US ERA ARCHIVE DOCUMENT



STATE OF TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION

NASHVILLE, TENNESSEE 37243-0435

ROBERT J. MARTINEAU, JR. COMMISSIONER

BILL HASLAM GOVERNOR

April 5, 2012

Gwendolyn Keyes Fleming Regional Administrator USEPA, Region IV Sam Nunn Atlanta Federal Center, 12th Floor 61 Forsyth Street, SW Atlanta, GA 30303

RE: TDEC Follow-up to February 27, 2012 Ozone Designations Recommendation Letter

Dear Administrator Fleming:

Thank you for the opportunity to discuss our revised ozone nonattainment area designation recommendations (for the 2008 standard) with your staff on March 16 and April 2. Based on these discussions, we would like you to consider the additional information discussed below and in the attachments included with this letter.

For the Knoxville area, we were informed by your staff that the Knox County data from March 1, 2011 to June 23, 2011 may not be acceptable because the local program failed to activate the temperature sensors at the monitoring stations. Working closely with EPA staff, an in-depth 40 CFR Part 50 Appendix P data analysis was performed to create alternative data for your consideration. Please consider the data analysis for the 2011 Knox County data included in the letter from Barry Stephens to you dated April 5, 2012. This letter, without attachments, is included with this letter.

We recommend that the 2009-2011 monitoring data, with the Appendix P derived alternative Knox County data, be used for this area in your designations. Using this data, only the monitor located at Look Rock in Blount County exceeds the standard of 0.075 parts per million with a calculated design value of 0.077 parts per million. This is a high elevation site located within the Great Smoky Mountains National Park which we believe is predominately influenced by long range transport. Our recommendation for the Knoxville area is as follows:

Knoxville Area:

That portion of Blount County that contains the Great Smoky Mountains National Park – nonattainment Rest of Blount County – attainment Anderson, Cocke, Knox, Loudon, and Sevier Counties - attainment Gwendolyn Keyes Fleming April 5, 2012 Page 2 of 3

Tennessee has carefully evaluated the current and past monitoring data of the Knoxville area, and it is our opinion that the recommendation above is both legally defensible and environmentally sound. We refer to the 9-factor analysis contained in our correspondence dated February 27, 2012, and ask that you give this recommendation strong consideration. If however, you still deem this unacceptable, we ask that you consider the following two options, in order of preference: the partial Counties of Blount, Cocke & Sevier that comprise the Great Smoky Mountains National Park nonattainment, with the rest of Blount, Cocke and Sevier Counties attainment and Anderson, Knox, and Loudon Counties attainment; or Knox County and the partial counties of Blount, Cocke and Sevier that comprise the Great Smoky Mountains National Park nonattainment, with the rest of Blount, Cocke & Sevier Counties attainment and Anderson and Loudon Counties attainment.

If the Knox County 2011 data is still deemed unacceptable after your review of the jointly prepared Appendix P analysis of Knox County's 2011 data and 2008-2010 monitoring data must be used, we request that only Knox County be designated nonattainment (along with those areas listed above in the Great Smoky Mountains National Park) because only the Knox County data is inadequate, Knox County is the most urbanized and most populated county in the Metropolitan Statistical Area, and EPA expects to propose a new ozone standard in 2013. Blount County has lost approximately 450 high-paying manufacturing jobs from the shutdown of Alcoa's primary aluminum smelter, and it is essential that they have the ability to attract new industries to the site of the former smelter to regain some of those lost jobs. This is a prime industrial development site with approximately 4,000 MWH per day of clean energy available, and we have initiated discussions with your staff to examine the feasibility of an Economic Development Zone under Section 173(a)(1)(B) of the Clean Air Act (CAA).

If none of the recommendations presented above are acceptable, please consider the recommendation in Attachment 2. Based on 2008-2010 monitoring data, our recommendation is all of Knox County – nonattainment, Blount County – partial nonattainment and partial attainment, Anderson County – partial nonattainment and partial attainment, Loudon, Sevier, and Cocke Counties – attainment. For Blount County, we recommend that the area north of US Highway 411 be designated nonattainment, with the exception of the census tracts identified in Attachment 2 that include the Alcoa South property and the property between Alcoa South and Highway 411, and the portion of the Great Smoky Mountains National Park located in Blount County. We recommend that the remaining portion of Blount County, including the identified census tracts, be designated attainment. For Anderson County, we recommend that only the census tracts containing the TVA Bull Run facility be designated nonattainment, with the remainder of Anderson County attainment. See Attachment 2 for supporting information about the proposed boundaries in Anderson and Blount Counties.

For the Memphis area, we reiterate that the monitors in Shelby County demonstrate attainment with the 2008 standard based on 2009-2011 monitoring data and refer to our letter dated February 27, 2012. The Arkansas monitoring data for 2011 demonstrating

Gwendolyn Keyes Fleming April 5, 2012 Page 3 of 3

nonattainment of the standard has not yet been certified but has been quality assured and will be certified before official designations must be made. For this reason and the reasons outlined in our February 27, 2012 letter, we recommend that Shelby County be designated attainment with the 2008 ozone standard based on 2009-2011 monitoring data. As part of the NO_x SIP Call, major NO_x sources in Shelby County have already made significant NO_x reductions. Two large power plants in the Arkansas counties to the west of Shelby County are not subject to the NOx SIP Call and have done little to help the area attain. If you still find that a full county designation of Shelby County as attainment is unacceptable, we request that you limit the nonattainment designation to the Memphis city limits; the city limits of Bartlett, Germantown, and Collierville; and the census tracts containing the Dupont and Atofina Chemicals facilities. (See Attachment 3) We also recommend that Fayette and Tipton County be designated attainment.

We appreciate the opportunity to provide input during this consultation process, and request you revise your initial determinations in accordance with this letter. We welcome the opportunity to discuss these issues in further detail with you at your earliest convenience before final designations are made. Your favorable review of these recommendations will be appreciated. If you should have further questions, please have your staff contact our air pollution control program director, Barry R. Stephens, P. E., at (615) 532-0525 or Barry.Stephens@tn.gov.

Sincerely,

Robert J. Martineau, Jr.

Commissioner

RJM:cm

Enclosures:

40 CFR Part 50 Appendix P Data Analysis transmittal letter dated April 5, 2012 Recommended Knoxville Nonattainment Area Boundaries Recommended Shelby County Nonattainment Area Boundaries

Copy (w/enclosures):

Stan Meiburg, EPA Region IV
Beverly Banister, EPA Region IV
Carol Kemker, EPA Region IV
Scott R. Davis, EPA Region IV
Lynorae Benjamin, EPA Region IV
Lynne Liddington, Knox County Local Air Program
Bob Rogers, Shelby County Local Air Program

Attachment 1 40 CFR Part 50 Appendix P Data Analysis Submittal Letter for Knox County



STATE OF TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION

DIVISION OF AIR POLLUTION CONTROL 9TH FLOOR L & C ANNEX 401 CHURCH STREET NASHVILLE, TENNESSEE 37243-1531

April 4, 2012

Ms. Gwendolyn Keyes Fleming Regional Administrator US EPA Region IV Atlanta Federal Center, 12th Floor 61 Forsyth Street SW Atlanta, GA 30303

Certified Mail7006 3450 0003 9091 3381 Return Receipt Requsted

Re: 40 CFR Part 50 Appendix P Data Analysis For Missing 2011 Knoxville Ozone Data

Dear Ms. Fleming:

Ambient ozone monitoring sites identified in the Air Quality Subsystem (AQS) under numbers 470930021 and 470931020 recorded incomplete data during calendar year 2011. The majority of missed data for both sites was due to the lack of recording shelter temperature for the period March 1 through June 22. Since the missed data occurred during the early part of the ozone monitoring season when ambient conditions were not conducive to concentrations above the level of the standard, the state of Tennessee requests a portion of this data (as referred to in the attachment) be considered as missed data less than the standard under 40 CFR Part 50 Appendix P Section 2.3(b). Attached is an analysis of the data in accordance with this rule.

Inclusion of the data for the time period requested allows both monitoring sites to meet minimum data completeness requirements for the period 2009 through 2011.

Your favorable consideration of this request would be greatly appreciated.

Sincerely.

Quincy N. Style III

For Barry R. Stephens, P.E.

Director

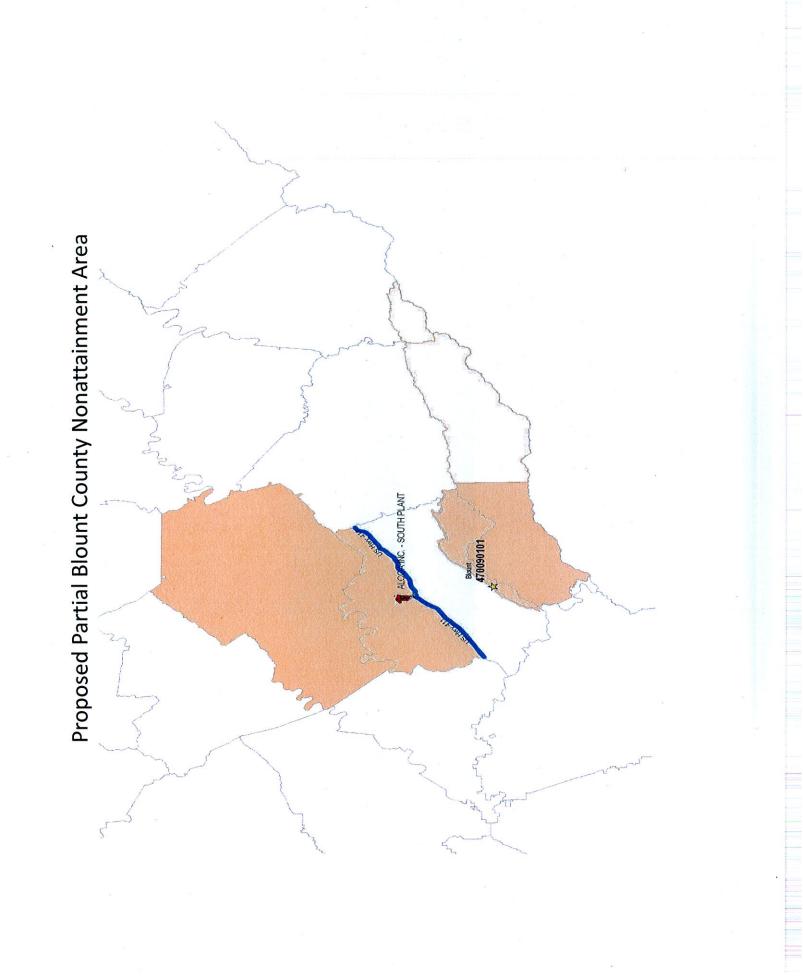
Division of Air Pollution Control

Attachment

CC

Stacey Harder Lynne Liddington

Attachment 2 Proposed Blount County and Anderson County Boundaries



Blount County Alcoa Census Tract Information

2010 Census Blocks Intersecting Alcoa South Parcels

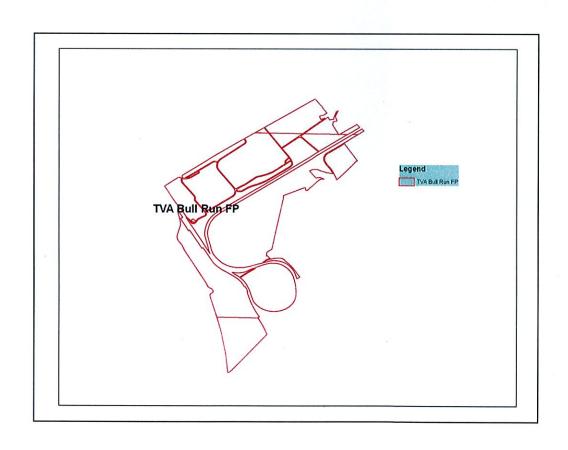
											,																		
POP10	0	43	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Na South Parce	0	15	0	0	5	0	0	0	0	0	0	0	0	0	0	0	. 0	0	0	0	0	0	0	0	0	0	0	0	0
2010 Census Blocks Intersecting Alcoa South Parcels =10 REOCKCE REOCKID10 HOLISING10 PC	470090101001003	470090101001008	470090101002000	470090101002001	470090101002002	470090101002007	470090101002008	470090101002009	470090101002010	470090101002011	470090101002012	470090101002013	470090101002014	470090101002015	470090101002070	470090101002071	470090101002072	470090101002074	470090101002076	470090101002077	470090101002078	470090101002079	470090101002080	470090101002081	470090101002092	470090101002137	470090101002143	470090102003024	470090102003027
Census Bio)	1008	2000	2001	2002	2007	2008	2009	2010	2011	2012	2013	2014	2015	2070	2071	2072	2074	2076	2077	2078	2079	2080	2081	2002	2137	2143	3024	3027
2010 TRACTCE10)	10100	10100	10100	10100	10100	10100	10100	10100	10100	10100	10100	10100	10100	10100	10100	10100	10100	10100	10100	10100	10100	10100	10100	10100	10100	10100	10200	10200

+			,	σ
10100	2088	470090101002088	4	ī
10100	2091	470090101002091	2	16
10100	2134	470090101002134	5	17
10700	4042	470090107004042	0	0
10500	1009	470090105001009	12	21
10100	2136	470090101002136	0	0
10100	2140	470090101002140	æ	12
10800	2051	470090108002051	10	21
10800	2062	470090108002062	4	11
10800	2063	470090108002063	0	0
10700	4035	470090107004035	12	17
10800	2059	470090108002059	0	0
10500	1015	470090105001015	0	0
10100	2096	470090101002096	1	0
10700	4031	470090107004031	6	22
10100	2082	470090101002082	9	10
10100	2090	470090101002090	14	26
10700	4033	470090107004033	25	47
10800	2061	470090108002061	I	2
10800	2050	470090108002050	0	0
10100	2126	470090101002126	0	0
10100	2135	470090101002135	4	m
10700	4039	470090107004039	2	6
10100	2084	470090101002084	0	0
10700	4040	470090107004040	0	0
10500	1032	470090105001032	0	0
10700	4044	470090107004044	9	11
10100	2124	470090101002124	0	0
10100	2097	470090101002097	0	0
10700	4037	470090107004037	14	15
10500	1013	470090105001013	42	51
10100	2083	470090101002083	11	24
10800	2052	470090108002052	19	30
10700	4036	470090107004036	94	72
10700	4041	470090107004041	0	0
10100	2122	470090101002122	0	0
10700	4022	470090107004022	24	55
10500	1026	470090105001026	0	0
10100	2086	470090101002086	14	29
10700	4034	470090107004034	4	12
10800	2064	470090108002064	0	0
10500	1025	470090105001025	0	0
10800	2058	470090108002058	0	0
10500	1001	470090105001001	0	0
10100	2092	470090101002092	0	0
10100	2089	470090101002089	8	14
10100	2087	470090101002087	11	26
10700	4043	470090107004043	0	0
10800	2048	470090108002048	51	147
10500	1014	470090105001014	1	1
10700	4032	470090107004032	17	38
10100	2088	470090101002088	4	6
10100	2085	470090101002085	4	4
10500	1024	470090105001024	0	0
10800	2060	470090108002060	0	0

Proposed Partial Anderson County Nonattainment Area

Parcel Information	on
COUNTY_ID	1
CALC_ACRE	674.4899902
SHAPE_AREA	4853719.298
PARCELID	A001101 00900 000101 CA
ID	101 009.00
ST_NUM	, T
STREET	BULL RUN
ADDRESS	BULL RUN
OWNER	TVA
PROPTYPE	4
PT	04 FEDERAL
UPDSORT	20050412
UPDATED	4/12/2005

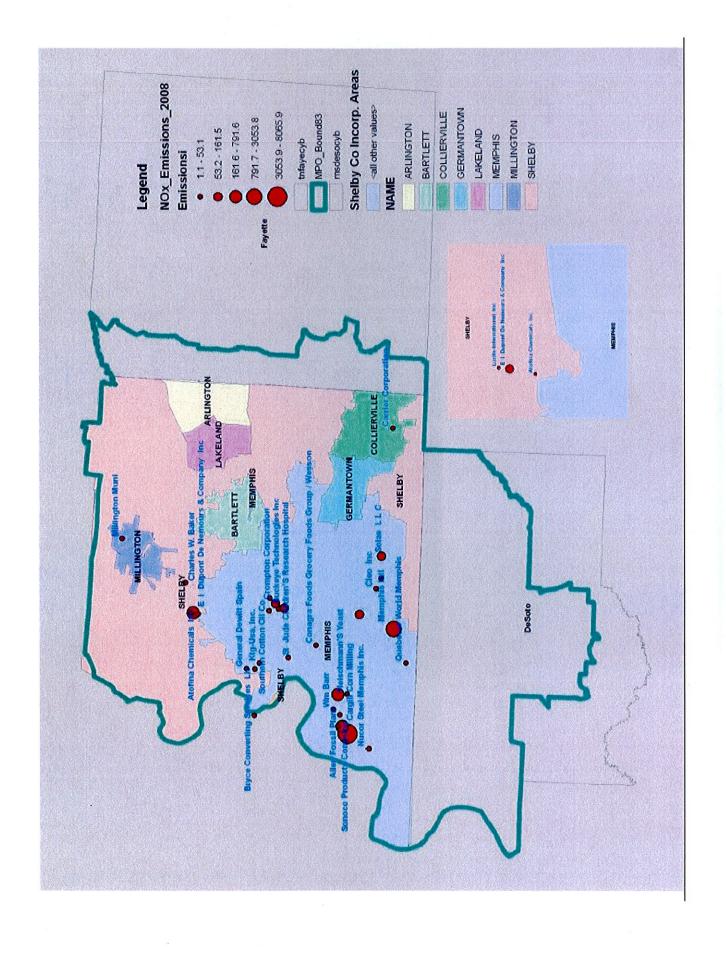
Table 1 TVA Bull Run Parcel Details



BLOCKID	TOTAL POP	STATE	COUNTY	TRACT	NAME	AREA LAND
470010202011002	0	47	1		Block 1002	12647
470010202011003	0	47	1	The second second second	Block 1003	584278
470010202011004	0	47	1		Block 1004	0
470010202011005	0	47	1		Block 1005	0
470010202011006	0	47	1		Block 1006	12857
470010202011008	167	47	1		Block 1008	251436
470010202011009	0	47	1		Block 1009	515
470010202011026	0	47	1		Block 1026	261
470010202011027	131	47	1		Block 1027	133627
470010202011027	15	47	1		Block 1029	22879
470010202011020	2	47	1		Block 1030	992
470010202011030	39	47	1		Block 1033	34924
470010202011066	21	47	1	1, 100, 0, 200, 0, 107	Block 1066	20879
470010213011004	6	47	1		Block 1004	15974
470010213011004	0	47	1		Block 1005	302
470010213011003	50	47	1		Block 1002	174876
470010213021002	56	47	1		Block 1002	253174
470010213021007	21	47	1		Block 1007	39472
470010213021007	5	47	1		Block 1010	47836
470010213021010	0	47	1		Block 1017	5721
470010213021017	74	47	1		Block 1017	241849
470010213021018	42	47			Block 1019	202221
470010213021019		47	1		Block 1019	
	0	47	1		Block 1020	461
470010213021021	0	47	1			13564
470010213021022			1		Block 1022	
470010213021023	29	47	1		Block 1023	205739
470010213021024	36	47	1		Block 1024	34760
470010213021025	0	47	1		Block 1025	2037
470010213023025	0	47	1		Block 3025	0
470010213023041	21	47	1		Block 3041	57078
470010213024011	14	47	1		Block 4011	163632
470010213024015	114	47	1		Block 4015	894796
470010213024016	0	47	1		Block 4016	183888
470010213024017	0	47	1		Block 4017	5116
470010213024018	0	47	1		Block 4018	42948
470010213024019	47	47	1		Block 4019	553145
470010213024020	142	47	1		Block 4020	67820
470010213024021	67	47	1		Block 4021	16060
470010213024022	16	47	1	The second second second second	Block 4022	10327
470010213024023	135	47	1		Block 4023	47703
470010213024024	0	47	1		Block 4024	355
470010213024025	142	47	1		Block 4025	751634
470010213024026	0	47	1		Block 4026	0
470010213024027	36	47	1		Block 4027	41112
470010213024028	9	47	1		Block 4028	9241
470010213024029	2	47	1		Block 4029	491285
470010213024030	0	47	1		Block 4030	330483
470010213024031	0	47	1		Block 4031	65120
470010213024032	0	47	1		Block 4032	3721
470010213024033	0	47	1		Block 4033	1268
470010213024034	0	47	1		Block 4034	59715
470010213024035	0	47	1		Block 4035	284982
470010213024037	0	47	1		Block 4037	0
470010213024038	0	47	1		Block 4038	67105
470010213024039	0	47	1		Block 4039	92461
470010213024040	0	47	1		Block 4040	0
470010213024042	0	47	1		Block 4042	5758
470010213024044	0	47	1		Block 4044	2044
470010213024047	0	47	1	21302	Block 4047	312283

Table 2 Census Block Population and Area

Attachment 3 Shelby County Maps



DuPont and Atofina Census Tracts

E I Dupont De Nemours & Company Inc

2571 Fite Road

STFID	STATE	COUNTY	TRACT	BLKGRP	BLOCK
471570202212031	47	157	20221	2	2031
471570202212034	47	157	20221	2	2034
471570202212035	47	157	20221	2	2035

Draft 03192012 Memphis 8 Hour (0.075 PPM) Ozone Non-attainment Area

