



**ENERGY AND ENVIRONMENT CABINET  
OFFICE OF THE SECRETARY  
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June 2, 2011

Ms. Gwendolyn Keyes Fleming  
Regional Administrator  
U.S. EPA, Region 4  
Sam Nunn Atlanta Federal Center  
61 Forsyth Street, SW  
Atlanta, Georgia 30303

RE: Recommendations for SO<sub>2</sub> Nonattainment Areas in Kentucky

Dear Ms. Fleming:

In accordance with Section 107 (d)(1)(A) of the Clean Air Act, states must submit to U.S. EPA, within one year following promulgation of a new or revised National Ambient Air Quality Standard, a list of all areas in the state, recommending designations for each as attainment, nonattainment, or unclassifiable with respect to a new or revised standard for a pollutant.

In a letter dated March 28, 2011, I was notified that proposed designation recommendations for Kentucky are due June 3, 2011, for the new 1-hour standard for sulfur dioxide (SO<sub>2</sub>), which is 75 parts per billion (3-year average of the 99<sup>th</sup> percentile daily maximum 1-hour concentration) (75 FR 35520, June 22, 2010). If the Administrator intends to modify any state's recommendation, the EPA will notify us no later than 120 days prior to designations in June 2012. If we believe the Administrator's modification is inappropriate, we will have an opportunity to demonstrate why we believe that our recommendation is more appropriate before designations are finalized.

The values of the 99<sup>th</sup> percentiles of the SO<sub>2</sub> monitors in Kentucky are listed in the table of Attachment 1. As can be seen, the average of the 99<sup>th</sup> percentile at all monitors is below the standard of 75 parts per billion in all locations except Jefferson County. Therefore Kentucky recommends that Jefferson County be designated nonattainment for the SO<sub>2</sub> standard. The rest of the areas in Kentucky comply with the standard and should be designated as attainment/unclassifiable for the SO<sub>2</sub> standard, as specified in the table listed in Attachment 2.

Ms. Gwendolyn Keyes Fleming

Page 2

June 2, 2011

Attachment 1: 99<sup>th</sup> percentiles of the SO<sub>2</sub> monitors

Your prompt attention to this letter is appreciated. If you have any questions or comments concerning this matter, please contact Andrea Smith at the Division for Air Quality at (502) 564-3999.

Sincerely yours,

Leonard K. Peters  
Secretary

Enclosures

cc: Beverly Banister  
Dick Schutt

Year	Station ID	Location	99th Percentile
2008	21-019-0017	Ashland	5
2009	21-019-0017	Ashland	5
2010	21-019-0017	Ashland	5
	3-year average		5
2008	21-037-0007	Highland Heights	8
2009	21-037-0007	Highland Heights	8
2010	21-037-0007	Highland Heights	8
	3-year average		8
2008	21-057-0011	Lexington	25
2009	21-057-0011	Lexington	25
2010	21-057-0011	Lexington	25
	3-year average		25
2008	21-089-0007	Worthington	25
2009	21-089-0007	Worthington	25
2010	21-089-0007	Worthington	25
	3-year average		25
2008	21-101-0014	Bessemer	25
2009	21-101-0014	Bessemer	25
2010	21-101-0014	Bessemer	25
	3-year average		25
2008	21-111-0051	Louisville	113
2009	21-111-0051	Louisville	113
2010	21-111-0051	Louisville	113
	3-year average		113
2008	21-111-1041	Louisville	101
2009	21-111-1041	Louisville	101
2010	21-111-1041	Louisville	101
	3-year average		101
2008	21-113-0001	Nicholasville	5
2009	21-113-0001	Nicholasville	5
2010	21-113-0001	Nicholasville	5
	3-year average		5
2008	21-139-0003	Smithland	15
2009	21-139-0003	Smithland	15
2010	21-139-0003	Smithland	15
	3-year average		15
2008	21-145-1024	Paducah	25
2009	21-145-1024	Paducah	25
2010	21-145-1024	Paducah	25
	3-year average		25

### Attachment 1: 99<sup>th</sup> percentiles of the SO<sub>2</sub> monitors

Year	Site ID	City	County	99th Percentile
2008	21-019-0017	Ashland	Boyd	45
2009	21-019-0017	Ashland	Boyd	28
2010	21-019-0017	Ashland	Boyd	34
	<b>3-year average</b>			<b>35.7</b>
2008	21-037-3002	Highland Heights	Campbell	52
2009	21-037-3002	Highland Heights	Campbell	60
2010	21-037-3002	Highland Heights	Campbell	99
	<b>3-year average</b>			<b>70.3</b>
2008	21-059-0005	Owensboro	Daviess	61
2009	21-059-0005	Owensboro	Daviess	43
2010	21-059-0005	Owensboro	Daviess	68
	<b>3-year average</b>			<b>57.3</b>
2008	21-067-0012	Lexington	Fayette	35
2009	21-067-0012	Lexington	Fayette	42
2010	21-067-0012	Lexington	Fayette	40
	<b>3-year average</b>			<b>39.0</b>
2008	21-089-0007	Worthington	Greenup	35
2009	21-089-0007	Worthington	Greenup	28
2010	21-089-0007	Worthington	Greenup	41
	<b>3-year average</b>			<b>34.7</b>
2008	21-101-0014	Baskett	Henderson	72
2009	21-101-0014	Baskett	Henderson	26
2010	21-101-0014	Baskett	Henderson	22
	<b>3-year average</b>			<b>40.0</b>
2008	21-111-0051	Louisville	Jefferson	113
2009	21-111-0051	Louisville	Jefferson	116
2010	21-111-0051	Louisville	Jefferson	107
	<b>3-year average</b>			<b>112.0</b>
2008	21-111-1041	Louisville	Jefferson	122
2009	21-111-1041	Louisville	Jefferson	96
2010	21-111-1041	Louisville	Jefferson	100
	<b>3-year average</b>			<b>106.0</b>
2008	21-113-0001	Nicholasville	Jessamine	55
2009	21-113-0001	Nicholasville	Jessamine	47
2010	21-113-0001	Nicholasville	Jessamine	48
	<b>3-year average</b>			<b>50.0</b>
2008	21-139-0003	Smithland	Livingston	19
2009	21-139-0003	Smithland	Livingston	16
2010	21-139-0003	Smithland	Livingston	15
	<b>3-year average</b>			<b>16.7</b>
2008	21-145-1024	Paducah	McCracken	26
2009	21-145-1024	Paducah	McCracken	25
2010	21-145-1024	Paducah	McCracken	25
	<b>3-year average</b>			<b>25.3</b>

## Attachment 2: SO<sub>2</sub> recommendations

County	Designation	County	Designation	County	Designation
Adair	Attainment/Unclassifiable	Carroll	Attainment/Unclassifiable	Grant	Attainment/Unclassifiable
Allen	Attainment/Unclassifiable	Carter	Attainment/Unclassifiable	Graves	Attainment/Unclassifiable
Anderson	Attainment/Unclassifiable	Casey	Attainment/Unclassifiable	Grayson	Attainment/Unclassifiable
Ballard	Attainment/Unclassifiable	Christian	Attainment/Unclassifiable	Green	Attainment/Unclassifiable
Barren	Attainment/Unclassifiable	Clark	Attainment/Unclassifiable	Greenup	Attainment/Unclassifiable
Bath	Attainment/Unclassifiable	Clay	Attainment/Unclassifiable	Hancock	Attainment/Unclassifiable
Bell	Attainment/Unclassifiable	Clinton	Attainment/Unclassifiable	Hardin	Attainment/Unclassifiable
Boone	Attainment/Unclassifiable	Crittenden	Attainment/Unclassifiable	Harlan	Attainment/Unclassifiable
Bourbon	Attainment/Unclassifiable	Cumberland	Attainment/Unclassifiable	Harrison	Attainment/Unclassifiable
Boyd	Attainment/Unclassifiable	Daviess	Attainment/Unclassifiable	Hart	Attainment/Unclassifiable
Boyle	Attainment/Unclassifiable	Edmonson	Attainment/Unclassifiable	Henderson	Attainment/Unclassifiable
Bracken	Attainment/Unclassifiable	Elliott	Attainment/Unclassifiable	Henry	Attainment/Unclassifiable
Breathitt	Attainment/Unclassifiable	Estill	Attainment/Unclassifiable	Hickman	Attainment/Unclassifiable
Breckinridge	Attainment/Unclassifiable	Fayette	Attainment/Unclassifiable	Hopkins	Attainment/Unclassifiable
Bullitt	Attainment/Unclassifiable	Fleming	Attainment/Unclassifiable	Jackson	Attainment/Unclassifiable
Butler	Attainment/Unclassifiable	Floyd	Attainment/Unclassifiable	Jefferson	Nonattainment
Caldwell	Attainment/Unclassifiable	Franklin	Attainment/Unclassifiable	Jessamine	Attainment/Unclassifiable
Calloway	Attainment/Unclassifiable	Fulton	Attainment/Unclassifiable	Johnson	Attainment/Unclassifiable
Campbell	Attainment/Unclassifiable	Gallatin	Attainment/Unclassifiable	Kenton	Attainment/Unclassifiable
Carlisle	Attainment/Unclassifiable	Garrard	Attainment/Unclassifiable	Knott	Attainment/Unclassifiable

County	Designation	County	Designation	County	Designation
Knox	Attainment/Unclassifiable	Mason	Attainment/Unclassifiable	Robertson	Attainment/Unclassifiable
Larue	Attainment/Unclassifiable	Meade	Attainment/Unclassifiable	Rockcastle	Attainment/Unclassifiable
Laurel	Attainment/Unclassifiable	Menifee	Attainment/Unclassifiable	Rowan	Attainment/Unclassifiable
Lawrence	Attainment/Unclassifiable	Mercer	Attainment/Unclassifiable	Russell	Attainment/Unclassifiable
Lee	Attainment/Unclassifiable	Metcalfe	Attainment/Unclassifiable	Scott	Attainment/Unclassifiable
Leslie	Attainment/Unclassifiable	Monroe	Attainment/Unclassifiable	Shelby	Attainment/Unclassifiable
Letcher	Attainment/Unclassifiable	Montgomery	Attainment/Unclassifiable	Simpson	Attainment/Unclassifiable
Lewis	Attainment/Unclassifiable	Morgan	Attainment/Unclassifiable	Spencer	Attainment/Unclassifiable
Lincoln	Attainment/Unclassifiable	Muhlenberg	Attainment/Unclassifiable	Taylor	Attainment/Unclassifiable
Livingston	Attainment/Unclassifiable	Nelson	Attainment/Unclassifiable	Todd	Attainment/Unclassifiable
Logan	Attainment/Unclassifiable	Nicholas	Attainment/Unclassifiable	Trigg	Attainment/Unclassifiable
Lyon	Attainment/Unclassifiable	Ohio	Attainment/Unclassifiable	Trimble	Attainment/Unclassifiable
McCracken	Attainment/Unclassifiable	Oldham	Attainment/Unclassifiable	Union	Attainment/Unclassifiable
McCreary	Attainment/Unclassifiable	Owen	Attainment/Unclassifiable	Warren	Attainment/Unclassifiable
McLean	Attainment/Unclassifiable	Owsley	Attainment/Unclassifiable	Washington	Attainment/Unclassifiable
Madison	Attainment/Unclassifiable	Pendleton	Attainment/Unclassifiable	Wayne	Attainment/Unclassifiable
Magoffin	Attainment/Unclassifiable	Perry	Attainment/Unclassifiable	Webster	Attainment/Unclassifiable
Marion	Attainment/Unclassifiable	Pike	Attainment/Unclassifiable	Whitley	Attainment/Unclassifiable
Marshall	Attainment/Unclassifiable	Powell	Attainment/Unclassifiable	Wolfe	Attainment/Unclassifiable
Martin	Attainment/Unclassifiable	Pulaski	Attainment/Unclassifiable	Woodford	Attainment/Unclassifiable