



**ENERGY AND ENVIRONMENT CABINET
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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 SO₂ 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 (SO₂), which is 75 parts per billion (3-year average of the 99th 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 99th percentiles of the SO₂ monitors in Kentucky are listed in the table of Attachment 1. As can be seen, the average of the 99th 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 SO₂ standard. The rest of the areas in Kentucky comply with the standard and should be designated as attainment/unclassifiable for the SO₂ standard, as specified in the table listed in Attachment 2.

Ms. Gwendolyn Keyes Fleming

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Attachment 1: 99th percentiles of the SO₂ 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 | 21-089-0003 | Worthington | 28 |
| 2009 | 21-089-0003 | Worthington | 28 |
| 2010 | 21-089-0003 | Worthington | 28 |
| | 3-year average | | 28 |
| 2008 | 21-101-0014 | Bessemer | 35 |
| 2009 | 21-101-0014 | Bessemer | 35 |
| 2010 | 21-101-0014 | Bessemer | 35 |
| | 3-year average | | 35 |
| 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 | 4 |
| 2009 | 21-113-0001 | Nicholasville | 4 |
| 2010 | 21-113-0001 | Nicholasville | 4 |
| | 3-year average | | 4 |
| 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: 99th percentiles of the SO₂ 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 |
| | 3-year average | | | 35.7 |
| 2008 | 21-037-3002 | Highland Heights | Campbell | 52 |
| 2009 | 21-037-3002 | Highland Heights | Campbell | 60 |
| 2010 | 21-037-3002 | Highland Heights | Campbell | 99 |
| | 3-year average | | | 70.3 |
| 2008 | 21-059-0005 | Owensboro | Daviess | 61 |
| 2009 | 21-059-0005 | Owensboro | Daviess | 43 |
| 2010 | 21-059-0005 | Owensboro | Daviess | 68 |
| | 3-year average | | | 57.3 |
| 2008 | 21-067-0012 | Lexington | Fayette | 35 |
| 2009 | 21-067-0012 | Lexington | Fayette | 42 |
| 2010 | 21-067-0012 | Lexington | Fayette | 40 |
| | 3-year average | | | 39.0 |
| 2008 | 21-089-0007 | Worthington | Greenup | 35 |
| 2009 | 21-089-0007 | Worthington | Greenup | 28 |
| 2010 | 21-089-0007 | Worthington | Greenup | 41 |
| | 3-year average | | | 34.7 |
| 2008 | 21-101-0014 | Baskett | Henderson | 72 |
| 2009 | 21-101-0014 | Baskett | Henderson | 26 |
| 2010 | 21-101-0014 | Baskett | Henderson | 22 |
| | 3-year average | | | 40.0 |
| 2008 | 21-111-0051 | Louisville | Jefferson | 113 |
| 2009 | 21-111-0051 | Louisville | Jefferson | 116 |
| 2010 | 21-111-0051 | Louisville | Jefferson | 107 |
| | 3-year average | | | 112.0 |
| 2008 | 21-111-1041 | Louisville | Jefferson | 122 |
| 2009 | 21-111-1041 | Louisville | Jefferson | 96 |
| 2010 | 21-111-1041 | Louisville | Jefferson | 100 |
| | 3-year average | | | 106.0 |
| 2008 | 21-113-0001 | Nicholasville | Jessamine | 55 |
| 2009 | 21-113-0001 | Nicholasville | Jessamine | 47 |
| 2010 | 21-113-0001 | Nicholasville | Jessamine | 48 |
| | 3-year average | | | 50.0 |
| 2008 | 21-139-0003 | Smithland | Livingston | 19 |
| 2009 | 21-139-0003 | Smithland | Livingston | 16 |
| 2010 | 21-139-0003 | Smithland | Livingston | 15 |
| | 3-year average | | | 16.7 |
| 2008 | 21-145-1024 | Paducah | McCracken | 26 |
| 2009 | 21-145-1024 | Paducah | McCracken | 25 |
| 2010 | 21-145-1024 | Paducah | McCracken | 25 |
| | 3-year average | | | 25.3 |

Attachment 2: SO₂ 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 |