifestyle changes, especially on ozone action days.	Beginning with the 2006 ground-level ozone forecast season, the Department and the BAQ began participation with EnviroFlash, sponsored by the EPA with State and local air quality agencies. EnviroFlash provides important air quality information such as forecasts and action day notifications via email or pager notification. The email includes the same local air quality forecast information which is coordinated through the news media, like television and radio. Enviroflash is being promoted in our priority areas and staff are working on an Enviroflash "icon link" to be added to partners' websites to facilitate access to the forecast.	July 2004		
		Forecasting for ground-level ozone began April 1, 2007 as a result of the Department observing elevated levels of ground-level ozone during the month of April. The Department added a new forecast region. The CATAWBA region now includes York, Chester, and Lancaster counties. And, the Department is added two counties to the existing PEE DEE forecast region. Marlboro and Dillon counties joined the other counties in the Pee Dee regional forecast in 2007. In 2007, the BAQ partnered with the BLWM (each providing \$35,000) to fund \$70,000 worth of airtime for two 15 second PSAs, one dealing with Ozone Awareness and the other recycling yard debris.	February 2007		
b. Developed Outreach Projects / Provided Outreach Materials	Gas Can Exchange	Anderson County organized and planned its own gas can exchange (09/10/2005) with some limited assistance from SCDHEC/BAQ staff. 200 new, environment friendly gas cans were distributed, and 79 used gas cans collected.	9/10/2005		
	New materials developed	Facts about ethanol as an alternative fuel (05/07) VEHICLE MAINTENANCE AND AIR QUALITY (05/07) The Benefits of Using Alternate Modes of Transportation Refer to Enclosure 2 of the June 2007 EAC Progress Report for South Carolina	5/1/2007 06/07		
	BAQ - Education and Outreach – School related activities	BAQ staff participated in a number of meetings and provided trainings at various meetings and schools.	2006		

December 2007

South Carolina State Measures					
A. Control Measure/Activity	B. Control Measure/Activity Description	C. Current Status	D. Date Occurred	G. Pollutants	H. Additional Information
c. Breathe Better Program	Program started focusing on seeking reductions in air pollution around schools. The program has been expanded to include business, industry and other places where idling may occur.	Working with a middle school in the Midlands area of Columbia, SCDHEC/BAQ staff helped initiate education materials to support no idling for school buses and car pool drivers. The school developed and implemented a no-idling policy for the grounds. This school was recognized by the Agency's "Champions of the Environment" program. Information is available at http://greenstepschools.com/page1.html To enable better access, a website for this project has been developed and is located at the following link: http://www.scdhec.gov/environment/baq/docs/edu/B2/b2originalprotocol.pdf	2005 December 2007		
		June 6, 2007 - Fountain Inn Elementary School The school has been working for several weeks with county and city planners to implement b2. The school has taken the program beyond its anti-idling focus. The school has plans to plant shade trees, build benches, landscape needed areas, and re-route bus/carpool traffic. Crossroads Middle School, Rosewood Elementary School in Rock Hill and Fountain Inn Elementary School have implemented a no idling policy. Greenville County was the recipient of a 2006 EPA grant to raise public awareness about air quality, and implement an anti-idling campaign in one county school. The anti-idling campaign is called B2-Breathe Better, and the idea is to spread the program through out the county-wide school district. July 2007 - Two "Turn off your engine" signs were placed in the SCDHEC visitor parking lot to encourage anti-idling. A copy of the sign was submitted in the June 2006 EAC Progress Report.	2007		

December 2007

South Carolina State Measures					
A. Control Measure/Activity	B. Control Measure/Activity Description	C. Current Status	D. Date Occurred	G. Pollutants	H. Additional Information
d. Other School and Community Related Activities	BAQ - Education and Outreach – Staff provide education and outreach support to schools and community organizations.	March 21, 2007 – Gilbert Middle School - staff presented the “Air Quality” kiosk panels for display at their outdoor learning center area. Staff worked with several groups at the learning center focusing on the importance of air quality and the state of South Carolina’s air quality. May 10, 2007 - “Air Quality and Trees” presentation - Staff presented to the Northeast Beautification committee about the importance of trees and using native plants and shrubs. The committee has several projects going on in the Northeast area of Columbia, all of which focus on planning greenways, tree planting, and beautification areas. Several BAQ staff is on the “Trees for Two Notch” sub-committee. May 23 – 25, 2007 – South Carolina Public Health Association (SCPHA) conference - Staff conducted provided presentations on the b2 program and EPA’s “Tool for Schools” air quality program. A booth that included several publications on air quality issues (ambient and indoor) focusing on the health effects of poor air quality was provided. Staff has taught the 7th grade at Northside Middle School the science curriculum. Staff has been involved for the past 3 years with Gilbert Middle School. Staff			
e. SC Educators trained with Action for a Cleaner Tomorrow	Environmental Education training for teachers	FY 05 saw 28 educators trained From July 2005 through June 2006 - there have been 26 trainings with 724 teachers trained.	yearly training opportunities		
f. Car Care Awareness Month Project	Increase the target audience’s awareness about the importance of car maintenance in preserving good air quality	The Department and Richland and Lexington counties organized a vehicle maintenance check event in April. The State Museum, Ben Satcher Ford and Pope Davis Tires helped sponsor this free event on April 1, from 10 a.m. until 2 p.m. at the State Museum on Gervais Street. A team of certified technicians made suggestions for improving vehicle safety and gas mileage.	2006		
	Increase the target audience’s awareness about the importance of car maintenance in preserving good air quality	Suddeth Automotive, Richland County offered Free National Car Care Month Inspections on Monday thru Friday between 9 AM and 4:30 PM during the month of April; also offered was a Free Women’s Car Care Seminar on Saturday April 28th. The Department supplied “Driving Smarter For Tomorrow” brochures which included tips to save money, improve vehicle reliability, reduce air pollution, and maximize fuel economy.	April 2007		

December 2007

South Carolina State Measures					
A. Control Measure/Activity	B. Control Measure/Activity Description	C. Current Status	D. Date Occurred	G. Pollutants	H. Additional Information
g. 2006 SC EAC Summit	2006 Early Action Compact (EAC) Summit held in Columbia, SC on August 16-17, 2006 *Attracted nearly 300 stakeholders from 5 different states including representatives from 24 counties and 7 Councils of Government *Participants included representatives from federal, state and local governments as well as industry representatives, environmental organizations as well as private citizens	Topics included energy conservation, diesel retrofits, land use planning, alternative fuels, commuting options and multi-modal transportation, innovative education and outreach, health impacts/lifestyle and finding the funding. Key speakers - Bill Wehrum, Acting Assistant Administrator for Air & Radiation, U.S. EPA, Mark MacLeod, Director for Special Projects in Environmental Defense's Climate and Air program of the Washington DC office.	August 2006		
h. Earth Week 2007 Activities	2007 - Governor Sanford signed a proclamation declaring April 22-28, 2007 as "Earth Week" The Department, with the help of volunteer staff, celebrated Earth Day 2007 throughout the state. During the month of April and the first part of May, staff participated in many community Earth Day events including grade schools, colleges, churches, hospitals, historic parks and private industry (BMW). Over ten-thousand (10,000) environmental materials were distributed.	Staff presented on topics such as air sampling, criteria pollutants, ozone formation, open burning, electric lawn mowers, hybrid electric vehicles, and greenscaping. Distributed information discussed particulate pollution and health, automobile emissions, spill-proof gas cans, the benefits of urban trees, and energy conservation. School aged children were enthused to receive promotional items such as environmental activity booklets, recycled pencils, and several themed posters included ways to help reduce air pollution. 2007 Activities included: Air sampling and monitoring presentation at Coker College Lawn Mower Exchange at the S.C. State Museum First Annual Kids Earth Day in Camden Gas Can Exchange in Greenville N. Augusta Kids Day in Aiken County Earth Day at Park Circle in Charleston Saluda Shoals Park Earth Fair	April 2004 and continues		A copy of this proclamation is located at: http://www.scdhec.gov/eqc/baq/pubs/earthweek.pdf .
i. Small, Gas-powered Engine Exchange Project	Project targeting the exchange of gas-powered lawn mowers for electric mowers.	EAC contacts in Richland and Lexington Counties are continuing to plan for a small gas-powered lawn equipment exchange. A survey tool has been developed and is being utilized at various events held in these two counties to gauge citizen interest for such an event.	2006		

December 2007

South Carolina State Measures					
A. Control Measure/Activity	B. Control Measure/Activity Description	C. Current Status	D. Date Occurred	G. Pollutants	H. Additional Information
	"Mow Down Pollution" Event (April 21, 2007) - Lexington and Richland Counties; Keep the Midlands Beautiful, and the BAQ planned and implemented the first lawn mower exchange in SC. To encourage Columbia area residents to do their part to "Spare the Air," the lawn mower exchange was held at the State Museum to Mow Down Pollution! Estimated emission reductions are 6.8665 tons VOC per year and 14.1205 tons CO per year (based on EPA emissions for 2 cycle gas mowers). A DRAFT "Mow Down Pollution" report and the participant survey was include with the June 2007 EAC Progress Report.	The event collected empty, functional gas powered lawn mowers and offered a discount between 30 percent and 55 percent off MSRP on Neuton cordless electric mowers. To compliment the lawn mower exchange, other partners were invited to exhibit Greenscaping information at the event. These partners helped extend the impact of the exchange by highlighting complimentary lawn and garden practices that help protect air quality. The Columbia event collected 155 gas-powered mowers as trade-in. These mowers were recycled by Lexington County and thereby removed from operation. Since most of the mowers appeared to be two stroke engines, our estimated emission reductions are 6.8665 tons VOC per year and 14.1205 tons CO per year.	2007		
	Lawnmower Exchange Event - 2008 Richland and Lexington Counties and DHEC-BAQ are planning a lawnmower exchange event to be held in 2008.	A planning meeting was held on September 11, 2007. The target date for the event is the Spring of 2008.	2007		
	"Mow Down Pollution"- Lawn Mower Exchange event to be held prior to Dec. 31, 2008 with local government in the Duke Energy service area.	The Education and Outreach Section of the BAQ will be coordinating a "Mow Down Pollution"- Lawn Mower Exchange event and promoting energy efficiency activities, particularly related to use of computer equipment, with local government in the Duke Energy service area in South Carolina. These activities will present opportunities to raise awareness of air quality issues in the Upstate of South Carolina and reduce emissions of air pollution. The funds (\$6500.00) will be used for but not limited to: advertising and promotion, creating brochures and other written materials, providing promotional items and subsidizing the cost of the electric lawn equipment. This project will be completed by December 31, 2008.	November 2007		
j. Grant Assistance	Grant Workshop sponsored by South Carolina and Georgia, in cooperation with staff from the EPA Region 4. January 16 - Augusta/Aiken area January 17 - Central Midlands area January 18 - Greenville/Spartanburg areas	In advance of upcoming funding opportunities for various types of projects to address air quality issues through the EPA, a workshop was held for each of three areas of SC to provide information that may help local entities to improve their proposals for applying for these funding grants.	January 2007		
k. U.S. Walk to School Day	At 141 plus, South Carolina had more schools participating in this anti-obesity, enviro-friendly campaign than any other state except California.		October 2007		

December 2007

South Carolina State Measures					
A. Control Measure/Activity	B. Control Measure/Activity Description	C. Current Status	D. Date Occurred	G. Pollutants	H. Additional Information
2. Commuting Reduction Programs		(			
a. Take A Break From The Exhaust (TABFTE)	Computer based Commuter program that encourages reductions by using a point system 2005 Ozone Season Reductions: 286,889 miles reduced 1,076 pounds of VOC's reduced 684 pounds of Nox reduced 2006 Ozone Season Reductions: 162,000 miles reduced 609 pounds of VOC's reduced 387 pounds of NOx reduced 2007 Ozone Season Reductions: 146, 991 miles reduced 592 pounds of VOCs reduced 411 pounds of NOX reduced	2006 Participants Bureau of Air Quality (BAQ) Bureau of Water Bureau of Land and Waste Management (BLWM) South Carolina Energy Office (SCEO) Wisconsin Department of Natural Resources Lexington County Government Central Midlands Council of Governments (CMCOG) Winthrop University - York County York Technical College Bowater - York County Citi Group - York County Springs Industries - York County The four major participants for the TABFTE program in SC for 2007 were: BAQ, BLWM, CMCOG, and the SCEO.	Yearly April - September		www.scdhec.gov/takeabreak/login.asp Total of 286,889 miles reduced
	TABFTE update	Florence County has expressed an interest in participating and has been set up on the program. Columbia: The Central Midlands Council of Governments (CMCOG) has also been signed up and is participating in the program. Staff has presented this program to two other groups of stakeholders and the SC DOT to encourage implementation at other agencies. The Mid-America Regional Council (Kansas City, MO) has implemented this program with their staff.	2007		

December 2007

South Carolina State Measures					
A. Control Measure/Activity	B. Control Measure/Activity Description	C. Current Status	D. Date Occurred	G. Pollutants	H. Additional Information
b. SmartRide Program	SC DOT sponsored program giving commuters mass transit service to/from Columbia area. During the 2005 Ozone Season, to promote SmartRide and to encourage reductions of ozone precursors, free rides were offered for those days designated as Ozone Action Days. The BAQ helped promote this effort by providing posters and public service announcements. In addition, the BAQ provided \$500.00 to help off-set the cost. During the 2006 Ozone Season, free rides on Ozone Action Days will again be offered.	Passenger Boardings: Total Camden – Columbia: November 2005 – May 2006 7,514 boardings Emissions Reductions (Kershaw, and Richland): 684 pounds NOx 943 pounds VOC During the 2006 Ozone Season, free rides on Ozone Action Days will again be offered. December 2006: Passenger Boardings: Total Camden – Columbia (1): November 2005 – November 2006 14,301 boardings Passenger Boardings: Total Newberry – Columbia (2): November 2005 – October 2006 6,408 boardings	2004		
	SmartRide update	During the 2007 Ozone Season, to promote SmartRide and to encourage reductions of ozone precursors, free rides will be again be offered for those days designated as Ozone Action Days. BAQ staff met on June 12, 2007, with the new SCDOT project coordinator. Discussions included issuing a press release; updating the SmartRide website; increasing ridership; and, possible expansions. The BAQ has committed to provide \$500.00 during the 2007 Ozone Season, along with a matching amount from the SC Energy Office, to provide free rides on Ozone Action Days. SmartRide Statistics for December 2007: Passenger Boardings: Total Camden – Columbia: November 2006 – October 2007 12,332 boardings Passenger Boardings: Total Newberry – Columbia: November 2006 – October 2007 11,709 boardings	2007	2007 Reductions (Kershaw and Richland): 1,642 pounds NOx 2,269 pounds VOC 2007 Reductions (Newberry and Richland): 1,584 pounds NOx 995 pounds VOC	

December 2007

South Carolina State Measures					
A. Control Measure/Activity	B. Control Measure/Activity Description	C. Current Status	D. Date Occurred	G. Pollutants	H. Additional Information
c. SIGIS carpool matching	The Department initiated a web-based, map based carpooling program in December 2005. The program facilitates ridesharing opportunities throughout the state by allowing interested employees to map their commute trip information and view the trips entered by other employees.	The program has undergone some recent refinements and a second agency-wide email notification about the program was sent on June 27, 2006. December 2006 total number of participants - 54 total of 34 employees added their names to the list June 2007 total number of participants - 64	December 19, 2005		The program is available to 4,987 Department employees in eight environmental quality control offices, eight regional public health offices, four Ocean and Coastal Resources Management Offices, and eight office locations in Columbia. At this time there are approximately forty-five participants.
d. Best Workplace for Commuters	Bureau of Air Quality designated as a "Best Workplace for Commuters" February 3, 2005. SCDHEC - Bureau of Air Quality currently holds the only designation in South Carolina	Completed Bureau continues to promote this program to EAC areas and within the Department. December 2006 -BAQ continues to maintain the "Best Workplaces for Commuters" (BWC) status June 2007 – EPA will no longer fund the BWC program. October 2007 - EPA has since announced that the Center for Urban Transportation Research (CUTR) at the University of South Florida assumed responsibility for management of the program when the EPA relinquished it on October 1st. The Department continues to meet the minimum requirements.	February 3, 2005 December 2007 - The Department continues to meet the basic program requirements.		The Department will continue to promote best workplace practices to other programs within the Department as well as other organizations seeking voluntary measures proven to benefit employees and air quality.
e. Audioconferencing	Opportunity to hold meetings through audioconferencing or teleconferencing. SCDHEC offers employees 3 choices based on the number of participants (up to 6, up to 30, or up to 144 lines)	SCDHEC employees as well as other state agency employees were faced with travel restrictions in the late summer months of 2005. Employees were notified via e-mail of the audioconferencing capability.	employees notified in 2005		
f. Bike to Work Events (2007)	May is National Bike Month, and Friday May 18, 2007 was "Bike-to-Work Day."	The Department's State Nutrition and Physical Activity Consultants, Division of Injury and Violence Prevention, and Bureau of Air Quality encouraged Department staff in Columbia to participate in a "Bike-to-Work Day" ride coordinated by Central Midlands Council of Governments and the City of Columbia, and/or to bike to lunch together.	May 1, 2007		

December 2007

South Carolina State Measures

A. Control Measure/Activity	B. Control Measure/Activity Description	C. Current Status	D. Date Occurred	G. Pollutants	H. Additional Information
g. Safe Routes to School Program	The South Carolina Department of Transportation (SCDOT) approved funding to develop comprehensive bicycle and pedestrian programs as part of the "Safe Routes to School Program."	Partnering with SCDOT, local governments, parents, local law enforcement and educators, each school and community will develop a plan that encompasses both infrastructure and non-infrastructure components. One of the purposes outlined in the funding legislation for this program includes facilitating the planning, development, and implementation of projects and activities that will reduce traffic congestions, fuel consumption and air pollution in the vicinity of primary and middle schools.	2007 funding cycle		The schools for the 2007 funding cycle are: College Park Elementary School, Berkeley County; Alston Middle School, Dorchester County; Willow Drive Elementary School, Sumter County; North Vista Elementary School, Florence County; Wren Elementary/Middle School, Anderson County; Lone Oak Elementary School and Pine Street Elementary School, both of Spartanburg County; Rosewood Elementary School, Richland County; College Park Middle School, Berkeley County; Fairfield Middle School, Fairfield County; Stono Park Elementary School and Hunley Park Elementary School, both of Charleston County. Each of the selected schools will receive up to \$200,000.00.
h. Bull Street Partners Carpool Group	Bull Street Partners Carpool Group provides employees of the Bull Street area offices of three State agencies (Department of Health and Environmental Control, Department of Mental Health and Department of Social Services) an opportunity to form carpools, thereby saving money and fuel, reducing pollution and reducing the stress of commuting.	The Department's Bureau of Air Quality sent an electronic mail message to contacts in the three state agencies located at the corner of Bull and Harden Streets. The e-mail encourages people interested in regular carpooling, occasional carpooling, or people who are willing to provide a ride home to sign up. The emails have very gone out to two of the three agencies, the third agency email will be sent out shortly. Seven people have signed up to date, and feedback from the agencies about the program has been very positive. 'Goody Bags' of air quality promotional materials are being provided to people from the Department's sister agencies who sign up.	Began late summer 2007, and is on-going	All Pollutants*	Richland and Lexington as well as other counties within South Carolina
i. Bike Commuting for Air Quality	Spartanburg has received a bronze level Bicycle Friendly Community designation in September 2007. Charleston, Greenville, Rock Hill and Columbia are also working towards designation. Columbia is holding twice-a-month meetings and a monthly lunchtime ride.		September 2007		

December 2007

South Carolina State Measures					
A. Control Measure/Activity	B. Control Measure/Activity Description	C. Current Status	D. Date Occurred	G. Pollutants	H. Additional Information
3. Ground Level Ozone Awareness Week Proclaimed	To increase awareness of ozone pollution on the lifestyle changes needed to see more reductions in ozone pollution levels	For the eighth year in a row, the governor of South Carolina has signed a proclamation regarding ground-level ozone awareness week. In 2007, Governor Sanford signed a proclamation declaring April 1-7, as "Ozone Awareness Week." A news release was developed to help announce this proclamation and was distributed electronically to all EAC contacts for their use locally.	2000 and continues yearly		
4. Regulatory Initiatives					
a. Open Burning-ban household trash burning	Reduce pollution from unnecessary burning	April 14, 2005, DHEC issued a news release reminding citizens in SC of the revised regulations. The revision to the regulation was made in 2004 as a part of the EAC process to improve air quality. Additional news releases were sent out during the Fall to encourage citizens to use alternatives for disposing of yard trash. October 9, 2006, DHEC issued a news release encouraging citizens to reduce open burning of yard debris. Subsequent releases were included in Anderson and Greenville county local papers. 2007 - The BAQ has committed funding of ~\$600.00 to the Anderson County partners to support a billboard campaign to encourage citizens to call prior to burning materials outdoors.	2005		See the December 2005 EAC Progress Report Document for detailed information.
b. SC NOx Control Reg - new sources	Reduce new sources of Oxides of Nitrogen, a precursor to Ozone pollution	on-going	2005		See the December 2005 EAC Progress Report Document for detailed information.

December 2007

South Carolina State Measures					
A. Control Measure/Activity	B. Control Measure/Activity Description	C. Current Status	D. Date Occurred	G. Pollutants	H. Additional Information
5. Assist local areas in determining emission reductions	The Department supports local solutions to local problems. December 2006 - Effort continues and has been expanded as a result of the 2006 SC Early Action Compact Summit. BAQ staff will work with local government officials based on the SC COGs. Staff will assess the local planning activities and offer assistance as needed. 2007 - Department staff continue working with counties and COGs to develop partnerships implementing emission reduction strategies.	SC will continue to work with EPA to assist local areas in determining the emission reduction strategies that will assist the area in achieving emission reductions needed for maintaining the 8-hour ozone standard within their respective area. Dec. 2006 - Examples of this type of work has been the "Motor Vehicle Maintenance Project," expansion of the "Take a Break for the Exhaust Project," and the potential expansion for the "Breathe Better Air at School Project."	2003		
6. Clean Air Initiatives for Gov Entities	Provide forum for Government Entities to meet and seek reductions in air pollution.	The utilization of the TABFTE continued to grow in 2006, with Winthrop University (York County), Central Midlands Council of Governments and York Technical College, Lexington County, Bowater, CitiGroup and Springs Industries. The SCDHEC/BAQ continues the partnership with the SCDOT and the Energy Office to promote ridership on the SmartRide Alternative Transportation project during Ground-level Ozone Season. The BAQ has committed to provide \$500.00 during the 2007 Ozone Season, along with a matching amount from the SC Energy Office, to provide free rides on Ozone Action Days.	2003		
7. Smart Highways and Transportation Issues	Provide improvement in air quality by means of transportation planning	A checklist was developed to be used in transportation planning. The checklist will serve as an informational guideline to be used in reviewing Long Range Transportation Plans and Transportation Improvement Programs for adequacy of their documentation and will be used during long range transportation plan updates as required by 23 CFR 450.322.	2005		Reductions reflect difference between 2007 and 2002 for deferred nonattainment areas. A copy of the Smart Highways Checklist is attached in Appendix 12 of the December 2004 EAC SIP.
	Partnership with SC Department of Transportation	BAQ staff met with SCDOT to discuss air quality issues and concerns including PM and ground-level ozone. Discussion included partnerships with both agencies especially due to the potential impact on transportation and air quality from the PM standard and the upcoming release of the proposed ozone standard.	March 6, 2007		

December 2007

South Carolina State Measures					
A. Control Measure/Activity	B. Control Measure/Activity Description	C. Current Status	D. Date Occurred	G. Pollutants	H. Additional Information
	Partnership with SC Metropolitan Planning Organizations and Council of Governments	Statewide MPO/COG meeting held in Clemson. Panel discussion with BAQ, FHWA and RFATS representatives discussed Transportation Conformity triggers, requirements, status, experiences in RFATS. Also discussed were the new PM standards as well as the expected release of the proposed ozone standard.	May 20-22, 2007		
	Transportation Conformity SIP revision including Memorandum of Agreement (MOA)	A meeting is planned for November 2, 2007 in Columbia of the transportation conformity interagency partners, including EPA Region 4, US DOT (FHWA and FTA) , SC DOT, DHEC, MPO's. Transportation conformity ensures transportation planning considers air quality goals.	Began late summer 2007; a schedule for completion is being developed.		
	Transportation Conformity SIP revision including MOA UPDATE	Stakeholders met on November 2, 2007 to discuss proposed changes to South Carolina's current MOA for Transportation conformity. Stakeholders participating included SCDOT, FHWA Division Office, EPA Region 4, Central Midlands COG/MPO, Rock Hill-Fort Mill MPO, Aiken-Augusta MPO, Greenville-Pickens MPO and the Department. Stakeholders will provide additional comments to the Department for incorporation into the revised MOA.	November 2, 2007		
	Southern Transportation and Air Quality Summit	SCDHEC - BAQ participated in a three day planning meeting to discuss the regional effects of transportation planning on air quality in the southeast.	August 28-30, 2007		
8. Land Use Planning and Smart Growth Initiatives	The EPA and the BCDCOG are providing a series of training workshops on how each of us can work with our elected officials and communities to coordinate on Smart Growth Strategies such as promoting better land use and transportation including improved bicycle and pedestrian facilities. EPA supports this strategic training as a way of reducing energy costs and protecting air and water quality. We will be happy to meet with any group but have meetings set up in Charleston and Dorchester Counties as noted on the attached flyer. Meeting dates in Berkeley County are pending.	SCDHEC - BAQ provided this information to EAC contacts including other contacts from county and municipal governments in South Carolina.	October 2007 workshops began in Berkeley and Charleston counties		
9. Other Point Source Reductions					

December 2007

South Carolina State Measures					
A. Control Measure/Activity	B. Control Measure/Activity Description	C. Current Status	D. Date Occurred	G. Pollutants	H. Additional Information
a. NOx reduction-large facilities	Reduce Oxides of Nitrogen As a part of their commitment to the EAC process, four facilities are voluntarily revising their permits to incorporate the following requirements as federally enforceable permit limits. These actions are permanent and quantifiable and would not have occurred had it not been for the EAC process. (See Executive Summary, Section D.4. and Appendix 10 of the December 2004 EAC SIP.)	1. Transco Pipeline - (Spartanburg County) - IC Engine Facility will begin early implementation, fully implemented by December 2005, of NOx emission reductions required by the Phase II of NOx SIP Call.	April 2005		
		2. International Paper - Eastover (Richland County) agreed to take a 1,000-tpy reduction in its permit limit.	April 2005		
		3. Duke Power - Lee Steam Station (Anderson County) – will install and operate advanced low NOx combustion controls on the smaller two coal-fired boilers (Units 1 and 2). The NOx limits on these units will be incorporated in the Title V permits and incorporated into the SIP. This is a \$7 million investment that will limit NOx emissions to a rate of 0.27lbs/MMBtu.	April 2005		
		4. SCE&G Wateree - (Richland County) agreed to take Title V permit limits on coil fired boilers subject to the NOx Call Requirements.	April 2005		
10. Palmetto State Clean Fuels Coalition Initiatives					
a. Biofuels Showcase	The Palmetto State Clean Fuels Coalition hosted a Biofuels Showcase on Friday, November 18, 2005. This event showcased ethanol and biodiesel. Invited speakers were from the National Ethanol Vehicle Coalition, National Biodiesel Board, and Georgia Power. The event also featured a Ride and Drive Event where participants had a chance to drive the alternative fuel vehicles (AFV's) on display.	Biofuels Showcase was held on November 18, 2005.	Nov. 18, 2005		www.palmettocleanfuels.org/
b. Billion Gallon Celebration	Over the last decade, Clean Cities Coalitions have reported activities that have displaced more than a billion gallons of petroleum in transportation. By implementing projects that make use of alternative fuels, hybrid vehicles, truck idle reduction, fuel blends, and fuel economy improvements, Coalitions have helped build local and regional markets for non-petroleum solutions to our energy challenges.	On October 14, 2005, the Palmetto State Clean Fuels Coalition hosted a variety of celebratory events in Rock Hill, Aiken, Columbia and Greenville.	Oct. 14, 2005		www.palmettocleanfuels.org/

December 2007

South Carolina State Measures					
A. Control Measure/Activity	B. Control Measure/Activity Description	C. Current Status	D. Date Occurred	G. Pollutants	H. Additional Information
c. Ethanol Refueling Infrastructure	There are currently 20 publicly accessible E85 refueling infrastructure stations in the Columbia, Greenville, and Aiken areas	- Currently 33 public E85 refueling sites in SC - In addition to E85, There are currently 14 biodiesel public sites in SC. December 2006 - 40 public E85 and 42 public B20 refueling sites in SC. Two sites, one York Co. will be opening soon. Recent funding for 2 additional E85 sites and a B20 site in the Rock Hill area. June 2007 - 42 public E85 and 45 public biodiesel refueling sites in SC. December 2007 - 49 public E85 and 49 public B20 refueling sites in SC. PSCFC is in the process of funding 7 more sites. An additional 12 E85 sites will be installed over the next 6-8 months.	October 1, 2001		www.palmettocleanfuels.org/
National AFV Day Odyssey: Showcasing Cleaner More Energy-Efficient Choices in Transportation	Public event enables Americans to learn about the benefits of alternative fuel and hybrid electric cars, vans, trucks, and buses.	October 10, 2006 - hosted by York Technical College.	October 10, 2006		
Southeastern Alternative Fuels Task Force-Workshop	BAQ and Wendy Bell/Chantal Fryer participated in and helped to support the planning and implementation of this workshop held in Tennessee, June 6-7, 2005.	Website for the SEAFTF is: http://www.sealtfuels.org/ . Evaluation results for this workshop is available.	June 6-7, 2005		
11. Tree City USA	Tree City USA encourages municipalities and areas to have strong urban forestry programs. BAQ sent an email to all 45 EAC areas in SC asking the counties to encourage municipalities within their county to help participate in this program that can benefit air quality.	June 2006 - Currently there are 39 designated areas in SC - this is an increase of 2 from the December 2005 Progress Report December 2006 - 40 designated areas in SC June 2007 - 40 designated areas November 2007 - 39 designated areas	2005		www.arboday.org/programs/treecity/map.cfm

December 2007

South Carolina State Measures

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12. Homegrown Products campaign	The state Department of Agriculture has launched a new campaign to promote homegrown products. The program will start with fruits, vegetables and ornamental plants, then phase in manufactured foods, then row crops like corn and soy beans, and finally livestock. Growers will use a "Certified SC Grown" logo on their packaging and stickers will identify fruits and other products.	The state's retail grocers, as well as roadside markets and farmers markets, have agreed to participate. The "Certified SC Grown" logo on packaging should be in supermarkets soon.	2007		http://www.certifiedscgown.com/
13. Energy Efficiency					
a. Energy Star's Computer Power Management Software	SCDHEC BAQ experienced an estimated 28% energy savings in 2005 using the computer monitor power management software.	Completed. BAQ Information Technology staff have completed the necessary installation on the respective servers, and the Bureau of Water and Bureau of Land & Waste Management will be participating. This will increase the number of monitors from 150 to over 500.	January 2005 - September 2005		2005-During the reporting period, SCDHEC/BAQ staff met with other state agencies to provide information about Energy Star. These agencies include the SC Energy Office, SC Department of Transportation, and the SC Department of Education. Staff also provided flyers and PowerPoint presentations to EAC counties to demonstrate the benefits of Energy Star to local governments. Future plans include installing Energy Star in other areas of SCDHEC and encourage other state agencies to install Energy Star. Outreach materials and presentations will continue to be made available.

December 2007

South Carolina State Measures					
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b. Energy Star's Change a Light Bulb, Change the World Campaign	SCDHEC BAQ promoted the Energy Star change a Light Bulb, Change the World campaign in the community. SCDHEC made a commitment to energy efficiency and air quality by joining the national ENERGY STAR Change a Light, Change the World Campaign as a pledge driver.	Oct 2006 - BAQ promoted Change a Light and Change the World with Energy Star to DHEC staff via email. Staff promoted the campaign to the external community as well. Nov. 2006 - DHEC staff created and distributed Energy Star pledge postcards at the SC Science Council Conference. 54 pledge cards were returned to replace over 200 incandescent bulbs with compact fluorescents; cards were also distributed to 5th graders at Rosewood Elementary School Feb. 2007 - The BAQ hopes to involve other state agencies and local governments through outreach efforts to get them to utilize Energy Star. To assist with these efforts, BAQ registered as an Energy Star Driver October 2007 - SC DHEC has made a commitment to do our part to save energy, improve air quality and reduce greenhouse gas emissions. We have joined the national ENERGY STAR Change a Light, Change the World Campaign as a pledge driver and have set a goal to encourage 500 of our employees to commit online to replace at least one inefficient incandescent light bulb at home with a highly efficient ENERGY STAR labeled option such as a compact fluorescent light bulb (CFL). By reaching	2006 November 2006 February 2007 October 2007		
	Update Continued:	November 2007 – SC DHEC is proud to report that they have exceeded their goal of 500 pledges in EPA's ENERGY STAR Change a Light, Change the World Campaign. At the time of this reporting, SC DHEC employees have made 751 pledges to replace incandescent light bulbs with a more energy efficient option such as a CFL. This is over 150% of our goal. The 751 participants pledged to replace 6,396 incandescent light bulbs which will save more than 1,803,672 kWh of energy and 2,615,964 pounds of greenhouse gas emissions.	November 2007		

December 2007

South Carolina State Measures					
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c. SCDHEC implements energy efficiency programs	SCDHEC BAQ implemented an energy efficiency program at its own office building.	October of 2006 - BAQ began tracking energy consumption for the Bull Street office building. This information will be used as a baseline to show progress in reducing energy consumption. Research has been done into energy conserving upgrades already completed. BAQ is developing a comprehensive energy efficiency program for the Bull Street building that will include identifying best practices for staff and tracking of energy use. June of 2007 - BAQ consulted with the SC Energy Office to identify building updates and best practices for the Bull Street Building. The consultation included an energy use audit to review consumption history. Also, a building walk-through was performed by an energy auditor to identify potential energy savings.	October 2006 - Present		
	SCDHEC performed computer Energy Use Audit	In an effort to improve energy efficiency in its own facilities, SC DHEC performed an internal computer energy use audit. The study tracked computer energy use over a number of computer use test cases. It was determined that there was significant opportunity to decrease energy use, reduce emissions and save money through better computer power management. As a result, employee education is taking place and new policy is being considered.	August 2007		
d. SC Energy Office	The SC Energy Office released an Annual Report for 2005. Four items addressed in the report include: 1. The SC Energy Office promotes energy efficiency in government agencies and public schools 2. The SC Energy Office promotes the use of renewable energies and sustainable development practices throughout the state 3. Transportation – This section discusses the SC Energy Office role in Palmetto State Clean Fuels Coalition; Alternative Fuel Refueling Infrastructure; Alternative Fuel Vehicles; Take a Break from the Exhaust; and Truckstop Electrification. 4. Public Information – This section discusses the ways in which the SC Energy Office reaches a variety of audiences in the state.		2005		For additional information.... www.state.sc.us/energy/

December 2007

South Carolina State Measures					
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e. Energy Wise	Pilot program sponsored by the Office of Economic Opportunity (OEO) on behalf of the South Carolina Governor's Office. Energy Wise is an adult energy education initiative coupled with low-cost energy efficiency measures and agency staff training. All program participants received energy education from a local community action agency as well as a kit of energy efficiency measures to install in their homes. Data was collected and analyzed to determine energy and cost savings generated by participants and the program as a whole. www.state.sc.us/energy/PDFs/AR_V_3.doc		2005		For additional information....www.state.sc.us/energy/
f. Michelin Energy Reductions in Spartanburg, SC	Michelin Spartanburg Manufacturing in Spartanburg, SC plans to reduce water usage by four million gallons and its energy use by more than 40,000MM Btu's.		2005		
g. Energy Efficiency Summit	South Carolina Summit on Energy Efficiency	The South Carolina Summit on Energy Efficiency (EE Summit) was held on April 30, 2007 in Columbia, South Carolina.	2007		
h. Training Opportunities	Web training sponsored by EPA Energy Star Challenge for local governments	Notification was provided to all EAC contacts regarding the web training opportunity. BAQ training staff are offering this training to BAQ staff as well.	July 12, 2007		
i. Local Meetings	Town Hall Meeting - Conservation on Energy	Hosted by Conoco Phillips and the University of SC. Invited panelists represented organizations active in renewable energy and energy efficiency, business and industry, the environment and conservation. John Litton with the BAQ was a panelist.	June 27, 2007		
j. S.C. Hydrogen Infrastructure Development Act	The act to establish a \$15 million fund to promote the development of a hydrogen economy was passed by the South Carolina Legislature.	While funding for the Hydrogen Infrastructure Development Act was not included in the state budget, legislators did include other critical funds. Through the University of South Carolina budget, EngenuitySC will get \$100,000 to help with preparations for the National Hydrogen Association meeting to be held in Columbia in the spring of 2009. A National Hydrogen Association forum, "Hydrogen Uses in the Military," was held in Columbia this October. USC also got \$1 million for continued funding for hydrogen and fuel research. The S.C. Hydrogen and Fuel Cell Alliance got \$367,640 in recurring funding. The Hydrogen Infrastructure Development Act is recognition by the Legislature that nurturing a hydrogen and fuel cell cluster in South Carolina can have tremendous economic impact.	July 2007		

December 2007

South Carolina State Measures					
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k. Bi-Lo to promote green grocery bags -	Bi-Lo is piloting its green bag effort in about 80 of its more than 220 stores here and in Georgia and Tennessee.	The Super Bi-Lo at the Village at Sandhill (Richland County) is participating in the pilot. Bi-Lo sells two versions of the green bags: a woven recycled plastic for 99 cents and a canvas one, priced at \$2.99. Store management at the Columbia Super Bi-Lo said each time shoppers use any reusable bag, they receive a 5-cent per bag credit when they check out each shopping trip. It doesn't seem like much at first - but after 20 uses, a woven plastic bag pays for itself.	August 2007		
l. Santee Cooper efforts	Santee Cooper announced they will quadruple to 40 percent by 2020 the amount of electricity made from non-greenhouse gas sources and created a new department to oversee the effort.	The state-owned utility serves most of Horry and Georgetown counties either directly or indirectly, with about 2 million residents statewide receiving power from it. The company also began purchasing excess power from customers who make electricity with solar panels and other generators.	October 2007		
m. Aiken Electric Cooperative and Santee Cooper announce Green Power Solar Schools program New Ellenton Middle School selected	Aiken Electric Cooperative and Santee Cooper announced the formation of the Green Power Solar Schools program in the cooperative territory, and that New Ellenton Middle School has been selected as the Green Power Solar Schools program participant. The initiative is designed to encourage interest in the environment and demonstrate the feasibility and limitations of renewable power generation. Each school will receive a 2 kilowatt solar power system, which will provide a teaching, research and hands-on demonstration opportunity for students. A focus of the project is the use of a new renewable energy curriculum endorsed by the South Carolina Department of Education. The program continues the Electric Cooperatives of South Carolina's and Santee Cooper's efforts to promote renewable energy, and fulfill Santee Cooper's commitment to reinvest Green Power funds back into renewable resources across South Carolina.	Four additional schools, served by Palmetto Electric Cooperative, Berkeley Electric Cooperative, Blue Ridge Electric Cooperative and Laurens Electric Cooperative will also begin the solar schools program the next calendar year.	August 1, 2007	All Pollutants*	

December 2007

South Carolina State Measures					
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n. Want Discounts on Energy Efficient Light Bulbs?	Progress Energy is offering discounts on compact fluorescent light bulbs at 11 Home Depot stores in North and South Carolina. The energy efficient bulbs will be available with the 1 dollar discount from October first to December 30th. The companies say they plan to sell up to 200,000 of the 40, 60 and 100-watt bulbs. Progress Energy is trying to gauge consumer acceptance and awareness of the fluorescent bulbs. If the program is successful at the North and South Carolina stores, it could expand. The North Carolina Utilities Commission approved the program this week. It will cost about \$350,000	This information was provided to all EAC contacts requesting they forward/share the information to all stakeholders.	September 20, 2007		
o. Palmetto Clean Energy	SCANA Corp., Duke Energy Corp. and Progress Energy Inc. will start selling "green power" to their South Carolina customers early next year through a nonprofit group established by the state.	The three utilities will market the renewable energy to the 1.3 million homes and businesses that they serve in the state, while the newly formed organization, dubbed Palmetto Clean Energy, or PaCE, will buy the power from small Southeastern companies that generate electricity with wind turbines, solar panels and landfill gas.	September 2007		
p. Waste Management - Landfill Gas to Energy	Waste Management, Inc. announced a major national initiative to expand the number of landfill gas to energy (LFGTE) facilities. The program will result in the creation of an additional 60 renewable energy facilities across the country -- including the potential of two additional facilities in South Carolina -- over the next five years.		September 2007		Waste Management currently operates LFGTE facilities at Elgin and Wellford. The two LFGTE plants generate nearly 16 MW of electricity -- enough to power 15,000 homes per year. The company also has two other landfills in St. George and Ridgeland, which could host a LFGTE facility. As part of the national initiative, WM will generate more than 700 megawatts of clean renewable energy -- enough to power 700,000 homes or replace over eight million barrels of oil per year.
q. South Carolina Electric Cooperatives Invest in Conservation and Renewable Energy	South Carolina's 20 electric cooperatives plan to invest up to \$10 million per year towards renewable energy and energy efficiency measures.	The investment includes a three-pronged approach to improving the environment and saving energy. The following three measures represent the beginning of this process. -Encouraging homegrown renewable energy (a pilot program for net metering.) -Producing efficiencies to save energy and money (a program to place energy efficient compact fluorescent lights (CFLs) in the home of every cooperative member in the state, approximately seven million bulbs within 10 years). -Investing resources in clean energy research (a partnership with the University of South Carolina to develop technology that reduces carbon dioxide and other emissions from coal-fired power plants).	October 2007		

December 2007

South Carolina State Measures					
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r. Alternative Energy Tax Credits	South Carolina began offering a number of new tax credits for people and businesses investing in alternative energy.	A state tax credit that took effect in 2007 covers 25 percent of the cost of solar equipment for hot water, heating, cooling, or generating electricity, as an income tax credit worth up to \$3,500 or half an individual's tax liability. The credit can be carried over for up to 10 years. For new homes, according to the U.S. Department of Energy, solar water heating systems can save money immediately, when the monthly energy savings are compared to the amount a system adds to the cost of a 30-year mortgage.	November 2007		
14. School Buses					
a. Santee Cooper SEP	Provide installation and maintenance for approximately 157 diesel particulate filters for school buses in the non-attainment and deferred counties	Requests for proposals have been submitted but uncertainty of availability of ULSD will delay the project until June 2007. The funding allowed for 105 installations that have been completed to date.	2006 October 2007		
b. Weyerheuseur and Duke Energy Project	Provide installation and maintenance for approximately 10 diesel oxidation catalysts and crankcase filtration systems for school buses in Marlboro and Oconee counties.	Application and implementation is delayed until January 2006 pending announcements of the CSBUSA grant recipients.	2006		
c. Clean School Bus USA Grant 2006	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 funding sources will be distributed throughout the state.		June 2006		
d. State Owned School Buses	Legislation	A school bus replacement law June 2007 requires the state to provide funding to replace one fifteenth of the school bus fleet each year. The law also requires the state to use biodiesel in the buses.	June 2007		

December 2007

South Carolina State Measures					
A. Control Measure/Activity	B. Control Measure/Activity Description	C. Current Status	D. Date Occurred	G. Pollutants	H. Additional Information
e. South Carolina Department of Education - School Bus Initiative	Two plug-in hybrid electric buses with a 2007 emission compliant diesel engine fueled with ultra-low sulfur diesel (soon to be ultra low sulfur 20% biodiesel) were purchased. One bus will be placed in Richland County and another in York County	Draft press release September 27, 2007 Press conference held on October 11, 2007	October 11, 2007 Dated to be placed into service	All Pollutants*	
f. Clean School Bus USA Grant 2007	The South Carolina Department of Education submitted a grant proposal for the 2007 U.S. Environmental Protection Agency Clean School Bus USA grant, in conjunction with the Southeast Diesel Collaborative. Initial review indicates with some minor modifications, the proposal will be accepted and the Department of Education will be awarded the grant.	The grant will provide 500 school buses with crankcase ventilation filters and anti-idling hardware. The grant will also allow the Department of Education to create a computer program that will use GPS data to identify areas of excessive idling. The Department of Education has also requested additional funding for anti-idling awareness education.	2007		
g. Ridership Grant Proposal 2007	Staff in the BAQ's DAPDO (SCDHEC) submitted a proposal to EPA's Mobile Source Outreach Competition Grant for 2007.	This proposal is intended to work with an elementary and middle school in local areas (up to 3 areas) of the State to determine mechanisms to increase the utilization of school buses and carpooling to and from school by students. This project will include working with parents, students, faculty and school administration to encourage better use of school buses for transportation.	Proposal submitted		
15. Southeast Diesel Collaborative (SEDC)					
Southeast Diesel Collaborative (SEDC)	Partnership between US EPA Region 4, State and local air quality programs, and other public and private entities intended to promote opportunities to reduce diesel emissions.	SCDHEC - BAQ signed a MOU in support of the Southeast Diesel Collaborative (April 26, 2006) *Created partnerships and disseminated information for reductions of diesel emissions. *South Carolina stakeholders meeting in August 2006 in Columbia. *Emerging fuels conference was held in Atlanta in December 2006.	2006		

December 2007

South Carolina State Measures					
A. Control Measure/Activity	B. Control Measure/Activity Description	C. Current Status	D. Date Occurred	G. Pollutants	H. Additional Information
		March 2007 - workshop for identifying available funding sources to implement clean diesel programs. Two DHEC employees attended the workshop and received the training materials and contacts to pursue funding for diesel emission reduction programs. June 2007 - second annual partners meeting in Atlanta, Georgia. The meeting provided an opportunity for the eight Region 4 state environmental commissioners, including South Carolina's, to establish a vision for future diesel emission reduction projects. December 2007 - BAQ staff continue to participate in routine conference calls with the SEDC partners.	2007		
16. Climate Change Discussions					
Climate, Energy and Commerce Advisory Committee (CECAC)	Governor Sanford issued an Executive Order creating the CECAC.	Department staff compiled background materials to include studies, current actions, and a draft list of potential participants that will comprise five technical work groups and the decision-making body, the CECAC. The process will follow the Center for Climate Strategies-facilitated study and adoption of carbon reduction policies. It is anticipated to take a year or more to complete. The first CECAC meeting took place May 3, 2007. Staff is working with stakeholders across the state in shaping GHG-reduction policies as part of the Governor's Climate Environment & Commerce Advisory Committee.	February 16, 2007		

December 2007

South Carolina State Measures

A. Control Measure/Activity	B. Control Measure/Activity Description	C. Current Status	D. Date Occurred	G. Pollutants	H. Additional Information
	The Climate Registry (TCR)	South Carolina joined with 31 other states as a founding member of The Climate Registry (TCR). BAQ staff is setting out a strategy for recruiting participation by regulated and non-regulated entities. On August 3, 2007, BAQ will give a presentation on TCR to the state Chamber of Commerce Technical Committee. BAQ is collecting data from the City of Columbia to determine base year emissions inventory. BAQ is also assisting the cities of Greenville and Rock Hill to implement their US Mayors Climate Protection Agreement. Staff is beginning an outreach campaign to enlist regulated and non-regulated entities for participation in The Climate Registry. Eight business nationally have signed Statements of Intent to join the registry as of November 15, 2007, none are in South Carolina. South Carolina has set a goal of having three businesses sign up before January 15, 2008.	2007		
Founding member and supporter of the Climate Registry	The Climate Registry, established by states, tribes and provinces in North America as a mechanism to measure greenhouse gas (GHG) emissions consistently across industry sectors and borders. The Climate Registry encourages voluntary early actions to increase energy efficiency and decrease GHG emissions. The Climate Registry accounting infrastructure supports a wide variety of programs that reduce GHG emissions including voluntary, regulatory and market-based programs.	A meeting was held on October 4, 2007. Joel Levin provided an overview of the The Climate Registry. Mr. Levin is the California Climate Action Registry's Vice President for Business Development. He is responsible for educating participants from all economic sections and regions to register and certify their greenhouse gas emissions. Representatives from state and local governments, including Lexington County, as well as business and industry attended the discussion.	October 4, 2007		
17. Open Burning Activities					

December 2007

South Carolina State Measures					
A. Control Measure/Activity	B. Control Measure/Activity Description	C. Current Status	D. Date Occurred	G. Pollutants	H. Additional Information
Established workgroup	A workgroup was established in 2005 that includes staff representation from the Department's Bureau of Land and Waste Management (BLWM) and the Bureau of Air Quality (BAQ) to develop a tool for staff, especially regional inspectors, to more clearly outline the regulations the two Bureaus have related to Open Burning regulations.	On April, 26, 2007, the Waste Disposal Matrix Document tool described above was approved for use internally with staff in the BLWM and BAQ. A meeting of the inter-bureau workgroup is scheduled for June 28, 2007 to discuss the development of a training plan to use this tool with the appropriate staff. On September 28, 2007, the managers of the education and outreach sections for the BLWM and for the BAQ, met with staff from the Agency Media Services to discuss the development of a statewide Open Burning information campaign. This campaign is tentatively set to begin in the Spring of 2008 and will include TV and radio PSAs, and print materials targeting various key audiences with messages on options to open burning materials.	2005 on-going activities		
18. Railroads - Diesel Emissions					
Education/Outreach Conferences	Reduction in Diesel Emissions from Railroads	Railroads - Diesel emissions - The Department has initiated programs to address diesel emissions from railroads in South Carolina. During October and November 2007, the Department participated in a national and a regional conference to seek reductions in diesel emissions. The Department is working with CSX Railroad to implement some of those strategies in Charleston.	October and November 2007		
SC Department of Commerce Division of Public Railways	Ultra Low Sulfur Diesel (ULSD)	In November 2007, the Division of Public Railways (South Carolina Department of Commerce) announced that all locomotives will be using ultra low sulfur diesel (ULSD) fuel five years earlier than the EPA mandate (2012). The Division of Public Railways uses an estimated 26,000 gallons of diesel fuel annually.	November 2007		
19. State Ports Authority					

December 2007

December 2007					
South Carolina State Measures					
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South Carolina State Ports Authority	Ultra Low Sulfur Diesel (ULSD)	In March 2007, the SPA signed a memorandum of agreement with the Department to partner in reducing port-related diesel emissions. The Department is working with the State Ports Authority (SPA) to reduce diesel emissions. In September 2007, the SPA switched its off-road diesel equipment to ULSD three years prior to the EPA mandate (2010).	March 2007 Fall 2007		
20. Mass Transit					
"Carolina Swamp Rabbit Tram Trail."	The plan is to convert an abandoned 10-mile-long rail line, from Greenville to Travelers Rest, into a multi-use trail for recreational and motorized transit.	A 7-foot-wide microbus would travel a 10-foot wide asphalt strip constructed over the railroad bed, carrying passengers between downtown Greenville and downtown Travelers Rest. The plan is an intermediate step in response to U.S. Department of Transportation statistics showing that Georgia and South Carolina lead all states in the number of rural residents dependent on passenger rail as their only public transportation. The long-term goal of the plan is to preserve the integrity of the rail corridor for eventual conversion to a commuter rail line, while attempting to have the area's transportation infrastructure keep pace with expanding growth.	December 2007		
21. Alternative Fuels					
South Carolina Biodiesel Fuel Quality Symposium	The South Carolina Biodiesel Fuel Quality Symposium took an in-depth look at the latest regulatory, environmental, and technical developments impacting the fastest-growing renewable fuel industry in South Carolina.	The event's technical program provided participants with a basic understanding of how biodiesel is produced, fuel management, fuel quality, component compatibility, regulatory issues, and incentives. Speakers include recognized experts in their respective fields including industry professionals, regulators, local and state officials, fleet managers, retailers, distributors, and producers.	September 19, 2007		

December 2007

South Carolina State Measures

A. Control Measure/Activity	B. Control Measure/Activity Description	C. Current Status	D. Date Occurred	G. Pollutants	H. Additional Information
Hydrogen-fueled truck	Washington Savannah River Co. gave \$175,000 to the Center for Hydrogen Research in Aiken for a hydrogen-fueled truck	The hydrogen-fueled truck will demonstrate the viability of the alternative fuel. The center also announced plans for a refueling station to provide hydrogen for the truck and other hydrogen-powered vehicles. The Hydrogen Internal Combustion Engine vehicle, or HICE, is based on a full-size 2007 Chevrolet Silverado 1500 pickup. The truck will be powered solely by hydrogen. Options for the refueling location include either the Savannah River Research Campus or at a site along I-20.	October 2007		