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July 3, 2025

Mr. Kevin J. McOmer,  
Regional Administrator  
U.S. EPA, Region 4  
Sam Nunn Atlanta Federal Center  
61 Forsyth Street, SW  
Atlanta, Georgia 30303-8960

**RE:** Submittal of the Kentucky State Implementation Plan Revision, Satisfying the 2008 8-Hour Ozone National Ambient Air Quality Standards (NAAQS) Second 10-year Maintenance Plan Requirements for the Cincinnati-Hamilton, OH-KY-IN Maintenance Area

Dear Mr. McOmer:

The Kentucky Energy and Environment Cabinet (Cabinet) submits this letter concurrent with a revision to the Kentucky State Implementation Plan (SIP) regarding the 2008 8-hour ozone NAAQS second 10-year maintenance plan for the Kentucky portion of the Cincinnati-Hamilton, OH-KY-IN maintenance area (hereinafter “the Area”). Specifically, the Cabinet has provided a submittal that contains a second maintenance plan for the Area demonstrating continued attainment for an additional 10 years after the initial 10-year maintenance period as outlined in Clean Air Act (CAA) Section 175A(b).

On July 20, 2012, EPA designated portions of Boone, Campbell, and Kenton County, Kentucky as nonattainment for the 2008 8-Hour Ozone NAAQS. On August 26, 2016, the Cabinet submitted a redesignation request and initial 10-year maintenance plan to EPA. On July 5, 2017, EPA approved the Cabinet’s redesignation request and initial 10-year maintenance plan for the Area. The Cabinet requests EPA approve this subsequent SIP revision for the Area due to improvements in air quality that indicate continued maintenance of the 2008 8-hour ozone NAAQS will occur for the duration of the second maintenance period (i.e. 2037).

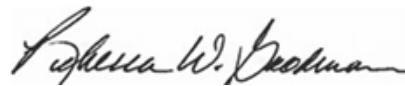
Mr. Kevin J. McOmbler

Page 2

July 3, 2025

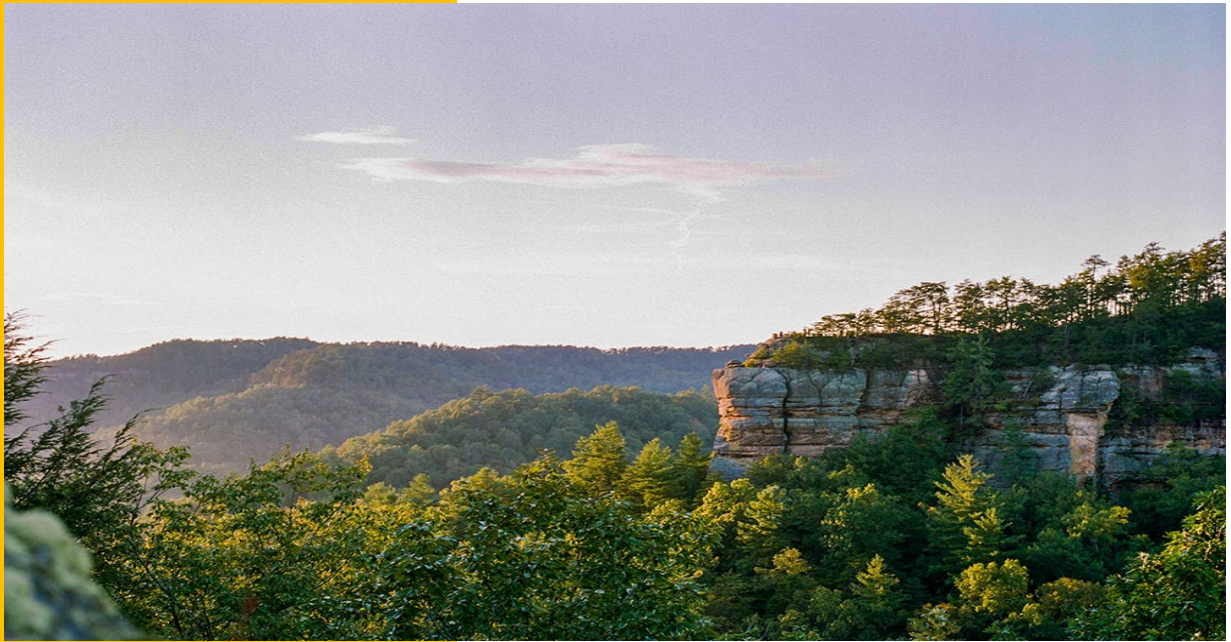
In accordance with 40 CFR 51.102, the proposed SIP revision was available for public review and comment from April 15, 2025, until May 22, 2025. There were no requests for a public hearing, so the scheduled public hearing was canceled. If you have any questions regarding this matter, please contact Mr. Michael Kennedy, Division for Air Quality Director, at (502) 782-6997, or [michael.kennedy@ky.gov](mailto:michael.kennedy@ky.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Rebecca W. Goodman". The signature is fluid and cursive.

Rebecca W. Goodman  
Cabinet Secretary

cc: Denisse Diaz, U.S. EPA Region 4  
Lynorae Benjamin, U.S. EPA Region 4



## **Kentucky State Implementation Plan Revision**

**2008 8-Hour Ozone National Ambient Air  
Quality Standards Second 10-Year Maintenance  
Plan for the Kentucky Counties within the  
Cincinnati-Hamilton, OH-KY-IN Maintenance  
Area**

Prepared for: U.S. Environmental Protection Agency

Prepared by: Kentucky Energy and Environment Cabinet,  
Division for Air Quality

July 2025, Final Submittal

## Publication Information:

This document is available on the Division for Air Quality's website at:

[State Implementation Plan Revisions - Kentucky Energy and Environment Cabinet](https://eec.ky.gov/Environmental-Protection/Air/Pages/State%20Implementation%20Plan%20Revisions.aspx)<sup>1</sup>

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<sup>1</sup> <https://eec.ky.gov/Environmental-Protection/Air/Pages/State%20Implementation%20Plan%20Revisions.aspx>.



## Table of Contents

I.	Background & Introduction .....	1
a.	History.....	1
	Figure 1 – Map of the Cincinnati-Hamilton, OH-KY-IN 2008 Ozone Maintenance Area .....	2
b.	Requirements.....	4
II.	Requirements.....	5
a.	Attainment Inventory .....	5
	Table 1 – Boone County, Kentucky Emissions Inventory Totals (tpsd).....	8
	Table 2 – Campbell County, Kentucky Emissions Inventory Totals (tpsd) .....	8
	Table 3 – Kenton County, Kentucky Emissions Inventory Totals (tpsd).....	9
	Table 4 – Butler County, Ohio Emissions Inventory Totals (tpsd).....	9
	Table 5 – Clermont County, Ohio Emissions Inventory Totals (tpsd) .....	10
	Table 6 – Clinton County, Ohio Emissions Inventory Totals (tpsd).....	10
	Table 7 –Hamilton County, Ohio Emissions Inventory Totals (tpsd) .....	11
	Table 8 – Warren County, Ohio Emissions Inventory Totals (tpsd) .....	11
	Table 9 – Dearborn County, Indiana Emissions Inventory Totals (tpsd).....	12
	Table 10 – Cincinnati-Hamilton, OH-KY-IN Maintenance Area NO <sub>x</sub> and VOC Emissions Inventory Totals (tpsd) .....	12
	Table 11 - Cincinnati-Hamilton, OH-KY-IN Maintenance Area NO <sub>x</sub> and VOC Base Year and Maintenance Year Emissions Estimates (tpsd) .....	13
b.	Maintenance Demonstration.....	14
	Table 12 – 8-hour Ozone Annual 4th High Maximum Values and Design Value for the Cincinnati-Hamilton, OH-KY-IN Maintenance Area, 2021-2023 (ppm).....	15
	Figure 2 – 8-hour Ozone Design Values for the Kentucky Portion of the Cincinnati-Hamilton, OH-KY-IN Maintenance Area .....	16
	Figure 3 – 8-hour Ozone Design Values for the Ohio Portion of the Cincinnati Hamilton, OH-KY-IN Maintenance Area.....	17
	Table 13 – 8-hour Ozone 3-Year Design Values from 2008-2014 for the Cincinnati-Hamilton, OH-KY-IN Maintenance Area (ppm) .....	18
	Table 14 – 8-hour Ozone 3-Year Design Values from 2015-2023 for the Cincinnati-Hamilton, OH-KY-IN Maintenance Area (ppm) .....	19
c.	Monitoring Network .....	20
d.	Verification of Continued Attainment .....	20

e.	Contingency Plan .....	21
III.	Permanent and Enforceable Improvement in Air Quality (CAA Section 107(d)(3)(E)(iii)).....	23
IV.	Transportation Conformity .....	23
	Table 15 – Cincinnati-Hamilton, OH-KY-IN Maintenance Area Estimated NO <sub>x</sub> and VOC Emissions (tpsd) for On-Road Mobile Sources .....	25
	Table 16 – Estimated NO <sub>x</sub> and VOC Motor Vehicle Emissions Budgets (tpsd) for the Kentucky portion of the Cincinnati-Hamilton, OH-KY-IN Maintenance Area .....	26
	Table 17 – Estimated NO <sub>x</sub> Motor Vehicle Emissions Budget (tpsd) for Cincinnati-Hamilton, OH-KY-IN Maintenance Area.....	26
	Table 18 – Estimated VOC Motor Vehicle Emissions Budgets (tpsd) for Cincinnati-Hamilton, OH-KY-IN Maintenance Area .....	27
	Table 19 – Cincinnati-Hamilton, OH-KY-IN Maintenance Area Vehicle Miles Traveled (miles/day) Estimations for On-Road Mobile Sources .....	28
V.	Public Participation .....	29
VI.	Conclusion.....	29

## **Appendices**

Appendix A – Emissions Inventory

Appendix B – Mobile Source Emissions Technical Support Document

Appendix C – Monitoring Data

Appendix D – Interagency Consultation Group Meeting Transcription

Appendix E – Interagency Consultation Group Concurrence for Kentucky’s 2037 Motor Vehicle Emissions Budgets

Appendix F – Public Notice

## I. Background & Introduction

### a. History

On March 27, 2008, the U.S. Environmental Protection Agency (EPA) promulgated revised National Ambient Air Quality Standards (NAAQS) for the 8-hour ozone standards, lowering the previous primary and secondary standards of 0.08 parts per million (ppm) to 0.075 ppm, which went into effect May 27, 2008.<sup>2</sup> Final area designations for the 2008 8-hour ozone standards were published on May 21, 2012, and became effective July 20, 2012.<sup>3</sup> EPA designated the tri-state Cincinnati-Hamilton, OH-KY-IN area (the Area) as marginal nonattainment for the 2008 8-hour ozone NAAQS and established an attainment date of July 20, 2015, for the Area. The Area consists of Butler, Clermont, Clinton, Hamilton, and Warren counties in Ohio; portions of Boone, Campbell, and Kenton counties in Kentucky; and a portion of Dearborn County in Indiana (see Figure 1).<sup>4</sup> When the Area was first designated as nonattainment, there were four monitors located in Ohio violating the 2008 8-hour ozone NAAQS. However, EPA determined that emissions from both Indiana and Kentucky were contributing to the monitored violations, which is why the Indiana and Kentucky portions of the Area were also designated as nonattainment.

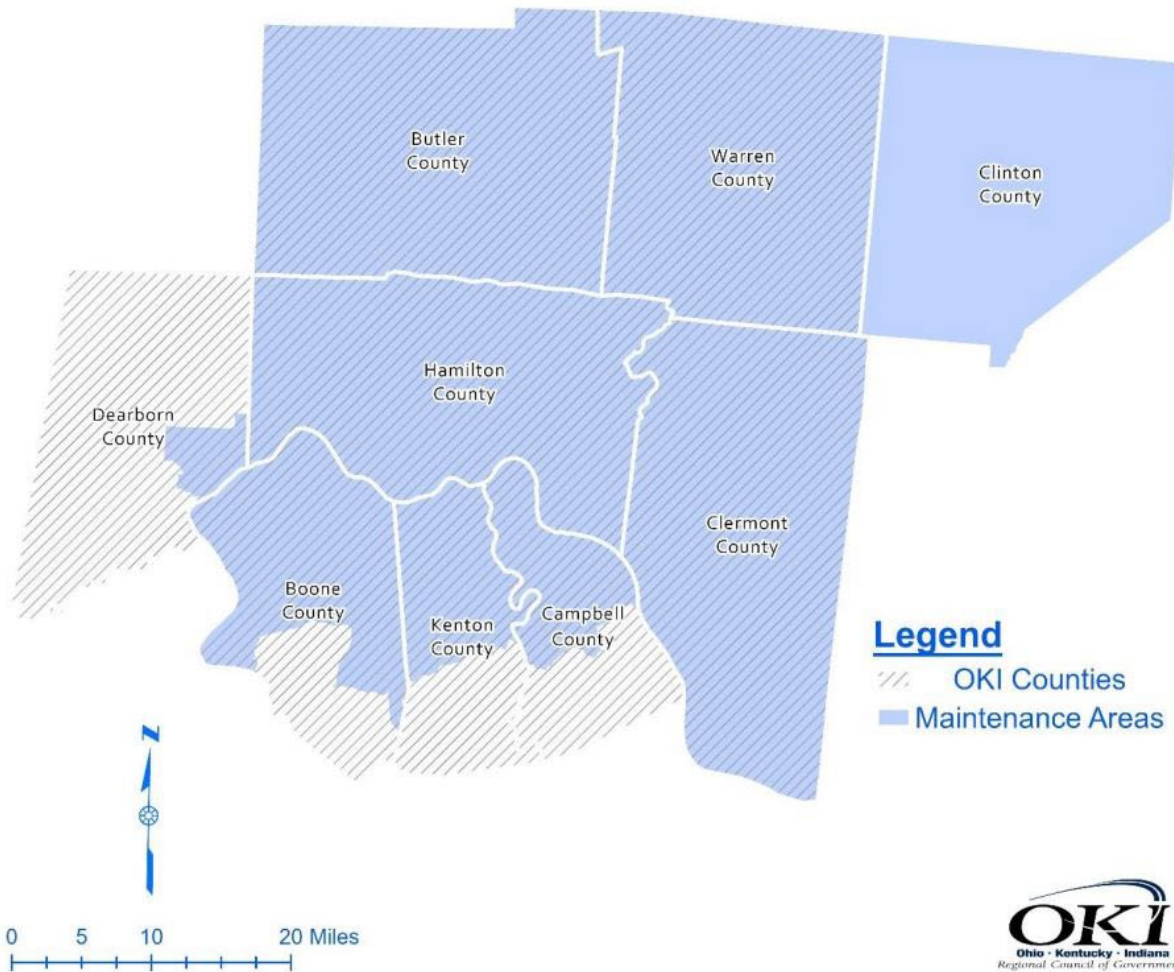
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<sup>2</sup> 73 FR 16436.

<sup>3</sup> 77 FR 30088.

<sup>4</sup> Boone County (part): the entire county except for 2010 US Census Tracts 706.01 and 706.04. Campbell County (part): the entire county except for 2010 US Census Tracts 520.01 and 520.02. Kenton County (part): the entire county except for 2010 US Census Tracts 637.01 and 637.02.

**Figure 1 – Map of the Cincinnati-Hamilton, OH-KY-IN 2008 Ozone Maintenance Area**



On February 23, 2016, the Indiana Department of Environmental Management (IDEM) submitted a redesignation request and maintenance plan for the Indiana portion of the Area for the 2008 8-hour ozone NAAQS; IDEM supplemented that submittal with a revised emissions

inventory on May 4, 2016.<sup>5</sup> On April 21, 2016, the Ohio EPA submitted a redesignation request and maintenance plan for the Ohio portion of the Area for the 2008 8-hour ozone NAAQS.<sup>6</sup>

On August 26, 2016, the Division for Air Quality (Division) submitted a redesignation request and maintenance plan for the Kentucky portion of the Area for the 2008 8-hour ozone NAAQS;<sup>7</sup> this submittal was revised by the Division on December 27, 2016, after EPA identified discrepancies within seven tables of the Division's August 26, 2016, submission.<sup>8</sup> The Division's revisions were sent to EPA in an email and provided clarification related to incorrect emissions totals and rounding errors.<sup>9</sup>

On December 16, 2016, the Ohio portion of the Area was redesignated to attainment for the 2008 8-hour ozone NAAQS.<sup>10</sup> On April 7, 2017, the Indiana portion of the Area was redesignated to attainment for the 2008 8-hour ozone NAAQS.<sup>11</sup> On July 5, 2017, the Kentucky portion of the Area was redesignated to attainment for the 2008 8-hour ozone NAAQS.<sup>12</sup>

On November 7, 2024, Ohio EPA submitted their second 10-year maintenance plan for the Ohio portion of the Area to EPA.<sup>13</sup> EPA published a proposed final approval of this plan on May 19, 2025.<sup>14</sup> On April 1, 2025, IDEM submitted their second 10-year maintenance plan for the Indiana portion of the Area to EPA.<sup>15</sup>

The second 10-year maintenance plan for the Kentucky portion of the Area is due July 5, 2025, eight years after the initial maintenance plan's effective date.

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<sup>5</sup> For Indiana's initial submittal, please see: <https://www.in.gov/idem/sips/redesignation-petitions-and-maintenance-plans/dearborn-county-redesignation-plans/>.

<sup>6</sup> For Ohio's initial submittal, please see:

[https://dam.assets.ohio.gov/image/upload/epa.ohio.gov/Portals/27/sip/Cin\\_2008Ozone\\_Redesig\\_Final.pdf](https://dam.assets.ohio.gov/image/upload/epa.ohio.gov/Portals/27/sip/Cin_2008Ozone_Redesig_Final.pdf).

<sup>7</sup> For the Division's initial submittal, please see: [https://eec.ky.gov/Environmental-Protection/Air/Documents/Final%20Submittal%20NKY%202008%208-hour%20O3%20Redesignation%20Request\\_8-5-2016%20.pdf](https://eec.ky.gov/Environmental-Protection/Air/Documents/Final%20Submittal%20NKY%202008%208-hour%20O3%20Redesignation%20Request_8-5-2016%20.pdf).

<sup>8</sup> Revision to the Division's initial submittal, available at: <https://eec.ky.gov/Environmental-Protection/Air/Documents/Final%202008%20O3%20NKY%20Redesignation%20Request%20Table%20Revisions.pdf>

<sup>9</sup> The emailed revisions did not warrant a formal revision to the August 26, 2016, redesignation request and maintenance plan submittal.

<sup>10</sup> 81 FR 91035.

<sup>11</sup> 82 FR 16940.

<sup>12</sup> 82 FR 30976.

<sup>13</sup> For Ohio's second maintenance plan, please see:

<https://dam.assets.ohio.gov/image/upload/epa.ohio.gov/Portals/27/sip/ozone/Cincinnati-O3-SIP-Main-Document.pdf>.

<sup>14</sup> 90 FR 21254.

<sup>15</sup> For Indiana's second maintenance plan, please see: <https://www.in.gov/idem/sips/redesignation-petitions-and-maintenance-plans/dearborn-county-redesignation-plans/>.

The following second 10-year maintenance plan for the Kentucky portion of the Area projects that the entirety of the Area will continue to attain the 2008 ozone NAAQS for the duration of the second maintenance period.

*b. Requirements*

Maintenance Plan Requirements contained in Clean Air Act (CAA) Section 175A include:

- (a) Plan revision
- (b) Subsequent plan revisions
- (c) Nonattainment requirements applicable pending plan approval
- (d) Contingency provisions<sup>16</sup>

Pursuant to Section 175A(b) of the CAA, eight years after an area is redesignated attainment, the state must submit a second maintenance plan demonstrating continued attainment for a further ten years after the initial 10-year maintenance period covered by an initial maintenance plan.<sup>17</sup> When EPA set implementation requirements for the 2008 ozone NAAQS on April 5, 2015, it also revoked the 1997 ozone NAAQS, including requirements for subsequent maintenance plans. However, the D.C. Circuit Court issued a decision in *South Coast Air Quality Management District v. EPA (South Coast II)* that struck down EPA's revocation of the standard in certain regards, including reinstating the requirement for subsequent maintenance plans.<sup>18</sup>

On September 4, 1992, a memo from EPA Director of the Air Quality Management Division, John Calcagni,<sup>19</sup> "*the Calcagni Memo*", further elaborated on the requirements of CAA Section 175A, specifying five requirements:

- a. Attainment Inventory
- b. Maintenance Demonstration
- c. Monitoring Network
- d. Verification of Continued Attainment
- e. Contingency Plan<sup>20</sup>

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<sup>16</sup> 42 USC §7505A.

<sup>17</sup> *Ibid.*

<sup>18</sup> 882 F.3d 1138 (2018).

<sup>19</sup> John Calcagni, Director, Air Quality Management Division, "*Procedures for Processing Requests to Redesignate Areas to Attainment*," (Sep. 4, 1992).

<sup>20</sup> *Ibid.* at 7-13.

On November 20, 2018, EPA provided states with the *Resource Document for 1997 Ozone NAAQS Areas: Supporting Information for States Developing Maintenance Plans* (the Resource Document), which contains technical information to consider when developing second 10-year maintenance plans for the 1997 ozone NAAQS.<sup>21</sup> The EPA has not yet issued similar maintenance plan guidance for the 2008 ozone NAAQS. Therefore, the Division used the Resource Document to prepare this second 10-year maintenance plan.

Notably, the initial maintenance period for the Area is active through 2027 (ten years after the effective date of approval of the initial maintenance plan).<sup>22</sup> This second 10-year maintenance plan demonstrates continued maintenance through 2037.

## II. Requirements

Each requirement of a maintenance plan is addressed in the order laid out in the *Calcagni Memo* below.

### a. Attainment Inventory

Air quality designations rely on three complete consecutive calendar years of quality assured and certified air monitoring data. To meet the standard, the 3-year average of the annual fourth highest daily maximum 8-hour average ozone concentration must be equal to or below the standard, in the case of 2008 ozone, this is 75 parts per billion (ppb). The 3-year average is called the design value. The standard may be expressed in ppm or ppb and this second maintenance plan describes all monitored values in ppm. For example, 0.075 ppm is equivalent to 75 ppb.

Ozone is a secondary pollutant, or a pollutant that is not directly emitted from a source, but forms in the atmosphere when other primary pollutants react with each other. In EPA's Maintenance Plan Guidance Document for Certain 8-hour Ozone Areas Under Section 110(a)(1) of the Clean Air Act (the Guidance Document), it is recommended to demonstrate maintenance with the standard by identifying the level of ozone precursor emissions in the area which is sufficient to attain the NAAQS.<sup>23</sup> The Guidance Document also states that attainment

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<sup>21</sup> EPA: Resource Document for 1997 Ozone NAAQS Areas: Supporting Information for States Developing Maintenance Plans, November 20, 2018; available at: [https://www.epa.gov/sites/default/files/2018-11/documents/ozone\\_1997\\_naaqs\\_imp\\_resource\\_document\\_nov\\_20\\_2018.pdf](https://www.epa.gov/sites/default/files/2018-11/documents/ozone_1997_naaqs_imp_resource_document_nov_20_2018.pdf).

<sup>22</sup> 82 FR 30976.

<sup>23</sup> EPA's Maintenance Plan Guidance: Document for Certain 8-hour Ozone Areas Under Section 110(a)(1) of Clean Air Act, May 20, 2005, available at:



inventories should be based on actual “typical summer day” emissions of volatile organic compounds (VOCs) and nitrogen oxides (NO<sub>x</sub>), known precursors to ozone formation.

The emissions inventory development and emissions projection discussion below, with the exception of the mobile (on-road) emissions inventory and projections, identifies procedures used by the Division, in consultation with IDEM and Ohio EPA regarding emissions from the Area.<sup>24</sup> For the full emissions inventory, see Appendix A. Mobile source emissions were developed by the Ohio-Kentucky-Indiana Regional Council of Governments (OKI) in conjunction with the Division, Ohio EPA, and IDEM. Specific emissions data was provided to OKI for all counties in the Area, including those in Ohio, Kentucky and Indiana. For further detail on the methodology behind OKI’s developed on-road emissions, see the full technical support document in Appendix B.

Area, non-road, on-road and point source emissions were compiled as follows:

- Area, non-road and point source emissions (EGUs, non-EGUs and airport related emissions (AIR)) were collected at the county level from Emissions Modeling platform (EMP) 2016v2 provided by the EPA’s Emissions Modeling Clearinghouse website.<sup>25</sup> The basis of this platform is a combination of the 2014 National Emissions Inventory (NEI) Version 2, and the 2017 NEI including emissions for modeling years 2016, 2023, 2026 and 2032.
- Because all emissions from the above platform are reported as annual totals, tons per summer day (tpsd) emissions were derived according to the EPA guidance document titled *Temporal Allocation of Annual Emissions Using EMCH Temporal Profiles*, dated April 29, 2002, using the temporal allocation references accompanying the 2016v2 modeling inventory files. These files provide source classification code (SCC) specific profiles that allow annual emission totals to be distributed across various temporal periods, as described in the guidance document referenced here.
- Using the above dataset and conversion, Ohio and Indiana emissions for electric generating units (EGU), non-EGUs, area (comprised of air and rail transportation and non-point sources), and non-road are calculated in the following way.
  - Emissions for base year 2016 came directly from the EMP 2016v2 platform.

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[https://www3.epa.gov/ttn/naaqs/aqmguide/collection/cp2/20050520\\_wegman\\_maintenance\\_8-hr\\_ozone\\_section\\_110\(a\)\(1\).pdf](https://www3.epa.gov/ttn/naaqs/aqmguide/collection/cp2/20050520_wegman_maintenance_8-hr_ozone_section_110(a)(1).pdf).

<sup>24</sup> There are slight differences in data totals from the OH and IN submittals vs. this submittal from the Division due to the accidental inclusion of emissions data from Boone County, IN and the duplication of rail emissions. This inventory reflects adjustments made to rectify these issues.

<sup>25</sup> EPA’s Emissions Modeling Platform 2016v2, available at: <https://gaftp.epa.gov/Air/emismod/2016/v2/>.

- Emissions for maintenance year 2037 were derived using the TREND function in Microsoft Excel to perform a linear extrapolation. If the TREND function resulted in a negative value, the emissions were assumed to not change from 2032 modeling year included in the 2016v2 platform.
- Kentucky emissions were also calculated in the above-described way, except for 2016 emissions from EGU and non-EGU categories. Kentucky EGU and non-EGU values represent actual tons per year (tpy) emissions data from sources for the 2016 base year from the Kentucky Emissions Inventory System (KyEIS) database. Data in tpy were converted to tpsd by multiplying tpy by the ratio of average July day emissions to annual emissions for the point sector from the 2016v2 platform.
- Kentucky area and nonroad emissions for the base year and maintenance year were calculated as described above, for all categories and years, but multiplied by a factor representing the partial maintenance area portions of the Kentucky counties.<sup>26</sup> The partial maintenance percentages were 57% for Boone County, 56% for Campbell, and 54% for Kenton.<sup>27</sup>
- Ohio, Indiana, and Kentucky on-road mobile source emissions for all years were developed in conjunction with OKI and were calculated from emission factors produced by EPA's 2023 Motor Vehicle Emission Simulator (MOVES4) software program and data extracted from the region's travel-demand model.<sup>28</sup> Appendix B contains detailed data for mobile source emissions for all years.
- Dearborn County, Indiana emissions for all sectors other than on-road were based upon the entire county data; Dearborn County, Indiana on-road emissions are comprised of emissions from only the partial maintenance area in Dearborn County.
- Biogenic emissions were not included in these summaries.

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<sup>26</sup> Partial percentages were also applied to on-road emissions outputs from MOVES.

<sup>27</sup> Percentages reflect partial county land area covered by the maintenance area. Percentages were originally calculated in the initial redesignation request and maintenance plan submittal, *supra note 7*.

<sup>28</sup> According to EPA's *MOVES5 Policy Guidance: Use of MOVES for State Implementation Plan Development, Transportation Conformity, General Conformity, and Other Purposes*, it is permissible to use older versions of MOVES when significant work has been completed prior to the release of a new version; please see: <https://nepis.epa.gov/Exe/ZyPDF.cgi?Dockey=P101CTLB.pdf>.

The emissions inventory, as detailed above, is presented in Tables 1-11.

**Table 1 – Boone County, Kentucky Emissions Inventory Totals (tpsd)**

<b>Sector</b>	<b>2016 Base Year NO<sub>x</sub> Emissions</b>	<b>2037 Maintenance Year NO<sub>x</sub> Emissions</b>	<b>2016 Base Year VOC Emissions</b>	<b>2037 Maintenance Year VOC Emissions</b>
EGU	10.51	0.05	0.16	0.03
Non-EGU	0.36	0.29	2.07	0.87
Area	0.56	0.32	3.86	4.88
Non-Road	0.50	0.31	0.97	0.73
On-Road	6.07	0.97	1.47	0.81
<b>Total</b>	<b>18.00</b>	<b>1.94</b>	<b>8.53</b>	<b>7.32</b>

**Table 2 – Campbell County, Kentucky Emissions Inventory Totals (tpsd)**

<b>Sector</b>	<b>2016 Base Year NO<sub>x</sub> Emissions</b>	<b>2037 Maintenance Year NO<sub>x</sub> Emissions</b>	<b>2016 Base Year VOC Emissions</b>	<b>2037 Maintenance Year VOC Emissions</b>
EGU	0.00	0.00	0.00	0.00
Non-EGU	0.30	0.16	0.30	0.23
Area	0.63	0.41	1.36	1.35
Non-Road	0.26	0.15	0.35	0.21
On-Road	2.05	0.26	0.75	0.35
<b>Total</b>	<b>3.24</b>	<b>0.89</b>	<b>2.76</b>	<b>2.14</b>

**Table 3 – Kenton County, Kentucky Emissions Inventory Totals (tpsd)**

<b>Sector</b>	<b>2016 Base Year NO<sub>x</sub> Emissions</b>	<b>2037 Maintenance Year NO<sub>x</sub> Emissions</b>	<b>2016 Base Year VOC Emissions</b>	<b>2037 Maintenance Year VOC Emissions</b>
EGU	0.00	0.00	0.00	0.00
Non-EGU	0.26	0.16	0.47	0.35
Area	0.96	0.56	2.32	2.45
Non-Road	0.37	0.20	0.43	0.41
On-Road	5.15	0.76	1.52	0.74
<b>Total</b>	<b>6.74</b>	<b>1.68</b>	<b>4.74</b>	<b>3.95</b>

**Table 4 – Butler County, Ohio Emissions Inventory Totals (tpsd)**

<b>Sector</b>	<b>2016 Base Year NO<sub>x</sub> Emissions</b>	<b>2037 Maintenance Year NO<sub>x</sub> Emissions</b>	<b>2016 Base Year VOC Emissions</b>	<b>2037 Maintenance Year VOC Emissions</b>
EGU	1.16	0.67	0.08	0.06
Non-EGU	8.20	8.39	1.64	1.71
Area	2.33	1.79	12.18	12.68
Non-Road	2.31	1.17	2.69	2.15
On-Road	9.84	1.47	5.23	1.96
<b>Total</b>	<b>23.84</b>	<b>13.49</b>	<b>21.82</b>	<b>18.56</b>

**Table 5 – Clermont County, Ohio Emissions Inventory Totals (tpsd)**

<b>Sector</b>	<b>2016 Base Year NO<sub>x</sub> Emissions</b>	<b>2037 Maintenance Year NO<sub>x</sub> Emissions</b>	<b>2016 Base Year VOC Emissions</b>	<b>2037 Maintenance Year VOC Emissions</b>
EGU	18.80	5.81	0.17	0.13
Non-EGU	0.03	0.04	0.06	0.06
Area	1.16	0.77	6.64	8.07
Non-Road	1.62	0.84	2.44	1.47
On-Road	6.02	0.89	3.12	1.28
<b>Total</b>	<b>27.63</b>	<b>8.35</b>	<b>12.43</b>	<b>11.01</b>

**Table 6 – Clinton County, Ohio Emissions Inventory Totals (tpsd)**

<b>Sector</b>	<b>2016 Base Year NO<sub>x</sub> Emissions</b>	<b>2037 Maintenance Year NO<sub>x</sub> Emissions</b>	<b>2016 Base Year VOC Emissions</b>	<b>2037 Maintenance Year VOC Emissions</b>
EGU	0.00	0.00	0.00	0.00
Non-EGU	0.00	0.00	0.01	0.01
Area	0.29	0.26	2.10	2.21
Non-Road	0.95	0.25	0.78	0.39
On-Road	0.26	0.12	0.30	0.22
<b>Total</b>	<b>1.50</b>	<b>0.63</b>	<b>3.19</b>	<b>2.83</b>

**Table 7 –Hamilton County, Ohio Emissions Inventory Totals (tpsd)**

<b>Sector</b>	<b>2016 Base Year NO<sub>x</sub> Emissions</b>	<b>2037 Maintenance Year NO<sub>x</sub> Emissions</b>	<b>2016 Base Year VOC Emissions</b>	<b>2037 Maintenance Year VOC Emissions</b>
EGU	14.24	1.74	0.24	0.17
Non-EGU	3.13	3.54	1.36	1.31
Area	4.65	3.83	27.52	25.07
Non-Road	6.89	3.31	6.52	5.38
On-Road	25.62	3.85	11.36	4.42
<b>Total</b>	<b>54.53</b>	<b>16.27</b>	<b>47.00</b>	<b>36.35</b>

**Table 8 – Warren County, Ohio Emissions Inventory Totals (tpsd)**

<b>Sector</b>	<b>2016 Base Year NO<sub>x</sub> Emissions</b>	<b>2037 Maintenance Year NO<sub>x</sub> Emissions</b>	<b>2016 Base Year VOC Emissions</b>	<b>2037 Maintenance Year VOC Emissions</b>
EGU	0.00	0.00	0.00	0.00
Non-EGU	0.18	0.18	0.61	0.58
Area	1.06	0.93	8.45	11.61
Non-Road	2.32	1.09	2.84	1.58
On-Road	9.32	1.68	3.35	1.62
<b>Total</b>	<b>12.88</b>	<b>3.88</b>	<b>15.25</b>	<b>15.39</b>

**Table 9 – Dearborn County, Indiana Emissions Inventory Totals (tpsd)**

<b>Sector</b>	<b>2016 Base Year NO<sub>x</sub> Emissions</b>	<b>2037 Maintenance Year NO<sub>x</sub> Emissions</b>	<b>2016 Base Year VOC Emissions</b>	<b>2037 Maintenance Year VOC Emissions</b>
EGU	0.90	0.39	0.01	0.03
Non-EGU	0.85	1.12	6.20	6.21
Area	0.26	0.19	1.37	1.58
Non-Road	0.38	0.17	0.37	0.27
On-Road	0.57	0.09	0.20	0.07
<b>Total</b>	<b>2.96</b>	<b>1.96</b>	<b>8.15</b>	<b>8.16</b>

**Table 10 – Cincinnati-Hamilton, OH-KY-IN Maintenance Area NO<sub>x</sub> and VOC Emissions Inventory Totals (tpsd)**

<b>County</b>	<b>2016 Base Year NO<sub>x</sub> Emissions</b>	<b>2037 Maintenance Year NO<sub>x</sub> Emissions</b>	<b>2016 Base Year VOC Emissions</b>	<b>2037 Maintenance Year VOC Emissions</b>
Boone County, KY	18.00	1.94	8.53	7.32
Campbell County, KY	3.24	0.89	2.76	2.14
Kenton County, KY	6.74	1.68	4.74	3.95
Butler County, OH	23.84	13.49	21.82	18.56
Clermont County, OH	27.63	8.35	12.43	11.01
Clinton County, OH	1.50	0.63	3.19	2.83
Hamilton County, OH	54.53	16.27	47.00	36.35
Warren County, OH	12.88	3.88	15.25	15.39
Dearborn County, IN	2.96	1.96	8.15	8.16
<b>Totals</b>	<b>151.32</b>	<b>49.09</b>	<b>123.87</b>	<b>105.71</b>



**Table 11 - Cincinnati-Hamilton, OH-KY-IN Maintenance Area NO<sub>x</sub> and VOC  
Base Year and Maintenance Year Emissions Estimates (tpsd)**

Pollutant	2016	2037	Projected Decrease
NO <sub>x</sub>	151.32	49.09	102.23
VOC	123.87	105.71	18.16

Maintenance is demonstrated when the future-year (2037) projected emission totals are below the 2016 attainment base year totals. In general, emissions for all sectors are projected to decline or remain stable.

Emission decreases from EPA rules covering EGUs (NO<sub>x</sub> SIP Call, CAIR and CSAPR (and its updates)), Tier 2 Motor Vehicle Emissions Standards and Gasoline Sulfur Control Requirements,<sup>29</sup> Tier 3 Motor Vehicle Emissions Standards,<sup>30</sup> Highway Heavy-Duty Engine Rule,<sup>31</sup> and the Non-Road Diesel Engine Rule are factored into the changes.<sup>32</sup> Total NO<sub>x</sub> and VOC emissions are projected to decrease, with the largest decreases in the on-road sector due to the increasing prevalence of cleaner electric vehicles from the EPA standards detailed above.

NO<sub>x</sub> emissions for the entire Area from all sectors are projected to decrease by 67.6% (102.23 tpsd) from 2016 to 2037.

Although the overall projected NO<sub>x</sub> emissions within the Area are expected to decrease from 2016 to 2037, some sector emissions are expected to increase. Non-EGU point sources are projected to marginally increase NO<sub>x</sub> emissions in Butler, Clermont, and Hamilton County in Ohio and Dearborn County, Indiana by 2037; the largest increase in non-EGU point source NO<sub>x</sub> emissions is expected in Hamilton County, Ohio with a projected increase of 0.41 tpsd.

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<sup>29</sup> Final Rule for Control of Air Pollution From New Motor Vehicles: Tier 2 Motor Vehicle Emissions Standards and Gasoline Sulfur Control Requirements, February 10, 2000, available at: <https://www.epa.gov/regulations-emissions-vehicles-and-engines/final-rule-control-air-pollution-new-motor-vehicles-tier>.

<sup>30</sup> 79 FR 23414.

<sup>31</sup> Final Rule for Control of Air Pollution from Motor Vehicles: Tier 3 Motor Vehicle Emission and Fuel Standards, April 28, 2014, available at: <https://www.epa.gov/regulations-emissions-vehicles-and-engines/final-rule-control-air-pollution-motor-vehicles-tier-3>.

<sup>32</sup> EPA Emission Standards for Nonroad Engines and Vehicles, available at: <https://www.epa.gov/emission-standards-reference-guide/epa-emission-standards-nonroad-engines-and-vehicles>.

VOC emissions for the entire Area from all sectors are projected to decrease by 14.6% (18.16 tpsd) from 2016 to 2037.

Although the overall projected VOC emissions within the Area are expected to decrease from 2016 to 2037, some sector emissions are expected to increase. VOC emissions from area sector sources are projected to increase in all counties within the Area except for Campbell County, Kentucky and Hamilton County, Ohio. The largest increase in area sector VOC emissions is expected in Warren County, Ohio with a projected increase of 3.16 tpsd. Dearborn County, Indiana VOC emissions from EGUs and non-EGU point sources are projected to increase slightly by 0.02 tpsd and 0.01 tpsd, respectively. Warren County, Ohio will see an increase in total VOC emissions of 0.14 tpsd, driven entirely by increases in area sector VOC emissions.

Given the overall projected decreases for NO<sub>x</sub> and VOC from 2016 to 2037, the Division does not believe these precursors will cause a violation of the 2008 ozone standard in the Area.

*b. Maintenance Demonstration*

According to the *Calcagni Memo*, “[a] A State may generally demonstrate maintenance of the NAAQS by either showing that future emissions of a pollutant or its precursors will not exceed the level of the attainment inventory, or by modeling to show that the future mix of sources and emission rates will not cause a violation of the NAAQS.”<sup>33</sup>

Table 12 shows monitored fourth high maximum values for each individual monitor in the Area over the past three years, as well as their respective 2021-2023 design values.<sup>34</sup> It should be noted that due to siting issues that could not be resolved, the Boone County monitor (21-015-0003) was relocated to a new site (21-015-0008) in 2022, causing a temporary lapse in monitoring data. The original Boone County monitor (21-015-003) has been permanently discontinued.<sup>35</sup> Due to the temporary lapse in monitoring data caused by the relocation, the 2022 monitoring data for Boone County is incomplete and the 2021-2023 design value is invalid. Data between the two monitors has been linked and Boone County data will be referenced by monitor number 21-015-0008. The other monitors in the Area have design values demonstrating that current air quality levels are below the level of the 2008 ozone standard. Monitoring data and design values shown in Table 12, below, can be found in Appendix C.

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<sup>33</sup> *Calcagni Memo*, supra note 18, at 9.

<sup>34</sup> For the majority of time this document was being prepared monitoring data for the year 2024 was not available or certified and thus not relied upon. At the time of final submittal, all monitoring data for the Area remained below the 2008 ozone standard.

<sup>35</sup> Kentucky Annual Ambient Air Monitoring Network Plan, available at: <https://eec.ky.gov/Environmental-Protection/Air/Air-Monitoring/Pages/default.aspx>.

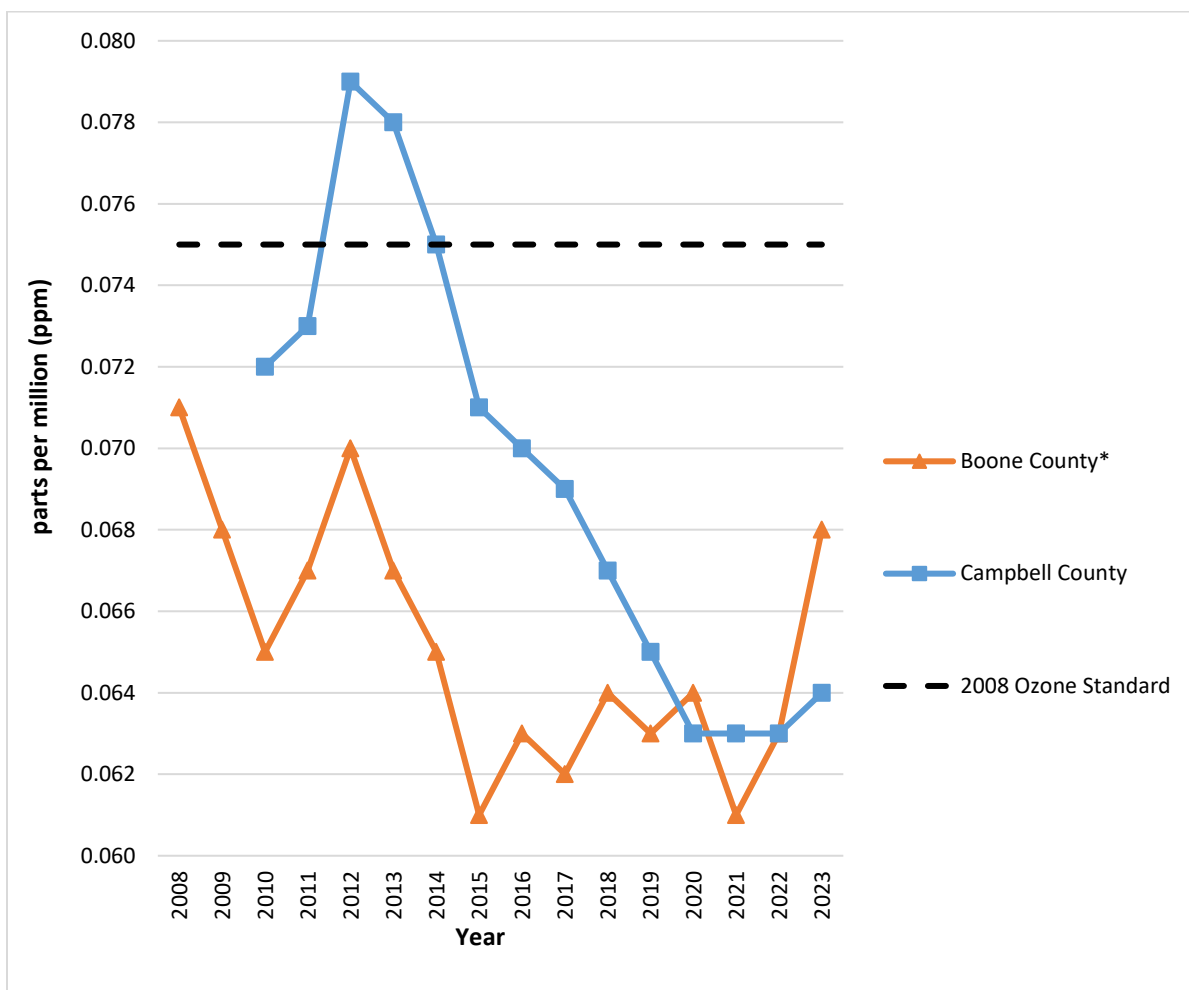
**Table 12 – 8-hour Ozone Annual 4th High Maximum Values and Design Value for the Cincinnati-Hamilton, OH-KY-IN Maintenance Area, 2021-2023 (ppm)**

Site ID	County	2021 4 <sup>th</sup> High Max	2022 4 <sup>th</sup> High Max	2023 4 <sup>th</sup> High Max	2021-2023 Design Value
21-015-0008	Boone, KY	0.061	0.066	0.077	0.068
21-037-3002	Campbell, KY	0.064	0.062	0.066	0.064
39-017-0018	Butler, OH	0.064	0.067	0.071	0.067
39-017-0023	Butler, OH	0.066	0.070	0.068	0.068
39-017-9991	Butler, OH	0.063	0.066	0.069	0.066
39-025-0022	Clermont, OH	0.065	0.063	0.068	0.065
39-027-1002	Clinton, OH	0.062	0.065	0.074	0.067
39-061-0006	Hamilton, OH	0.070	0.069	0.073	0.070
39-061-0010	Hamilton, OH	0.064	0.068	0.073	0.068
39-061-0040	Hamilton, OH	0.069	0.067	0.075	0.070
39-165-0007	Warren, OH	0.069	0.069	0.074	0.070

The 2023 4<sup>th</sup> high maximum value of the Boone County monitor experienced a spike which was influenced by Canadian wildfires that impaired air quality for much of the United States. Prior to the Canadian wildfire-affected data, the Area had a stable air quality trend. Even with Canadian wildfire-affected data, the Kentucky portion of the Area continues to attain the more stringent 2015 ozone standard. Given these circumstances, the Division does not believe the monitored increase at the Boone County monitor significantly impacts maintenance of the 2008 ozone standard in the Kentucky portion of the Area. If the 2023 data impacted by Canadian wildfires becomes regulatorily significant, the Division will prepare an exceptional event demonstration to ensure maintenance of the 2008 ozone standard.

Figure 2 displays the design values for the Kentucky portion of the Area from 2008 to 2023 in comparison to the 2008 and 2015 ozone NAAQS. It should be noted that complete design value data for the Campbell County monitor (21-037-3002) was not available until 2010 since the monitor was established on August 1, 2007.<sup>36</sup> For this reason, Campbell County design values are not depicted in Figure 2 until 2010. Design values used to develop Figure 2 can be found in Appendix C.

**Figure 2 – 8-hour Ozone Design Values for the Kentucky Portion of the Cincinnati-Hamilton, OH-KY-IN Maintenance Area**

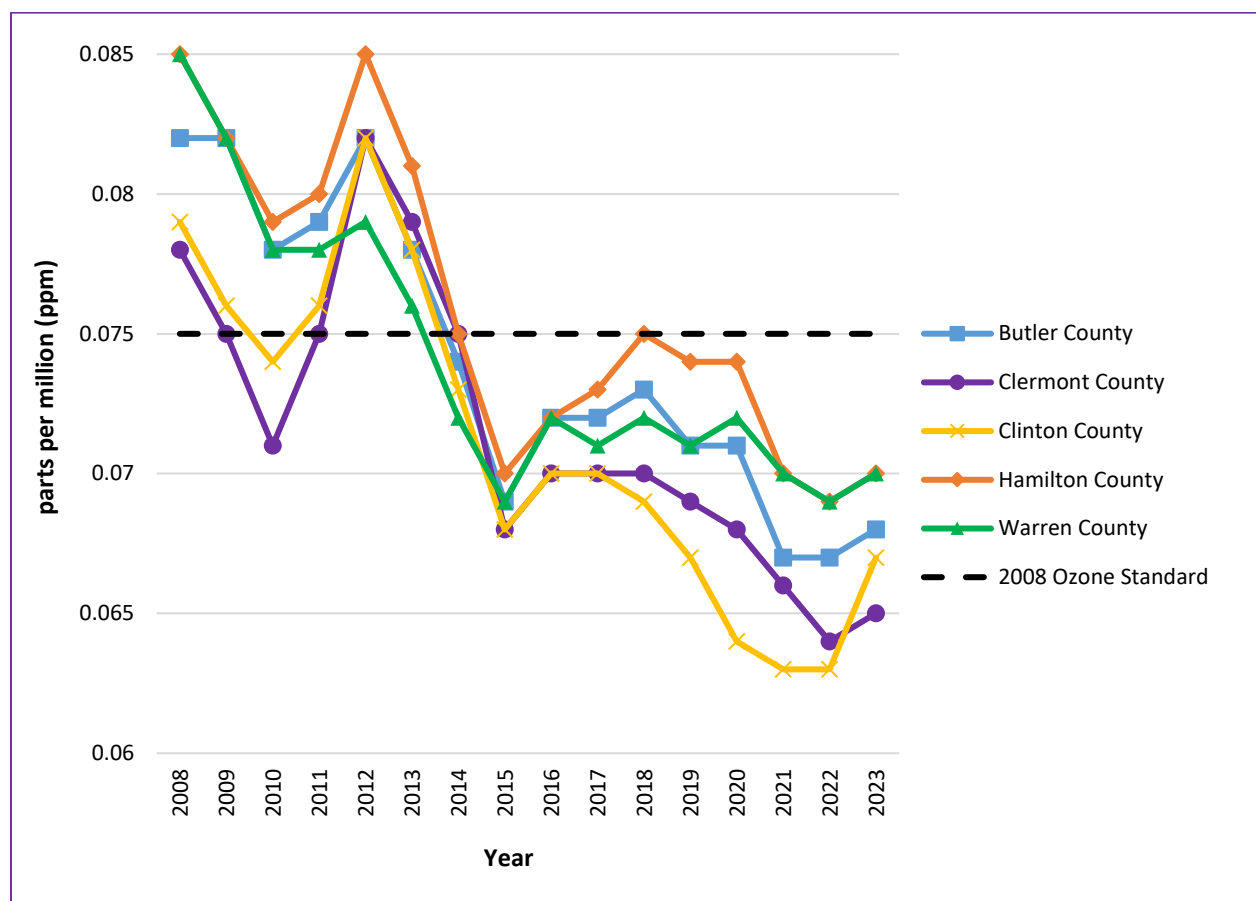


\*Boone County’s Design Values are invalid for the years 2022 and 2023.

<sup>36</sup> Kentucky Annual Ambient Air Monitoring Network Plan, available at: <https://eec.ky.gov/Environmental-Protection/Air/Air-Monitoring/Pages/default.aspx>.

Figure 3 displays the design values for the Ohio portion of the Area from 2008 to 2023 in comparison to the 2008 and 2015 ozone NAAQS. It should be noted that the design values displayed in Figure 3 for counties with multiple monitors (Butler and Hamilton) are the maximum design values for each county, i.e., the highest design value for each year. Overall, Figure 3 demonstrates that the Ohio portion of the Area has consistently maintained the 2008 ozone standard. Design values used to develop Figure 3 can be found in Appendix C.

**Figure 3 – 8-hour Ozone Design Values for the Ohio Portion of the Cincinnati Hamilton, OH-KY-IN Maintenance Area**



Tables 13 and 14 show the design values for the entire Area from 2008 – 2023, which can be found in Appendix C. It should be noted that each design value was calculated by averaging the annual fourth-high maximum values of the 3 most recent years. Overall, Tables 13 and 14 demonstrate a declining trend in the design values for all the monitors in the Area. These trends show continual air quality improvements in the Area; therefore, the Division contends the Area will continue attaining the 2008 ozone NAAQS.

**Table 13 – 8-hour Ozone 3-Year Design Values from 2008-2014 for the Cincinnati-Hamilton, OH-KY-IN Maintenance Area (ppm)**

Site ID and Location	2008	2009	2010	2011	2012	2013	2014
21-015-0008 (Boone, KY)	0.071	0.068	0.065	0.067	0.070	0.067	0.065
21-037-3002 (Campbell, KY)	0.080*	0.076	0.072	0.073	0.079	0.078	0.075
39-017-0018 (Butler, OH)	0.082	0.082	0.078	0.079	0.082	0.078	0.073
39-017-0023 (Butler, OH)	0.080	0.078	0.073	0.076	0.079	0.076	0.073
39-017-9991 (Butler, OH)	-	-	-	0.079*	0.082*	0.077	0.074
39-025-0022 (Clermont, OH)	0.078	0.075	0.071	0.075	0.082	0.079	0.075
39-027-1002 (Clinton, OH)	0.079	0.076	0.074	0.076	0.082	0.078	0.073
39-061-0006 (Hamilton, OH)	0.085	0.082	0.079	0.080	0.085	0.081	0.075
39-061-0010 (Hamilton, OH)	0.081	0.076	0.073	0.074	0.080	0.075	0.073
39-061-0040 (Hamilton, OH)	0.081	0.080	0.076	0.078	0.080	0.078	0.073
39-165-0007 (Warren, OH)	0.085	0.082	0.078	0.078	0.079	0.076	0.072

\* Indicates invalid design value

**Table 14 – 8-hour Ozone 3-Year Design Values from 2015-2023 for the Cincinnati-Hamilton, OH-KY-IN Maintenance Area (ppm)**

<b>Site ID and Location</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>
21-015-0008 (Boone, KY)	0.061	0.063	0.062	0.064	0.063	0.064	0.061	0.063	0.068
21-037-3002 (Campbell, KY)	0.071	0.070	0.069	0.067	0.065	0.063	0.063	0.063	0.064
39-017-0018 (Butler, OH)	0.069	0.071	0.071	0.073	0.071	0.071	0.067	0.067	0.067
39-017-0023 (Butler, OH)	0.069	0.072	0.072	0.073	0.070	0.069	0.066	0.067	0.068
39-017-9991 (Butler, OH)	0.068	0.069	0.069	0.070	0.068	0.066	0.064	0.064	0.066
39-025-0022 (Clermont, OH)	0.068	0.070	0.070	0.070	0.069	0.068	0.066	0.064	0.065
39-027-1002 (Clinton, OH)	0.068	0.070	0.070	0.069	0.067	0.064	0.063	0.063	0.067
39-061-0006 (Hamilton, OH)	0.070	0.072	0.073	0.075	0.074	0.074	0.070	0.069	0.070
39-061-0010 (Hamilton, OH)	0.069	0.072	0.070	0.072	0.070	0.070	0.067	0.067	0.068
39-061-0040 (Hamilton, OH)	0.069	0.071	0.071	0.072	0.071	0.070	0.069	0.068	0.070
39-165-0007 (Warren, OH)	0.069	0.072	0.071	0.072	0.071	0.072	0.070	0.069	0.070



*c. Monitoring Network*

According to the *Calcagni Memo*, areas should continue to operate an air quality monitoring network, in accordance with the Code of Federal Regulations (CFR) in 40 CFR Part 58, to verify continued attainment once redesignated. Additionally, the *Calcagni Memo* requires the maintenance plan to “contain provisions for continued operation of air quality monitors that will provide such verification.”<sup>37</sup>

The Division will continue to operate an ambient air quality monitoring network consistent with the network plan and assessments required by 40 CFR Part 58.10 and 40 CFR Part 58, Appendix D. Any modification to the network will be conducted in accordance with 40 CFR Part 58.14. As required by 40 CFR Part 58.16, all data collected will be recorded in the Air Quality System (AQS) database and will be available to the public.

*d. Verification of Continued Attainment*

If a maintenance demonstration is based on projected future inventories, the state submitting a maintenance plan should indicate how it will track progress against this metric to ensure assumptions about growth and other factors are accurate.<sup>38</sup>

The Division requires major point sources in all counties to submit air emissions information annually.<sup>39</sup> Pursuant to the Air Emissions Reporting Rule (AERR), 40 CFR Part 51 Subpart A, the Division assists in the preparation of new periodic inventories for all sectors every three years for the National Emissions Inventory (NEI). These inventories will be prepared for future years to comply with the inventory reporting requirements established in the CFR. When comparing the 2016 attainment year and the 2037 projected maintenance year inventories, it is evident that emissions are expected to keep decreasing in the Area, which matches recent emissions trends shown in the emissions inventory above. The trends will be monitored through the duration of this second maintenance period to ensure continued compliance with the standard.

The Kentucky portion of the Area currently has two monitors measuring ozone. In accordance with 40 CFR Part 58, the Division is committed to the continued operation of an EPA-approved ambient air quality monitoring network. The ozone-monitoring season for the Area runs from March 1 through October 31. Kentucky’s Annual Monitoring Network Plan provides the

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<sup>37</sup> *Calcagni Memo*, supra note 18, at 11.

<sup>38</sup> *Ibid.* at 11.

<sup>39</sup> 401 KAR 52:020, 401 KAR 52:030.

framework for its air quality surveillance. The monitoring network plan undergoes an annual review process to ensure consistency with the regulation.<sup>40</sup>

The Division has the legal authority to implement and enforce the maintenance plan requirements for Boone, Campbell, and Kenton counties.<sup>41</sup> This includes the right to enforce emission control measures that may be necessary to address future ozone attainment issues. Verification of continued attainment is achieved through operating an ambient ozone monitoring network of which the Division operates and manages.

*e. Contingency Plan*

Section 175A(d) of the CAA requires maintenance plans to include provisions for the prompt correction of any violation of the NAAQS.<sup>42</sup> At a minimum, such contingency measures must include all measures contained in the SIP for the Area prior to redesignation.

In addition to measures to be adopted to correct any violation, the plan should also contain “a schedule and procedure for adoption and implementation, and a specific time limit for action” as well as “specific indicators, or triggers” for action.<sup>43</sup>

Future reviews of actual emissions for this redesignated Area will be performed using the latest emission factors, models, and methodologies. For these periodic inventories, the Division will review the assumptions made for the purpose of the maintenance demonstration concerning projected growth of activity levels. If any of these assumptions appear to have changed substantially, the Division will re-project emissions. If an annual fourth-high monitored value of 0.076 ppm or greater occurs in a single ozone season, or if periodic emission inventory updates reveal excessive or unanticipated growth greater than 10% in ozone precursor emissions within the maintenance area, the Division will evaluate existing control measures to see if any further emission reduction measures should be implemented at that time. Implementation of necessary controls in response to an initial "indicator" response will take place as expeditiously as possible, but in no event later than twelve months from the conclusion of the most recent ozone season (October 31) in which the annual fourth-high monitored value of 0.076 ppm or greater occurred.

If a three-year average fourth-high monitored value of 0.076 ppm or greater (i.e., a violation of the standard) occurs within the maintenance area, an “action level” response will take effect.

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<sup>40</sup> 2024 Kentucky Annual Ambient Air Monitoring Network Plan, available at: [https://eec.ky.gov/Environmental-Protection/Air/Division Reports/2024 Kentucky Annual Ambient Air Monitoring Network Plan.pdf](https://eec.ky.gov/Environmental-Protection/Air/Division%20Reports/2024%20Kentucky%20Annual%20Ambient%20Air%20Monitoring%20Network%20Plan.pdf).

<sup>41</sup> 40 C.F.R. Part 52 Subpart S – Kentucky.

<sup>42</sup> 42 U.S.C. §7505a.(d).

<sup>43</sup> *Calcagni Memo*, supra note 18, at 12-13.

An action level response will start with the Division conducting an internal study to identify the cause of the violation and determine if an exceptional event demonstration is appropriate. If it is determined that an exceptional event did not cause the violation, the Division, in conjunction with the Area's metropolitan planning organization or regional council of governments, will determine additional control measures needed to assure future attainment of the NAAQS for ozone. Appropriate contingency measures for an action level response will be selected to be in place within twenty-four months of a triggered violation.

The contingency measures chosen will be selected based on their ability to bring the Area back into attainment. Potential contingency measures currently maintained by the Division are shown in the following list:

- Implementation of a program to require additional emission reductions on stationary sources, including Reasonably Available Control Technology (RACT) for point sources of VOC and NO<sub>x</sub> and, specifically, the adoption of new and revised RACT rules based on Groups II, III, and IV control techniques guidelines (CTGs);
- Implementation of a program to enhance inspection of stationary sources;
- Implementation of fuel programs, including incentives for alternative fuels;
- Restriction of certain roads or lanes to, or construction of such roads or lanes for use by, passenger buses or high-occupancy vehicles;
- Trip-reduction ordinances;
- Employer-based transportation management plans, including incentives;
- Programs to limit or restrict vehicle use in a downtown area, or other areas of emission concentration, particularly during periods of peak use;
- Programs for new construction and major reconstructions of paths or tracks for use by pedestrians or by non-motorized vehicles when economically feasible and in the public interest;
- Implementation of a modern vehicle inspection/maintenance program;
- Implementation of diesel retrofit programs, including incentives for performing retrofits for fleet vehicle operations; and/or
- Additional engine idling reduction programs.

The Division reserves the right to implement other contingency measures if new control programs should be developed and deemed more advantageous for the Area. Prior to the implementation of any contingency measure(s) not listed, the Division will solicit input from all interested and affected parties in the Area. The Division may, after consultation with EPA, implement other contingency measures not listed here.

### **III. Permanent and Enforceable Improvement in Air Quality (CAA Section 107(d)(3)(E)(iii))**

Control measures included in the original redesignation request and maintenance plan for the Area are based on a combination of federal and state programs.

Federal programs utilized include Tier II Emission Standards for Vehicles and Gasoline Sulfur Standards, Tier 4 Vehicle Standards, the Clean Air Interstate Rule, Cross-State Air Pollution Rule, National Program for greenhouse gas emissions and fuel economy standards, Utility Mercury Air Toxics Standards (MATS) and New Source Performance Standards (NSPS), and NO<sub>x</sub> SIP Call in Surrounding States.

State programs utilized include Kentucky's open burning regulation limiting open burning during ozone season (May-September) and regulations drafted following EPA's NO<sub>x</sub> SIP Call controlling emissions of NO<sub>x</sub> from EGUs and large stationary combustion sources.<sup>44</sup>

The measures ensure that attainment was achieved based on permanent and enforceable emission reductions. Federal programs have been updated since the initial redesignation request and maintenance plan and emissions reductions from new programs will continue to support the maintenance of the 2008 ozone NAAQS in the Area. The Division is committed to upholding all state programs detailed in the initial redesignation request and maintenance plan for the Kentucky portion of the Area. For further information regarding permanent and enforceable measures relied upon to ensure the Area maintains attainment, please review the Division's initial submittal.<sup>45</sup>

### **IV. Transportation Conformity**

In accordance with CAA Section 176(c), transportation conformity is required to ensure that transportation plans, transportation improvement programs (TIPs), and federally supported highway transit project activities conform to the purpose of the SIP. This second maintenance plan establishes emissions budgets for the Area; these budgets are intended to allow transportation projects to occur without causing new air quality violations, worsening existing violations, or hindering continued attainment of the 2008 ozone NAAQS.

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<sup>44</sup> Open burn regulation: 401 KAR 63:005; NO<sub>x</sub> SIP call regulations: 401 KAR 51:150 and 401 KAR 51:160.

<sup>45</sup> *The Division's initial redesignation request and maintenance plan submittal*, supra note 7, at 3.

EPA's *Guidance for Transportation Conformity Implementation in Multi-Jurisdictional Nonattainment and Maintenance Areas* (Transportation Guidance) applies to nonattainment areas with several state agencies involved in the transportation planning process.<sup>46</sup> The use of interagency consultation is required under 40 CFR 93.105.

The interagency consultation group (ICG) for this Area consisted of the Division, Ohio EPA, IDEM, OKI, the Kentucky Transportation Cabinet (KYTC), the Ohio Department of Transportation (ODOT), the Indiana Department of Transportation (INDOT), EPA Region 4, EPA Region 5, Federal Highway Administration Kentucky Division (FHWA-KY), Federal Highway Administration Ohio Division (FHWA-OH) and Federal Highway Administration Indiana Division (FHWA-IN). Pursuant to 40 CFR 93.118 and 93.122, a regional emissions analysis and budget test is required for this Area; OKI completed a regional emissions analysis for the entire Area.<sup>47</sup>

The transportation conformity regulation, 40 CFR Part 93.124(a), *Conformity to State or Federal Implementation Plans of Transportation Plans, Programs, and Projects Developed, Funded or Approved under Title 23 U.S.C. or the Federal Transit Laws*, requires that mobile source emissions submitted or approved to a state's SIP be used in determining conformity of transportation plans for the area. This regulation also allows the addition of a safety margin to the motor vehicle emissions budgets. Per 40 CFR 93.101, the safety margin is defined as "the amount by which the total projected emissions from all sources of a given pollutant are less than the total emissions that would satisfy the applicable requirement for reasonable further progress, attainment or maintenance." The Division consulted the ICG and determined a 15 percent safety margin was appropriate for the Area. The Division requested concurrence on the safety margin and motor vehicle emissions budgets from all agencies involved in the ICG. On February 24, 2025, the Division held an ICG meeting to discuss Kentucky's motor vehicle emissions budgets; a transcript from the ICG meeting is available in Appendix D. Email correspondence documenting the entire ICG consultation process is available in Appendix E.

Table 15, below, demonstrates the estimated NO<sub>x</sub> and VOC emissions totals for on-road mobile sources in each portion of the Area as well as for the entire Area. On-road emissions within the Ohio and Indiana portions of the Area were included to provide greater context for on-road emissions within the entire Area but were not used to determine the motor vehicle emissions budgets for Kentucky.

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<sup>46</sup> EPA: *Guidance for Transportation Conformity Implementation in Multi-Jurisdictional Nonattainment and Maintenance Areas*, July 2012.

<sup>47</sup> OKI 2050 Metropolitan Transportation Plan, available at: <https://2050update.oki.org/air-quality/>.

**Table 15 – Cincinnati-Hamilton, OH-KY-IN Maintenance Area Estimated NO<sub>x</sub> and VOC Emissions (tpsd) for On-Road Mobile Sources**

<b>Area Portion</b>	<b>2016 Base Year NO<sub>x</sub> Emissions</b>	<b>2037 Maintenance Year NO<sub>x</sub> Emissions</b>	<b>2016 Base Year VOC Emissions</b>	<b>2037 Maintenance Year VOC Emissions</b>
<b>Boone County, KY</b>	6.07	0.97	1.47	0.81
<b>Campbell County, KY</b>	2.05	0.26	0.75	0.35
<b>Kenton County, KY</b>	5.15	0.76	1.52	0.74
<b>KY Totals</b>	<b>13.27</b>	<b>1.99</b>	<b>3.74</b>	<b>1.90</b>
<b>Butler County, OH</b>	9.84	1.47	5.23	1.96
<b>Clermont County, OH</b>	6.02	0.89	3.12	1.28
<b>Clinton County, OH</b>	0.26	0.12	0.30	0.22
<b>Hamilton County, OH</b>	25.62	3.85	11.36	4.42
<b>Warren County, OH</b>	9.32	1.68	3.35	1.62
<b>Dearborn County, IN</b>	0.57	0.09	0.20	0.07
<b>OH/IN Totals</b>	<b>51.63</b>	<b>8.10</b>	<b>23.56</b>	<b>9.57</b>
<b>Full Area Totals</b>	<b>64.90</b>	<b>10.09</b>	<b>27.30</b>	<b>11.47</b>

Table 16 contains the 2037 motor vehicle emissions budgets for on-road mobile NO<sub>x</sub> and VOC sources within the Kentucky portion of the Area. Safety margins were derived by increasing the total on-road mobile source emission estimates for the Kentucky portion of the Area by 15 percent. Kentucky chose to accommodate a 15 percent safety margin to allow for potential variation in vehicle miles traveled (VMT) forecast and estimated mobile source emissions.

**Table 16 – Estimated NO<sub>x</sub> and VOC Motor Vehicle Emissions Budgets (tpsd) for the Kentucky portion of the Cincinnati-Hamilton, OH-KY-IN Maintenance Area**

<b>Area Portion</b>	<b>Estimated 2037 Maintenance Year Emissions</b>	<b>2037 Safety Margin Allocation</b>	<b>2037 Motor Vehicle Emissions Budget</b>
<b>KY NO<sub>x</sub></b>	1.99	0.30	2.29
<b>KY VOC</b>	1.90	0.29	2.19

Table 17 contains the 2037 motor vehicle emissions budgets for on-road mobile NO<sub>x</sub> sources within each respective portion of the Area. Table 18 contains the 2037 motor vehicle emissions budgets for on-road mobile VOC sources within each respective portion of the Area. The budgets shown in Tables 17 and 18 include safety margins. The Ohio/Indiana budgets as well as the Kentucky budgets include a 15 percent safety margin. Please note that the emissions totals shown in Tables 17 and 18 are meant to provide context regarding the emissions for the entire Area. The Division is only formally adopting its own motor vehicle emissions budget that applies to the Kentucky portion of the Area.

**Table 17 – Estimated NO<sub>x</sub> Motor Vehicle Emissions Budget (tpsd) for Cincinnati-Hamilton, OH-KY-IN Maintenance Area**

<b>Area Portion</b>	<b>Estimated 2037 Maintenance Year Emissions</b>	<b>2037 Safety Margin Allocation</b>	<b>2037 Motor Vehicle Emissions Budget</b>
<b>OH/IN NO<sub>x</sub></b>	8.10	1.22	9.32
<b>KY NO<sub>x</sub></b>	1.99	0.30	2.29
<b>Area NO<sub>x</sub> Total</b>	10.09	1.52	11.61



**Table 18 – Estimated VOC Motor Vehicle Emissions Budgets (tpsd) for Cincinnati-Hamilton, OH-KY-IN Maintenance Area**

<b>Area Portion</b>	<b>Estimated 2037 Maintenance Year Emissions</b>	<b>2037 Safety Margin Allocation</b>	<b>2037 Motor Vehicle Emissions Budget</b>
<b>OH/IN VOC</b>	9.57	1.44	11.01
<b>KY VOC</b>	1.90	0.29	2.19
<b>Area VOC Total</b>	11.47	1.73	13.20

The motor vehicle emissions budgets margin of safety allocation translates into an additional 1.52 tpsd for NO<sub>x</sub> and 1.73 tpsd for VOC in the year 2037. EPA’s conformity regulations allow for allocation, through a revision to the SIP, of all or some portion of the overall Area’s safety margin (emission reductions from 2016 to 2037) to the mobile emissions budgets for future conformity. As identified in Tables 17 and 18 above, the motor vehicle emissions budget margin of safety allocation and the total budget is distributed separately between Kentucky (alone) and Ohio/Indiana (combined). The Kentucky portion of the overall 2037 emissions budgets comprises 20% of the NO<sub>x</sub> and 17% of the VOC total. These percentages demonstrate that the majority of motor vehicle emissions will not originate within the Kentucky portion of the Area throughout the second maintenance period.

Table 19, below, details the actual 2016 base year VMT and the estimated 2037 maintenance year VMT. Despite increases in VMT, the Area still achieves emission reductions (see Table 10). Thus, the Division concludes that transportation activities will not cause new air quality violations in the Area. Calculations and methodologies for VMT can be viewed in the OKI Technical Document in Appendix B.

**Table 19 – Cincinnati-Hamilton, OH-KY-IN Maintenance Area Vehicle Miles Traveled (miles/day) Estimations for On-Road Mobile Sources**

<b>Area Portion</b>	<b>2016 Base Year VMT</b>	<b>2037 Maintenance Year VMT</b>
<b>Boone County, KY</b>	4,108,576	5,055,706
<b>Campbell County, KY</b>	1,963,936	2,144,665
<b>Kenton County, KY</b>	3,993,527	4,482,631
<b>KY Totals</b>	10,066,039	11,683,003
<b>Butler County, OH</b>	7,366,094	7,860,333
<b>Clermont County, OH</b>	4,877,897	5,300,998
<b>Clinton County, OH</b>	1,903,974	2,219,284
<b>Hamilton County, OH</b>	21,233,246	22,135,990
<b>Warren County, OH</b>	6,651,621	7,757,371
<b>Dearborn County, IN</b>	357,406	410,467
<b>OH/IN Totals</b>	42,390,237	45,684,442
<b>Area Totals</b>	52,456,276	57,367,445

Lastly, there are pre-existing motor vehicle emissions budgets for NO<sub>x</sub> and VOCs in the Kentucky portion of the Area, under the 2008 8-hour ozone NAAQS, that were established in the original maintenance plan for the Area. The pre-existing budgets from the Area’s original maintenance plan were for the years 2020 and 2030. Although the 2020 budgets are now in the past, the pre-existing 2030 budgets remain valid for the Kentucky portion of the Area through the end of 2030. Based on the current regional emissions analysis, there is no need to remove the 2020 or 2030 budgets. The Division will continue implementing the pre-existing budgets in the Kentucky portion of the Area for transportation conformity purposes.

## **V. Public Participation**

In accordance with 40 CFR 51.102, this proposed SIP revision, containing a second 10-year maintenance plan for the Kentucky portion of the Area, was available for public review and comment.

This proposed SIP revision was made available on the Division's website during the 37-day comment period from April 15, 2025, until May 22, 2025. A virtual public hearing was scheduled for May 22, 2025, at 10:00 a.m. (EDT). There were no requests for the hearing, and it was canceled accordingly. A copy of the public hearing notice is available in Appendix F.

The Division received no comments during the public comment period.

## **VI. Conclusion**

The Area demonstrates continued compliance with the 2008 8-hour ozone NAAQS, with monitored air quality values below the level of the standard. Excluding data impacted by the Canadian wildfires that occurred during the summer of 2023, the Kentucky portion of the Area has a stable or improving air quality trend. This maintenance plan shows emissions in the Area continue to remain below the level of the initial attainment inventory and the Division will continue to operate its monitoring network to verify continued attainment in the Kentucky portion of the Area. The contingency plan is in place in the event of a violation of the standard.

The Division therefore requests that this subsequent 10-year maintenance plan for the Kentucky counties of Boone, Campbell, and Kenton located within the Cincinnati-Hamilton, OH-KY-IN 2008 8-hour ozone maintenance area be approved by EPA.

# **Appendix A – Emissions Inventory**

**Accessible as an Excel Worksheet Titled:**

“2008 Ozone Cincinnati-Hamilton Emissions Inventory”

# **Appendix B – Mobile Source Emissions Technical Support Document**

**SECOND MAINTENANCE PLAN FOR THE 2008 OZONE STANDARD FOR THE  
CINCINNATI-HAMILTON OH-KY-IN AREA FOR NATIONAL AMBIENT AIR  
QUALITY STANDARDS (NAAQS) – TECHNICAL DOCUMENTATION FOR  
MOBILE SOURCE EMISSIONS**

**August 7, 2024**



## Table of Contents

BACKGROUND .....	1
OKI'S MOBILE EMISSIONS INVENTORY PROCESS.....	2
Transportation networks .....	2
Socioeconomic Data .....	2
Population .....	3
Households.....	3
Total Vehicles and Average Household Car Ownership .....	3
School Enrollment .....	4
Labor Force .....	4
Employment.....	4
Area Type.....	5
OKI TRAVEL DEMAND MODEL .....	6
Model Validation .....	6
Post-Model Processing.....	9
Emission Factor Models .....	9
Mobile Emissions Inventory for the Ohio and Kentucky 2008 Ozone Maintenance Area .....	11
APPENDIX A – PROJECT LISTING .....	13

## List of Tables and Figures

Figure 1 – Cincinnati-Middletown-Wilmington OH-KY-IN Ozone Maintenance Area – 2008 Ozone .....	1
Table 1 - Vehicle miles traveled by facility type .....	6
Table 2 - Volume statistics by volume group .....	7
Table 3 - Volume statistics by facility type .....	7
Table 4 - Volume statistics by area type .....	8
Table 5 - Volume time-of-day distribution .....	8
Table 6 - Screen-line summary .....	8
Table 7 - MOVES Run specification file .....	10
Table 8 - MOVES County-Data manager data and sources .....	10
Table 9 – Mobile Inventory of Volatile Organic Compound (VOC) Emissions (tons per day) for the Cincinnati Ohio, Kentucky, and Indiana 2008 Ozone Area .....	11
Table 10 – Mobile Inventory of Oxides of Nitrogen (NOx) Emissions (tons per day) for the Cincinnati Ohio, Kentucky, and Indiana 2008 Ozone Area .....	12
Table 11 – Daily Vehicle Miles Traveled for the Cincinnati Ohio, Kentucky, and Indiana 2008 Ozone Area .....	12
Non-Exempt Projects Added to the 2037 Maintenance Year Transportation Network .....	13

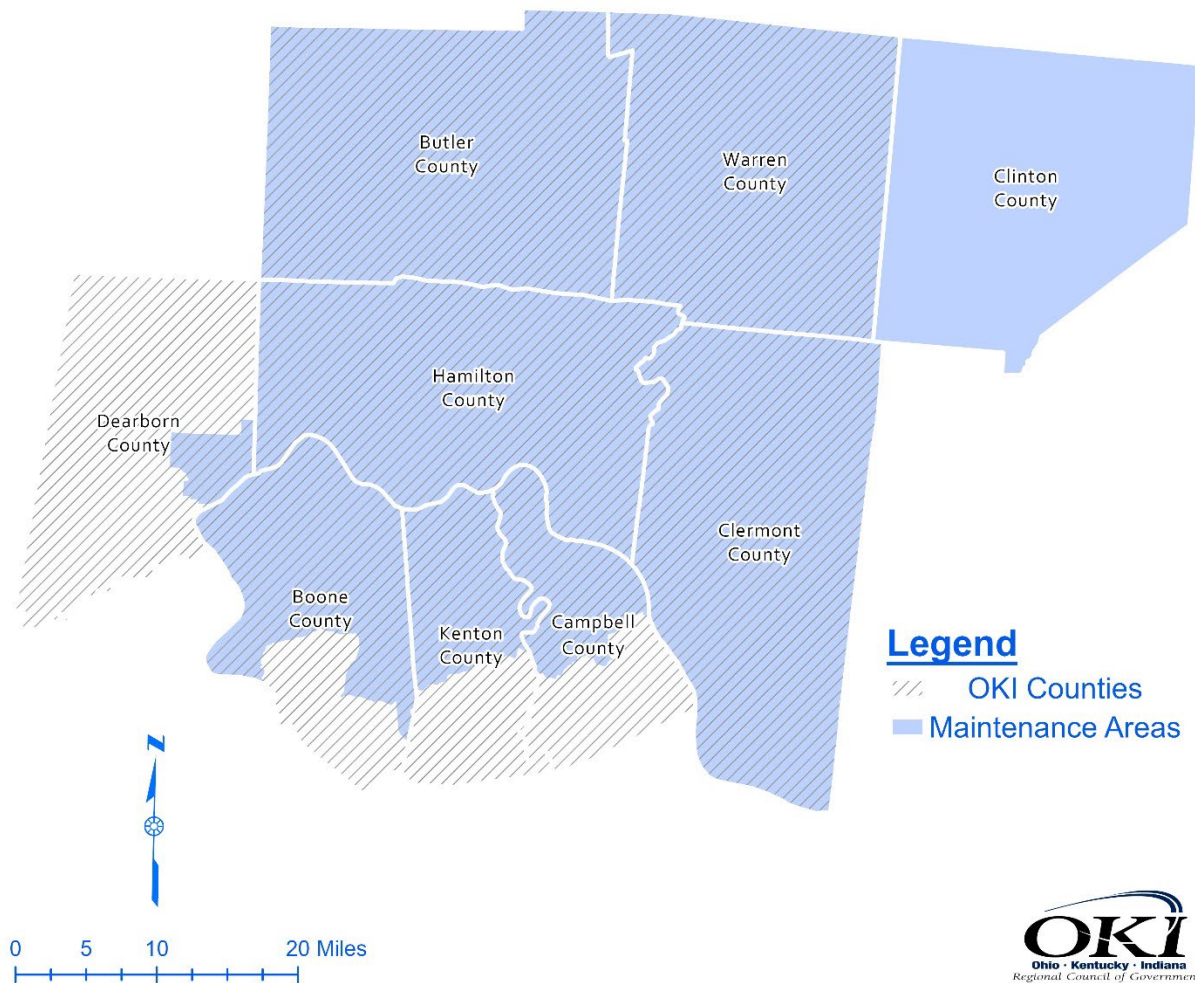


## BACKGROUND

This report documents the maintenance plan process used by OKI to develop mobile source emissions inventories for the 2008 ozone standard for the State Implementation Plans (SIP) of Ohio, Kentucky and Indiana which complies with the Clean Air Act.

The region continues to be classified as a maintenance area for the 2008 Ozone National Ambient Air Quality Standard (NAAQS). The 2008 ozone area (Figure 1) includes the counties of Butler, Clermont, Clinton, Hamilton, and Warren in Ohio; a portion of the counties of Boone, Campbell and Kenton in Kentucky; and a portion of Dearborn County Indiana.

**Figure 1 – Cincinnati-Middletown-Wilmington OH-KY-IN Ozone Maintenance Area – 2008 Ozone**



## **OKI'S MOBILE EMISSIONS INVENTORY PROCESS**

The mobile source emissions inventory involves the process of estimating mobile source emissions of volatile organic compounds (VOC) and oxides of nitrogen (NOx) resulting from the transportation system for various years described below. This is accomplished by estimating vehicle miles of travel and vehicle speed of travel using travel demand models in conjunction with the EPA MOVES4 model. Central to travel demand forecasting are the transportation networks (highway and transit) as well as demographic data.

### **Transportation networks**

OKI's highway and transit networks include the existing transportation system plus all regionally significant projects in OKI's Metropolitan Transportation Plan and TIP that would normally be subject to air quality conformity requirements (non-exempt), regardless of funding source. A list of non-exempt projects included in each transportation network is included in Appendix A.

The networks specifically developed for use in this conformity process are 2016 Base (represents attainment emissions) and 2037 Maintenance.

- The 2016 Base Year (Attainment emissions).
- The 2037 Maintenance Year.

### **Socioeconomic Data**

Values for an array of socioeconomic variables are estimated (base year) and projected (intermediate and horizon years) as input into trip generation, distribution, and modal choice components of the OKI travel demand model. These data are geographically recorded by transportation analysis zone (TAZ) which permits quantifying the amount of trip generating activity by zones of origin and destination. The OKI socioeconomic variables are identical to those used by the Miami Valley Regional Planning Commission model.

The socioeconomic data are prepared for the base year to assist in validating the travel demand model to replicate current traffic conditions and for the analysis year to determine the travel demands to be accommodated within the planning period. The point in time for which the travel demand model is calibrated and validated is a normal weekday and the annual average weekday.

Demographic data files are prepared for a base year (usually a year ending in 0 or 5) and a long range horizon year which is specified in the federal guidelines to be at least 20 years in the future. The number of TAZs currently being used is 2,067 and place holding zones are included for each county to permit expansion of the database as needed in the future.

The 2016 socio-economic and land use data were extrapolated from 2020 and 2030 data. The 2037 maintenance year data was extrapolated from the 2030- and 2040-year data. It should also be noted that a few variables will not have values in some TAZs due to the absence of households, employment or workers in the base year data set. The TAZs should be checked in the future year

to confirm that land uses have not changed the nature of the TAZ (thus requiring the determination of a value).

A complete discussion of the base year (2020) demographic data development is available in OKI Regional Council of Governments: Development of the Socioeconomic Database; Step by Step Guide to creating the Base Year for the Socioeconomic Database, July 2022 and a complete discussion of the horizon year (2050) demographic data development is available in OKI Regional Council of Governments: Development of the Socioeconomic Database; Step by Step Guide to creating the Base Year for the Socioeconomic Database, January 2023. All of the variables represent the latest OKI planning assumptions.

### Population

Base and Future Year Data: Population data for base year 2016 and future years 2030 and 2040 originate with the 2020 Decennial Census data. Utilizing ArcGIS, population data at the zonal level for 2020 was derived from the area proportion allocation of block level population.

As a tri-state regional planning agency, OKI uses the most current county level population projections as prepared by the respective state data centers (Ohio Development Services Agency Department of Research, Kentucky State Data Center and Indiana Business Research Center) as control totals. Projections based on the 2020 census for years 2030 and 2040 were released by the Ohio and Kentucky state data centers, and components of population change analysis for Dearborn County, based on the best available Census data. Population projections at the zonal level are calculated by multiplying household size by the projected zonal households. Household size is factored so that, in each county, the sum of the zonal populations equals the county control total.

### Households

Base Year Data: Household data for base year 2016 originates with the 2016-2020 American Community Survey (ACS) for counties in the OKI region. To assign the household data from the ACS to TAZ, voter registration data was used to apportion the census tract household total to TAZs.

Future Year Data: The preparation of household projections was accomplished by calculating the number of households for a projected county population using average household size trends and for Kentucky counties, the actual number of households forecasted for each forecast year. Disaggregation to TAZs was determined by historical trends, existing and future land use, topography, flood plain information, availability of land, local knowledge and other factors.

### Total Vehicles and Average Household Car Ownership

Base and Future Year Data: Base and future year household vehicle data were obtained from the 2016-2020 American Community Survey. Total vehicles per household were calculated for census tracts then applied to the TAZs based on the voter registration data. For the horizon year, the historical trends in vehicles per household was calculated and applied to each TAZ. Most areas

did not see a significant reduction in vehicle ownership and so the total number of vehicles regionally will continue to grow at a similar rate as the household growth rate.

### School Enrollment

Base Year Data: Enrollment of elementary and secondary schools were obtained from each school directly and included in the socioeconomic database. Postsecondary educational institution enrollment was obtained from the National Center for Education Statistics website, then geocoded in ArcMap and assigned to a TAZ.

Future Year Data: Future year elementary and high school enrollments by TAZ were based on the change in numbers of elementary age and high school age children between 2015 and each future year by county. The base year 2016 data and future year data was taken from the Ohio, Kentucky and Indiana state data centers' population projections by age. The percent changes between the base year and future year for elementary and high school children at the county level were applied to all the TAZs in the county. Schools that were closed in 2020 were removed and those which were built since 2020 were added. Projections of enrollment for the larger institutions can be found in media articles or master plans. These projections are used when available; otherwise, the base year enrollment is retained based on the share of each school's enrollment countywide.

### Labor Force

Base and Future Year Data: The OKI labor force is a function of the population as determined by a labor force participation rate (the number of employed persons in the labor force per persons 16 and over). Labor force data for base year 2016 was extrapolated from the 2016-2020 American Community Survey. Utilizing the geographic information system ArcGIS, household data at the zonal level was derived from the area proportion allocation of block group level employed labor force. Future year labor force projections were based on the most recent projections of national labor force participation rates by age and sex cohorts from the U.S. Department of Labor, Bureau of Labor Statistics for each of those years. These rates were then applied to the projected county age/sex cohorts and adjusted to eliminate the unemployed to arrive at a county employed labor force control total. Employed labor force at the zonal level is calculated by multiplying the labor force participation rate by the zonal population. The labor force participation rate is adjusted so that, in each county, the sum of the zonal labor force counts equals the control total.

### Employment

Base Year Data: Quarterly Census of Employment and Wages (QCEW) data for the first quarter of 2020 was utilized as the primary tool to extrapolate base year employment at the zonal level in Ohio and Kentucky for 2016. In Indiana, 2016 data was extrapolated from InfoUSA 2020 data. Individual business records containing physical location, number of employees and North American Industry Classification System (NAICS) code were geocoded in ArcGIS and aggregated to the TAZ level. This data set was supplemented by other sources of data to complete the commuting employment picture in the OKI region. Each zone's employment was divided into 11 categories based on two-digit NAICS sector codes. The categories represent sectors grouped according to their similarity in generating trips.

Future Year Data: For future year employment projection, the existing employment totals by sector were used to calculate each employers share of County employment. Then using Woods and Poole's County employment by sector projections, the growth or rate of decline was applied to each employment location based on its share and then adjusted to match the projected employment calculated based on the projected labor force and inflow and outflow of workers to and from the region.

#### Area Type

Base and Future Year Data: For each analysis year, each TAZ is assigned an area type designation as CBD, Urban, Suburban or Rural based on population and employment densities.

## OKI TRAVEL DEMAND MODEL

Vehicle miles traveled and vehicle hours were estimated using the OKI Travel Demand Model. The OKI model is an Activity-Based Model (ABM). The OKI ABM utilizes the CUBE based Coordinated Travel – Regional Activity Based Modeling Platform (CT-RAMP) to simulate the travel pattern of all individual travelers in the region. The ABM estimates a schedule and itinerary of daily activities for members of every household in the region based on detailed information for individuals, households, trips, and highway and transit systems. Travel behavior modeling at fine spatial-temporal resolution improves the accuracy of travel pattern estimates and enables the model to evaluate conventional highway and transit projects as well as to test a variety of policies and scenarios, including the adoption of connected and autonomous vehicles, tolling and congestion pricing, implementation of High-Occupancy-Vehicle (HOV) lanes, and land use planning.

### Model Validation

The 2016 and 2037 automobile estimates were generated using input from our new OKI-only travel demand model, which was validated against 2020 traffic conditions. The modeling network encompasses the entire ozone Maintenance area except for Clinton County, Ohio. The modeling network also includes the remainder of Dearborn County Indiana.

OKI incorporates a variety of sources of local data to both improve and confirm the accuracy of VMT, as well as other travel-related parameters. Free flow speeds used on the highway and transit networks are based on travel time studies performed locally and the NPMRDS data. The 2020 Base Year model was validated against observed data, including the travel data from 2021/2022 Regional Household Transportation Survey, 2018 and 2019 traffic counts, 2019 (October) StreetLight Origin-Destination (O-D) and travel distance data, and the 2016-2020 ACS data, and 2023 transit ridership and other relevant data.

A summary of the assigned and observed VMT in the base year by facility type is included in Table 1. The difference between estimated vehicle miles traveled (VMT) and 2020 observed VMT is about six percent. Specifically, a percentage difference of -11% and -12% is observed between the observed and modeled data for arterials and collector, respectively. On the other hand, the estimated VMTs for interstates and freeways/expressways match well with the observed data.

**Table 1 - Vehicle miles traveled by facility type**

Functional Classification	Vehicle Miles Traveled		
	Observed 2019	Model 2020	Percent Difference
Interstate	20,810,000	20,540,000	-1%
Freeway/Expressway	1,530,000	1,520,000	-1%
Arterial	16,550,000	14,770,000	-11%
Collector	7,710,000	6,760,000	-12%
Local	7,140,000	7,040,000	-1%
<b>Total</b>	<b>53,740,000</b>	<b>50,630,000</b>	<b>-6%</b>
<b>Collector and Above Total</b>	<b>46,600,000</b>	<b>43,590,000</b>	<b>-6%</b>

The model highway network includes approximately 1,900 bi-directional count locations in the OKI modeling area that have daily, and time-of-day traffic counts collected by Ohio Department of Transportation (ODOT), Kentucky Transportation Cabinet (KYTC), Indiana Department of Transportation (INDOT), and OKI in 2018 and 2019. The assigned volumes are compared with the observed counts by volume group, facility type, and area type at the regional level to ensure the validation results are acceptable.

The assigned and observed volumes by volume group are shown in Table 2. The volume-to-count (VOL/CNT) ratio for each group is also included. As expected, the ratios are higher for lower volume groups. For most of the volume groups, the volume to count ratio is close to 1. The total volume to count ratio of 1.01 and the overall percent root mean square error (%RMSE) of 35.9% indicates a good accuracy of the traffic assignment output.

**Table 2 - Volume statistics by volume group**

Volume Group	Observations	Total Counts	Total Volume	VOL/CNT Ratio	RMSE	%RMSE
<2500	207	323,310	410,549	1.27	1,299	83.20%
2500 - 4999	389	1,487,370	1,760,976	1.18	2,486	65.00%
5000 - 7499	363	2,252,660	2,495,001	1.11	3,216	51.80%
7500 - 14999	623	6,459,390	6,894,578	1.07	3,804	36.70%
15000 - 24999	139	2,540,030	2,474,237	0.97	4,550	24.90%
25000 - 49999	90	3,245,990	2,921,939	0.90	7,553	20.90%
50000 - 74999	85	5,334,100	4,974,840	0.93	10,444	16.60%
>75000	11	864,980	816,824	0.94	12,871	16.40%
<b>Total</b>	<b>1,907</b>	<b>22,507,830</b>	<b>22,748,944</b>	<b>1.01</b>	<b>4,748</b>	<b>36.30%</b>

Table 3 and Table 4 compare the traffic assignment results to the observations by facility type and area type, respectively. Notably, model volumes on expressways are about 19% lower than the traffic counts. A closer examination reveals that SR-126 stands out as the primary contributor to these discrepancies, with the model's average volume on SR-126 being approximately 27% lower than the observed traffic counts. It is noticed that the observed traffic along SR 126 increased about 21% from 2015 to 2018. Further investigation will be conducted to confirm the trend once the new traffic data becomes available. It is also noticed that the modeled volumes on I-275 are notable lower compared with counts along the corridor.

**Table 3 - Volume statistics by facility type**

Facility Type	Observations	Total Counts	Total Volume	VOL/CNT Ratio	RMSE	%RMSE
Freeway	220	10,054,270	9,257,663	0.92	8,687	19.00%
Expressway	25	304,620	246,805	0.81	6,318	51.90%
Ramp	398	2,813,080	3,095,330	1.1	3,278	46.40%
Arterial	964	8,118,840	8,726,986	1.07	3,357	39.90%
Collector	272	1,116,690	1,328,506	1.19	2,431	59.20%
Local	28	100,330	93,654	0.93	1,193	33.30%
<b>Total</b>	<b>1,907</b>	<b>22,507,830</b>	<b>22,748,944</b>	<b>1.01</b>	<b>4,239</b>	<b>35.90%</b>

**Table 4 - Volume statistics by area type**

Area Type	Observations	Total Counts	Total Volume	VOL/CN T Ratio	RMSE	%RMSE
Rural	148	727,470	789,494	1.09	1,915	57.90%
Suburban	938	12,467,270	12,412,553	1	24,373	4.90%
Urban	775	8,965,690	9,065,326	1.01	6,738	29.90%
CBD	46	347,400	481,570	1.39	1099	304.90%
<b>Total</b>	<b>1,907</b>	<b>22,507,830</b>	<b>22,748,944</b>	<b>1.01</b>	<b>4,239</b>	<b>35.90%</b>

The raw 15-minute traffic counts from INDOT, KYTC, ODOT, and OKI are also summarized by time periods of AM Peak, Midday, PM Peak, and Evening/Night Time (defined in the Chapter 1). Table 5 presents time-of-day distributions for traffic volumes and traffic counts. The time-of-day share of traffic volumes matches well with the time-of-day distribution of the traffic counts.

**Table 5 - Volume time-of-day distribution**

Time-of-Day	Total Counts	Count % Share	Total Volumes	Model Volume % Share	VOL/CN T Ratio
AM Peak	4,083,920	18.10%	4,652,641	20.50%	1.14
Midday	7,361,440	32.70%	7,423,182	32.60%	1.01
PM Peak	6,522,740	29.00%	6,160,865	27.10%	0.94
Evening/Night	4,539,730	20.20%	4,512,256	19.80%	0.99
<b>Total</b>	<b>22,507,830</b>	<b>100.00%</b>	<b>22,748,944</b>	<b>100.00%</b>	<b>1.01</b>

A screen-line analysis was another validation process that compares the screenline observed and simulated traffic volume discrepancies with the ODOT standard of maximum desirable deviation. The comparison shows that all screen-line volume deviations are below the ODOT desired maximum deviation curve indicating that the model replicates the traffic counts reasonably well. Table 6 shows the comparisons of model volumes and counts at the defined screen-lines. The model volume deviations are included and compared with the ODOT desired maximum volume deviations.

**Table 6 - Screen-line summary**

Screenline	Counts	Volumes	Deviation Model vs. Counts	ODOT Desired Max Deviation
A	279,670	327,806	17.0%	19.0%
B	378,690	336,374	11.0%	17.4%
C	83,420	75,386	10.0%	26.7%
D	435,260	398,202	9.0%	16.8%
E	566,520	548,249	3.0%	15.6%
F	317,660	331,037	4.0%	18.3%
G	278,530	313,929	13.0%	19.0%
H	215,590	223,015	3.0%	20.4%
I	812,410	772,100	5.0%	14.1%
J	225,590	229,771	2.0%	20.2%



Screenline	Counts	Volumes	Deviation Model vs. Counts	ODOT Desired Max Deviation
K	637,210	624,958	2.0%	15.1%
L	147,820	168,218	14.0%	22.7%
M	228,830	199,518	13.0%	20.1%
N	372,380	367,001	1.0%	17.5%
O	440,910	423,333	4.0%	16.7%
P	243,550	247,638	2.0%	19.8%
Q	17,040	21,927	29.0%	41.8%
R	127,950	118,828	7.0%	23.7%
S	214,150	255,406	19.0%	20.5%
T	36,370	45,384	25.0%	33.7%
U	11,410	10,239	10.0%	46.8%
V	126,400	148,991	18.0%	23.8%
W	13,010	11,972	8.0%	45.1%
X	59,360	60,746	2.0%	29.4%
Y	60,490	61,817	2.0%	29.2%
Z	5,490	6,282	14.0%	57.5%

A complete discussion of the travel demand model validation is available in *OKI Activity-Based Travel Demand Model – Version 2.0 Validation Report*.

### Post-Model Processing

During post-processing, the loaded highway networks are used to generate VMT and speed distribution input for the MOVES. Model VMTs are first adjusted with the factors that were developed using 2019 county reported VMT and the model VMT estimates. Annual VMT by vehicle type by county is then developed using the Highway Performance Monitoring System (HPMS) data and the county vehicle registration data. VMT monthly, daily, and hourly fraction factors are estimated through the traffic counts from the permanent traffic count stations located in the OKI region. The speed bin input is generated from the model time-of-day travel time and speed.

### Emission Factor Models

OKI's conformity assessment utilized U.S.EPA's emission model MOVES4 to develop emissions for VOC's and NOx. The MOVES input files contain local parameters, developed through consultation with state partners, for temperature, fuel programs, fuel characteristics, and vehicle fleet composition. The local parameters are combined with the VMT and speed data from the OKI ABM to produce emission measured in grams for the appropriate analysis year. The methodologies incorporated into MOVES for estimating emissions are based on methods and research conducted by U.S.EPA. OKI's development of MOVES input values were guided by the U.S.EPA's document "*MOVES4 Technical Guidance: Using MOVES to Prepare Emission Inventories for State Implementation Plans and Transportation Conformity*", August 2023.

Table 7 summarizes the settings used in the MOVES run specification file. Table 8 lists the data and sources used in the MOVES County-Data Manager.

**Table 7 - MOVES Run specification file**

MOVES RunSpec Parameter	Settings
<b>MOVES4.0.1</b>	
<b>Scale</b>	County, Mass and/or Energy within a region and time span
<b>Time Span</b>	Year: model year
	Month: July
	Days: Weekday
	Hour: All hours of day selected
<b>Geographic Bounds</b>	Custom Domains for each county in Ohio (Butler, Clermont, Hamilton, Warren), Indiana (Dearborn), and Kentucky (Boone, Campbell, Kenton)
<b>Vehicles/Equipment</b>	All source types available for gasoline and diesel.
<b>Road Type</b>	All road types including off-network
<b>Pollutants and Processes</b>	VOC; hydrocarbons; Non-Methane Organic Gases; Total Organic Gases; Methane; CO; NO; NO <sub>2</sub> ; N <sub>2</sub> O; PM <sub>2.5</sub> Total; PM <sub>2.5</sub> : Composite NonECPM, Elemental Carbon, Organic Carbon, Sulfate Particulate; PM <sub>2.5</sub> – Brakewear Particulate; PM <sub>2.5</sub> – Tirewear Particulate; SO <sub>2</sub> ; Total Energy Consumption; Fossil Fuel Energy Consumption; Atmosphere CO <sub>2</sub> ; and CO <sub>2</sub> Equivalent
<b>Strategies</b>	Default
<b>General Output</b>	Units= grams, joules and miles
<b>Output Emissions</b>	Time = 24-Hour day, Geography = county, on-road emission by road type and source use type.
<b>Advanced Performance</b>	none

**Table 8 - MOVES County-Data manager data and sources**

MOVES County Data Manager	Data Source
<b>Source Type Population</b>	Local. County motor vehicle registration data from KYTC (2019) and ODOT (2014 and 2017). Dearborn County data are estimated through the vehicle and population distribution data in Butler County. Model year data are estimated through the population ratio between the Base and model years.
<b>Vehicle Type VMT</b>	Local. County DVMT (daily vehicle mile traveled, 2020) from ODOT, KYTC, and INDOT. Model year VMTs are estimated through the ratio between the observed and the data from OKI 2019 travel demand model. MonthVMTFraction, dayVMTFraction, and hourVMTFraction are estimated through the traffic counts from ODOT permanent traffic count stations in OKI region.

<b>I/M Programs</b>	No I/M Program for Kentucky and Indiana counties. Default setting for Ohio counties.
<b>Fuel Supply</b>	2016 year includes low RVP gasoline for Ohio and RFG for NKY. 2037 year uses default values.
<b>Meteorology Data</b>	Local. CVG airport average numbers from 1999 to 2019.
<b>Ramp Fraction</b>	Local. OKI travel demand model.
<b>Road Type Distribution</b>	Local. OKI travel demand model.
<b>Age Distribution</b>	Local. County vehicle age data from ODOT (2014 and 2017) and KYTC (2019). Future year distributions are estimated through EPA's vehicle age estimation tool.
<b>Average Speed Distribution</b>	Local. OKI travel demand model.

Complete MOVES input and output files are available electronically upon request.

## Mobile Emissions Inventory for the Ohio and Kentucky 2008 Ozone Maintenance Area

OKI's quantitative mobile inventory for ozone-forming emissions of volatile organic compounds (VOC) and oxides of nitrogen (NOx) in the Ohio, Kentucky, and Indiana portion of the ozone maintenance area are found in Tables 9 and 10. Daily VMT is provided in Table 11. Clinton County Ohio is outside of OKI's modeling area. Emissions and VMT for Clinton County Ohio were provided by the Ohio Department of Transportation (ODOT).

**Table 9 – Mobile Inventory of Volatile Organic Compound (VOC) Emissions (tons per day) for the Cincinnati Ohio, Kentucky, and Indiana 2008 Ozone Area**

County	State	2016 Base	2037 Maintenance
Butler	OH	5.23	1.96
Clermont	OH	3.12	1.28
Clinton	OH	0.30	0.22
Hamilton	OH	11.36	4.42
Warren	OH	3.35	1.62
<b>Ohio counties</b>		<b>23.36</b>	<b>9.52</b>
Boone	KY	1.47	0.81
Campbell	KY	0.75	0.35
Kenton	KY	1.52	0.74
<b>Kentucky counties</b>		<b>3.74</b>	<b>1.90</b>
Dearborn	IN	0.20	0.07
<b>Indiana counties</b>		<b>0.20</b>	<b>0.07</b>
<b>Total VOC</b>		<b>27.30</b>	<b>11.49</b>

**Table 10 – Mobile Inventory of Oxides of Nitrogen (NOx) Emissions (tons per day) for the Cincinnati Ohio, Kentucky, and Indiana 2008 Ozone Area**

County	State	2016 Base	2037 Maintenance
Butler	OH	9.84	1.47
Clermont	OH	6.02	0.89
Clinton	OH	0.26	0.12
Hamilton	OH	25.62	3.85
Warren	OH	9.32	1.68
<b>Ohio counties</b>		<b>51.05</b>	<b>8.02</b>
Boone	KY	6.07	0.97
Campbell	KY	2.05	0.26
Kenton	KY	5.15	0.76
<b>Kentucky counties</b>		<b>13.27</b>	<b>1.99</b>
Dearborn	IN	0.57	0.09
<b>Indiana counties</b>		<b>0.57</b>	<b>0.09</b>
<b>Total Nox</b>		<b>64.90</b>	<b>10.10</b>

**Table 11 – Daily Vehicle Miles Traveled for the Cincinnati Ohio, Kentucky, and Indiana 2008 Ozone Area**

County	State	2016 Base	2037 Maintenance
Butler	OH	7,366,094	7,860,333
Clermont	OH	4,877,897	5,300,998
Clinton	OH	1,903,974	2,219,284
Hamilton	OH	21,233,246	22,135,990
Warren	OH	6,651,621	7,757,371
<b>Ohio counties</b>		<b>42,032,831</b>	<b>45,273,975</b>
Boone	KY	4,108,576	5,055,706
Campbell	KY	1,963,936	2,144,665
Kenton	KY	3,993,527	4,482,631
<b>Kentucky counties</b>		<b>10,066,039</b>	<b>11,683,003</b>
Dearborn	IN	357,406	410,467
<b>Indiana counties</b>		<b>357,406</b>	<b>410,467</b>
<b>Total VMT</b>		<b>52,456,276</b>	<b>57,367,445</b>

## APPENDIX A – PROJECT LISTING

### Non-Exempt Projects Added to the 2037 Maintenance Year Transportation Network

Plan ID	TIP PID	Facility	Location	Description
<b>Non-Exempt Projects Identified for Ohio</b>				<b>Existing + Committed + OKI 2050 Metropolitan Transportation Plan Projects to be completed by 2037</b>
<b>Butler County</b>				
9635	115755	BUT North Hamilton Crossing	North side of Hamilton, crossing Great Miami River in area between SR 129 and N of Black St Bridge	New east-west route connecting NW Washington Blvd, US 127, SR 4, and SR 129 (Phases 1,2&3)
9965	113647	BUT IR 75 8.50	In the area of I-75 & Millikin Road in Liberty Twp	Evaluate and implement transportation improvements including new full I-75 interchange in the vicinity of Millikin Rd and associated I-75 widening
12163	115755 & 120771	North Hamilton Crossing - East Section	Fair Ave to SR 129	NHX East Section. New E/W route connecting NW Washington Blvd, US 127, SR 4, and SR 129
9637	115755 & 120771	North Hamilton Crossing - River Crossing	North B St to US 127	NHX River crossing. Replace Black St Bridge with a 5-lane structure with multi-use path and convert existing bridge to pedestrian, bicycle, and shuttle
46	115755 & 120771	North Hamilton Crossing - Central Section	US 127 to Fair Ave	NHX Central Section. New E/W route connecting NW Washington Blvd, US 127, SR 4, and SR 129
83	113647	I-75	Millikin Rd	New interchange at Millikin Rd
9613		Grand Blvd	SR 4 to Tylersville Rd	Add a two-way left turn lane, travel lane in each direction and multi-use trail
12009		NW Washington Widening	Eden Park Dr to Cleveland Ave	Widen from 2 to 5 lanes with a roundabout at Cleveland Ave and NW Washington
12157		SR 4	Crescentville Rd to Mulhauser Dr	Add SB Lane
12158		Symmes Rd	SR 4 to North Gilmore Rd	widen to 5 lanes
9658		Tylersville Rd	Grand Blvd to Bypass 4	Add TWLTL
<b>Clermont County</b>				

Plan ID	TIP PID	Facility	Location	Description
9556	114042	CLE US 52 4.67 New Richmond	US 52 from Front Street to just east of the Village of New Richmond corporation limit.	Convert four lanes of US 52 into two lanes and provide bike/ped path at former SB lanes. Convert intersections at Front, Sycamore, Walnut and Augusta Streets into roundabouts.
4363	103958	CLE CR 55 Overpass	Glen Este Withamsville Overpass over SR32	GEW Overpass over SR 32
12025		SR 32 & Herold Rd	Batavia Township/Village of Batavia	Elimination of at-grade intersection on LA highway - Creation of local access Rd connecting Herold Rd to the interchange at Batavia Rd to the east or Bauer Rd to the west
12023		SR 32	Dela Palma to Herold	Construction of grade separated intersections
<b>Hamilton County</b>				
9787	114606	WAR CR 4 3.09 Fields Ertel Rd	Between Snider Road and Wilkens Boulevard	Widen from two to five lanes and new sidewalk. Improve intersection at Wilkens Blvd by extending turn lanes and upgrading signal
9956	115417	HAM IR 275 28.69	IR 275 from US 42 to SR 28	Implement Smart Lane by installing DMS and variable speed limit signs EB from US42 to SR28 & WB from SR28 to Loveland-Madeira. Identify capacity improvements at I-75 interchange.
307	117525	HAM IR 75 8.91	From Regina Graeter Way to SR 126/Galbraith Rd. area	Phase 8C of the Mill Creek Expressway Project. Project will widen for additional through lanes, rehabilitate existing pavement and bridges. Complete minor improvements to the Paddock Road interchange.
9968	89077	IR 71	Part of the Brent Spence Bridge project	Ohio's share of design and construction of the new Ohio River Bridge
314	117167	HAM IR 75 10.40	Galbraith Road to Shepard Lane	Add a fourth lane, construct C-D for Galbraith/Anthony Wayne and SB IR75 to WB SR126 ramp and unify both directions of IR75 onto existing SB alignment.
9968	114161	HAM IR 75 1.95	Findlay Street to just south of Marshall Avenue	Reconstruction of I-75. This is the northern end of the BSB Corridor Project. Project includes the construction of new interchange on I-75 to connect the new Western Hills Viaduct
314	88132	IR 75	Between Galbraith Rd and Shepherd Ln, SB only	Phase 5 of the Thru the Valley Project-add 4th lane (includes part of Phase 7)

Plan ID	TIP PID	Facility	Location	Description
314	88133	IR 75	Between Galbraith Rd and Shepherd Ln, NB only	Phase 6 of the Thru the Valley Project--add 4th lane and auxiliary lane (includes part of Phase 7)
314	88124	HAM IR 75 10.10	1010 Bridge over Mill creek to Galbraith Road (phase 3)	Phase 3 of the Thru the Valley Project--add 4th lane in each direction and associated improvements
307	77889	HAM IR 75 7.85	Begin south of SR562 interchange and at the SR126 interchange, 7.85 to 10.30	Phase 8 of the Mill Creek Expressway Project. Project will widen for additional through lanes, rehabilitate existing pavement and bridges. Reconstruct SR 562 interchange, remove the Towne Ave. inter
9930	115976	HAM SR 32 4.34	From west of Round Bottom Road to the eastern Newtown corp. limit	Create 2 SB left turn lanes at Round Bottom, widen SR32 to provide 2 receiving lanes w/ new lane ending as RTL at Little Dry Run. Widen for TWLTL along SR32 from Little Dry Run. Add shared use path.
12053	118472	I-74	I 74 and Dry Fork Interchange	Improve interchange to address congestion issues and future development.
9956	115417	TSMO Corridor 11: I-275 28.69 Smart Lane (PID 115417)	US 42 in Hamilton County to SR 28 in Clermont County	Capacity improvements to the I-71 and I-275 interchange, addition of a smart lane (hard shoulder running) in both directions of I-275 with variable speed limits to increase capacity
9974	117167	I-75	Galbraith Rd to Shepherd Lane PID117167	Add lane to I-75 and unification of NB and SB I-75 onto the current SB alignment
23	119436	I-75	SR 562 to SR 126	Widening and associated improvements
9702		Reading Rd (US 42)	Victory Pky to Reading Corp Line	Provide 5 lanes, intersection and pedestrian improvements. Project to improve efficiency and capacity.
9704		Wooster Rd	Beechmont Ave to 5163 Wooster Rd	Part of the Eastern Corridor. Add center turn lane. Geometric improvements to improve efficiency and capacity.
9953		I-71	Ronald Reagan Cross County Highway to Pfeiffer	Construct a NB auxiliary lane from Ronald Reagan Cross County Highway to Pfeiffer interchange
9954		TSMO Corridor 9: Smart Lane I-71	McMillan Ave to I-275	Install hard shoulder running (HSR) smart lane with fiber, DMS, cameras, poles, and power on I-71 from McMillan Ave to I-275.
12050		I-75	I-275 Interchange to Union Centre Blvd	Construction of a flyover ramp from SB I 75 to EB 275 to eliminate weaving movements at the interchange, and addition

Plan ID	TIP PID	Facility	Location	Description
				of an additional NB auxiliary lane from I 75 to Union Centre Boulevard to increase capacity.
12075		SORTA Glenway Ave and Montgomery Rd BRT	Glenway Ave and Montgomery Rd corridors	The planning and implementation of next 2 Bus Rapid Transit Routes routes. FTA locally preferred alternative (LPA) Process.
12049		SR 32	Roundbottom Rd Intersection	Capacity improvements to the intersection of SR 32 with Roundbottom Rd by adding turn lanes and an additional through lane EB on SR 32. Bike and ped facilities included in the preferred alternative.
12054		I-74	I 74 in the overlap section with I 275	Widen from 6 to 8 lanes to improve capacity
12055		I-275	US 52 to Five Mile Rd	Widen bifurcated section from 4 to 6 lanes
12149		Loveland Madeira Rd	I-275 to Loveland Corp	Roadway widening for additional lanes, improvements to side Rds
<b>Warren County</b>				
9946		US 22/SR 3	From Creekwoods to Willow Pond	Widen US 22/SR 3, includes bridge
10035		SR 48	Mason-Morrow-Millgrove Rd to Ridgeview	Widen by one lane in each direction, exclude bridge over Little Miami River
10037		SR 63	SR 741 to 1500 LF East of McClure Rd	Widen from 2 to 3 lanes including TWTL
10976		TSMO Corridor 10: Smart Lane I-71	I-71 NB from I-275 to SR 48	Implement smart lane I-275 to SR 48
12156		I-75	Greentree Rd	New interchange at Greentree Rd
11		Gateway Blvd	SR 63 north to Union Rd	Upgrade SR 63 and Union Rd intersection. Construct 5 lane extension on new alignment
10030		US 22/SR 3	Lakeshore Dr to West Rd	Add one lane each direction
10031		US 22/SR 3	West Rd to Zoar Rd	Add one lane each direction
10044		SR 741	SR 63 to Greentree Rd	Widen by one lane each direction and continuous left turn lane



Plan ID	TIP PID	Facility	Location	Description
10051		King Ave (Kings Mills Rd)	Columbia Rd to Oak St	Add one lane each direction
10064		Glosser Rd Extension	Glosser Rd from US 42 to Kingsview Dr	Widening and extension (2.5 miles)
12102		US 42	Mason Montgomery to Hanover	St Reconstruction, RAB improvements, add MUP

Plan ID	TIP PID	Facility	Location	Description
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**Existing + Committed + OKI 2050 Metropolitan Transportation Plan Projects to be completed by 2037**

**Non-Exempt Projects Identified for Kentucky**

Boone County				
4662	6-446	Mall Road Connector Ph 1&2	Between KY 237 (Pleasant Valley Rd) and KY 3157 (Mall Rd)/I-75 Interchange	Provide east-west connectivity and improved mobility
9584	6-80207	CR 1001 (Camp Ernst Rd)	Pleasant Valley Rd (KY 237) to Hathaway Rd (KY 536)	Improve safety and mobility, reduce congestion and address geometric deficiencies
11281	6-80212	IR 71	from the interchange of I-75 to Boone-Gallatin County Line	Widen I-71 to 6 lanes
9903	6-80000	KY 237 (Gunpowder Rd)	KY 536 to US 42	Reconstruction and major widening
11002	6-80150	KY 717	KY 1017 to KY 236	Major widening
9881	6-447	US 25	Winning Colors Drive to the Norfolk Southern RR x-ing south of KY 1829	Improve mobility and reduce congestion on US 25 from Winning Colors Drive to the Norfolk Southern Railroad Crossing south of KY 1829 (Industrial Road); excludes grade separation at KY 536
4		US 25 (Dixie Hwy)	Winning Colors Dr to the Norfolk Southern RR crossing south of KY 1829	Widen to 2 lanes each direction with TWLTL
18		KY 1017 and KY 717	KY 1017 (Turfway Rd) and KY 717 (Thoroughbred Blvd)	Convert Turfway Rd. and Thoroughbred Blvd from 2-way to one way pair couplet and modify I-71/I-75 access. 6-80100

Plan ID	TIP PID	Facility	Location	Description
9584		Camp Ernst Rd	KY 536 to KY 237	Improve safety & mobility, reduce congestion and address geometric deficiencies along Camp Ernst Rd (CR 1001) from KY 237 (Pleasant Valley Rd) to KY 536 (Hathaway Rd). 6-80207
11968		I-71	I-75 to Boone/Gallatin County Line	Widen from 2 to 3 lanes each direction
37		KY 717	KY 236 (Donaldson Hwy) to KY 3076	Widening. 6-80150
10		KY 20	Graves Rd to KY 237 (North Bend Rd)	Widen to 2 lanes each direction
9575		Bullittsville Rd	Conrad Lane to KY 20 (Petersburg Rd)	Widen Bullittsville Rd from two to four lanes with multi-use path to improve mobility in northern Boone County
9887		US 25	Logistics Dr to KY 14 (Mary Grubbs)	Widen US 25 from two to four lanes with multi-use path to reduce congestion and support economic development.
11975		Litton Lane Extension	Existing Litton Lane to Graves Rd	Provide a two-lane extension of existing Litton Lane to Graves Rd that includes a multi-use path.
11977		KY 536 Hathaway Rd Reconstruction	Old Union Rd to Camp Ernst Rd	Add TWLTL and multi-use path. 6-80358
11985		KY 3076 (Mineola Pk)	South Airfield Dr KY 3076 (Mineola Pike) & KY 236 (Donaldson Highway)	Extend KY 3076 (Mineola Pike) approximately 0.5 miles to provide a new, four lane direct connection from the Cincinnati/Northern Kentucky International Airport to I-275. Extend KY 3076 (Mineola Pike) south approximately 1.15 miles to KY 1017 (Aero Pkwy) along a new four lane facility. Reconstruct a portion of KY 717 (Turfway Rd) to intersect with the new Rdway. Construct a multi-use path as part of the CVG Loop Trail.
11989		Hangar Row Rd	New/Improved Rdway connecting Limaburg Rd to KY 18. Phase I.	Phase I: Widen Limaburg / Youell Rd from Gateway to Site. Includes turn lanes and intersection improvements on KY 237 and Limaburg Rd at Gateway Blvd
11990		Hangar Row Rd	New/Improved Rdway connecting Limaburg Rd to KY 18. Phase II:	New Rdway from (new) Youell Rd to KY 18, via widened Limaburg Creek Rd.
10008		TSMO Corridor 3: Dixie Hwy Enhanced Bus	Pike St to Ewing Blvd	Create a 9.5 mile high-frequency, enhanced bus transit corridor on US-25 (Dixie Hwy) from Pike St. to Ewing Blvd., with improved bus stop/station design and amenities. Add wireless

Plan ID	TIP PID	Facility	Location	Description
		Transit Corridor		interconnect, 6 -20 signals suburban, adaptive, transit signal preemption, adaptive signals.
7		KY 20 (Petersburg Rd)	KY 237 (North Bend Rd) to Conner Rd	Add TWLTL
19		US 25 (Dixie Hwy)	KY 338 to KY 16	Add TWLTL and MUP. 6-80316
9586		KY 14	I-71 to US 42	Reconstruct KY 14 (Verona Mudlick Rd) from I 71 to US 42
11969		KY 18	KY 842 and Mall Rd	Paired Grade-Separated Intersections along KY 18 at KY 842 and Mall Rd.
11973		Gateway Boulevard Extension	Bullittsville Rd to Gateway Boulevard	Extend Gateway Boulevard to Bullittsville Rd along a new, two-lane facility with multi-use path to improve east-west mobility.
11982		I-71	New interchange near M.P. 74 (Stephenson Mill)	Construct new full-service Interchange for mobility and economic development
11988		Boone County Central Pkwy	KY 536 south to Verona	Construct a Central Pkwy to improve mobility through Boone County. The route should connect Camp Ernst Rd from KY 536 to Verona.
11991		North Cargo Rd	Phase I: Rdway Widening on Loomis Rd and Whitson Dr from KY 236 to Kentucky 20	Rdway Widening Extension
11992		North Cargo Rd	Phase II: From Whitson Dr to an undeveloped parcel on CVG campus	Expand tunnel under taxiway A for access to CVG infield for freight development
<b>Campbell County</b>				
5027	6-8105.06	I-275/AA Connector	Johns Hill Road to AA Highway (KY 9)	New road connecting the AA highway to end of new construction just south of John's Hill Rd
5027	6-8105.07	I-275/AA Connector	Johns Hill Road to AA Highway (KY 9)	New road connecting the AA highway to end of new construction just south of John's Hill Rd (D under 6-8105.06)
335	6-352	KY 536	US 27 to AA Highway (KY 9)	Extension of existing roadway
9880		New KY 915	South of John's Hill Rd	Construct a new connector road from KY 9 to the end of the new construction just south of John's Hill Rd (KY 2345). 6-8105.07

Plan ID	TIP PID	Facility	Location	Description
12017		US 27	KY 709	Construct a southbound truck climbing lane on US 27 and a right turn lane on US 27 to KY 709. 6-80314
29		KY 9	EB I-275 Ramp to Rosewood Dr	Add SB Lane from EB I-275 ramp to near Rosewood Dr
12015		I-471	From US 27 to Ohio State Line	Reduce congestion along the I 471 corridor from US 27 to Ohio State Line. 6-81
<b>Kenton County</b>				
701	6-17.00	IR 75	Brent Spence Bridge Corridor Project	Initiate Preliminary Engineering, environmental studies and other preconstruction activities to upgrade the I-75/71 Brent Spence Bridge Corridor. Construction under PID 116649
9866	6-162.40	KY 536	Williamswood Rd/Calvary Drive to KY 17	Improve safety and reduce congestion, widen to 2 lanes each direction on new alignment
9910	6-1086	4th Street Bridge (KY 8)	Over Licking River on West 4th Street in Covington/Newport at Kenton/Campbell line	Address deficiencies of bridge, additional lane WB
5028	6-162.10	KY 1303	KY 536 to Beechgrove Elementary	Reconstruct and widen to four lanes and center turn lane
9905	6-80203	KY 536	KY 16 to Campbell County Line	Reconstruct to a 4-lane urban section
9899		KY 536	KY 17 to Campbell County Line	Reconstruct KY 536 to a 4-lane urban section from KY 17 to the Campbell County line.
9833		I-75	Bracht Piner / Eads Rd interchange. MP 168-169	Construct new full-service interchange for mobility and economic development
41		KY 536	Williamswood Rd/Calvary Dr to KY 17	Widen to 2 lanes each direction on new alignment
43		KY 536	KY 17 to KY 16	Widen to 2 lanes each direction on new alignment
9902		KY 842	Boone County line to KY 1303	Improve safety and reduce congestion along KY 842 (Richardson Rd) from Boone County line to KY 1303 (Turkeyfoot Rd)
12085		KY 2373 (Kenton Lands Rd)	US 25 to Riggs Rd	Widen Kenton Lands Rd from US 25 to Riggs Rd. 6-80105
12090		Thomas More Pkwy	Turkeyfoot to Horsebranch Rd	Widen from mostly 3 lanes (including center turn lane) to four lanes

Plan ID	TIP PID	Facility	Location	Description
12164		KY 16	Boone Co line to KY 2043	Widen KY 16 to improve safety and mobility and support economic development

Plan ID	TIP PID	Facility	Location	Description
<b>Non-Exempt Projects Identified for Indiana</b>				<b>Existing + Committed + OKI 2050 Metropolitan Transportation Plan Projects to be completed by 2037</b>
<b>Dearborn County</b>				
39		SR 1	US-50 to Ridge Ave	Realign and add a lane each direction

## **Appendix C – Monitoring Data**

User ID: JNALL

DESIGN VALUE REPORT

Report Request ID: 2250929

Report Code: AMP480

Jan. 2, 2025

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	21	015									
	21	037	3002								
	39	017									
	39	025									
	39	027									
	39	061									
	39	165									

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
DESIGN VALUE	44201		

SELECTED OPTIONS

Option Type	Option Value
SINGLE EVENT PROCESSING	EXCLUDE REGIONALLY CONCURRED EVENTS
MERGE PDF FILES	YES
AGENCY ROLE	PQAO
USER SITE METADATA	STREET ADDRESS
QUARTERLY DATA IN WORKFILE	NO
WORKFILE DELIMITER	,
USE LINKED SITES	YES

DATE CRITERIA

Start Date	End Date
2008	2023

APPLICABLE STANDARDS

Standard Description
Ozone 8-hour 2015

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jan. 2, 2025

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2008

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2008				Cert& Eval	2007				Cert& Eval	2006				Cert& Eval	3 - Year		
		Valid Days	Percent Complete	4th Max			Valid Days	Percent Complete	4th Max			Valid Days	Percent Complete	4th Max			Percent Complete	Design Value	D. V. Validity
21-015-0008	9101 Camp Ernst Rd	240	98	.064	Y	243	99	.078	U	243	99	.071	U	99	.071	Y			
21-037-3002	524A JOHN'S HILL ROAD	241	98	.075	Y	122	50	.086 *	U				*	49	.080	N			

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jan. 2, 2025

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2009

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2009				2008				2007				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-015-0008	9101 Camp Ernst Rd	240	98	.064	U	240	98	.064	Y	243	99	.078	U	98	.068	Y
21-037-3002	524A JOHN'S HILL ROAD	243	99	.068	U	241	98	.075	Y	122	50	.086*	U	82	.076	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jan. 2, 2025

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2010

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2010				2009				2008				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-015-0008	9101 Camp Ernst Rd	244	100	.067	U	240	98	.064	U	240	98	.064	Y	99	.065	Y
21-037-3002	524A JOHN'S HILL ROAD	237	97	.073	U	243	99	.068	U	241	98	.075	Y	98	.072	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jan. 2, 2025

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2011

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2011				2010				2009				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-015-0008	9101 Camp Ernst Rd	238	97	.070	U	244	100	.067	U	240	98	.064	U	98	.067	Y
21-037-3002	524A JOHN'S HILL ROAD	242	99	.080	U	237	97	.073	U	243	99	.068	U	98	.073	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jan. 2, 2025

Pollutant: Ozone(44201)

Standard Units: Parts per million(007)

NAAQS Standard: Ozone 8-hour 2015

Statistic: Annual 4th Maximum Level: .07

Design Value Year: 2012

REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

State: Kentucky

Site ID	Poc STREET ADDRESS	2012				2011				2010				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-015-0008	9101 Camp Ernst Rd	244	100	.074	Y	238	97	.070	U	244	100	.067	U	99	.070	Y
21-037-3002	524A JOHN'S HILL ROAD	242	99	.084	Y	242	99	.080	U	237	97	.073	U	98	.079	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jan. 2, 2025

**Pollutant:** Ozone(44201)  
**Standard Units:** Parts per million(007)  
**NAAQS Standard:** Ozone 8-hour 2015  
**Statistic:** Annual 4th Maximum

**Design Value Year:** 2013

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**Level:** .07

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2013				Cert& Eval	2012				Cert& Eval	2011				Cert& Eval	3 - Year		
		Valid Days	Percent Complete	4th Max			Valid Days	Percent Complete	4th Max			Valid Days	Percent Complete	4th Max			Percent Complete	Design Value	D. V. Validity
21-015-0008	9101 Camp Ernst Rd	243	99	.059	Y	244	100	.074	Y	238	97	.070	U	99	.067	Y			
21-037-3002	524A JOHN'S HILL ROAD	243	99	.072	Y	242	99	.084	Y	242	99	.080	U	99	.078	Y			

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jan. 2, 2025

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2014

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2014				2013				2012				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-015-0008	9101 Camp Ernst Rd	244	100	.062	Y	243	99	.059	Y	244	100	.074	Y	100	.065	Y
21-037-3002	524A JOHN'S HILL ROAD	240	98	.071	Y	243	99	.072	Y	242	99	.084	Y	99	.075	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jan. 2, 2025

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2015

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2015				2014				2013				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-015-0008	9101 Camp Ernst Rd	242	99	.062	Y	244	100	.062	Y	243	99	.059	Y	99	.061	Y
21-037-3002	524A JOHN'S HILL ROAD	243	99	.071	Y	240	98	.071	Y	243	99	.072	Y	99	.071	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jan. 2, 2025

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2016

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2016				2015				2014				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-015-0008	9101 Camp Ernst Rd	240	98	.065	Y	242	99	.062	Y	244	100	.062	Y	99	.063	Y
21-037-3002	524A JOHN'S HILL ROAD	243	99	.069	Y	243	99	.071	Y	240	98	.071	Y	99	.070	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
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  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jan. 2, 2025

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2017

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2017				2016				2015				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-015-0008	9101 Camp Ernst Rd	221	90	.060	Y	240	98	.065	Y	242	99	.062	Y	96	.062	Y
21-037-3002	524A JOHN'S HILL ROAD	227	93	.068	Y	243	99	.069	Y	243	99	.071	Y	97	.069	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jan. 2, 2025

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2018

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2018				2017				2016				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-015-0008	9101 Camp Ernst Rd	241	98	.068	S	221	90	.060	Y	240	98	.065	Y	95	.064	Y
21-037-3002	524A JOHN'S HILL ROAD	239	98	.066	S	227	93	.068	Y	243	99	.069	Y	97	.067	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jan. 2, 2025

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2019

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2019				2018				2017				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-015-0008	9101 Camp Ernst Rd	237	97	.062	Y	241	98	.068	S	221	90	.060	Y	95	.063	Y
21-037-3002	524A JOHN'S HILL ROAD	237	97	.062	Y	239	98	.066	S	227	93	.068	Y	96	.065	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jan. 2, 2025

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2020

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2020				2019				2018				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-015-0008	9101 Camp Ernst Rd	239	98	.062	Y	237	97	.062	Y	241	98	.068	S	98	.064	Y
21-037-3002	524A JOHN'S HILL ROAD	237	97	.063	Y	237	97	.062	Y	239	98	.066	S	97	.063	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jan. 2, 2025

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2021

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2021				Cert& Eval	2020				Cert& Eval	2019				Cert& Eval	3 - Year		
		Valid Days	Percent Complete	4th Max			Valid Days	Percent Complete	4th Max			Valid Days	Percent Complete	4th Max			Percent Complete	Design Value	D. V. Validity
21-015-0008	9101 Camp Ernst Rd	243	99	.061	Y	239	98	.062	Y	237	97	.062	Y	98	.061	Y			
21-037-3002	524A JOHN'S HILL ROAD	237	97	.064	Y	237	97	.063	Y	237	97	.062	Y	97	.063	Y			

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jan. 2, 2025

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2022

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2022				2021				2020				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-015-0008	9101 Camp Ernst Rd	196	80	.066	Y	243	99	.061	Y	239	98	.062	Y	92	.063	Y
21-037-3002	524A JOHN'S HILL ROAD	239	98	.062	Y	237	97	.064	Y	237	97	.063	Y	97	.063	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jan. 2, 2025

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2023

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2023				2022				2021				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-015-0008	9101 Camp Ernst Rd	244	100	.077	Y	196	80	.066	Y	243	99	.061	Y	93	.068	Y
21-037-3002	524A JOHN'S HILL ROAD	236	96	.066	Y	239	98	.062	Y	237	97	.064	Y	97	.064	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jan. 2, 2025

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Design Value Year:** 2008

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**Statistic:** Annual 4th Maximum      **Level:** .07

**State:** Ohio

Site ID	Poc STREET ADDRESS	2008				2007				2006				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
39-017-0018	1707 Runway Drive, Room #4	204	95	.079	Y	213	100	.091	U	213	100	.076	Y	98	.082	Y
39-017-0023	2200 HENSLEY AVE.	209	98	.071	Y	213	100	.091	U	212	99	.079	Y	99	.080	Y
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	0			* X	0			* X	0			* X			N
39-025-0022	2400 CLERMONT CENTER DR.	207	97	.071	Y	209	98	.086	U	212	99	.077	Y	98	.078	Y
39-027-1002	300 Oak Drive Wilmington, 45177	208	97	.076	Y	213	100	.082	U	213	100	.081	Y	99	.079	Y
39-061-0006	11590 GROOMS RD	209	98	.086	Y	207	97	.089	U	213	100	.081	Y	98	.085	Y
39-061-0010	6950 RIPPLE RD.	206	96	.077	Y	213	100	.086	U	213	100	.081	Y	99	.081	Y
39-061-0040	250 WM. HOWARD TAFT	211	99	.080	Y	210	98	.086	U	213	100	.078	Y	99	.081	Y
39-165-0007	430 S EAST ST.	205	96	.082	Y	213	100	.088	U	213	100	.086	Y	99	.085	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jan. 2, 2025

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Design Value Year:** 2009

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**Statistic:** Annual 4th Maximum **Level:** .07

**State:** Ohio

Site ID	Poc STREET ADDRESS	2009				2008				2007				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
39-017-0018	1707 Runway Drive, Room #4	213	100	.076	U	204	95	.079	Y	213	100	.091	U	98	.082	Y
39-017-0023	2200 HENSLEY AVE.	210	98	.073	U	209	98	.071	Y	213	100	.091	U	99	.078	Y
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	0			* X	0			* X	0			* X			N
39-025-0022	2400 CLERMONT CENTER DR.	213	100	.069	U	207	97	.071	Y	209	98	.086	U	98	.075	Y
39-027-1002	300 Oak Drive Wilmington, 45177	209	98	.070	U	208	97	.076	Y	213	100	.082	U	98	.076	Y
39-061-0006	11590 GROOMS RD	210	98	.072	U	209	98	.086	Y	207	97	.089	U	98	.082	Y
39-061-0010	6950 RIPPLE RD.	174	81	.065	U	206	96	.077	Y	213	100	.086	U	92	.076	Y
39-061-0040	250 WM. HOWARD TAFT	210	98	.074	U	211	99	.080	Y	210	98	.086	U	98	.080	Y
39-165-0007	430 S EAST ST.	213	100	.077	U	205	96	.082	Y	213	100	.088	U	99	.082	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jan. 2, 2025

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Design Value Year:** 2010

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**Statistic:** Annual 4th Maximum      **Level:** .07

**State:** Ohio

Site ID	Poc STREET ADDRESS	2010				2009				2008				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
39-017-0018	1707 Runway Drive, Room #4	211	99	.080	U	213	100	.076	U	204	95	.079	Y	98	.078	Y
39-017-0023	2200 HENSLEY AVE.	213	100	.077	U	210	98	.073	U	209	98	.071	Y	99	.073	Y
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	0			* X	0			* X	0			* X			N
39-025-0022	2400 CLERMONT CENTER DR.	213	100	.075	U	213	100	.069	U	207	97	.071	Y	99	.071	Y
39-027-1002	300 Oak Drive Wilmington, 45177	212	99	.076	U	209	98	.070	U	208	97	.076	Y	98	.074	Y
39-061-0006	11590 GROOMS RD	213	100	.080	U	210	98	.072	U	209	98	.086	Y	99	.079	Y
39-061-0010	6950 RIPPLE RD.	210	98	.079	U	174	81	.065	U	206	96	.077	Y	92	.073	Y
39-061-0040	250 WM. HOWARD TAFT	214	100	.075	U	210	98	.074	U	211	99	.080	Y	99	.076	Y
39-165-0007	430 S EAST ST.	213	100	.076	U	213	100	.077	U	205	96	.082	Y	99	.078	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jan. 2, 2025

**Pollutant:** Ozone(44201)  
**Standard Units:** Parts per million(007)  
**NAAQS Standard:** Ozone 8-hour 2015

**Design Value Year:** 2011

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**Statistic:** Annual 4th Maximum      **Level:** .07

**State:** Ohio

Site ID	Poc STREET ADDRESS	2011				Cert& Eval	2010				Cert& Eval	2009				3 - Year Percent Complete	Design Value	D. V. Validity
		Valid Days	Percent Complete	4th Max			Valid Days	Percent Complete	4th Max			Valid Days	Percent Complete	4th Max				
39-017-0018	1707 Runway Drive, Room #4	213	100	.082	U	211	99	.080	U	213	100	.076	U	100	.079	Y		
39-017-0023	2200 HENSLEY AVE.	213	100	.078	U	213	100	.077	U	210	98	.073	U	99	.076	Y		
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	173	81	.079	U	0			* X	0			* X	27	.079	N		
39-025-0022	2400 CLERMONT CENTER DR.	212	99	.082	U	213	100	.075	U	213	100	.069	U	100	.075	Y		
39-027-1002	300 Oak Drive Wilmington, 45177	213	100	.084	U	212	99	.076	U	209	98	.070	U	99	.076	Y		
39-061-0006	11590 GROOMS RD	211	99	.088	U	213	100	.080	U	210	98	.072	U	99	.080	Y		
39-061-0010	6950 RIPPLE RD.	209	98	.078	U	210	98	.079	U	174	81	.065	U	92	.074	Y		
39-061-0040	250 WM. HOWARD TAFT	213	100	.085	U	214	100	.075	U	210	98	.074	U	99	.078	Y		
39-165-0007	430 S EAST ST.	211	99	.082	U	213	100	.076	U	213	100	.077	U	100	.078	Y		

- Notes:**
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jan. 2, 2025

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2012

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Ohio

Site ID	Poc STREET ADDRESS	2012				Cert& Eval	2011				2010				3 - Year		
		Valid Days	Percent Complete	4th Max			Valid Days	Percent Complete	4th Max		Valid Days	Percent Complete	4th Max		Percent Complete	Design Value	D. V. Validity
39-017-0018	1707 Runway Drive, Room #4	202	94	.084	Y	213	100	.082	U	211	99	.080	U	98	.082	Y	
39-017-0023	2200 HENSLEY AVE.	213	100	.083	Y	213	100	.078	U	213	100	.077	U	100	.079	Y	
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	199	93	.085	Y	173	81	.079	U	0			* X	58	.082	N	
39-025-0022	2400 CLERMONT CENTER DR.	211	99	.091	Y	212	99	.082	U	213	100	.075	U	99	.082	Y	
39-027-1002	300 Oak Drive Wilmington, 45177	213	100	.086	Y	213	100	.084	U	212	99	.076	U	100	.082	Y	
39-061-0006	11590 GROOMS RD	206	96	.087	Y	211	99	.088	U	213	100	.080	U	98	.085	Y	
39-061-0010	6950 RIPPLE RD.	186	87	.083	Y	209	98	.078	U	210	98	.079	U	94	.080	Y	
39-061-0040	250 WM. HOWARD TAFT	213	100	.082	Y	213	100	.085	U	214	100	.075	U	100	.080	Y	
39-165-0007	430 S EAST ST.	213	100	.080	Y	211	99	.082	U	213	100	.076	U	100	.079	Y	

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jan. 2, 2025

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2013

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Ohio

Site ID	Poc STREET ADDRESS	2013				Cert& Eval	2012				Cert& Eval	2011				3 - Year Percent Complete	Design Value	D. V. Validity
		Valid Days	Percent Complete	4th Max			Valid Days	Percent Complete	4th Max			Valid Days	Percent Complete	4th Max				
39-017-0018	1707 Runway Drive, Room #4	213	100	.068	U	202	94	.084	Y	213	100	.082	U	98	.078	Y		
39-017-0023	2200 HENSLEY AVE.	209	98	.068	U	213	100	.083	Y	213	100	.078	U	99	.076	Y		
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	203	95	.069	Y	199	93	.085	Y	173	81	.079	U	90	.077	Y		
39-025-0022	2400 CLERMONT CENTER DR.	211	99	.066	U	211	99	.091	Y	212	99	.082	U	99	.079	Y		
39-027-1002	300 Oak Drive Wilmington, 45177	212	99	.064	U	213	100	.086	Y	213	100	.084	U	100	.078	Y		
39-061-0006	11590 GROOMS RD	205	96	.069	U	206	96	.087	Y	211	99	.088	U	97	.081	Y		
39-061-0010	6950 RIPPLE RD.	207	97	.064	U	186	87	.083	Y	209	98	.078	U	94	.075	Y		
39-061-0040	250 WM. HOWARD TAFT	213	100	.069	U	213	100	.082	Y	213	100	.085	U	100	.078	Y		
39-165-0007	430 S EAST ST.	212	99	.067	U	213	100	.080	Y	211	99	.082	U	99	.076	Y		

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jan. 2, 2025

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2014

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Ohio

Site ID	Poc STREET ADDRESS	2014				2013				2012				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
39-017-0018	1707 Runway Drive, Room #4	210	98	.069	Y	213	100	.068	U	202	94	.084	Y	97	.073	Y
39-017-0023	2200 HENSLEY AVE.	212	99	.070	Y	209	98	.068	U	213	100	.083	Y	99	.073	Y
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	203	95	.069	Y	203	95	.069	Y	199	93	.085	Y	94	.074	Y
39-025-0022	2400 CLERMONT CENTER DR.	211	99	.068	Y	211	99	.066	U	211	99	.091	Y	99	.075	Y
39-027-1002	300 Oak Drive Wilmington, 45177	211	99	.070	Y	212	99	.064	U	213	100	.086	Y	99	.073	Y
39-061-0006	11590 GROOMS RD	208	97	.071	Y	205	96	.069	U	206	96	.087	Y	96	.075	Y
39-061-0010	6950 RIPPLE RD.	212	99	.073	Y	207	97	.064	U	186	87	.083	Y	94	.073	Y
39-061-0040	250 WM. HOWARD TAFT	213	100	.069	Y	213	100	.069	U	213	100	.082	Y	100	.073	Y
39-165-0007	430 S EAST ST.	213	100	.071	Y	212	99	.067	U	213	100	.080	Y	100	.072	Y

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jan. 2, 2025

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2015

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Ohio

Site ID	Poc STREET ADDRESS	2015				2014				2013				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
39-017-0018	1707 Runway Drive, Room #4	212	99	.070	Y	210	98	.069	Y	213	100	.068	U	99	.069	Y
39-017-0023	2200 HENSLEY AVE.	201	94	.070	Y	212	99	.070	Y	209	98	.068	U	97	.069	Y
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	188	88	.068	Y	203	95	.069	Y	203	95	.069	Y	93	.068	Y
39-025-0022	2400 CLERMONT CENTER DR.	210	98	.070	Y	211	99	.068	Y	211	99	.066	U	99	.068	Y
39-027-1002	300 Oak Drive Wilmington, 45177	213	100	.070	N	211	99	.070	Y	212	99	.064	U	99	.068	Y
39-061-0006	11590 GROOMS RD	209	98	.072	Y	208	97	.071	Y	205	96	.069	U	97	.070	Y
39-061-0010	6950 RIPPLE RD.	212	99	.070	Y	212	99	.073	Y	207	97	.064	U	98	.069	Y
39-061-0040	250 WM. HOWARD TAFT	211	99	.071	Y	213	100	.069	Y	213	100	.069	U	100	.069	Y
39-165-0007	430 S EAST ST.	213	100	.071	Y	213	100	.071	Y	212	99	.067	U	100	.069	Y

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jan. 2, 2025

**Pollutant:** Ozone(44201)  
**Standard Units:** Parts per million(007)  
**NAAQS Standard:** Ozone 8-hour 2015

**Design Value Year:** 2016

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**Statistic:** Annual 4th Maximum **Level:** .07

**State:** Ohio

Site ID	Poc STREET ADDRESS	2016				Cert& Eval	2015				2014				3 - Year		
		Valid Days	Percent Complete	4th Max	Design D. V.		Valid Days	Percent Complete	4th Max	Design D. V.	Valid Days	Percent Complete	4th Max	Design D. V.	Design D. V.	Validity	
39-017-0018	1707 Runway Drive, Room #4	210	98	.073	S	212	99	.070	Y	210	98	.069	Y	98	.070	Y	
39-017-0023	2200 HENSLEY AVE.	204	95	.076	S	201	94	.070	Y	212	99	.070	Y	96	.072	Y	
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	201	94	.071	Y	188	88	.068	Y	203	95	.069	Y	92	.069	Y	
39-025-0022	2400 CLERMONT CENTER DR.	211	99	.073	S	210	98	.070	Y	211	99	.068	Y	99	.070	Y	
39-027-1002	300 Oak Drive Wilmington, 45177	210	98	.071	S	213	100	.070	N	211	99	.070	Y	99	.070	Y	
39-061-0006	11590 GROOMS RD	211	99	.075	S	209	98	.072	Y	208	97	.071	Y	98	.072	Y	
39-061-0010	6950 RIPPLE RD.	211	99	.073	S	212	99	.070	Y	212	99	.073	Y	99	.072	Y	
39-061-0040	250 WM. HOWARD TAFT	212	99	.073	S	211	99	.071	Y	213	100	.069	Y	99	.071	Y	
39-165-0007	430 S EAST ST.	207	97	.074	S	213	100	.071	Y	213	100	.071	Y	99	.072	Y	

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jan. 2, 2025

**Pollutant:** Ozone(44201)  
**Standard Units:** Parts per million(007)  
**NAAQS Standard:** Ozone 8-hour 2015

**Design Value Year:** 2017

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**Statistic:** Annual 4th Maximum **Level:** .07

**State:** Ohio

Site ID	Poc STREET ADDRESS	2017				Cert& Eval	2016				Cert& Eval	2015				3 - Year Percent Complete	Design Value	D. V. Validity
		Valid Days	Percent Complete	4th Max			Valid Days	Percent Complete	4th Max			Valid Days	Percent Complete	4th Max				
39-017-0018	1707 Runway Drive, Room #4	244	100	.070	S	210	98	.073	S	212	99	.070	Y	99	.071	Y		
39-017-0023	2200 HENSLEY AVE.	244	100	.072	S	204	95	.076	S	201	94	.070	Y	96	.072	Y		
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	212	87	.069	Y	201	94	.071	Y	188	88	.068	Y	90	.069	Y		
39-025-0022	2400 CLERMONT CENTER DR.	240	98	.068	S	211	99	.073	S	210	98	.070	Y	98	.070	Y		
39-027-1002	300 Oak Drive Wilmington, 45177	244	100	.070	S	210	98	.071	S	213	100	.070	N	99	.070	Y		
39-061-0006	11590 GROOMS RD	244	100	.072	S	211	99	.075	S	209	98	.072	Y	99	.073	Y		
39-061-0010	6950 RIPPLE RD.	229	93	.068	S	211	99	.073	S	212	99	.070	Y	97	.070	Y		
39-061-0040	250 WM. HOWARD TAFT	365	100	.071	S	212	99	.073	S	211	99	.071	Y	99	.071	Y		
39-165-0007	430 S EAST ST.	240	98	.068	S	207	97	.074	S	213	100	.071	Y	98	.071	Y		

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jan. 2, 2025

**Pollutant:** Ozone(44201)  
**Standard Units:** Parts per million(007)  
**NAAQS Standard:** Ozone 8-hour 2015

**Design Value Year:** 2018

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**Statistic:** Annual 4th Maximum      **Level:** .07

**State:** Ohio

Site ID	Poc STREET ADDRESS	2018				2017				2016				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
39-017-0018	1707 Runway Drive, Room #4	243	99	.076	S	244	100	.070	S	210	98	.073	S	99	.073	Y
39-017-0023	2200 HENSLEY AVE.	233	95	.073	S	244	100	.072	S	204	95	.076	S	97	.073	Y
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	239	98	.070	Y	212	87	.069	Y	201	94	.071	Y	93	.070	Y
39-025-0022	2400 CLERMONT CENTER DR.	243	99	.069	S	240	98	.068	S	211	99	.073	S	99	.070	Y
39-027-1002	300 Oak Drive Wilmington, 45177	244	100	.067	S	244	100	.070	S	210	98	.071	S	99	.069	Y
39-061-0006	11590 GROOMS RD	241	98	.080	S	244	100	.072	S	211	99	.075	S	99	.075	Y
39-061-0010	6950 RIPPLE RD.	242	99	.075	S	229	93	.068	S	211	99	.073	S	97	.072	Y
39-061-0040	250 WM. HOWARD TAFT	361	99	.072	S	365	100	.071	S	212	99	.073	S	99	.072	Y
39-165-0007	430 S EAST ST.	238	97	.075	S	240	98	.068	S	207	97	.074	S	97	.072	Y

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jan. 2, 2025

**Pollutant:** Ozone(44201)  
**Standard Units:** Parts per million(007)  
**NAAQS Standard:** Ozone 8-hour 2015

**Design Value Year:** 2019

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**Statistic:** Annual 4th Maximum **Level:** .07

**State:** Ohio

Site ID	Poc STREET ADDRESS	2019				2018				2017				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
39-017-0018	1707 Runway Drive, Room #4	240	98	.067	Y	243	99	.076	S	244	100	.070	S	99	.071	Y
39-017-0023	2200 HENSLEY AVE.	244	100	.067	Y	233	95	.073	S	244	100	.072	S	98	.070	Y
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	230	94	.065	Y	239	98	.070	Y	212	87	.069	Y	93	.068	Y
39-025-0022	2400 CLERMONT CENTER DR.	241	98	.071	Y	243	99	.069	S	240	98	.068	S	98	.069	Y
39-027-1002	300 Oak Drive Wilmington, 45177	243	99	.065	Y	244	100	.067	S	244	100	.070	S	100	.067	Y
39-061-0006	11590 GROOMS RD	241	98	.072	Y	241	98	.080	S	244	100	.072	S	99	.074	Y
39-061-0010	6950 RIPPLE RD.	243	99	.067	Y	242	99	.075	S	229	93	.068	S	97	.070	Y
39-061-0040	250 WM. HOWARD TAFT	360	99	.071	Y	361	99	.072	S	365	100	.071	S	99	.071	Y
39-165-0007	430 S EAST ST.	235	96	.070	Y	238	97	.075	S	240	98	.068	S	97	.071	Y

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jan. 2, 2025

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2020

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Ohio

Site ID	Poc STREET ADDRESS	2020				2019				2018				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
39-017-0018	1707 Runway Drive, Room #4	235	96	.070	Y	240	98	.067	Y	243	99	.076	S	98	.071	Y
39-017-0023	2200 HENSLEY AVE.	243	99	.067	Y	244	100	.067	Y	233	95	.073	S	98	.069	Y
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	244	100	.064	Y	230	94	.065	Y	239	98	.070	Y	97	.066	Y
39-025-0022	2400 CLERMONT CENTER DR.	244	100	.064	Y	241	98	.071	Y	243	99	.069	S	99	.068	Y
39-027-1002	300 Oak Drive Wilmington, 45177	228	93	.062	Y	243	99	.065	Y	244	100	.067	S	97	.064	Y
39-061-0006	11590 GROOMS RD	242	99	.070	Y	241	98	.072	Y	241	98	.080	S	98	.074	Y
39-061-0010	6950 RIPPLE RD.	243	99	.070	Y	243	99	.067	Y	242	99	.075	S	99	.070	Y
39-061-0040	250 WM. HOWARD TAFT	355	97	.068	Y	360	99	.071	Y	361	99	.072	S	98	.070	Y
39-165-0007	430 S EAST ST.	244	100	.071	Y	235	96	.070	Y	238	97	.075	S	98	.072	Y

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jan. 2, 2025

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2021

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Ohio

Site ID	Poc STREET ADDRESS	2021				2020				2019				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
39-017-0018	1707 Runway Drive, Room #4	242	99	.064	Y	235	96	.070	Y	240	98	.067	Y	98	.067	Y
39-017-0023	2200 HENSLEY AVE.	234	96	.066	Y	243	99	.067	Y	244	100	.067	Y	98	.066	Y
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	241	98	.063	Y	244	100	.064	Y	230	94	.065	Y	97	.064	Y
39-025-0022	2400 CLERMONT CENTER DR.	241	98	.065	Y	244	100	.064	Y	241	98	.071	Y	99	.066	Y
39-027-1002	300 Oak Drive Wilmington, 45177	239	98	.062	Y	228	93	.062	Y	243	99	.065	Y	97	.063	Y
39-061-0006	11590 GROOMS RD	242	99	.070	Y	242	99	.070	Y	241	98	.072	Y	99	.070	Y
39-061-0010	6950 RIPPLE RD.	242	99	.064	Y	243	99	.070	Y	243	99	.067	Y	99	.067	Y
39-061-0040	250 WM. HOWARD TAFT	363	99	.069	Y	355	97	.068	Y	360	99	.071	Y	98	.069	Y
39-165-0007	430 S EAST ST.	244	100	.069	Y	244	100	.071	Y	235	96	.070	Y	99	.070	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jan. 2, 2025

**Pollutant:** Ozone(44201)  
**Standard Units:** Parts per million(007)  
**NAAQS Standard:** Ozone 8-hour 2015

**Design Value Year:** 2022

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**Statistic:** Annual 4th Maximum **Level:** .07

**State:** Ohio

Site ID	Poc STREET ADDRESS	2022				2021				2020				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
39-017-0018	1707 Runway Drive, Room #4	240	98	.067	Y	242	99	.064	Y	235	96	.070	Y	98	.067	Y
39-017-0023	2200 HENSLEY AVE.	243	99	.070	Y	234	96	.066	Y	243	99	.067	Y	98	.067	Y
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	220	90	.066	Y	241	98	.063	Y	244	100	.064	Y	96	.064	Y
39-025-0022	2400 CLERMONT CENTER DR.	235	96	.063	Y	241	98	.065	Y	244	100	.064	Y	98	.064	Y
39-027-1002	300 Oak Drive Wilmington, 45177	243	99	.064	Y	239	98	.062	Y	228	93	.062	Y	97	.062	Y
39-061-0006	11590 GROOMS RD	243	99	.069	Y	242	99	.070	Y	242	99	.070	Y	99	.069	Y
39-061-0010	6950 RIPPLE RD.	239	98	.068	Y	242	99	.064	Y	243	99	.070	Y	99	.067	Y
39-061-0040	250 WM. HOWARD TAFT	356	98	.067	Y	363	99	.069	Y	355	97	.068	Y	98	.068	Y
39-165-0007	430 S EAST ST.	243	99	.069	Y	244	100	.069	Y	244	100	.071	Y	100	.069	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jan. 2, 2025

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2023

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Ohio

Site ID	Poc STREET ADDRESS	2023				2022				2021				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
39-017-0018	1707 Runway Drive, Room #4	242	99	.071	Y	240	98	.067	Y	242	99	.064	Y	99	.067	Y
39-017-0023	2200 HENSLEY AVE.	242	99	.068	Y	243	99	.070	Y	234	96	.066	Y	98	.068	Y
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	241	98	.069	Y	220	90	.066	Y	241	98	.063	Y	95	.066	Y
39-025-0022	2400 CLERMONT CENTER DR.	244	100	.068	Y	235	96	.063	Y	241	98	.065	Y	98	.065	Y
39-027-1002	300 Oak Drive Wilmington, 45177	241	98	.074	Y	243	99	.064	Y	239	98	.062	Y	98	.066	Y
39-061-0006	11590 GROOMS RD	242	99	.073	Y	243	99	.069	Y	242	99	.070	Y	99	.070	Y
39-061-0010	6950 RIPPLE RD.	241	98	.073	Y	239	98	.068	Y	242	99	.064	Y	98	.068	Y
39-061-0040	250 WM. HOWARD TAFT	361	99	.075	Y	356	98	.067	Y	363	99	.069	Y	99	.070	Y
39-165-0007	430 S EAST ST.	243	99	.074	Y	243	99	.069	Y	244	100	.069	Y	99	.070	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: Jan. 2, 2025

CERTIFICATION EVALUATION AND CONCURRENCE FLAG MEANINGS

FLAG	MEANING
M	The monitoring organization has revised data from this monitor since the most recent certification letter received from the state.
N	The certifying agency has submitted the certification letter and required summary reports, but the certifying agency and/or EPA has determined that issues regarding the quality of the ambient concentration data cannot be resolved due to data completeness, the lack of performed quality assurance checks or the results of uncertainty statistics shown in the AMP255 report or the certification and quality assurance report.
S	The certifying agency has submitted the certification letter and required summary reports. A value of "S" conveys no Regional assessment regarding data quality per se. This flag will remain until the Region provides an "N" or "Y" concurrence flag.
U	Uncertified. The certifying agency did not submit a required certification letter and summary reports for this monitor even though the due date has passed, or the state's certification letter specifically did not apply the certification to this monitor.
X	Certification is not required by 40 CFR 58.15 and no conditions apply to be the basis for assigning another flag value
Y	The certifying agency has submitted a certification letter, and EPA has no unresolved reservations about data quality (after reviewing the letter, the attached summary reports, the amount of quality assurance data submitted to AQS, the quality statistics, and the highest reported concentrations).

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').



# **Appendix D – Interagency Consultation Group Meeting Transcription**

# Transcript of IAC Discussion:

## Kentucky 2037 Motor Vehicle Emissions Budgets for the Cincinnati-Hamilton, OH-KY-IN Area

February 24, 2025

- **Borwig, Blake P (EEC)** started transcription; Claire Oyler helped facilitate the discussion.

**BP** **Borwig, Blake P (EEC)** 0:06

All right, everyone. We'll go ahead and get started. Thanks for joining today. We're here to talk about the Kentucky mobile emissions budgets for the Cincinnati 2008 ozone NAAQS maintenance plan. We received a request to have this meeting to discuss the budgets, so we'd like to open up the floor and see if anyone has any general questions. We're also going to go ahead and pull up the budgets. Simone, did you have a question for us?

**JS** **Jarvis, Simone** 0:51

Hey Blake, it's Simone. No specific question. Just thought it would be helpful to kind of get everyone together and walk through your process.

**BP** **Borwig, Blake P (EEC)** 1:02

That makes sense. Well, we're happy to field any questions or walk through it. Claire is going to talk about how we came up with the budgets.

\*Claire Oyler begins speaking\*

So back during the original IAC process, we all kind of got together and OKI made the original budgets and then within the area between Kentucky, Ohio and Indiana. We've all selected 15% as the safety margin percentage and we've gone from there to develop the table that you see before you. And then just to be consistent throughout, we think that it's best to go with the budgets that we've proposed. As far as we know, the Ohio portion of the area is making its way towards EPA final approval in Region 5 and then Indiana is a little bit ahead of us as well using these same budgets.

**AR** **Andy Reser** 2:03

Hey Blake, this is Andi Reser from OKI.

**BP** **Borwig, Blake P (EEC)** 2:06

Hey, Andy, how are you?

**AR** **Andy Reser** 2:08

Good. Hey, I have a question.

The VMT that you have listed, I don't think it should be implied or put in this table that it's a budget. I think the budgets are just the VOC at NOx emissions.

The VMT is just for information. It should not be a budget.

**BP** **Borwig, Blake P (EEC)** 2:30

Okay. Thanks for letting us know that. We'll remove that from the table in the IAC email and remove it from our SIP table as well.

**WW** **Witt, Thomas W (KYTC)** 2:48

I mean, would it be helpful to include like somewhere in the documentation that that's the VMT that the budgets are base were based upon?

**BP** **Borwig, Blake P (EEC)** 2:57

\*Claire Oyler speaking\*

Yeah, we can definitely go ahead and include it in a separate table just so it's clear that it's not a part of these budgets. We can definitely include it in our SIP narrative as well.

**WW** **Witt, Thomas W (KYTC)** 3:08

Okay. Thanks. Is that good with you, Andy?

**AR** **Andy Reser** 3:11

Yes, just so there's no implied, or otherwise, notion that we have to be under VMT budgets. That's not a thing. It's just the VOC and NOx budgets.

**WW** **Witt, Thomas W (KYTC)** 3:20

Yeah, good point.

**BP** **Borwig, Blake P (EEC)** 3:26

Hi, Diana. I see that you have your hand up.

**MD** **Myers, Dianna** 3:29

Yes, I guess my question... well, I'll make a comment because this is a second ten-year maintenance plan. The budget that you have on the books from your first ten-year maintenance plan, those budgets will remain on the books. So when this area is modeling for their conformity determinations, you will have to keep those budgets in consideration. So for the other areas that have submitted the 2nd 10-year maintenance plan, we have reminded them of that criteria so you will probably want to take a look now to see how those previous budgets will fall in line with the budget for the 2nd 10 year maintenance plan.

So Andy, I don't know if you have any information on just how the area looks when it comes to demonstrating conformity because you know we have.

We're in the grace period for two different models when it comes to transportation conformity, we have MOVES 4 and MOVES 5, so it's a good idea to kind of take a look if you haven't already, as to how these budgets would match up with the new versions of MOVES.

**AR** **Andy Reser** 5:13

Yeah, we haven't used MOVES 5 yet. These budgets are based on MOVES 4. And these are from runs that we did in July/August of last year.

**MD** **Myers, Dianna** 5:26

Okay. But do keep in mind, I can't remember at the moment which years you have budgets for in the 1st 10-year plan for the 2008 NAAQS.

**JS** **Jarvis, Simone** 5:38

Diana, it's 2020 and 2030.

**MD Myers, Dianna** 5:46

Okay. So 2020 is in the past, but 2030 you would have to still use those budgets. So we've had some areas to put in their submittal that they're going to request that EPA remove the 2030 budgets if it causes a problem, I don't know for this area that they will, but you have to take the entire picture into consideration, you know, to kind of see what's going on, but that is pretty much what we've instructed the other areas to take a look at. And then when you submit the SIP for approval, you can ask EPA to remove those budgets, or you just keep them in play.

**AR Andy Reser** 6:43

Yeah, Diana, this is Andy Reiser from OKI.

So our plan was to keep the 2030 budgets for Kentucky in our TIP plan for now, because Kentucky's so early in the process. Do you want us to show these new 2037 budgets as well?

**MD Myers, Dianna** 7:05

It would be a good idea to just kinda look. And I'm just bringing it out so that you can take a look, you know, at the area because I know with the new MOVES model emissions kind of change and look a little different. The numbers are kinda close for 2040 and then after 2040, they tend to kind of open up a little. So just keep that in mind.

**BP Borwig, Blake P (EEC)** 7:38

Thanks for making note of that, Diana.

Would anyone else like to add to the discussion?

Well, hearing nothing else, we appreciate everyone's time today and I'll send out a follow up e-mail just telling everyone that we removed the VMT numbers from the table and we appreciate everyone for joining. And please give us your concurrence by this Friday if you can.

**JS Jarvis, Simone** 8:26

Thanks so much.

Blake and Claire have a good one.

**AR** **Andy Reser** 8:27  
Thank you.

**WS** **Wallace, Samuel (FHWA)** 8:27  
Thank you all.

**BP** **Borwig, Blake P (EEC)** 8:28  
Thanks everyone.

**JL** **Jobe, Cassandra L (EEC)** 8:29  
Thank you.

**GS** **Gotvald, Sunday** 8:31  
Thank you.

□ **Borwig, Blake P (EEC)** stopped transcription

**Appendix E – Interagency Consultation  
Group Concurrence for Kentucky’s 2037  
Motor Vehicle Emissions Budgets**

## Borwig, Blake P (EEC)

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**From:** Jarvis, Simone <Jarvis.Simone@epa.gov>  
**Sent:** Tuesday, February 25, 2025 1:07 PM  
**To:** Borwig, Blake P (EEC); Andy Reser; Ana Ramirez; ANTHONY.HILL@dot.ohio.gov; Baukert, Frank; Blackburn, Dane D (KYTC-D06); Myers, Dianna; Gina Douthat (gdouthat@tankbus.org); LaRocca, Sarah; Mary Huller; Mitchell, Jay; Nate Brugler (Nathaniel.Brugler@dot.ohio.gov); Lane, Randy; Witt, Thomas W (KYTC); Maietta, Anthony; Vail, Nick (FHWA); Carpenter, Patrick (FHWA); Leslie, Michael; Sam Wallace; Spencer.Smith@dot.ohio.gov; Cales, Michael; Jocelyn Hoffman; Oyler, Claire (EEC); Graham Johnson; Kenny, William; k.carmanygeorge@dot.gov; Nallaballi, Neena; Harrod, Justin D (KYTC); Balaji, Jayalakshmi J (KYTC); Korostina, Dasha A (KYTC); Gotvald, Sunday; sseals@idem.in.gov; Jennifer VanVlerah; Sheets, Alec; CALLAHAN, BRIAN  
**Cc:** Jobe, Cassandra L (EEC)  
**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

### This Message Originated from Outside the Organization

This Message Is From an External Sender.

Report Suspicious

Hi Blake,

EPA R4 concurs with the 15% safety margin for the 2037 motor vehicle emissions budget.

Thanks,  
Simone Jarvis

Life Scientist  
US EPA Region 4 | Air & Radiation Division  
Air Regulatory Management Section  
Phone: 404-562-8393  
E-mail: [jarvis.simone@epa.gov](mailto:jarvis.simone@epa.gov)

---

**From:** Borwig, Blake P (EEC) <blake.borwig@ky.gov>  
**Sent:** Tuesday, February 25, 2025 12:01 PM  
**To:** Jarvis, Simone <Jarvis.Simone@epa.gov>; Andy Reser <areser@oki.org>; Ana Ramirez <aramirez@mvrpc.org>; ANTHONY.HILL@dot.ohio.gov; Baukert, Frank <FBAUKERT@indot.IN.gov>; Blackburn, Dane D (KYTC-D06) <Dane.Blackburn@ky.gov>; Myers, Dianna <Myers.Dianna@epa.gov>; Gina Douthat (gdouthat@tankbus.org) <gdouthat@tankbus.org>; LaRocca, Sarah <Larocca.Sarah@epa.gov>; Mary Huller <MHuller@go-metro.com>; Mitchell, Jay <JAYMITCHELL@indot.IN.gov>; Nate Brugler (Nathaniel.Brugler@dot.ohio.gov) <Nathaniel.Brugler@dot.ohio.gov>; Lane, Randy <randy.lane@dot.ohio.gov>; Witt, Thomas W (KYTC) <Thomas.Witt@ky.gov>; Maietta, Anthony <maietta.anthony@epa.gov>; Vail, Nick (FHWA) <nick.vail@dot.gov>; Carpenter, Patrick (FHWA) <patrick.carpenter@dot.gov>; Leslie, Michael <leslie.michael@epa.gov>; Sam Wallace <samuel.wallace@dot.gov>; Spencer.Smith@dot.ohio.gov; Cales, Michael <MCALES@indot.IN.gov>; Jocelyn Hoffman <jocelyn.johnson@dot.gov>; claire.oyler@ky.gov; Graham Johnson <graham.johnson@epa.ohio.gov>; Kenny, William <William.Kenny@epa.ohio.gov>; k.carmanygeorge@dot.gov; Nallaballi, Neena <Nallaballi.Neena@epa.gov>; Harrod, Justin D (KYTC) <Justin.Harrod@ky.gov>; Balaji, Jayalakshmi J (KYTC) <Jayalakshmi.Balaji@ky.gov>; Korostina, Dasha A



(KYTC) <dasha.korostina@ky.gov>; Gotvald, Sunday <Gotvald.Sunday@epa.gov>; sseals@idem.in.gov; Jennifer VanVlerah <Jennifer.VanVlerah@epa.ohio.gov>; Sheets, Alec <Alec.Sheets@epa.ohio.gov>; CALLAHAN, BRIAN <BCALLAHA@idem.IN.gov>

Cc: Cassandra.Jobbe\_ky.gov <Cassandra.Jobbe@ky.gov>

Subject: RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

**Caution:** This email originated from outside EPA, please exercise additional caution when deciding whether to open attachments or click on provided links.

Hi all,

Thank you to everyone who attended the IAC discussion yesterday.

To recap: During the discussion, it was suggested that VMT information be moved to a separate table within our second maintenance plan. We've made this change to clarify that there are no budgets for VMT. We are only proposing NO<sub>x</sub> and VOC budgets, which include a 15% safety margin. The proposed budgets are shown in the table below.

**Motor Vehicle Emissions Budgets for the Kentucky Portion of the Cincinnati-Hamilton, OH-KY-IN Area**

	2037 Maintenance Year Projections	2037 Safety Margin Allocation	2037 Motor Vehicle Emissions Budget
VOC (TSD)	1.90	0.29	2.19
NO <sub>x</sub> (TSD)	1.99	0.30	2.29

Please respond indicating if you concur with the proposed budgets for the Kentucky portion of the area by Friday, February 28<sup>th</sup>.

Best regards,

**Blake Borwig**

**Environmental Scientist III**

Evaluation Section, Kentucky Division for Air Quality

Kentucky Energy and Environment Cabinet

Office: (502)782-2751 | [blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)



Please consider the environment before printing this e-mail.

**From:** Borwig, Blake P (EEC)

**Sent:** Thursday, February 20, 2025 12:10 PM

**To:** Jarvis, Simone <[Jarvis.Simone@epa.gov](mailto:Jarvis.Simone@epa.gov)>; Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>; ANTHONY.HILL@dot.ohio.gov; Baukert, Frank <[FBAUKERT@indot.IN.gov](mailto:FBAUKERT@indot.IN.gov)>; Blackburn, Dane D (KYTC-D06) <[Dane.Blackburn@ky.gov](mailto:Dane.Blackburn@ky.gov)>; Myers, Dianna <[Myers.Dianna@epa.gov](mailto:Myers.Dianna@epa.gov)>; Gina Douthat ([gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)) <[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>; LaRocca, Sarah <[Larocca.Sarah@epa.gov](mailto:Larocca.Sarah@epa.gov)>; Mary Huller <[MHuller@go-metro.com](mailto:MHuller@go-metro.com)>; Mitchell, Jay <[JAYMITCHELL@indot.IN.gov](mailto:JAYMITCHELL@indot.IN.gov)>; Nate Brugler ([Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)) <[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>;

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Cc: Jobe, Cassandra L (EEC) <[Cassandra.Jobe@ky.gov](mailto:Cassandra.Jobe@ky.gov)>

Subject: RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

Hi all,

Just providing an update that the Division has sent out a meeting invite for Monday February 24<sup>th</sup> at 3 pm (EST) to discuss the proposed KY motor vehicle emissions budgets. The meeting will be recorded for documentation of the IAC process to be included in our SIP submittal.

Best regards,

**Blake Borwig**

**Environmental Scientist III**

*Evaluation Section, Kentucky Division for Air Quality*

*Kentucky Energy and Environment Cabinet*

*Office: (502)782-2751 | [blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)*



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---

**From:** Borwig, Blake P (EEC)

**Sent:** Wednesday, February 19, 2025 9:58 AM

**To:** Jarvis, Simone <[Jarvis.Simone@epa.gov](mailto:Jarvis.Simone@epa.gov)>; Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>; [ANTHONY.HILL@dot.ohio.gov](mailto:ANTHONY.HILL@dot.ohio.gov); Baukert, Frank <[FBAUKERT@indot.IN.gov](mailto:FBAUKERT@indot.IN.gov)>; Blackburn, Dane D (KYTC-D06) <[Dane.Blackburn@ky.gov](mailto:Dane.Blackburn@ky.gov)>; Myers, Dianna <[Myers.Dianna@epa.gov](mailto:Myers.Dianna@epa.gov)>; Gina Douthat (<[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)> <[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>); LaRocca, Sarah <[Larocca.Sarah@epa.gov](mailto:Larocca.Sarah@epa.gov)>; Mary Huller <[MHuller@go-metro.com](mailto:MHuller@go-metro.com)>; Mitchell, Jay <[JAYMITCHELL@indot.IN.gov](mailto:JAYMITCHELL@indot.IN.gov)>; Nate Brugler (<[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)> <[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>); Lane, Randy <[randy.lane@dot.ohio.gov](mailto:randy.lane@dot.ohio.gov)>; Witt, Thomas W (KYTC) <[Thomas.Witt@ky.gov](mailto:Thomas.Witt@ky.gov)>; Maietta, Anthony <[maietta.anthony@epa.gov](mailto:maietta.anthony@epa.gov)>; Vail, Nick (FHWA) <[nick.vail@dot.gov](mailto:nick.vail@dot.gov)>; Carpenter, Patrick (FHWA) <[patrick.carpenter@dot.gov](mailto:patrick.carpenter@dot.gov)>; Leslie, Michael <[leslie.michael@epa.gov](mailto:leslie.michael@epa.gov)>; Sam Wallace <[samuel.wallace@dot.gov](mailto:samuel.wallace@dot.gov)>; [Andrea.Henderson@dot.ohio.gov](mailto:Andrea.Henderson@dot.ohio.gov); [Spencer.Smith@dot.ohio.gov](mailto:Spencer.Smith@dot.ohio.gov); Cales, Michael <[MCALES@indot.IN.gov](mailto:MCALES@indot.IN.gov)>; Jocelyn Hoffman <[jocelyn.johnson@dot.gov](mailto:jocelyn.johnson@dot.gov)>; Oyler, Claire (EEC) <[claire.oyler@ky.gov](mailto:claire.oyler@ky.gov)>; Graham Johnson <[graham.johnson@epa.ohio.gov](mailto:graham.johnson@epa.ohio.gov)>; Kenny, William <[William.Kenny@epa.ohio.gov](mailto:William.Kenny@epa.ohio.gov)>; [k.carmanygeorge@dot.gov](mailto:k.carmanygeorge@dot.gov); Nallaballi, Neena <[Nallaballi.Neena@epa.gov](mailto:Nallaballi.Neena@epa.gov)>; Harrod, Justin D (KYTC) <[Justin.Harrod@ky.gov](mailto:Justin.Harrod@ky.gov)>; Balaji, Jayalakshmi J (KYTC) <[Jayalakshmi.Balaji@ky.gov](mailto:Jayalakshmi.Balaji@ky.gov)>; Korostina, Dasha A (KYTC) <[dasha.korostina@ky.gov](mailto:dasha.korostina@ky.gov)>; Gotvald, Sunday (she/her/hers) <[Gotvald.Sunday@epa.gov](mailto:Gotvald.Sunday@epa.gov)>; SEALS, SHAWN <[sseals@idem.in.gov](mailto:sseals@idem.in.gov)>; [Jennifer.VanVlerah@epa.ohio.gov](mailto:Jennifer.VanVlerah@epa.ohio.gov); [Alec.Sheets@epa.ohio.gov](mailto:Alec.Sheets@epa.ohio.gov); CALLAHAN, BRIAN <[BCALLAHA@idem.IN.gov](mailto:BCALLAHA@idem.IN.gov)>

**Cc:** Jobe, Cassandra L (EEC) <[Cassandra.Job@ky.gov](mailto:Cassandra.Job@ky.gov)>

**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

Good morning all,

The Division is organizing a meeting to accommodate EPA Region 4's request to have a discussion about the proposed 2037 motor vehicle emissions budgets for the Kentucky portion of the Cincinnati-Hamilton, OH-KY-IN maintenance area. Please complete the following Doodle Poll and I'll schedule the meeting at a time that works best for everyone.

<https://doodle.com/group-poll/participate/bo81jRBd>

Thanks in advance for your timely response to the poll above.

Best regards,

**Blake Borwig**

**Environmental Scientist III**

Evaluation Section, Kentucky Division for Air Quality

Kentucky Energy and Environment Cabinet

Office: (502)782-2751 | [blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)



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---

**From:** Jarvis, Simone <[Jarvis.Simone@epa.gov](mailto:Jarvis.Simone@epa.gov)>

**Sent:** Wednesday, February 19, 2025 8:35 AM

**To:** Borwig, Blake P (EEC) <[blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)>; Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>; ANTHONY.HILL@dot.ohio.gov; Baukert, Frank <[FBAUKERT@indot.IN.gov](mailto:FBAUKERT@indot.IN.gov)>; Blackburn, Dane D (KYTC-D06) <[Dane.Blackburn@ky.gov](mailto:Dane.Blackburn@ky.gov)>; Myers, Dianna <[Myers.Dianna@epa.gov](mailto:Myers.Dianna@epa.gov)>; Gina Douthat (<[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)> <[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>); LaRocca, Sarah <[Larocca.Sarah@epa.gov](mailto:Larocca.Sarah@epa.gov)>; Mary Huller <[MHuller@go-metro.com](mailto:MHuller@go-metro.com)>; Mitchell, Jay <[JAYMITCHELL@indot.IN.gov](mailto:JAYMITCHELL@indot.IN.gov)>; Nate Brugler (<[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)> <[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>); Lane, Randy <[randy.lane@dot.ohio.gov](mailto:randy.lane@dot.ohio.gov)>; Witt, Thomas W (KYTC) <[Thomas.Witt@ky.gov](mailto:Thomas.Witt@ky.gov)>; Maietta, Anthony <[maietta.anthony@epa.gov](mailto:maietta.anthony@epa.gov)>; Vail, Nick (FHWA) <[nick.vail@dot.gov](mailto:nick.vail@dot.gov)>; Carpenter, Patrick (FHWA) <[patrick.carpenter@dot.gov](mailto:patrick.carpenter@dot.gov)>; Leslie, Michael <[leslie.michael@epa.gov](mailto:leslie.michael@epa.gov)>; Sam Wallace <[samuel.wallace@dot.gov](mailto:samuel.wallace@dot.gov)>; Andrea.Henderson@dot.ohio.gov; Spencer.Smith@dot.ohio.gov; Cales, Michael <[MCALES@indot.IN.gov](mailto:MCALES@indot.IN.gov)>; Jocelyn Hoffman <[jocelyn.johnson@dot.gov](mailto:jocelyn.johnson@dot.gov)>; Oyler, Claire (EEC) <[claire.oyler@ky.gov](mailto:claire.oyler@ky.gov)>; Graham Johnson <[graham.johnson@epa.ohio.gov](mailto:graham.johnson@epa.ohio.gov)>; Kenny, William <[William.Kenny@epa.ohio.gov](mailto:William.Kenny@epa.ohio.gov)>; [daniel.forbush@dot.gov](mailto:daniel.forbush@dot.gov); [k.carmanygeorge@dot.gov](mailto:k.carmanygeorge@dot.gov); Nallaballi, Neena <[Nallaballi.Neena@epa.gov](mailto:Nallaballi.Neena@epa.gov)>; Harrod, Justin D (KYTC) <[Justin.Harrod@ky.gov](mailto:Justin.Harrod@ky.gov)>; Balaji, Jayalakshmi J (KYTC) <[Jayalakshmi.Balaji@ky.gov](mailto:Jayalakshmi.Balaji@ky.gov)>; Korostina, Dasha A (KYTC) <[dasha.korostina@ky.gov](mailto:dasha.korostina@ky.gov)>

**Cc:** Jobe, Cassandra L (EEC) <[Cassandra.Job@ky.gov](mailto:Cassandra.Job@ky.gov)>; Gotvald, Sunday <[Gotvald.Sunday@epa.gov](mailto:Gotvald.Sunday@epa.gov)>

**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

Following up to actually cc Sunday (whoops!)

Thanks,  
Simone

Life Scientist  
US EPA Region 4 | Air & Radiation Division  
Air Regulatory Management Section  
Phone: 404-562-8393  
E-mail: [jarvis.simone@epa.gov](mailto:jarvis.simone@epa.gov)

---

**From:** Jarvis, Simone

**Sent:** Wednesday, February 19, 2025 8:08 AM

**To:** Borwig, Blake P (EEC) <[blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)>; Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>; ANTHONY.HILL@dot.ohio.gov; Baukert, Frank <[FBAUKERT@indot.IN.gov](mailto:FBAUKERT@indot.IN.gov)>; Blackburn, Dane D (KYTC-D06) <[Dane.Blackburn@ky.gov](mailto:Dane.Blackburn@ky.gov)>; Myers, Dianna <[Myers.Dianna@epa.gov](mailto:Myers.Dianna@epa.gov)>; Gina Douthat (<[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)> <[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>); LaRocca, Sarah <[Larocca.Sarah@epa.gov](mailto:Larocca.Sarah@epa.gov)>; Mary Huller <[MHuller@go-metro.com](mailto:MHuller@go-metro.com)>; Mitchell, Jay <[JAYMITCHELL@indot.IN.gov](mailto:JAYMITCHELL@indot.IN.gov)>; Nate Brugler (<[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)> <[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>); Lane, Randy <[randy.lane@dot.ohio.gov](mailto:randy.lane@dot.ohio.gov)>; Witt, Thomas W (KYTC) <[Thomas.Witt@ky.gov](mailto:Thomas.Witt@ky.gov)>; Maietta, Anthony <[maietta.anthony@epa.gov](mailto:maietta.anthony@epa.gov)>; Vail, Nick (FHWA) <[nick.vail@dot.gov](mailto:nick.vail@dot.gov)>; Carpenter, Patrick (FHWA) <[patrick.carpenter@dot.gov](mailto:patrick.carpenter@dot.gov)>; Leslie, Michael <[leslie.michael@epa.gov](mailto:leslie.michael@epa.gov)>; Sam Wallace <[samuel.wallace@dot.gov](mailto:samuel.wallace@dot.gov)>; Andrea.Henderson@dot.ohio.gov; Spencer.Smith@dot.ohio.gov; Cales, Michael <[MCALES@indot.IN.gov](mailto:MCALES@indot.IN.gov)>; Jocelyn Hoffman <[jocelyn.johnson@dot.gov](mailto:jocelyn.johnson@dot.gov)>; claire.oyler@ky.gov; Graham Johnson <[graham.johnson@epa.ohio.gov](mailto:graham.johnson@epa.ohio.gov)>; Kenny, William <[William.Kenny@epa.ohio.gov](mailto:William.Kenny@epa.ohio.gov)>; daniel.forbush@dot.gov; k.carmanygeorge@dot.gov; Nallaballi, Neena <[Nallaballi.Neena@epa.gov](mailto:Nallaballi.Neena@epa.gov)>; Harrod, Justin D (KYTC) <[Justin.Harrod@ky.gov](mailto:Justin.Harrod@ky.gov)>; Balaji, Jayalakshmi J (KYTC) <[Jayalakshmi.Balaji@ky.gov](mailto:Jayalakshmi.Balaji@ky.gov)>; Korostina, Dasha A (KYTC) <[dasha.korostina@ky.gov](mailto:dasha.korostina@ky.gov)>

**Cc:** Cassandra.Job\_e\_ky.gov <[Cassandra.Job\\_e\\_ky.gov](mailto:Cassandra.Job_e_ky.gov)>

**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

Good morning Blake,

A quick call to discuss would be helpful. Also, could you please include Sunday Gotvald (cc'ed here) on correspondence going forward?

Thank you!  
Simone Jarvis

Life Scientist  
US EPA Region 4 | Air & Radiation Division  
Air Regulatory Management Section  
Phone: 404-562-8393  
E-mail: [jarvis.simone@epa.gov](mailto:jarvis.simone@epa.gov)

---

**From:** Borwig, Blake P (EEC) <[blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)>

**Sent:** Tuesday, February 18, 2025 2:23 PM

**To:** Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>; ANTHONY.HILL@dot.ohio.gov; Baukert, Frank <[FBAUKERT@indot.IN.gov](mailto:FBAUKERT@indot.IN.gov)>; Blackburn, Dane D (KYTC-D06) <[Dane.Blackburn@ky.gov](mailto:Dane.Blackburn@ky.gov)>; Myers, Dianna <[Myers.Dianna@epa.gov](mailto:Myers.Dianna@epa.gov)>; Gina Douthat (<[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)> <[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>); Jarvis, Simone <[Jarvis.Simone@epa.gov](mailto:Jarvis.Simone@epa.gov)>; LaRocca, Sarah <[Larocca.Sarah@epa.gov](mailto:Larocca.Sarah@epa.gov)>; Mary Huller <[MHuller@go-metro.com](mailto:MHuller@go-metro.com)>; Mitchell, Jay <[JAYMITCHELL@indot.IN.gov](mailto:JAYMITCHELL@indot.IN.gov)>; Nate Brugler (<[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)> <[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>); Lane, Randy <[randy.lane@dot.ohio.gov](mailto:randy.lane@dot.ohio.gov)>; Witt, Thomas W (KYTC) <[Thomas.Witt@ky.gov](mailto:Thomas.Witt@ky.gov)>; Maietta, Anthony <[maietta.anthony@epa.gov](mailto:maietta.anthony@epa.gov)>; Vail, Nick (FHWA) <[nick.vail@dot.gov](mailto:nick.vail@dot.gov)>; Carpenter, Patrick (FHWA) <[patrick.carpenter@dot.gov](mailto:patrick.carpenter@dot.gov)>; Leslie, Michael <[leslie.michael@epa.gov](mailto:leslie.michael@epa.gov)>; Sam Wallace <[samuel.wallace@dot.gov](mailto:samuel.wallace@dot.gov)>;

[Andrea.Henderson@dot.ohio.gov](mailto:Andrea.Henderson@dot.ohio.gov); [Spencer.Smith@dot.ohio.gov](mailto:Spencer.Smith@dot.ohio.gov); Cales, Michael <[MCALES@indot.IN.gov](mailto:MCALES@indot.IN.gov)>; Jocelyn Hoffman <[jocelyn.johnson@dot.gov](mailto:jocelyn.johnson@dot.gov)>; [claire.oyster@ky.gov](mailto:claire.oyster@ky.gov); Graham Johnson <[graham.johnson@epa.ohio.gov](mailto:graham.johnson@epa.ohio.gov)>; Kenny, William <[William.Kenny@epa.ohio.gov](mailto:William.Kenny@epa.ohio.gov)>; [daniel.forbush@dot.gov](mailto:daniel.forbush@dot.gov); [k.carmanygeorge@dot.gov](mailto:k.carmanygeorge@dot.gov); Nallaballi, Neena <[Nallaballi.Neena@epa.gov](mailto:Nallaballi.Neena@epa.gov)>; Harrod, Justin D (KYTC) <[Justin.Harrod@ky.gov](mailto:Justin.Harrod@ky.gov)>; Balaji, Jayalakshmi J (KYTC) <[Jayalakshmi.Balaji@ky.gov](mailto:Jayalakshmi.Balaji@ky.gov)>; Korostina, Dasha A (KYTC) <[dasha.korostina@ky.gov](mailto:dasha.korostina@ky.gov)>

**Cc:** Cassandra.Job\_e\_ky.gov <[Cassandra.Job\\_e\\_ky.gov](mailto:Cassandra.Job_e_ky.gov)>

**Subject:** IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

**Caution:** This email originated from outside EPA, please exercise additional caution when deciding whether to open attachments or click on provided links.

Hello everyone,

The Kentucky Division for Air Quality (the Division) is beginning the interagency consultation process for the 2008 ozone NAAQS second 10-year maintenance plan for the Kentucky portion of the Cincinnati-Hamilton, OH-KY-IN area.

In August of 2024, the Ohio-Kentucky-Indiana Regional Council of Governments (OKI) completed MOVES modeling that resulted in the development of onroad mobile source emissions for the 2008 ozone NAAQS second 10-year maintenance plan for the Ohio, Kentucky, and Indiana portions of the Cincinnati-Hamilton, OH-KY-IN area. The August 7, 2024, OKI TSD is attached for your review.

Ohio EPA has already finalized the motor vehicle emissions budgets for the Ohio portion of the area. The Indiana Department of Environmental Management (IDEM) is in the process of finalizing the motor vehicle emissions budgets for the Indiana portion of the area.

The Division is requesting concurrence with the proposed 2037 motor vehicle emissions budgets for the Kentucky portion of the area (which are included in the table below). Please note that 2037 is the maintenance year for the area and is the only year that requires budgets. The Division chose to accommodate a 15% safety margin for the proposed budgets.

**Motor Vehicle Emissions Budgets for the Kentucky Portion of the Cincinnati-Hamilton, OH-KY-IN Area**

	<b>2037 Maintenance Year Projections</b>	<b>2037 Safety Margin Allocation</b>	<b>2037 Motor Vehicle Emissions Budget</b>
<b>VOC (TSD)</b>	1.90	0.29	2.19
<b>NOX (TSD)</b>	1.99	0.30	2.29
<b>VMT (miles/day)</b>	11,683,003	1,752,450	13,435,453

If you would like to have a call regarding this, please let me know by Friday, February 21<sup>st</sup>. Otherwise, **please respond** indicating if you concur with the proposed budgets for the Kentucky portion of the area by Friday, February 28<sup>th</sup>.

The Division would like to include all the necessary parties for this interagency consultation process. If you are aware of anyone that should be included in this interagency consultation that is not on this email, please let me know as soon as possible.

Best regards,

**Blake Borwig**  
**Environmental Scientist III**

*Evaluation Section, Kentucky Division for Air Quality*

*Kentucky Energy and Environment Cabinet*

*Office: (502)782-2751 | [blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)*



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## Borwig, Blake P (EEC)

---

**From:** Nallaballi, Neena <Nallaballi.Neena@epa.gov>  
**Sent:** Wednesday, February 26, 2025 1:16 PM  
**To:** Borwig, Blake P (EEC); Jarvis, Simone; Andy Reser; Ana Ramirez; ANTHONY.HILL@dot.ohio.gov; Baukert, Frank; Blackburn, Dane D (KYTC-D06); Myers, Dianna; Gina Douthat (gdouthat@tankbus.org); LaRocca, Sarah; Mary Huller; Mitchell, Jay; Nate Brugler (Nathaniel.Brugler@dot.ohio.gov); Lane, Randy; Witt, Thomas W (KYTC); Maietta, Anthony; Vail, Nick (FHWA); Carpenter, Patrick (FHWA); Leslie, Michael; Sam Wallace; Spencer.Smith@dot.ohio.gov; Cales, Michael; Jocelyn Hoffman; Oyler, Claire (EEC); Graham Johnson; Kenny, William; k.carmanygeorge@dot.gov; Harrod, Justin D (KYTC); Balaji, Jayalakshmi J (KYTC); Korostina, Dasha A (KYTC); Gotvald, Sunday; sseals@idem.in.gov; Jennifer VanVlerah; Sheets, Alec; CALLAHAN, BRIAN  
**Cc:** Jobe, Cassandra L (EEC)  
**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

### This Message Originated from Outside the Organization

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Report Suspicious

Good afternoon,

EPA R5 concurs with the 15% safety margin applied to the proposed 2037 Motor vehicle emission budgets.

Neena Nallaballi  
Control Strategies Section  
EPA Region-5  
[Nallaballi.Neena@epa.gov](mailto:Nallaballi.Neena@epa.gov)  
312-353-1770

---

**From:** Borwig, Blake P (EEC) <blake.borwig@ky.gov>  
**Sent:** Tuesday, February 25, 2025 11:01 AM  
**To:** Jarvis, Simone <Jarvis.Simone@epa.gov>; Andy Reser <areser@oki.org>; Ana Ramirez <aramirez@mvrpc.org>; ANTHONY.HILL@dot.ohio.gov; Baukert, Frank <FBAUKERT@indot.IN.gov>; Blackburn, Dane D (KYTC-D06) <Dane.Blackburn@ky.gov>; Myers, Dianna <Myers.Dianna@epa.gov>; Gina Douthat (gdouthat@tankbus.org) <gdouthat@tankbus.org>; LaRocca, Sarah <Larocca.Sarah@epa.gov>; Mary Huller <MHuller@go-metro.com>; Mitchell, Jay <JAYMITCHELL@indot.IN.gov>; Nate Brugler (Nathaniel.Brugler@dot.ohio.gov) <Nathaniel.Brugler@dot.ohio.gov>; Lane, Randy <randy.lane@dot.ohio.gov>; Witt, Thomas W (KYTC) <Thomas.Witt@ky.gov>; Maietta, Anthony <maietta.anthony@epa.gov>; Vail, Nick (FHWA) <nick.vail@dot.gov>; Carpenter, Patrick (FHWA) <patrick.carpenter@dot.gov>; Leslie, Michael <leslie.michael@epa.gov>; Sam Wallace <samuel.wallace@dot.gov>; Spencer.Smith@dot.ohio.gov; Cales, Michael <MCALES@indot.IN.gov>; Jocelyn Hoffman <jocelyn.johnson@dot.gov>; claire.oyler@ky.gov; Graham Johnson <graham.johnson@epa.ohio.gov>; Kenny, William <William.Kenny@epa.ohio.gov>; k.carmanygeorge@dot.gov; Nallaballi, Neena <Nallaballi.Neena@epa.gov>; Harrod,

Justin D (KYTC) <Justin.Harrodd@ky.gov>; Balaji, Jayalakshmi J (KYTC) <Jayalakshmi.Balaji@ky.gov>; Korostina, Dasha A (KYTC) <dasha.korostina@ky.gov>; Gotvald, Sunday <Gotvald.Sunday@epa.gov>; sseals@idem.in.gov; Jennifer VanVlerah <Jennifer.VanVlerah@epa.ohio.gov>; Sheets, Alec <Alec.Sheets@epa.ohio.gov>; CALLAHAN, BRIAN <BCALLAHA@idem.IN.gov>

Cc: Cassandra.Jobeky.gov <Cassandra.Jobeky.gov>

**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

**Caution:** This email originated from outside EPA, please exercise additional caution when deciding whether to open attachments or click on provided links.

Hi all,

Thank you to everyone who attended the IAC discussion yesterday.

To recap: During the discussion, it was suggested that VMT information be moved to a separate table within our second maintenance plan. We've made this change to clarify that there are no budgets for VMT. We are only proposing NO<sub>x</sub> and VOC budgets, which include a 15% safety margin. The proposed budgets are shown in the table below.

**Motor Vehicle Emissions Budgets for the Kentucky Portion of the Cincinnati-Hamilton, OH-KY-IN Area**

	2037 Maintenance Year Projections	2037 Safety Margin Allocation	2037 Motor Vehicle Emissions Budget
VOC (TSD)	1.90	0.29	2.19
NO <sub>x</sub> (TSD)	1.99	0.30	2.29

Please respond indicating if you concur with the proposed budgets for the Kentucky portion of the area by Friday, February 28<sup>th</sup>.

Best regards,

**Blake Borwig**

**Environmental Scientist III**

Evaluation Section, Kentucky Division for Air Quality

Kentucky Energy and Environment Cabinet

Office: (502)782-2751 | [blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)



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**From:** Borwig, Blake P (EEC)

**Sent:** Thursday, February 20, 2025 12:10 PM

**To:** Jarvis, Simone <[Jarvis.Simone@epa.gov](mailto:Jarvis.Simone@epa.gov)>; Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>; ANTHONY.HILL@dot.ohio.gov; Baukert, Frank <[FBAUKERT@indot.IN.gov](mailto:FBAUKERT@indot.IN.gov)>; Blackburn, Dane D (KYTC-D06) <[Dane.Blackburn@ky.gov](mailto:Dane.Blackburn@ky.gov)>; Myers, Dianna <[Myers.Dianna@epa.gov](mailto:Myers.Dianna@epa.gov)>; Gina Douthat (<[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>) <[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>; LaRocca, Sarah <[Larocca.Sarah@epa.gov](mailto:Larocca.Sarah@epa.gov)>; Mary Huller <[MHuller@go-metro.com](mailto:MHuller@go-metro.com)>; Mitchell,



Jay <[JAYMITCHELL@indot.IN.gov](mailto:JAYMITCHELL@indot.IN.gov)>; Nate Brugler ([Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)) <[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>; Lane, Randy <[randy.lane@dot.ohio.gov](mailto:randy.lane@dot.ohio.gov)>; Witt, Thomas W (KYTC) <[Thomas.Witt@ky.gov](mailto:Thomas.Witt@ky.gov)>; Maietta, Anthony <[maietta.anthony@epa.gov](mailto:maietta.anthony@epa.gov)>; Vail, Nick (FHWA) <[nick.vail@dot.gov](mailto:nick.vail@dot.gov)>; Carpenter, Patrick (FHWA) <[patrick.carpenter@dot.gov](mailto:patrick.carpenter@dot.gov)>; Leslie, Michael <[leslie.michael@epa.gov](mailto:leslie.michael@epa.gov)>; Sam Wallace <[samuel.wallace@dot.gov](mailto:samuel.wallace@dot.gov)>; [Andrea.Henderson@dot.ohio.gov](mailto:Andrea.Henderson@dot.ohio.gov); [Spencer.Smith@dot.ohio.gov](mailto:Spencer.Smith@dot.ohio.gov); Cales, Michael <[MCALES@indot.IN.gov](mailto:MCALES@indot.IN.gov)>; Jocelyn Hoffman <[jocelyn.johnson@dot.gov](mailto:jocelyn.johnson@dot.gov)>; Oyler, Claire (EEC) <[claire.oyler@ky.gov](mailto:claire.oyler@ky.gov)>; Graham Johnson <[graham.johnson@epa.ohio.gov](mailto:graham.johnson@epa.ohio.gov)>; Kenny, William <[William.Kenny@epa.ohio.gov](mailto:William.Kenny@epa.ohio.gov)>; [k.carmanygeorge@dot.gov](mailto:k.carmanygeorge@dot.gov); Nallaballi, Neena <[Nallaballi.Neena@epa.gov](mailto:Nallaballi.Neena@epa.gov)>; Harrod, Justin D (KYTC) <[Justin.Harrod@ky.gov](mailto:Justin.Harrod@ky.gov)>; Balaji, Jayalakshmi J (KYTC) <[Jayalakshmi.Balaji@ky.gov](mailto:Jayalakshmi.Balaji@ky.gov)>; Korostina, Dasha A (KYTC) <[dasha.korostina@ky.gov](mailto:dasha.korostina@ky.gov)>; Gotvald, Sunday (she/her/hers) <[Gotvald.Sunday@epa.gov](mailto:Gotvald.Sunday@epa.gov)>; SEALS, SHAWN <[sseals@idem.in.gov](mailto:sseals@idem.in.gov)>; [Jennifer.VanVlerah@epa.ohio.gov](mailto:Jennifer.VanVlerah@epa.ohio.gov); [Alec.Sheets@epa.ohio.gov](mailto:Alec.Sheets@epa.ohio.gov); CALLAHAN, BRIAN <[BCALLAHA@idem.IN.gov](mailto:BCALLAHA@idem.IN.gov)>

Cc: Jobe, Cassandra L (EEC) <[Cassandra.Jobe@ky.gov](mailto:Cassandra.Jobe@ky.gov)>

**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

Hi all,

Just providing an update that the Division has sent out a meeting invite for Monday February 24<sup>th</sup> at 3 pm (EST) to discuss the proposed KY motor vehicle emissions budgets. The meeting will be recorded for documentation of the IAC process to be included in our SIP submittal.

Best regards,

**Blake Borwig**

**Environmental Scientist III**

*Evaluation Section, Kentucky Division for Air Quality*

*Kentucky Energy and Environment Cabinet*

*Office: (502)782-2751 | [blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)*



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---

**From:** Borwig, Blake P (EEC)

**Sent:** Wednesday, February 19, 2025 9:58 AM

**To:** Jarvis, Simone <[Jarvis.Simone@epa.gov](mailto:Jarvis.Simone@epa.gov)>; Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>; [ANTHONY.HILL@dot.ohio.gov](mailto:ANTHONY.HILL@dot.ohio.gov); Baukert, Frank <[FBAUKERT@indot.IN.gov](mailto:FBAUKERT@indot.IN.gov)>; Blackburn, Dane D (KYTC-D06) <[Dane.Blackburn@ky.gov](mailto:Dane.Blackburn@ky.gov)>; Myers, Dianna <[Myers.Dianna@epa.gov](mailto:Myers.Dianna@epa.gov)>; Gina Douthat <[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>; [gdouthat@tankbus.org](mailto:gdouthat@tankbus.org); LaRocca, Sarah <[Larocca.Sarah@epa.gov](mailto:Larocca.Sarah@epa.gov)>; Mary Huller <[MHuller@go-metro.com](mailto:MHuller@go-metro.com)>; Mitchell, Jay <[JAYMITCHELL@indot.IN.gov](mailto:JAYMITCHELL@indot.IN.gov)>; Nate Brugler ([Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)) <[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>; Lane, Randy <[randy.lane@dot.ohio.gov](mailto:randy.lane@dot.ohio.gov)>; Witt, Thomas W (KYTC) <[Thomas.Witt@ky.gov](mailto:Thomas.Witt@ky.gov)>; Maietta, Anthony <[maietta.anthony@epa.gov](mailto:maietta.anthony@epa.gov)>; Vail, Nick (FHWA) <[nick.vail@dot.gov](mailto:nick.vail@dot.gov)>; Carpenter, Patrick (FHWA) <[patrick.carpenter@dot.gov](mailto:patrick.carpenter@dot.gov)>; Leslie, Michael <[leslie.michael@epa.gov](mailto:leslie.michael@epa.gov)>; Sam Wallace <[samuel.wallace@dot.gov](mailto:samuel.wallace@dot.gov)>; [Andrea.Henderson@dot.ohio.gov](mailto:Andrea.Henderson@dot.ohio.gov); [Spencer.Smith@dot.ohio.gov](mailto:Spencer.Smith@dot.ohio.gov); Cales, Michael <[MCALES@indot.IN.gov](mailto:MCALES@indot.IN.gov)>; Jocelyn Hoffman <[jocelyn.johnson@dot.gov](mailto:jocelyn.johnson@dot.gov)>; Oyler, Claire (EEC) <[claire.oyler@ky.gov](mailto:claire.oyler@ky.gov)>; Graham Johnson <[graham.johnson@epa.ohio.gov](mailto:graham.johnson@epa.ohio.gov)>; Kenny, William <[William.Kenny@epa.ohio.gov](mailto:William.Kenny@epa.ohio.gov)>; [k.carmanygeorge@dot.gov](mailto:k.carmanygeorge@dot.gov); Nallaballi, Neena <[Nallaballi.Neena@epa.gov](mailto:Nallaballi.Neena@epa.gov)>; Harrod, Justin D (KYTC) <[Justin.Harrod@ky.gov](mailto:Justin.Harrod@ky.gov)>; Balaji, Jayalakshmi J (KYTC) <[Jayalakshmi.Balaji@ky.gov](mailto:Jayalakshmi.Balaji@ky.gov)>; Korostina, Dasha A (KYTC) <[dasha.korostina@ky.gov](mailto:dasha.korostina@ky.gov)>; Gotvald, Sunday (she/her/hers) <[Gotvald.Sunday@epa.gov](mailto:Gotvald.Sunday@epa.gov)>; SEALS, SHAWN <[sseals@idem.in.gov](mailto:sseals@idem.in.gov)>; [Jennifer.VanVlerah@epa.ohio.gov](mailto:Jennifer.VanVlerah@epa.ohio.gov);

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Cc: Jobe, Cassandra L (EEC) <[Cassandra.Job@ky.gov](mailto:Cassandra.Job@ky.gov)>

Subject: RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

Good morning all,

The Division is organizing a meeting to accommodate EPA Region 4's request to have a discussion about the proposed 2037 motor vehicle emissions budgets for the Kentucky portion of the Cincinnati-Hamilton, OH-KY-IN maintenance area. Please complete the following Doodle Poll and I'll schedule the meeting at a time that works best for everyone.

<https://doodle.com/group-poll/participate/bo81jRBd>

Thanks in advance for your timely response to the poll above.

Best regards,

**Blake Borwig**

**Environmental Scientist III**

Evaluation Section, Kentucky Division for Air Quality

Kentucky Energy and Environment Cabinet

Office: (502)782-2751 | [blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)



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**From:** Jarvis, Simone <[Jarvis.Simone@epa.gov](mailto:Jarvis.Simone@epa.gov)>

**Sent:** Wednesday, February 19, 2025 8:35 AM

**To:** Borwig, Blake P (EEC) <[blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)>; Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>; ANTHONY.HILL@dot.ohio.gov; Baukert, Frank <[FBAUKERT@indot.IN.gov](mailto:FBAUKERT@indot.IN.gov)>; Blackburn, Dane D (KYTC-D06) <[Dane.Blackburn@ky.gov](mailto:Dane.Blackburn@ky.gov)>; Myers, Dianna <[Myers.Dianna@epa.gov](mailto:Myers.Dianna@epa.gov)>; Gina Douthat (<[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)> <[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>); LaRocca, Sarah <[Larocca.Sarah@epa.gov](mailto:Larocca.Sarah@epa.gov)>; Mary Huller <[MHuller@go-metro.com](mailto:MHuller@go-metro.com)>; Mitchell, Jay <[JAYMITCHELL@indot.IN.gov](mailto:JAYMITCHELL@indot.IN.gov)>; Nate Brugler (<[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)> <[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>); Lane, Randy <[randy.lane@dot.ohio.gov](mailto:randy.lane@dot.ohio.gov)>; Witt, Thomas W (KYTC) <[Thomas.Witt@ky.gov](mailto:Thomas.Witt@ky.gov)>; Maietta, Anthony <[maietta.anthony@epa.gov](mailto:maietta.anthony@epa.gov)>; Vail, Nick (FHWA) <[nick.vail@dot.gov](mailto:nick.vail@dot.gov)>; Carpenter, Patrick (FHWA) <[patrick.carpenter@dot.gov](mailto:patrick.carpenter@dot.gov)>; Leslie, Michael <[leslie.michael@epa.gov](mailto:leslie.michael@epa.gov)>; Sam Wallace <[samuel.wallace@dot.gov](mailto:samuel.wallace@dot.gov)>; Andrea.Henderson@dot.ohio.gov; Spencer.Smith@dot.ohio.gov; Cales, Michael <[MCALES@indot.IN.gov](mailto:MCALES@indot.IN.gov)>; Jocelyn Hoffman <[jocelyn.johnson@dot.gov](mailto:jocelyn.johnson@dot.gov)>; Oyler, Claire (EEC) <[claire.oyler@ky.gov](mailto:claire.oyler@ky.gov)>; Graham Johnson <[graham.johnson@epa.ohio.gov](mailto:graham.johnson@epa.ohio.gov)>; Kenny, William <[William.Kenny@epa.ohio.gov](mailto:William.Kenny@epa.ohio.gov)>; [daniel.forbush@dot.gov](mailto:daniel.forbush@dot.gov); [k.carmanygeorge@dot.gov](mailto:k.carmanygeorge@dot.gov); Nallaballi, Neena <[Nallaballi.Neena@epa.gov](mailto:Nallaballi.Neena@epa.gov)>; Harrod, Justin D (KYTC) <[Justin.Harrod@ky.gov](mailto:Justin.Harrod@ky.gov)>; Balaji, Jayalakshmi J (KYTC) <[Jayalakshmi.Balaji@ky.gov](mailto:Jayalakshmi.Balaji@ky.gov)>; Korostina, Dasha A (KYTC) <[dasha.korostina@ky.gov](mailto:dasha.korostina@ky.gov)>

**Cc:** Jobe, Cassandra L (EEC) <[Cassandra.Job@ky.gov](mailto:Cassandra.Job@ky.gov)>; Gotvald, Sunday <[Gotvald.Sunday@epa.gov](mailto:Gotvald.Sunday@epa.gov)>

**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

Following up to actually cc Sunday (whoops!)

Thanks,  
Simone

Life Scientist  
US EPA Region 4 | Air & Radiation Division  
Air Regulatory Management Section  
Phone: 404-562-8393  
E-mail: [jarvis.simone@epa.gov](mailto:jarvis.simone@epa.gov)

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**From:** Jarvis, Simone

**Sent:** Wednesday, February 19, 2025 8:08 AM

**To:** Borwig, Blake P (EEC) <[blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)>; Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>; [ANTHONY.HILL@dot.ohio.gov](mailto:ANTHONY.HILL@dot.ohio.gov); Baukert, Frank <[FBAUKERT@indot.IN.gov](mailto:FBAUKERT@indot.IN.gov)>; Blackburn, Dane D (KYTC-D06) <[Dane.Blackburn@ky.gov](mailto:Dane.Blackburn@ky.gov)>; Myers, Dianna <[Myers.Dianna@epa.gov](mailto:Myers.Dianna@epa.gov)>; Gina Douthat ([gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)) <[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>; LaRocca, Sarah <[Larocca.Sarah@epa.gov](mailto:Larocca.Sarah@epa.gov)>; Mary Huller <[MHuller@go-metro.com](mailto:MHuller@go-metro.com)>; Mitchell, Jay <[JAYMITCHELL@indot.IN.gov](mailto:JAYMITCHELL@indot.IN.gov)>; Nate Brugler ([Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)) <[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>; Lane, Randy <[randy.lane@dot.ohio.gov](mailto:randy.lane@dot.ohio.gov)>; Witt, Thomas W (KYTC) <[Thomas.Witt@ky.gov](mailto:Thomas.Witt@ky.gov)>; Maietta, Anthony <[maietta.anthony@epa.gov](mailto:maietta.anthony@epa.gov)>; Vail, Nick (FHWA) <[nick.vail@dot.gov](mailto:nick.vail@dot.gov)>; Carpenter, Patrick (FHWA) <[patrick.carpenter@dot.gov](mailto:patrick.carpenter@dot.gov)>; Leslie, Michael <[leslie.michael@epa.gov](mailto:leslie.michael@epa.gov)>; Sam Wallace <[samuel.wallace@dot.gov](mailto:samuel.wallace@dot.gov)>; [Andrea.Henderson@dot.ohio.gov](mailto:Andrea.Henderson@dot.ohio.gov); [Spencer.Smith@dot.ohio.gov](mailto:Spencer.Smith@dot.ohio.gov); Cales, Michael <[MCALES@indot.IN.gov](mailto:MCALES@indot.IN.gov)>; Jocelyn Hoffman <[jocelyn.johnson@dot.gov](mailto:jocelyn.johnson@dot.gov)>; [claire.oyler@ky.gov](mailto:claire.oyler@ky.gov); Graham Johnson <[graham.johnson@epa.ohio.gov](mailto:graham.johnson@epa.ohio.gov)>; Kenny, William <[William.Kenny@epa.ohio.gov](mailto:William.Kenny@epa.ohio.gov)>; [daniel.forbush@dot.gov](mailto:daniel.forbush@dot.gov); [k.carmanygeorge@dot.gov](mailto:k.carmanygeorge@dot.gov); Nallaballi, Neena <[Nallaballi.Neena@epa.gov](mailto:Nallaballi.Neena@epa.gov)>; Harrod, Justin D (KYTC) <[Justin.Harrod@ky.gov](mailto:Justin.Harrod@ky.gov)>; Balaji, Jayalakshmi J (KYTC) <[Jayalakshmi.Balaji@ky.gov](mailto:Jayalakshmi.Balaji@ky.gov)>; Korostina, Dasha A (KYTC) <[dasha.korostina@ky.gov](mailto:dasha.korostina@ky.gov)>

**Cc:** Cassandra.Jobe\_ky.gov <[Cassandra.Jobe@ky.gov](mailto:Cassandra.Jobe@ky.gov)>

**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

Good morning Blake,

A quick call to discuss would be helpful. Also, could you please include Sunday Gotvald (cc'ed here) on correspondence going forward?

Thank you!  
Simone Jarvis

Life Scientist  
US EPA Region 4 | Air & Radiation Division  
Air Regulatory Management Section  
Phone: 404-562-8393  
E-mail: [jarvis.simone@epa.gov](mailto:jarvis.simone@epa.gov)

---

**From:** Borwig, Blake P (EEC) <[blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)>

**Sent:** Tuesday, February 18, 2025 2:23 PM

**To:** Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>; [ANTHONY.HILL@dot.ohio.gov](mailto:ANTHONY.HILL@dot.ohio.gov); Baukert, Frank <[FBAUKERT@indot.IN.gov](mailto:FBAUKERT@indot.IN.gov)>; Blackburn, Dane D (KYTC-D06) <[Dane.Blackburn@ky.gov](mailto:Dane.Blackburn@ky.gov)>; Myers, Dianna <[Myers.Dianna@epa.gov](mailto:Myers.Dianna@epa.gov)>; Gina Douthat ([gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)) <[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>; Jarvis, Simone <[Jarvis.Simone@epa.gov](mailto:Jarvis.Simone@epa.gov)>; LaRocca, Sarah <[Larocca.Sarah@epa.gov](mailto:Larocca.Sarah@epa.gov)>; Mary Huller <[MHuller@go-metro.com](mailto:MHuller@go-metro.com)>; Mitchell, Jay <[JAYMITCHELL@indot.IN.gov](mailto:JAYMITCHELL@indot.IN.gov)>; Nate Brugler ([Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)) <[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>; Lane, Randy <[randy.lane@dot.ohio.gov](mailto:randy.lane@dot.ohio.gov)>; Witt, Thomas W (KYTC) <[Thomas.Witt@ky.gov](mailto:Thomas.Witt@ky.gov)>; Maietta, Anthony <[maietta.anthony@epa.gov](mailto:maietta.anthony@epa.gov)>; Vail, Nick (FHWA) <[nick.vail@dot.gov](mailto:nick.vail@dot.gov)>; Carpenter, Patrick (FHWA)

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Cc: Cassandra.Jobe\_ky.gov <Cassandra.Jobe@ky.gov>

**Subject:** IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

**Caution:** This email originated from outside EPA, please exercise additional caution when deciding whether to open attachments or click on provided links.

Hello everyone,

The Kentucky Division for Air Quality (the Division) is beginning the interagency consultation process for the 2008 ozone NAAQS second 10-year maintenance plan for the Kentucky portion of the Cincinnati-Hamilton, OH-KY-IN area.

In August of 2024, the Ohio-Kentucky-Indiana Regional Council of Governments (OKI) completed MOVES modeling that resulted in the development of onroad mobile source emissions for the 2008 ozone NAAQS second 10-year maintenance plan for the Ohio, Kentucky, and Indiana portions of the Cincinnati-Hamilton, OH-KY-IN area. The August 7, 2024, OKI TSD is attached for your review.

Ohio EPA has already finalized the motor vehicle emissions budgets for the Ohio portion of the area. The Indiana Department of Environmental Management (IDEM) is in the process of finalizing the motor vehicle emissions budgets for the Indiana portion of the area.

The Division is requesting concurrence with the proposed 2037 motor vehicle emissions budgets for the Kentucky portion of the area (which are included in the table below). Please note that 2037 is the maintenance year for the area and is the only year that requires budgets. The Division chose to accommodate a 15% safety margin for the proposed budgets.

**Motor Vehicle Emissions Budgets for the Kentucky Portion of the Cincinnati-Hamilton, OH-KY-IN Area**

	<b>2037 Maintenance Year Projections</b>	<b>2037 Safety Margin Allocation</b>	<b>2037 Motor Vehicle Emissions Budget</b>
<b>VOC (TSD)</b>	1.90	0.29	2.19
<b>NOX (TSD)</b>	1.99	0.30	2.29
<b>VMT (miles/day)</b>	11,683,003	1,752,450	13,435,453

If you would like to have a call regarding this, please let me know by Friday, February 21<sup>st</sup>. Otherwise, **please respond** indicating if you concur with the proposed budgets for the Kentucky portion of the area by Friday, February 28<sup>th</sup>.

The Division would like to include all the necessary parties for this interagency consultation process. If you are aware of anyone that should be included in this interagency consultation that is not on this email, please let me know as soon as possible.

Best regards,

*Blake Borwig*

***Environmental Scientist III***

*Evaluation Section, Kentucky Division for Air Quality*

*Kentucky Energy and Environment Cabinet*

*Office: (502)782-2751 | [blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)*



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## Borwig, Blake P (EEC)

---

**From:** Vail, Nick (FHWA) <nick.vail@dot.gov>  
**Sent:** Tuesday, February 25, 2025 12:47 PM  
**To:** sseals idem.in.gov; Borwig, Blake P (EEC); Jarvis, Simone; Andy Reser; Ana Ramirez; ANTHONY.HILL@dot.ohio.gov; Baukert, Frank; Blackburn, Dane D (KYTC-D06); Myers, Dianna; Gina Douthat (gdouthat@tankbus.org); LaRocca, Sarah; Mary Huller; Mitchell, Jay; Nate Brugler (Nathaniel.Brugler@dot.ohio.gov); Randy Lane; Witt, Thomas W (KYTC); Maietta, Anthony; Carpenter, Patrick (FHWA); Leslie, Michael; Wallace, Samuel (FHWA); Spencer.Smith@dot.ohio.gov; Cales, Michael; Johnson, Jocelyn (FTA); Oyler, Claire (EEC); Graham Johnson; Kenny, William; Carmany-George, Karstin (FHWA); Nallaballi, Neena; Harrod, Justin D (KYTC); Balaji, Jayalakshmi J (KYTC); Korostina, Dasha A (KYTC); Gotvald, Sunday (she/her/hers); Jennifer.VanVlerah@epa.ohio.gov; Alec.Sheets@epa.ohio.gov; CALLAHAN, BRIAN  
**Cc:** Jobe, Cassandra L (EEC); John.Ballantyne@dot.gov  
**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

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Report Suspicious

Blake,

FHWA-KY also concurs with the 15% safety margin.

Nick Vail, FHWA-KY  
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**From:** SEALS, SHAWN <SSEALS@idem.IN.gov>

**Sent:** Tuesday, February 25, 2025 12:28 PM

**To:** Borwig, Blake P (EEC) <blake.borwig@ky.gov>; Jarvis, Simone <Jarvis.Simone@epa.gov>; Andy Reser <areser@oki.org>; Ana Ramirez <aramirez@mvrpc.org>; ANTHONY.HILL@dot.ohio.gov; Baukert, Frank <FBAUKERT@indot.IN.gov>; Blackburn, Dane D (KYTC-D06) <Dane.Blackburn@ky.gov>; Myers, Dianna <Myers.Dianna@epa.gov>; Gina Douthat (gdouthat@tankbus.org) <gdouthat@tankbus.org>; LaRocca, Sarah <Larocca.Sarah@epa.gov>; Mary Huller <MHuller@go-metro.com>; Mitchell, Jay <JAYMITCHELL@indot.IN.gov>; Nate Brugler (Nathaniel.Brugler@dot.ohio.gov) <Nathaniel.Brugler@dot.ohio.gov>; Randy Lane <randy.lane@dot.ohio.gov>; Witt, Thomas W (KYTC) <Thomas.Witt@ky.gov>; Maietta, Anthony <maietta.anthony@epa.gov>; Vail, Nick (FHWA) <nick.vail@dot.gov>; Carpenter, Patrick (FHWA) <patrick.carpenter@dot.gov>; Leslie, Michael <leslie.michael@epa.gov>; Wallace, Samuel (FHWA) <samuel.wallace@dot.gov>; Spencer.Smith@dot.ohio.gov; Cales, Michael <MCALES@indot.IN.gov>; Johnson, Jocelyn (FTA) <jocelyn.johnson@dot.gov>; Oyler, Claire (EEC) <claire.oyler@ky.gov>; Graham Johnson <graham.johnson@epa.ohio.gov>; Kenny, William <William.Kenny@epa.ohio.gov>; Carmany-George, Karstin (FHWA) <k.carmanygeorge@dot.gov>; Nallaballi, Neena <Nallaballi.Neena@epa.gov>; Harrod, Justin D (KYTC) <justin.harrod@ky.gov>; Balaji, Jayalakshmi J (KYTC) <Jayalakshmi.Balaji@ky.gov>; Korostina, Dasha A (KYTC) <dasha.korostina@ky.gov>; Gotvald, Sunday (she/her/hers) <Gotvald.Sunday@epa.gov>; Jennifer.VanVlerah@epa.ohio.gov; Alec.Sheets@epa.ohio.gov; CALLAHAN, BRIAN <BCALLAHA@idem.IN.gov>

**Cc:** Jobe, Cassandra L (EEC) <Cassandra.Jobe@ky.gov>

**Subject:** Re: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

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Good Afternoon!

IDEM concurs with a 15% Margin of Safety being applied to the baseline 2037 mobile source emissions projections.

Thanks...Peace...Shawn



Shawn M. Seals

Senior Environmental Manager

DieselWise Indiana and Volkswagen Trust Administrator

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[www.idem.IN.gov](http://www.idem.IN.gov)

Scan the QR code to leave your feedback.

We appreciate your input!



**From:** Borwig, Blake P (EEC) <[blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)>

**Sent:** Tuesday, February 25, 2025 12:01 PM

**To:** Jarvis, Simone <[Jarvis.Simone@epa.gov](mailto:Jarvis.Simone@epa.gov)>; Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>; ANTHONY.HILL@dot.ohio.gov <[ANTHONY.HILL@dot.ohio.gov](mailto:ANTHONY.HILL@dot.ohio.gov)>; Baukert, Frank <[FBAUKERT@indot.IN.gov](mailto:FBAUKERT@indot.IN.gov)>; Blackburn, Dane D (KYTC-D06) <[Dane.Blackburn@ky.gov](mailto:Dane.Blackburn@ky.gov)>; Myers, Dianna <[Myers.Dianna@epa.gov](mailto:Myers.Dianna@epa.gov)>; Gina Douthat <[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>; LaRocca, Sarah <[Larocca.Sarah@epa.gov](mailto:Larocca.Sarah@epa.gov)>; Mary Huller <[MHuller@go-metro.com](mailto:MHuller@go-metro.com)>; Mitchell, Jay <[JAYMITCHELL@indot.IN.gov](mailto:JAYMITCHELL@indot.IN.gov)>; Nate Brugler (Nathaniel.Brugler@dot.ohio.gov) <[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>; Lane, Randy <[randy.lane@dot.ohio.gov](mailto:randy.lane@dot.ohio.gov)>; Witt, Thomas W (KYTC) <[Thomas.Witt@ky.gov](mailto:Thomas.Witt@ky.gov)>; Maietta, Anthony <[maietta.anthony@epa.gov](mailto:maietta.anthony@epa.gov)>; Vail, Nick (FHWA) <[nick.vail@dot.gov](mailto:nick.vail@dot.gov)>; Carpenter, Patrick (FHWA) <[patrick.carpenter@dot.gov](mailto:patrick.carpenter@dot.gov)>; Leslie, Michael <[leslie.michael@epa.gov](mailto:leslie.michael@epa.gov)>; Sam Wallace <[samuel.wallace@dot.gov](mailto:samuel.wallace@dot.gov)>; Spencer.Smith@dot.ohio.gov <[Spencer.Smith@dot.ohio.gov](mailto:Spencer.Smith@dot.ohio.gov)>; Cales, Michael <[MCALES@indot.IN.gov](mailto:MCALES@indot.IN.gov)>; Jocelyn Hoffman <[jocelyn.johnson@dot.gov](mailto:jocelyn.johnson@dot.gov)>; Oyler, Claire (EEC) <[claire.oyler@ky.gov](mailto:claire.oyler@ky.gov)>; Graham Johnson <[graham.johnson@epa.ohio.gov](mailto:graham.johnson@epa.ohio.gov)>; Kenny, William <[William.Kenny@epa.ohio.gov](mailto:William.Kenny@epa.ohio.gov)>; Carmany-George, Karstin (FHWA) <[k.carmanygeorge@dot.gov](mailto:k.carmanygeorge@dot.gov)>; Nallaballi, Neena <[Nallaballi.Neena@epa.gov](mailto:Nallaballi.Neena@epa.gov)>; Harrod, Justin D (KYTC) <[justin.harrod@ky.gov](mailto:justin.harrod@ky.gov)>; Balaji, Jayalakshmi J (KYTC) <[Jayalakshmi.Balaji@ky.gov](mailto:Jayalakshmi.Balaji@ky.gov)>; Korostina, Dasha A (KYTC) <[dasha.korostina@ky.gov](mailto:dasha.korostina@ky.gov)>; Gotvald, Sunday (she/her/hers) <[Gotvald.Sunday@epa.gov](mailto:Gotvald.Sunday@epa.gov)>; SEALS, SHAWN <[SSEALS@idem.IN.gov](mailto:SSEALS@idem.IN.gov)>; Jennifer.VanVlerah@epa.ohio.gov <[Jennifer.VanVlerah@epa.ohio.gov](mailto:Jennifer.VanVlerah@epa.ohio.gov)>; Alec.Sheets@epa.ohio.gov <[Alec.Sheets@epa.ohio.gov](mailto:Alec.Sheets@epa.ohio.gov)>; CALLAHAN, BRIAN <[BCALLAHA@idem.IN.gov](mailto:BCALLAHA@idem.IN.gov)>

**Cc:** Jobe, Cassandra L (EEC) <[Cassandra.Jobe@ky.gov](mailto:Cassandra.Jobe@ky.gov)>

**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

**EXTERNAL EMAIL:** This email was sent from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Hi all,

Thank you to everyone who attended the IAC discussion yesterday.

To recap: During the discussion, it was suggested that VMT information be moved to a separate table within our second maintenance plan. We've made this change to clarify that there are no budgets for VMT. We are only proposing NO<sub>x</sub> and VOC budgets, which include a 15% safety margin. The proposed budgets are shown in the table below.

**Motor Vehicle Emissions Budgets for the Kentucky Portion of the Cincinnati-Hamilton, OH-KY-IN Area**

	<b>2037 Maintenance Year Projections</b>	<b>2037 Safety Margin Allocation</b>	<b>2037 Motor Vehicle Emissions Budget</b>
<b>VOC (TSD)</b>	1.90	0.29	2.19
<b>NO<sub>x</sub> (TSD)</b>	1.99	0.30	2.29

Please respond indicating if you concur with the proposed budgets for the Kentucky portion of the area by Friday, February 28<sup>th</sup>.

Best regards,

**Blake Borwig**

**Environmental Scientist III**

Evaluation Section, Kentucky Division for Air Quality





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---

**From:** Borwig, Blake P (EEC)

**Sent:** Thursday, February 20, 2025 12:10 PM

**To:** Jarvis, Simone <[Jarvis.Simone@epa.gov](mailto:Jarvis.Simone@epa.gov)>; Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>; ANTHONY.HILL@dot.ohio.gov; Baukert, Frank <[FBAUKERT@indot.IN.gov](mailto:FBAUKERT@indot.IN.gov)>; Blackburn, Dane D (KYTC-D06) <[Dane.Blackburn@ky.gov](mailto:Dane.Blackburn@ky.gov)>; Myers, Dianna <[Myers.Dianna@epa.gov](mailto:Myers.Dianna@epa.gov)>; Gina Douthat ([gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)) <[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>; LaRocca, Sarah <[Larocca.Sarah@epa.gov](mailto:Larocca.Sarah@epa.gov)>; Mary Huller <[MHuller@go-metro.com](mailto:MHuller@go-metro.com)>; Mitchell, Jay <[JAYMITCHELL@indot.IN.gov](mailto:JAYMITCHELL@indot.IN.gov)>; Nate Brugler ([Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)) <[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>; Lane, Randy <[randy.lane@dot.ohio.gov](mailto:randy.lane@dot.ohio.gov)>; Witt, Thomas W (KYTC) <[Thomas.Witt@ky.gov](mailto:Thomas.Witt@ky.gov)>; Maietta, Anthony <[maietta.anthony@epa.gov](mailto:maietta.anthony@epa.gov)>; Vail, Nick (FHWA) <[nick.vail@dot.gov](mailto:nick.vail@dot.gov)>; Carpenter, Patrick (FHWA) <[patrick.carpenter@dot.gov](mailto:patrick.carpenter@dot.gov)>; Leslie, Michael <[leslie.michael@epa.gov](mailto:leslie.michael@epa.gov)>; Sam Wallace <[samuel.wallace@dot.gov](mailto:samuel.wallace@dot.gov)>; Andrea.Henderson@dot.ohio.gov; Spencer.Smith@dot.ohio.gov; Cales, Michael <[MCALES@indot.IN.gov](mailto:MCALES@indot.IN.gov)>; Jocelyn Hoffman <[jocelyn.johnson@dot.gov](mailto:jocelyn.johnson@dot.gov)>; Oyler, Claire (EEC) <[claire.oyler@ky.gov](mailto:claire.oyler@ky.gov)>; Graham Johnson <[graham.johnson@epa.ohio.gov](mailto:graham.johnson@epa.ohio.gov)>; Kenny, William <[William.Kenny@epa.ohio.gov](mailto:William.Kenny@epa.ohio.gov)>; k.carmanygeorge@dot.gov; Nallaballi, Neena <[Nallaballi.Neena@epa.gov](mailto:Nallaballi.Neena@epa.gov)>; Harrod, Justin D (KYTC) <[Justin.Harrod@ky.gov](mailto:Justin.Harrod@ky.gov)>; Balaji, Jayalakshmi J (KYTC) <[Jayalakshmi.Balaji@ky.gov](mailto:Jayalakshmi.Balaji@ky.gov)>; Korostina, Dasha A (KYTC) <[dasha.korostina@ky.gov](mailto:dasha.korostina@ky.gov)>; Gotvald, Sunday (she/her/hers) <[Gotvald.Sunday@epa.gov](mailto:Gotvald.Sunday@epa.gov)>; SEALS, SHAWN <[sseals@idem.in.gov](mailto:sseals@idem.in.gov)>; Jennifer.VanVlerah@epa.ohio.gov; Alec.Sheets@epa.ohio.gov; CALLAHAN, BRIAN <[BCALLAHA@idem.IN.gov](mailto:BCALLAHA@idem.IN.gov)>

**Cc:** Jobe, Cassandra L (EEC) <[Cassandra.Jobe@ky.gov](mailto:Cassandra.Jobe@ky.gov)>

**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

Hi all,

Just providing an update that the Division has sent out a meeting invite for Monday February 24<sup>th</sup> at 3 pm (EST) to discuss the proposed KY motor vehicle emissions budgets. The meeting will be recorded for documentation of the IAC process to be included in our SIP submittal.

Best regards,

**Blake Borwig**

**Environmental Scientist III**

Evaluation Section, Kentucky Division for Air Quality

Kentucky Energy and Environment Cabinet

Office: (502)782-2751 | [blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)



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---

**From:** Borwig, Blake P (EEC)

**Sent:** Wednesday, February 19, 2025 9:58 AM

**To:** Jarvis, Simone <[Jarvis.Simone@epa.gov](mailto:Jarvis.Simone@epa.gov)>; Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>; ANTHONY.HILL@dot.ohio.gov; Baukert, Frank <[FBAUKERT@indot.IN.gov](mailto:FBAUKERT@indot.IN.gov)>; Blackburn, Dane D (KYTC-D06) <[Dane.Blackburn@ky.gov](mailto:Dane.Blackburn@ky.gov)>; Myers, Dianna <[Myers.Dianna@epa.gov](mailto:Myers.Dianna@epa.gov)>; Gina Douthat ([gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)) <[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>; LaRocca, Sarah <[Larocca.Sarah@epa.gov](mailto:Larocca.Sarah@epa.gov)>; Mary Huller <[MHuller@go-metro.com](mailto:MHuller@go-metro.com)>; Mitchell, Jay <[JAYMITCHELL@indot.IN.gov](mailto:JAYMITCHELL@indot.IN.gov)>; Nate Brugler ([Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)) <[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>; Lane, Randy <[randy.lane@dot.ohio.gov](mailto:randy.lane@dot.ohio.gov)>; Witt, Thomas W (KYTC) <[Thomas.Witt@ky.gov](mailto:Thomas.Witt@ky.gov)>; Maietta, Anthony <[maietta.anthony@epa.gov](mailto:maietta.anthony@epa.gov)>; Vail, Nick (FHWA) <[nick.vail@dot.gov](mailto:nick.vail@dot.gov)>; Carpenter, Patrick (FHWA) <[patrick.carpenter@dot.gov](mailto:patrick.carpenter@dot.gov)>; Leslie, Michael <[leslie.michael@epa.gov](mailto:leslie.michael@epa.gov)>; Sam Wallace <[samuel.wallace@dot.gov](mailto:samuel.wallace@dot.gov)>; Andrea.Henderson@dot.ohio.gov; [Spencer.Smith@dot.ohio.gov](mailto:Spencer.Smith@dot.ohio.gov); Cales, Michael <[MCALES@indot.IN.gov](mailto:MCALES@indot.IN.gov)>; Jocelyn Hoffman <[jocelyn.johnson@dot.gov](mailto:jocelyn.johnson@dot.gov)>; Oyler, Claire (EEC) <[claire.oyler@ky.gov](mailto:claire.oyler@ky.gov)>; Graham Johnson <[graham.johnson@epa.ohio.gov](mailto:graham.johnson@epa.ohio.gov)>; Kenny, William <[William.Kenny@epa.ohio.gov](mailto:William.Kenny@epa.ohio.gov)>; [k.carmanygeorge@dot.gov](mailto:k.carmanygeorge@dot.gov); Nallaballi, Neena <[Nallaballi.Neena@epa.gov](mailto:Nallaballi.Neena@epa.gov)>; Harrod, Justin D (KYTC) <[Justin.Harrod@ky.gov](mailto:Justin.Harrod@ky.gov)>; Balaji, Jayalakshmi J (KYTC) <[Jayalakshmi.Balaji@ky.gov](mailto:Jayalakshmi.Balaji@ky.gov)>; Korostina, Dasha A (KYTC) <[dasha.korostina@ky.gov](mailto:dasha.korostina@ky.gov)>; Gotvald, Sunday (she/her/hers) <[Gotvald.Sunday@epa.gov](mailto:Gotvald.Sunday@epa.gov)>; SEALS, SHAWN <[sseals@idem.in.gov](mailto:sseals@idem.in.gov)>; [Jennifer.VanVlerah@epa.ohio.gov](mailto:Jennifer.VanVlerah@epa.ohio.gov); [Alec.Sheets@epa.ohio.gov](mailto:Alec.Sheets@epa.ohio.gov); CALLAHAN, BRIAN <[BCALLAHA@idem.IN.gov](mailto:BCALLAHA@idem.IN.gov)>

**Cc:** Jobe, Cassandra L (EEC) <[Cassandra.Jobe@ky.gov](mailto:Cassandra.Jobe@ky.gov)>

**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

Good morning all,

The Division is organizing a meeting to accommodate EPA Region 4's request to have a discussion about the proposed 2037 motor vehicle emissions budgets for the Kentucky portion of the Cincinnati-Hamilton, OH-KY-IN maintenance area. Please complete the following Doodle Poll and I'll schedule the meeting at a time that works best for everyone.

<https://doodle.com/group-poll/participate/bo81jRBd>

Thanks in advance for your timely response to the poll above.

Best regards,

**Blake Borwig**

**Environmental Scientist III**

Evaluation Section, Kentucky Division for Air Quality

Kentucky Energy and Environment Cabinet

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---

**From:** Jarvis, Simone <[Jarvis.Simone@epa.gov](mailto:Jarvis.Simone@epa.gov)>

**Sent:** Wednesday, February 19, 2025 8:35 AM

**To:** Borwig, Blake P (EEC) <[blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)>; Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>;

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**Cc:** Jobe, Cassandra L (EEC) <[Cassandra.Jobes@ky.gov](mailto:Cassandra.Jobes@ky.gov)>; Gotvald, Sunday <[Gotvald.Sunday@epa.gov](mailto:Gotvald.Sunday@epa.gov)>

**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

Following up to actually cc Sunday (whoops!)

Thanks,  
Simone

Life Scientist  
US EPA Region 4 | Air & Radiation Division  
Air Regulatory Management Section  
Phone: 404-562-8393  
E-mail: [jarvis.simone@epa.gov](mailto:jarvis.simone@epa.gov)

---

**From:** Jarvis, Simone

**Sent:** Wednesday, February 19, 2025 8:08 AM

**To:** Borwig, Blake P (EEC) <[blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)>; Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>; [ANTHONY.HILL@dot.ohio.gov](mailto:ANTHONY.HILL@dot.ohio.gov); Baukert, Frank <[FBAUKERT@indot.IN.gov](mailto:FBAUKERT@indot.IN.gov)>; Blackburn, Dane D (KYTC-D06) <[Dane.Blackburn@ky.gov](mailto:Dane.Blackburn@ky.gov)>; Myers, Dianna <[Myers.Dianna@epa.gov](mailto:Myers.Dianna@epa.gov)>; Gina Douthat ([gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)) <[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>; LaRocca, Sarah <[Larocca.Sarah@epa.gov](mailto:Larocca.Sarah@epa.gov)>; Mary Huller <[MHuller@go-metro.com](mailto:MHuller@go-metro.com)>; Mitchell, Jay <[JAYMITCHELL@indot.IN.gov](mailto:JAYMITCHELL@indot.IN.gov)>; Nate Brugler ([Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)) <[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>; Lane, Randy <[randy.lane@dot.ohio.gov](mailto:randy.lane@dot.ohio.gov)>; Witt, Thomas W (KYTC) <[Thomas.Witt@ky.gov](mailto:Thomas.Witt@ky.gov)>; Maietta, Anthony <[maietta.anthony@epa.gov](mailto:maietta.anthony@epa.gov)>; Vail, Nick (FHWA) <[nick.vail@dot.gov](mailto:nick.vail@dot.gov)>; Carpenter, Patrick (FHWA) <[patrick.carpenter@dot.gov](mailto:patrick.carpenter@dot.gov)>; Leslie, Michael <[leslie.michael@epa.gov](mailto:leslie.michael@epa.gov)>; Sam Wallace <[samuel.wallace@dot.gov](mailto:samuel.wallace@dot.gov)>; [Andrea.Henderson@dot.ohio.gov](mailto:Andrea.Henderson@dot.ohio.gov); [Spencer.Smith@dot.ohio.gov](mailto:Spencer.Smith@dot.ohio.gov); Cales, Michael <[MCALES@indot.IN.gov](mailto:MCALES@indot.IN.gov)>; Jocelyn Hoffman <[jocelyn.johnson@dot.gov](mailto:jocelyn.johnson@dot.gov)>; [claire.oyler@ky.gov](mailto:claire.oyler@ky.gov); Graham Johnson <[graham.johnson@epa.ohio.gov](mailto:graham.johnson@epa.ohio.gov)>; Kenny, William <[William.Kenny@epa.ohio.gov](mailto:William.Kenny@epa.ohio.gov)>; [daniel.forbush@dot.gov](mailto:daniel.forbush@dot.gov); [k.carmanygeorge@dot.gov](mailto:k.carmanygeorge@dot.gov); Nallaballi, Neena <[Nallaballi.Neena@epa.gov](mailto:Nallaballi.Neena@epa.gov)>; Harrod, Justin D (KYTC) <[Justin.Harrod@ky.gov](mailto:Justin.Harrod@ky.gov)>; Balaji, Jayalakshmi J (KYTC) <[Jayalakshmi.Balaji@ky.gov](mailto:Jayalakshmi.Balaji@ky.gov)>; Korostina, Dasha A (KYTC) <[dasha.korostina@ky.gov](mailto:dasha.korostina@ky.gov)>

**Cc:** Cassandra.Jobes\_ky.gov <[Cassandra.Jobes@ky.gov](mailto:Cassandra.Jobes@ky.gov)>

**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

Good morning Blake,

A quick call to discuss would be helpful. Also, could you please include Sunday Gotvald (cc'ed here) on correspondence going forward?

Thank you!  
Simone Jarvis

Life Scientist  
US EPA Region 4 | Air & Radiation Division  
Air Regulatory Management Section  
Phone: 404-562-8393  
E-mail: [jarvis.simone@epa.gov](mailto:jarvis.simone@epa.gov)

---

**From:** Borwig, Blake P (EEC) <[blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)>  
**Sent:** Tuesday, February 18, 2025 2:23 PM  
**To:** Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>; [ANTHONY.HILL@dot.ohio.gov](mailto:ANTHONY.HILL@dot.ohio.gov); Baukert, Frank <[FBAUKERT@indot.IN.gov](mailto:FBAUKERT@indot.IN.gov)>; Blackburn, Dane D (KYTC-D06) <[Dane.Blackburn@ky.gov](mailto:Dane.Blackburn@ky.gov)>; Myers, Dianna <[Myers.Dianna@epa.gov](mailto:Myers.Dianna@epa.gov)>; Gina Douthat (<[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)> <[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>); Jarvis, Simone <[Jarvis.Simone@epa.gov](mailto:Jarvis.Simone@epa.gov)>; LaRocca, Sarah <[Larocca.Sarah@epa.gov](mailto:Larocca.Sarah@epa.gov)>; Mary Huller <[MHuller@go-metro.com](mailto:MHuller@go-metro.com)>; Mitchell, Jay <[JAYMITCHELL@indot.IN.gov](mailto:JAYMITCHELL@indot.IN.gov)>; Nate Brugler (<[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)> <[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>); Lane, Randy <[randy.lane@dot.ohio.gov](mailto:randy.lane@dot.ohio.gov)>; Witt, Thomas W (KYTC) <[Thomas.Witt@ky.gov](mailto:Thomas.Witt@ky.gov)>; Maietta, Anthony <[maietta.anthony@epa.gov](mailto:maietta.anthony@epa.gov)>; Vail, Nick (FHWA) <[nick.vail@dot.gov](mailto:nick.vail@dot.gov)>; Carpenter, Patrick (FHWA) <[patrick.carpenter@dot.gov](mailto:patrick.carpenter@dot.gov)>; Leslie, Michael <[leslie.michael@epa.gov](mailto:leslie.michael@epa.gov)>; Sam Wallace <[samuel.wallace@dot.gov](mailto:samuel.wallace@dot.gov)>; [Andrea.Henderson@dot.ohio.gov](mailto:Andrea.Henderson@dot.ohio.gov); [Spencer.Smith@dot.ohio.gov](mailto:Spencer.Smith@dot.ohio.gov); Cales, Michael <[MCALES@indot.IN.gov](mailto:MCALES@indot.IN.gov)>; Jocelyn Hoffman <[jocelyn.johnson@dot.gov](mailto:jocelyn.johnson@dot.gov)>; [claire.oyler@ky.gov](mailto:claire.oyler@ky.gov); Graham Johnson <[graham.johnson@epa.ohio.gov](mailto:graham.johnson@epa.ohio.gov)>; Kenny, William <[William.Kenny@epa.ohio.gov](mailto:William.Kenny@epa.ohio.gov)>; [daniel.forbush@dot.gov](mailto:daniel.forbush@dot.gov); [k.carmanygeorge@dot.gov](mailto:k.carmanygeorge@dot.gov); Nallaballi, Neena <[Nallaballi.Neena@epa.gov](mailto:Nallaballi.Neena@epa.gov)>; Harrod, Justin D (KYTC) <[Justin.Harrod@ky.gov](mailto:Justin.Harrod@ky.gov)>; Balaji, Jayalakshmi J (KYTC) <[Jayalakshmi.Balaji@ky.gov](mailto:Jayalakshmi.Balaji@ky.gov)>; Korostina, Dasha A (KYTC) <[dasha.korostina@ky.gov](mailto:dasha.korostina@ky.gov)>  
**Cc:** Cassandra.Job\_e\_ky.gov <[Cassandra.Job\\_e\\_ky.gov](mailto:Cassandra.Job_e_ky.gov)>  
**Subject:** IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

**Caution:** This email originated from outside EPA, please exercise additional caution when deciding whether to open attachments or click on provided links.

Hello everyone,

The Kentucky Division for Air Quality (the Division) is beginning the interagency consultation process for the 2008 ozone NAAQS second 10-year maintenance plan for the Kentucky portion of the Cincinnati-Hamilton, OH-KY-IN area.

In August of 2024, the Ohio-Kentucky-Indiana Regional Council of Governments (OKI) completed MOVES modeling that resulted in the development of onroad mobile source emissions for the 2008 ozone NAAQS second 10-year maintenance plan for the Ohio, Kentucky, and Indiana portions of the Cincinnati-Hamilton, OH-KY-IN area. The August 7, 2024, OKI TSD is attached for your review.

Ohio EPA has already finalized the motor vehicle emissions budgets for the Ohio portion of the area. The Indiana Department of Environmental Management (IDEM) is in the process of finalizing the motor vehicle emissions budgets for the Indiana portion of the area.

The Division is requesting concurrence with the proposed 2037 motor vehicle emissions budgets for the Kentucky portion of the area (which are included in the table below). Please note that 2037 is the maintenance year for the area and is the only year that requires budgets. The Division chose to accommodate a 15% safety margin for the proposed budgets.

**Motor Vehicle Emissions Budgets for the Kentucky Portion of the Cincinnati-Hamilton, OH-KY-IN Area**

	<b>2037 Maintenance Year Projections</b>	<b>2037 Safety Margin Allocation</b>	<b>2037 Motor Vehicle Emissions Budget</b>
<b>VOC (TSD)</b>	1.90	0.29	2.19
<b>NOX (TSD)</b>	1.99	0.30	2.29
<b>VMT (miles/day)</b>	11,683,003	1,752,450	13,435,453

If you would like to have a call regarding this, please let me know by Friday, February 21<sup>st</sup>. Otherwise, **please respond** indicating if you concur with the proposed budgets for the Kentucky portion of the area by Friday, February 28<sup>th</sup>.

The Division would like to include all the necessary parties for this interagency consultation process. If you are aware of anyone that should be included in this interagency consultation that is not on this email, please let me know as soon as possible.

Best regards,

***Blake Borwig***

***Environmental Scientist III***

*Evaluation Section, Kentucky Division for Air Quality*

*Kentucky Energy and Environment Cabinet*

*Office: (502)782-2751 | [blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)*



Please consider the environment before printing this e-mail.

## Borwig, Blake P (EEC)

---

**From:** Wallace, Samuel (FHWA) <samuel.wallace@dot.gov>  
**Sent:** Tuesday, February 25, 2025 12:52 PM  
**To:** Borwig, Blake P (EEC); Jarvis, Simone; Andy Reser; Ana Ramirez; ANTHONY.HILL@dot.ohio.gov; Baukert, Frank; Blackburn, Dane D (KYTC-D06); Myers, Dianna; Gina Douthat (gdouthat@tankbus.org); LaRocca, Sarah; Mary Huller; Mitchell, Jay; Nate Brugler (Nathaniel.Brugler@dot.ohio.gov); Randy Lane; Witt, Thomas W (KYTC); Maietta, Anthony; Vail, Nick (FHWA); Carpenter, Patrick (FHWA); Leslie, Michael; Spencer.Smith@dot.ohio.gov; Cales, Michael; Johnson, Jocelyn (FTA); Oyler, Claire (EEC); Graham Johnson; Kenny, William; Carmany-George, Karstin (FHWA); Nallaballi, Neena; Harrod, Justin D (KYTC); Balaji, Jayalakshmi J (KYTC); Korostina, Dasha A (KYTC); Gotvald, Sunday (she/her/hers); sseals idem.in.gov; Jennifer.VanVlerah@epa.ohio.gov; Alec.Sheets@epa.ohio.gov; CALLAHAN, BRIAN  
**Cc:** Jobe, Cassandra L (EEC)  
**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

### This Message Originated from Outside the Organization

This Message Is From an External Sender.

Report Suspicious

Good Day,

FHWA-OH concurs with the proposed budgets for the Kentucky portion of the area.

Thank you for the contact and coordination.

Best Regards,  
Sam



### Sam Wallace

U.S. DOT | FHWA Ohio Division  
Community Transportation Planner  
200 North High St, Room 328  
Columbus, OH 43215  
(614) 280-6839  
[Samuel.Wallace@dot.gov](mailto:Samuel.Wallace@dot.gov)  
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---

**From:** Borwig, Blake P (EEC) <blake.borwig@ky.gov>  
**Sent:** Tuesday, February 25, 2025 12:01 PM  
**To:** Jarvis, Simone <Jarvis.Simone@epa.gov>; Andy Reser <areser@oki.org>; Ana Ramirez <aramirez@mvrpc.org>; ANTHONY.HILL@dot.ohio.gov; Baukert, Frank <FBAUKERT@indot.IN.gov>; Blackburn, Dane D (KYTC-D06) <Dane.Blackburn@ky.gov>; Myers, Dianna <Myers.Dianna@epa.gov>; Gina Douthat (gdouthat@tankbus.org) <gdouthat@tankbus.org>; LaRocca, Sarah <Larocca.Sarah@epa.gov>; Mary Huller <MHuller@go-metro.com>; Mitchell, Jay <JAYMITCHELL@indot.IN.gov>; Nate Brugler (Nathaniel.Brugler@dot.ohio.gov) <Nathaniel.Brugler@dot.ohio.gov>; Randy Lane <randy.lane@dot.ohio.gov>; Witt, Thomas W (KYTC) <Thomas.Witt@ky.gov>; Maietta, Anthony



<maietta.anthony@epa.gov>; Vail, Nick (FHWA) <nick.vail@dot.gov>; Carpenter, Patrick (FHWA) <patrick.carpenter@dot.gov>; Leslie, Michael <leslie.michael@epa.gov>; Wallace, Samuel (FHWA) <samuel.wallace@dot.gov>; Spencer.Smith@dot.ohio.gov; Cales, Michael <MCALES@indot.IN.gov>; Johnson, Jocelyn (FTA) <jocelyn.johnson@dot.gov>; Oyler, Claire (EEC) <claire.oyler@ky.gov>; Graham Johnson <graham.johnson@epa.ohio.gov>; Kenny, William <William.Kenny@epa.ohio.gov>; Carmany-George, Karstin (FHWA) <k.carmanygeorge@dot.gov>; Nallaballi, Neena <Nallaballi.Neena@epa.gov>; Harrod, Justin D (KYTC) <Justin.Harrod@ky.gov>; Balaji, Jayalakshmi J (KYTC) <Jayalakshmi.Balaji@ky.gov>; Korostina, Dasha A (KYTC) <dasha.korostina@ky.gov>; Gotvald, Sunday (she/her/hers) <Gotvald.Sunday@epa.gov>; sseals idem.in.gov <sseals@idem.in.gov>; Jennifer.VanVlerah@epa.ohio.gov; Alec.Sheets@epa.ohio.gov; CALLAHAN, BRIAN <BCALLAHA@idem.IN.gov>

**Cc:** Jobe, Cassandra L (EEC) <Cassandra.Jobe@ky.gov>

**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

**CAUTION:** This email originated from outside of the Department of Transportation (DOT). Do not click on links or open attachments unless you recognize the sender and know the content is safe.

Hi all,

Thank you to everyone who attended the IAC discussion yesterday.

To recap: During the discussion, it was suggested that VMT information be moved to a separate table within our second maintenance plan. We've made this change to clarify that there are no budgets for VMT. We are only proposing NO<sub>x</sub> and VOC budgets, which include a 15% safety margin. The proposed budgets are shown in the table below.

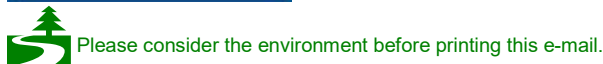
**Motor Vehicle Emissions Budgets for the Kentucky Portion of the Cincinnati-Hamilton, OH-KY-IN Area**

	<b>2037 Maintenance Year Projections</b>	<b>2037 Safety Margin Allocation</b>	<b>2037 Motor Vehicle Emissions Budget</b>
<b>VOC (TSD)</b>	1.90	0.29	2.19
<b>NO<sub>x</sub> (TSD)</b>	1.99	0.30	2.29

Please respond indicating if you concur with the proposed budgets for the Kentucky portion of the area by Friday, February 28<sup>th</sup>.

Best regards,

**Blake Borwig**  
**Environmental Scientist III**  
*Evaluation Section, Kentucky Division for Air Quality*  
*Kentucky Energy and Environment Cabinet*  
 Office: (502)782-2751 | [blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)



---

**From:** Borwig, Blake P (EEC)

**Sent:** Thursday, February 20, 2025 12:10 PM

**To:** Jarvis, Simone <[Jarvis.Simone@epa.gov](mailto:Jarvis.Simone@epa.gov)>; Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>; ANTHONY.HILL@dot.ohio.gov; Baukert, Frank <[FBAUKERT@indot.IN.gov](mailto:FBAUKERT@indot.IN.gov)>; Blackburn, Dane D (KYTC-D06) <[Dane.Blackburn@ky.gov](mailto:Dane.Blackburn@ky.gov)>; Myers, Dianna <[Myers.Dianna@epa.gov](mailto:Myers.Dianna@epa.gov)>; Gina Douthat ([gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)) <[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>; LaRocca, Sarah <[Larocca.Sarah@epa.gov](mailto:Larocca.Sarah@epa.gov)>; Mary Huller <[MHuller@go-metro.com](mailto:MHuller@go-metro.com)>; Mitchell, Jay <[JAYMITCHELL@indot.IN.gov](mailto:JAYMITCHELL@indot.IN.gov)>; Nate Brugler ([Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)) <[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>; Lane, Randy <[randy.lane@dot.ohio.gov](mailto:randy.lane@dot.ohio.gov)>; Witt, Thomas W (KYTC) <[Thomas.Witt@ky.gov](mailto:Thomas.Witt@ky.gov)>; Maietta, Anthony <[maietta.anthony@epa.gov](mailto:maietta.anthony@epa.gov)>; Vail, Nick (FHWA) <[nick.vail@dot.gov](mailto:nick.vail@dot.gov)>; Carpenter, Patrick (FHWA) <[patrick.carpenter@dot.gov](mailto:patrick.carpenter@dot.gov)>; Leslie, Michael <[leslie.michael@epa.gov](mailto:leslie.michael@epa.gov)>; Sam Wallace <[samuel.wallace@dot.gov](mailto:samuel.wallace@dot.gov)>; Andrea.Henderson@dot.ohio.gov; [Spencer.Smith@dot.ohio.gov](mailto:Spencer.Smith@dot.ohio.gov); Cales, Michael <[MCALES@indot.IN.gov](mailto:MCALES@indot.IN.gov)>; Jocelyn Hoffman <[jocelyn.johnson@dot.gov](mailto:jocelyn.johnson@dot.gov)>; Oylar, Claire (EEC) <[claire.oylar@ky.gov](mailto:claire.oylar@ky.gov)>; Graham Johnson <[graham.johnson@epa.ohio.gov](mailto:graham.johnson@epa.ohio.gov)>; Kenny, William <[William.Kenny@epa.ohio.gov](mailto:William.Kenny@epa.ohio.gov)>; [k.carmanygeorge@dot.gov](mailto:k.carmanygeorge@dot.gov); Nallaballi, Neena <[Nallaballi.Neena@epa.gov](mailto:Nallaballi.Neena@epa.gov)>; Harrod, Justin D (KYTC) <[Justin.Harrod@ky.gov](mailto:Justin.Harrod@ky.gov)>; Balaji, Jayalakshmi J (KYTC) <[Jayalakshmi.Balaji@ky.gov](mailto:Jayalakshmi.Balaji@ky.gov)>; Korostina, Dasha A (KYTC) <[dasha.korostina@ky.gov](mailto:dasha.korostina@ky.gov)>; Gotvald, Sunday (she/her/hers) <[Gotvald.Sunday@epa.gov](mailto:Gotvald.Sunday@epa.gov)>; SEALS, SHAWN <[sseals@idem.in.gov](mailto:sseals@idem.in.gov)>; [Jennifer.VanVlerah@epa.ohio.gov](mailto:Jennifer.VanVlerah@epa.ohio.gov); [Alec.Sheets@epa.ohio.gov](mailto:Alec.Sheets@epa.ohio.gov); CALLAHAN, BRIAN <[BCALLAHA@idem.IN.gov](mailto:BCALLAHA@idem.IN.gov)>

**Cc:** Jobe, Cassandra L (EEC) <[Cassandra.Jobe@ky.gov](mailto:Cassandra.Jobe@ky.gov)>

**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

Hi all,

Just providing an update that the Division has sent out a meeting invite for Monday February 24<sup>th</sup> at 3 pm (EST) to discuss the proposed KY motor vehicle emissions budgets. The meeting will be recorded for documentation of the IAC process to be included in our SIP submittal.

Best regards,

**Blake Borwig**

**Environmental Scientist III**

Evaluation Section, Kentucky Division for Air Quality

Kentucky Energy and Environment Cabinet

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---

**From:** Borwig, Blake P (EEC)

**Sent:** Wednesday, February 19, 2025 9:58 AM

**To:** Jarvis, Simone <[Jarvis.Simone@epa.gov](mailto:Jarvis.Simone@epa.gov)>; Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>; ANTHONY.HILL@dot.ohio.gov; Baukert, Frank <[FBAUKERT@indot.IN.gov](mailto:FBAUKERT@indot.IN.gov)>; Blackburn, Dane D (KYTC-D06) <[Dane.Blackburn@ky.gov](mailto:Dane.Blackburn@ky.gov)>; Myers, Dianna <[Myers.Dianna@epa.gov](mailto:Myers.Dianna@epa.gov)>; Gina Douthat ([gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)) <[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>; LaRocca, Sarah <[Larocca.Sarah@epa.gov](mailto:Larocca.Sarah@epa.gov)>; Mary Huller <[MHuller@go-metro.com](mailto:MHuller@go-metro.com)>; Mitchell, Jay <[JAYMITCHELL@indot.IN.gov](mailto:JAYMITCHELL@indot.IN.gov)>; Nate Brugler ([Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)) <[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>; Lane, Randy <[randy.lane@dot.ohio.gov](mailto:randy.lane@dot.ohio.gov)>; Witt, Thomas W (KYTC) <[Thomas.Witt@ky.gov](mailto:Thomas.Witt@ky.gov)>; Maietta, Anthony <[maietta.anthony@epa.gov](mailto:maietta.anthony@epa.gov)>; Vail, Nick (FHWA) <[nick.vail@dot.gov](mailto:nick.vail@dot.gov)>; Carpenter, Patrick (FHWA)



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Cc: Jobe, Cassandra L (EEC) <[Cassandra.Jobe@ky.gov](mailto:Cassandra.Jobe@ky.gov)>

**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

Good morning all,

The Division is organizing a meeting to accommodate EPA Region 4's request to have a discussion about the proposed 2037 motor vehicle emissions budgets for the Kentucky portion of the Cincinnati-Hamilton, OH-KY-IN maintenance area. Please complete the following Doodle Poll and I'll schedule the meeting at a time that works best for everyone.

<https://doodle.com/group-poll/participate/bo81jRBd>

Thanks in advance for your timely response to the poll above.

Best regards,

**Blake Borwig**

**Environmental Scientist III**

Evaluation Section, Kentucky Division for Air Quality

Kentucky Energy and Environment Cabinet

Office: (502)782-2751 | [blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)



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**From:** Jarvis, Simone <[Jarvis.Simone@epa.gov](mailto:Jarvis.Simone@epa.gov)>

**Sent:** Wednesday, February 19, 2025 8:35 AM

**To:** Borwig, Blake P (EEC) <[blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)>; Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>; [ANTHONY.HILL@dot.ohio.gov](mailto:ANTHONY.HILL@dot.ohio.gov); Baukert, Frank <[FBAUKERT@indot.IN.gov](mailto:FBAUKERT@indot.IN.gov)>; Blackburn, Dane D (KYTC-D06) <[Dane.Blackburn@ky.gov](mailto:Dane.Blackburn@ky.gov)>; Myers, Dianna <[Myers.Dianna@epa.gov](mailto:Myers.Dianna@epa.gov)>; Gina Douthat (<[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>) <[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>; LaRocca, Sarah <[Larocca.Sarah@epa.gov](mailto:Larocca.Sarah@epa.gov)>; Mary Huller <[MHuller@go-metro.com](mailto:MHuller@go-metro.com)>; Mitchell, Jay <[JAYMITCHELL@indot.IN.gov](mailto:JAYMITCHELL@indot.IN.gov)>; Nate Brugler (<[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>) <[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>; Lane, Randy <[randy.lane@dot.ohio.gov](mailto:randy.lane@dot.ohio.gov)>; Witt, Thomas W (KYTC) <[Thomas.Witt@ky.gov](mailto:Thomas.Witt@ky.gov)>; Maietta, Anthony <[maietta.anthony@epa.gov](mailto:maietta.anthony@epa.gov)>; Vail, Nick (FHWA) <[nick.vail@dot.gov](mailto:nick.vail@dot.gov)>; Carpenter, Patrick (FHWA) <[patrick.carpenter@dot.gov](mailto:patrick.carpenter@dot.gov)>; Leslie, Michael <[leslie.michael@epa.gov](mailto:leslie.michael@epa.gov)>; Sam Wallace <[samuel.wallace@dot.gov](mailto:samuel.wallace@dot.gov)>; [Andrea.Henderson@dot.ohio.gov](mailto:Andrea.Henderson@dot.ohio.gov); [Spencer.Smith@dot.ohio.gov](mailto:Spencer.Smith@dot.ohio.gov); Cales, Michael <[MCALES@indot.IN.gov](mailto:MCALES@indot.IN.gov)>; Jocelyn Hoffman <[jocelyn.johnson@dot.gov](mailto:jocelyn.johnson@dot.gov)>; Oyler, Claire (EEC) <[claire.oyler@ky.gov](mailto:claire.oyler@ky.gov)>; Graham Johnson <[graham.johnson@epa.ohio.gov](mailto:graham.johnson@epa.ohio.gov)>; Kenny, William <[William.Kenny@epa.ohio.gov](mailto:William.Kenny@epa.ohio.gov)>; [daniel.forbush@dot.gov](mailto:daniel.forbush@dot.gov); [k.carmanygeorge@dot.gov](mailto:k.carmanygeorge@dot.gov); Nallaballi, Neena <[Nallaballi.Neena@epa.gov](mailto:Nallaballi.Neena@epa.gov)>; Harrod, Justin D (KYTC)

<[Justin.Harrod@ky.gov](mailto:Justin.Harrod@ky.gov)>; Balaji, Jayalakshmi J (KYTC) <[Jayalakshmi.Balaji@ky.gov](mailto:Jayalakshmi.Balaji@ky.gov)>; Korostina, Dasha A (KYTC) <[dasha.korostina@ky.gov](mailto:dasha.korostina@ky.gov)>

**Cc:** Jobe, Cassandra L (EEC) <[Cassandra.Jobes@ky.gov](mailto:Cassandra.Jobes@ky.gov)>; Gotvald, Sunday <[Gotvald.Sunday@epa.gov](mailto:Gotvald.Sunday@epa.gov)>

**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

Following up to actually cc Sunday (whoops!)

Thanks,  
Simone

Life Scientist  
US EPA Region 4 | Air & Radiation Division  
Air Regulatory Management Section  
Phone: 404-562-8393  
E-mail: [jarvis.simone@epa.gov](mailto:jarvis.simone@epa.gov)

---

**From:** Jarvis, Simone

**Sent:** Wednesday, February 19, 2025 8:08 AM

**To:** Borwig, Blake P (EEC) <[blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)>; Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>; [ANTHONY.HILL@dot.ohio.gov](mailto:ANTHONY.HILL@dot.ohio.gov); Baukert, Frank <[FBAUKERT@indot.IN.gov](mailto:FBAUKERT@indot.IN.gov)>; Blackburn, Dane D (KYTC-D06) <[Dane.Blackburn@ky.gov](mailto:Dane.Blackburn@ky.gov)>; Myers, Dianna <[Myers.Dianna@epa.gov](mailto:Myers.Dianna@epa.gov)>; Gina Douthat (<[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)> <[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>); LaRocca, Sarah <[Larocca.Sarah@epa.gov](mailto:Larocca.Sarah@epa.gov)>; Mary Huller <[MHuller@go-metro.com](mailto:MHuller@go-metro.com)>; Mitchell, Jay <[JAYMITCHELL@indot.IN.gov](mailto:JAYMITCHELL@indot.IN.gov)>; Nate Brugler (<[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)> <[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>); Lane, Randy <[randy.lane@dot.ohio.gov](mailto:randy.lane@dot.ohio.gov)>; Witt, Thomas W (KYTC) <[Thomas.Witt@ky.gov](mailto:Thomas.Witt@ky.gov)>; Maietta, Anthony <[maietta.anthony@epa.gov](mailto:maietta.anthony@epa.gov)>; Vail, Nick (FHWA) <[nick.vail@dot.gov](mailto:nick.vail@dot.gov)>; Carpenter, Patrick (FHWA) <[patrick.carpenter@dot.gov](mailto:patrick.carpenter@dot.gov)>; Leslie, Michael <[leslie.michael@epa.gov](mailto:leslie.michael@epa.gov)>; Sam Wallace <[samuel.wallace@dot.gov](mailto:samuel.wallace@dot.gov)>; [Andrea.Henderson@dot.ohio.gov](mailto:Andrea.Henderson@dot.ohio.gov); [Spencer.Smith@dot.ohio.gov](mailto:Spencer.Smith@dot.ohio.gov); Cales, Michael <[MCALES@indot.IN.gov](mailto:MCALES@indot.IN.gov)>; Jocelyn Hoffman <[jocelyn.johnson@dot.gov](mailto:jocelyn.johnson@dot.gov)>; [claire.oyler@ky.gov](mailto:claire.oyler@ky.gov); Graham Johnson <[graham.johnson@epa.ohio.gov](mailto:graham.johnson@epa.ohio.gov)>; Kenny, William <[William.Kenny@epa.ohio.gov](mailto:William.Kenny@epa.ohio.gov)>; [daniel.forbush@dot.gov](mailto:daniel.forbush@dot.gov); [k.carmanygeorge@dot.gov](mailto:k.carmanygeorge@dot.gov); Nallaballi, Neena <[Nallaballi.Neena@epa.gov](mailto:Nallaballi.Neena@epa.gov)>; Harrod, Justin D (KYTC) <[Justin.Harrod@ky.gov](mailto:Justin.Harrod@ky.gov)>; Balaji, Jayalakshmi J (KYTC) <[Jayalakshmi.Balaji@ky.gov](mailto:Jayalakshmi.Balaji@ky.gov)>; Korostina, Dasha A (KYTC) <[dasha.korostina@ky.gov](mailto:dasha.korostina@ky.gov)>

**Cc:** Cassandra.Jobes\_ky.gov <[Cassandra.Jobes@ky.gov](mailto:Cassandra.Jobes@ky.gov)>

**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

Good morning Blake,

A quick call to discuss would be helpful. Also, could you please include Sunday Gotvald (cc'ed here) on correspondence going forward?

Thank you!  
Simone Jarvis

Life Scientist  
US EPA Region 4 | Air & Radiation Division  
Air Regulatory Management Section  
Phone: 404-562-8393  
E-mail: [jarvis.simone@epa.gov](mailto:jarvis.simone@epa.gov)

---

**From:** Borwig, Blake P (EEC) <[blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)>

**Sent:** Tuesday, February 18, 2025 2:23 PM

**To:** Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>; ANTHONY.HILL@dot.ohio.gov; Baukert, Frank <[FBAUKERT@indot.IN.gov](mailto:FBAUKERT@indot.IN.gov)>; Blackburn, Dane D (KYTC-D06) <[Dane.Blackburn@ky.gov](mailto:Dane.Blackburn@ky.gov)>; Myers, Dianna <[Myers.Dianna@epa.gov](mailto:Myers.Dianna@epa.gov)>; Gina Douthat ([gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)) <[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>; Jarvis, Simone <[Jarvis.Simone@epa.gov](mailto:Jarvis.Simone@epa.gov)>; LaRocca, Sarah <[Larocca.Sarah@epa.gov](mailto:Larocca.Sarah@epa.gov)>; Mary Huller <[MHuller@go-metro.com](mailto:MHuller@go-metro.com)>; Mitchell, Jay <[JAYMITCHELL@indot.IN.gov](mailto:JAYMITCHELL@indot.IN.gov)>; Nate Brugler ([Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)) <[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>; Lane, Randy <[randy.lane@dot.ohio.gov](mailto:randy.lane@dot.ohio.gov)>; Witt, Thomas W (KYTC) <[Thomas.Witt@ky.gov](mailto:Thomas.Witt@ky.gov)>; Maietta, Anthony <[maietta.anthony@epa.gov](mailto:maietta.anthony@epa.gov)>; Vail, Nick (FHWA) <[nick.vail@dot.gov](mailto:nick.vail@dot.gov)>; Carpenter, Patrick (FHWA) <[patrick.carpenter@dot.gov](mailto:patrick.carpenter@dot.gov)>; Leslie, Michael <[leslie.michael@epa.gov](mailto:leslie.michael@epa.gov)>; Sam Wallace <[samuel.wallace@dot.gov](mailto:samuel.wallace@dot.gov)>; [Andrea.Henderson@dot.ohio.gov](mailto:Andrea.Henderson@dot.ohio.gov); [Spencer.Smith@dot.ohio.gov](mailto:Spencer.Smith@dot.ohio.gov); Cales, Michael <[MCALES@indot.IN.gov](mailto:MCALES@indot.IN.gov)>; Jocelyn Hoffman <[jocelyn.johnson@dot.gov](mailto:jocelyn.johnson@dot.gov)>; [claire.oyler@ky.gov](mailto:claire.oyler@ky.gov); Graham Johnson <[graham.johnson@epa.ohio.gov](mailto:graham.johnson@epa.ohio.gov)>; Kenny, William <[William.Kenny@epa.ohio.gov](mailto:William.Kenny@epa.ohio.gov)>; [daniel.forbush@dot.gov](mailto:daniel.forbush@dot.gov); [k.carmanygeorge@dot.gov](mailto:k.carmanygeorge@dot.gov); Nallaballi, Neena <[Nallaballi.Neena@epa.gov](mailto:Nallaballi.Neena@epa.gov)>; Harrod, Justin D (KYTC) <[Justin.Harrod@ky.gov](mailto:Justin.Harrod@ky.gov)>; Balaji, Jayalakshmi J (KYTC) <[Jayalakshmi.Balaji@ky.gov](mailto:Jayalakshmi.Balaji@ky.gov)>; Korostina, Dasha A (KYTC) <[dasha.korostina@ky.gov](mailto:dasha.korostina@ky.gov)>

**Cc:** Cassandra.Job\_e\_ky.gov <[Cassandra.Job\\_e\\_ky.gov](mailto:Cassandra.Job_e_ky.gov)>

**Subject:** IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

**Caution:** This email originated from outside EPA, please exercise additional caution when deciding whether to open attachments or click on provided links.

Hello everyone,

The Kentucky Division for Air Quality (the Division) is beginning the interagency consultation process for the 2008 ozone NAAQS second 10-year maintenance plan for the Kentucky portion of the Cincinnati-Hamilton, OH-KY-IN area.

In August of 2024, the Ohio-Kentucky-Indiana Regional Council of Governments (OKI) completed MOVES modeling that resulted in the development of onroad mobile source emissions for the 2008 ozone NAAQS second 10-year maintenance plan for the Ohio, Kentucky, and Indiana portions of the Cincinnati-Hamilton, OH-KY-IN area. The August 7, 2024, OKI TSD is attached for your review.

Ohio EPA has already finalized the motor vehicle emissions budgets for the Ohio portion of the area. The Indiana Department of Environmental Management (IDEM) is in the process of finalizing the motor vehicle emissions budgets for the Indiana portion of the area.

The Division is requesting concurrence with the proposed 2037 motor vehicle emissions budgets for the Kentucky portion of the area (which are included in the table below). Please note that 2037 is the maintenance year for the area and is the only year that requires budgets. The Division chose to accommodate a 15% safety margin for the proposed budgets.

**Motor Vehicle Emissions Budgets for the Kentucky Portion of the Cincinnati-Hamilton, OH-KY-IN Area**

	<b>2037 Maintenance Year Projections</b>	<b>2037 Safety Margin Allocation</b>	<b>2037 Motor Vehicle Emissions Budget</b>
<b>VOC (TSD)</b>	1.90	0.29	2.19
<b>NOX (TSD)</b>	1.99	0.30	2.29
<b>VMT (miles/day)</b>	11,683,003	1,752,450	13,435,453

If you would like to have a call regarding this, please let me know by Friday, February 21<sup>st</sup>. Otherwise, **please respond** indicating if you concur with the proposed budgets for the Kentucky portion of the area by Friday, February 28<sup>th</sup>.

The Division would like to include all the necessary parties for this interagency consultation process. If you are aware of anyone that should be included in this interagency consultation that is not on this email, please let me know as soon as possible.

Best regards,

***Blake Borwig***

***Environmental Scientist III***

*Evaluation Section, Kentucky Division for Air Quality*

*Kentucky Energy and Environment Cabinet*

*Office: (502)782-2751 | [blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)*



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## Borwig, Blake P (EEC)

---

**From:** Andy Reser <ARESER@oki.org>  
**Sent:** Monday, February 24, 2025 3:59 PM  
**To:** Borwig, Blake P (EEC)  
**Subject:** Re: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

### This Message Originated from Outside the Organization

This Message Is From an External Sender.

Report Suspicious

Blake,

OKI concurs with the proposed VOC and NOx MVEB's.

#### Andy Reser, AICP

*Manager of Transportation Programming*

OKI Regional Council of Governments

720 E. Pete Rose Way, Suite 420 Cincinnati, Ohio 45202

513.619.7688

[www.oki.org](http://www.oki.org) | [areser@oki.org](mailto:areser@oki.org)



---

**From:** Borwig, Blake P (EEC) <blake.borwig@ky.gov>

**Sent:** Tuesday, February 18, 2025 2:22 PM

**To:** Andy Reser <ARESER@oki.org>; Ana Ramirez <aramirez@mvrpc.org>; ANTHONY.HILL@dot.ohio.gov <ANTHONY.HILL@dot.ohio.gov>; Baukert, Frank <FBAUKERT@indot.IN.gov>; Blackburn, Dane D (KYTC-D06) <Dane.Blackburn@ky.gov>; Dianna B. Myers (myers.dianna@epa.gov) <myers.dianna@epa.gov>; Gina Douthat (gdouthat@tankbus.org) <gdouthat@tankbus.org>; Jarvis, Simone (she/her/hers) <Jarvis.Simone@epa.gov>; Larocca, Sarah <Larocca.Sarah@epa.gov>; Mary Huller <MHuller@go-metro.com>; Mitchell, Jay <JAYMITCHELL@indot.IN.gov>; Nate Brugler (Nathaniel.Brugler@dot.ohio.gov) <Nathaniel.Brugler@dot.ohio.gov>; Lane, Randy <randy.lane@dot.ohio.gov>; Witt, Thomas W (KYTC) <Thomas.Witt@ky.gov>; Tony Maietta <maietta.anthony@epa.gov>; Vail, Nick (FHWA) <nick.vail@dot.gov>; Carpenter, Patrick (FHWA) <patrick.carpenter@dot.gov>; Michael Leslie <leslie.michael@epa.gov>; Sam Wallace <samuel.wallace@dot.gov>; Andrea.Henderson@dot.ohio.gov <Andrea.Henderson@dot.ohio.gov>; Spencer.Smith@dot.ohio.gov <Spencer.Smith@dot.ohio.gov>; Cales, Michael <MCALES@indot.IN.gov>; Jocelyn Hoffman <jocelyn.johnson@dot.gov>; Oyler, Claire (EEC) <claire.oyler@ky.gov>; Graham Johnson <graham.johnson@epa.ohio.gov>; william.kenny@epa.ohio.gov <William.Kenny@epa.ohio.gov>; daniel.forbush@dot.gov <daniel.forbush@dot.gov>; Carmany-George, Karstin (FHWA) <k.carmanygeorge@dot.gov>; Neena Nallaballi <Nallaballi.Neena@epa.gov>; Harrod, Justin D (KYTC) <Justin.Harrod@ky.gov>; Balaji, Jayalakshmi J (KYTC) <Jayalakshmi.Balaji@ky.gov>; Korostina, Dasha A (KYTC) <dasha.korostina@ky.gov>

**Cc:** Jobe, Cassandra L (EEC) <Cassandra.Jobe@ky.gov>

**Subject:** IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

Hello everyone,

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In August of 2024, the Ohio-Kentucky-Indiana Regional Council of Governments (OKI) completed MOVES modeling that resulted in the development of onroad mobile source emissions for the 2008 ozone NAAQS second 10-year maintenance plan for the Ohio, Kentucky, and Indiana portions of the Cincinnati-Hamilton, OH-KY-IN area. The August 7, 2024, OKI TSD is attached for your review.

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<b>NOX (TSD)</b>	1.99	0.30	2.29
<b>VMT (miles/day)</b>	11,683,003	1,752,450	13,435,453

If you would like to have a call regarding this, please let me know by Friday, February 21<sup>st</sup>. Otherwise, **please respond** indicating if you concur with the proposed budgets for the Kentucky portion of the area by Friday, February 28<sup>th</sup>.

The Division would like to include all the necessary parties for this interagency consultation process. If you are aware of anyone that should be included in this interagency consultation that is not on this email, please let me know as soon as possible.

Best regards,

**Blake Borwig**  
**Environmental Scientist III**  
Evaluation Section, Kentucky Division for Air Quality  
Kentucky Energy and Environment Cabinet  
Office: (502)782-2751 | [blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)





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## Borwig, Blake P (EEC)

---

**From:** SEALS, SHAWN <SSEALS@idem.IN.gov>  
**Sent:** Tuesday, February 25, 2025 12:28 PM  
**To:** Borwig, Blake P (EEC); Jarvis, Simone; Andy Reser; Ana Ramirez; ANTHONY.HILL@dot.ohio.gov; Baukert, Frank; Blackburn, Dane D (KYTC-D06); Myers, Dianna; Gina Douthat (gdouthat@tankbus.org); LaRocca, Sarah; Mary Huller; Mitchell, Jay; Nate Brugler (Nathaniel.Brugler@dot.ohio.gov); Lane, Randy; Witt, Thomas W (KYTC); Maietta, Anthony; Vail, Nick (FHWA); Carpenter, Patrick (FHWA); Leslie, Michael; Sam Wallace; Spencer.Smith@dot.ohio.gov; Cales, Michael; Jocelyn Hoffman; Oyler, Claire (EEC); Graham Johnson; Kenny, William; Carmany-George, Karstin (FHWA); Nallaballi, Neena; Harrod, Justin D (KYTC); Balaji, Jayalakshmi J (KYTC); Korostina, Dasha A (KYTC); Gotvald, Sunday (she/her/hers); Jennifer.VanVlerah@epa.ohio.gov; Alec.Sheets@epa.ohio.gov; CALLAHAN, BRIAN  
**Cc:** Jobe, Cassandra L (EEC)  
**Subject:** Re: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

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Good Afternoon!

IDEM concurs with a 15% Margin of Safety being applied to the baseline 2037 mobile source emissions projections.

Thanks...Peace...Shawn



**Shawn M. Seals**

Senior Environmental Manager

DieselWise Indiana and Volkswagen Trust Administrator

(317) 233-0425 • [SSeals@idem.IN.gov](mailto:SSeals@idem.IN.gov)



[www.idem.IN.gov](http://www.idem.IN.gov)

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We appreciate your input!



---

**From:** Borwig, Blake P (EEC) <blake.borwig@ky.gov>

**Sent:** Tuesday, February 25, 2025 12:01 PM

**To:** Jarvis, Simone <Jarvis.Simone@epa.gov>; Andy Reser <areser@oki.org>; Ana Ramirez <aramirez@mvrpc.org>;



ANTHONY.HILL@dot.ohio.gov <ANTHONY.HILL@dot.ohio.gov>; Baukert, Frank <FBAUKERT@indot.IN.gov>; Blackburn, Dane D (KYTC-D06) <Dane.Blackburn@ky.gov>; Myers, Dianna <Myers.Dianna@epa.gov>; Gina Douthat (gdouthat@tankbus.org) <gdouthat@tankbus.org>; LaRocca, Sarah <Larocca.Sarah@epa.gov>; Mary Huller <MHuller@go-metro.com>; Mitchell, Jay <JAYMITCHELL@indot.IN.gov>; Nate Brugler (Nathaniel.Brugler@dot.ohio.gov) <Nathaniel.Brugler@dot.ohio.gov>; Lane, Randy <randy.lane@dot.ohio.gov>; Witt, Thomas W (KYTC) <Thomas.Witt@ky.gov>; Maietta, Anthony <maietta.anthony@epa.gov>; Vail, Nick (FHWA) <nick.vail@dot.gov>; Carpenter, Patrick (FHWA) <patrick.carpenter@dot.gov>; Leslie, Michael <leslie.michael@epa.gov>; Sam Wallace <samuel.wallace@dot.gov>; Spencer.Smith@dot.ohio.gov <Spencer.Smith@dot.ohio.gov>; Cales, Michael <MCALES@indot.IN.gov>; Jocelyn Hoffman <jocelyn.johnson@dot.gov>; Oyler, Claire (EEC) <claire.oyler@ky.gov>; Graham Johnson <graham.johnson@epa.ohio.gov>; Kenny, William <William.Kenny@epa.ohio.gov>; Carmany-George, Karstin (FHWA) <k.carmanygeorge@dot.gov>; Nallaballi, Neena <Nallaballi.Neena@epa.gov>; Harrod, Justin D (KYTC) <justin.harrod@ky.gov>; Balaji, Jayalakshmi J (KYTC) <Jayalakshmi.Balaji@ky.gov>; Korostina, Dasha A (KYTC) <dasha.korostina@ky.gov>; Gotvald, Sunday (she/her/hers) <Gotvald.Sunday@epa.gov>; SEALS, SHAWN <SSEALS@idem.IN.gov>; Jennifer.VanVlerah@epa.ohio.gov <Jennifer.VanVlerah@epa.ohio.gov>; Alec.Sheets@epa.ohio.gov <Alec.Sheets@epa.ohio.gov>; CALLAHAN, BRIAN <BCALLAHA@idem.IN.gov>  
**Cc:** Jobe, Cassandra L (EEC) <Cassandra.Jobe@ky.gov>

**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

**EXTERNAL EMAIL:** This email was sent from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Hi all,

Thank you to everyone who attended the IAC discussion yesterday.

To recap: During the discussion, it was suggested that VMT information be moved to a separate table within our second maintenance plan. We've made this change to clarify that there are no budgets for VMT. We are only proposing NO<sub>x</sub> and VOC budgets, which include a 15% safety margin. The proposed budgets are shown in the table below.

**Motor Vehicle Emissions Budgets for the Kentucky Portion of the Cincinnati-Hamilton, OH-KY-IN Area**

	<b>2037 Maintenance Year Projections</b>	<b>2037 Safety Margin Allocation</b>	<b>2037 Motor Vehicle Emissions Budget</b>
<b>VOC (TSD)</b>	1.90	0.29	2.19
<b>NO<sub>x</sub> (TSD)</b>	1.99	0.30	2.29

Please respond indicating if you concur with the proposed budgets for the Kentucky portion of the area by Friday, February 28<sup>th</sup>.

Best regards,

**Blake Borwig**  
*Environmental Scientist III*  
 Evaluation Section, Kentucky Division for Air Quality  
 Kentucky Energy and Environment Cabinet  
 Office: (502)782-2751 | [blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)



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**From:** Borwig, Blake P (EEC)

**Sent:** Thursday, February 20, 2025 12:10 PM

**To:** Jarvis, Simone <Jarvis.Simone@epa.gov>; Andy Reser <areser@oki.org>; Ana Ramirez <aramirez@mvrpc.org>; ANTHONY.HILL@dot.ohio.gov; Baukert, Frank <FBAUKERT@indot.IN.gov>; Blackburn, Dane D (KYTC-D06) <Dane.Blackburn@ky.gov>; Myers, Dianna <Myers.Dianna@epa.gov>; Gina Douthat (gdouthat@tankbus.org) <gdouthat@tankbus.org>; LaRocca, Sarah <Larocca.Sarah@epa.gov>; Mary Huller <MHuller@go-metro.com>; Mitchell, Jay <JAYMITCHELL@indot.IN.gov>; Nate Brugler (Nathaniel.Brugler@dot.ohio.gov) <Nathaniel.Brugler@dot.ohio.gov>; Lane, Randy <randy.lane@dot.ohio.gov>; Witt, Thomas W (KYTC) <Thomas.Witt@ky.gov>; Maietta, Anthony <maietta.anthony@epa.gov>; Vail, Nick (FHWA) <nick.vail@dot.gov>; Carpenter, Patrick (FHWA) <patrick.carpenter@dot.gov>; Leslie, Michael <leslie.michael@epa.gov>; Sam Wallace <samuel.wallace@dot.gov>; Andrea.Henderson@dot.ohio.gov; Spencer.Smith@dot.ohio.gov; Cales, Michael <MCALES@indot.IN.gov>; Jocelyn Hoffman <jocelyn.johnson@dot.gov>; Oyler, Claire (EEC) <claire.oyler@ky.gov>; Graham Johnson <graham.johnson@epa.ohio.gov>; Kenny, William <William.Kenny@epa.ohio.gov>; k.carmanygeorge@dot.gov; Nallaballi, Neena <Nallaballi.Neena@epa.gov>; Harrod, Justin D (KYTC) <Justin.Harrod@ky.gov>; Balaji, Jayalakshmi J (KYTC) <Jayalakshmi.Balaji@ky.gov>; Korostina, Dasha A (KYTC) <dasha.korostina@ky.gov>; Gotvald, Sunday (she/her/hers) <Gotvald.Sunday@epa.gov>; SEALS, SHAWN <sseals@idem.in.gov>; Jennifer.VanVlerah@epa.ohio.gov; Alec.Sheets@epa.ohio.gov; CALLAHAN, BRIAN <BCALLAHA@idem.IN.gov>

**Cc:** Jobe, Cassandra L (EEC) <Cassandra.Jobe@ky.gov>

**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

Hi all,

Just providing an update that the Division has sent out a meeting invite for Monday February 24<sup>th</sup> at 3 pm (EST) to discuss the proposed KY motor vehicle emissions budgets. The meeting will be recorded for documentation of the IAC process to be included in our SIP submittal.

Best regards,

**Blake Borwig**

**Environmental Scientist III**

*Evaluation Section, Kentucky Division for Air Quality*

*Kentucky Energy and Environment Cabinet*

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---

**From:** Borwig, Blake P (EEC)

**Sent:** Wednesday, February 19, 2025 9:58 AM

**To:** Jarvis, Simone <[Jarvis.Simone@epa.gov](mailto:Jarvis.Simone@epa.gov)>; Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>; ANTHONY.HILL@dot.ohio.gov; Baukert, Frank <[FBAUKERT@indot.IN.gov](mailto:FBAUKERT@indot.IN.gov)>; Blackburn, Dane D (KYTC-D06) <[Dane.Blackburn@ky.gov](mailto:Dane.Blackburn@ky.gov)>; Myers, Dianna <[Myers.Dianna@epa.gov](mailto:Myers.Dianna@epa.gov)>; Gina Douthat ([gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)) <[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>; LaRocca, Sarah <[Larocca.Sarah@epa.gov](mailto:Larocca.Sarah@epa.gov)>; Mary Huller <[MHuller@go-metro.com](mailto:MHuller@go-metro.com)>; Mitchell, Jay <[JAYMITCHELL@indot.IN.gov](mailto:JAYMITCHELL@indot.IN.gov)>; Nate Brugler ([Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)) <[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>; Lane, Randy <[randy.lane@dot.ohio.gov](mailto:randy.lane@dot.ohio.gov)>; Witt, Thomas W (KYTC) <[Thomas.Witt@ky.gov](mailto:Thomas.Witt@ky.gov)>; Maietta, Anthony <[maietta.anthony@epa.gov](mailto:maietta.anthony@epa.gov)>; Vail, Nick (FHWA) <[nick.vail@dot.gov](mailto:nick.vail@dot.gov)>; Carpenter, Patrick (FHWA) <[patrick.carpenter@dot.gov](mailto:patrick.carpenter@dot.gov)>; Leslie, Michael <[leslie.michael@epa.gov](mailto:leslie.michael@epa.gov)>; Sam Wallace <[samuel.wallace@dot.gov](mailto:samuel.wallace@dot.gov)>; Andrea.Henderson@dot.ohio.gov; [Spencer.Smith@dot.ohio.gov](mailto:Spencer.Smith@dot.ohio.gov); Cales, Michael <[MCALES@indot.IN.gov](mailto:MCALES@indot.IN.gov)>; Jocelyn Hoffman <[jocelyn.johnson@dot.gov](mailto:jocelyn.johnson@dot.gov)>; Oylar, Claire (EEC) <[claire.oylar@ky.gov](mailto:claire.oylar@ky.gov)>; Graham Johnson <[graham.johnson@epa.ohio.gov](mailto:graham.johnson@epa.ohio.gov)>; Kenny, William <[William.Kenny@epa.ohio.gov](mailto:William.Kenny@epa.ohio.gov)>; [k.carmanygeorge@dot.gov](mailto:k.carmanygeorge@dot.gov); Nallaballi, Neena <[Nallaballi.Neena@epa.gov](mailto:Nallaballi.Neena@epa.gov)>; Harrod, Justin D (KYTC) <[Justin.Harrod@ky.gov](mailto:Justin.Harrod@ky.gov)>; Balaji, Jayalakshmi J (KYTC) <[Jayalakshmi.Balaji@ky.gov](mailto:Jayalakshmi.Balaji@ky.gov)>; Korostina, Dasha A (KYTC) <[dasha.korostina@ky.gov](mailto:dasha.korostina@ky.gov)>; Gotvald, Sunday (she/her/hers) <[Gotvald.Sunday@epa.gov](mailto:Gotvald.Sunday@epa.gov)>; SEALS, SHAWN <[sseals@idem.in.gov](mailto:sseals@idem.in.gov)>; [Jennifer.VanVlerah@epa.ohio.gov](mailto:Jennifer.VanVlerah@epa.ohio.gov); [Alec.Sheets@epa.ohio.gov](mailto:Alec.Sheets@epa.ohio.gov); CALLAHAN, BRIAN <[BCALLAHA@idem.IN.gov](mailto:BCALLAHA@idem.IN.gov)>

**Cc:** Jobe, Cassandra L (EEC) <[Cassandra.Jobe@ky.gov](mailto:Cassandra.Jobe@ky.gov)>

**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

Good morning all,

The Division is organizing a meeting to accommodate EPA Region 4's request to have a discussion about the proposed 2037 motor vehicle emissions budgets for the Kentucky portion of the Cincinnati-Hamilton, OH-KY-IN maintenance area. Please complete the following Doodle Poll and I'll schedule the meeting at a time that works best for everyone.

<https://doodle.com/group-poll/participate/bo81jRBd>

Thanks in advance for your timely response to the poll above.

Best regards,

**Blake Borwig**

**Environmental Scientist III**

Evaluation Section, Kentucky Division for Air Quality

Kentucky Energy and Environment Cabinet

Office: (502)782-2751 | [blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)



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**From:** Jarvis, Simone <[Jarvis.Simone@epa.gov](mailto:Jarvis.Simone@epa.gov)>

**Sent:** Wednesday, February 19, 2025 8:35 AM

**To:** Borwig, Blake P (EEC) <[blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)>; Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>; ANTHONY.HILL@dot.ohio.gov; Baukert, Frank <[FBAUKERT@indot.IN.gov](mailto:FBAUKERT@indot.IN.gov)>; Blackburn, Dane D (KYTC-D06)

<[Dane.Blackburn@ky.gov](mailto:Dane.Blackburn@ky.gov)>; Myers, Dianna <[Myers.Dianna@epa.gov](mailto:Myers.Dianna@epa.gov)>; Gina Douthat ([gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)) <[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>; LaRocca, Sarah <[Larocca.Sarah@epa.gov](mailto:Larocca.Sarah@epa.gov)>; Mary Huller <[MHuller@go-metro.com](mailto:MHuller@go-metro.com)>; Mitchell, Jay <[JAYMITCHELL@indot.IN.gov](mailto:JAYMITCHELL@indot.IN.gov)>; Nate Brugler ([Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)) <[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>; Lane, Randy <[randy.lane@dot.ohio.gov](mailto:randy.lane@dot.ohio.gov)>; Witt, Thomas W (KYTC) <[Thomas.Witt@ky.gov](mailto:Thomas.Witt@ky.gov)>; Maietta, Anthony <[maietta.anthony@epa.gov](mailto:maietta.anthony@epa.gov)>; Vail, Nick (FHWA) <[nick.vail@dot.gov](mailto:nick.vail@dot.gov)>; Carpenter, Patrick (FHWA) <[patrick.carpenter@dot.gov](mailto:patrick.carpenter@dot.gov)>; Leslie, Michael <[leslie.michael@epa.gov](mailto:leslie.michael@epa.gov)>; Sam Wallace <[samuel.wallace@dot.gov](mailto:samuel.wallace@dot.gov)>; [Andrea.Henderson@dot.ohio.gov](mailto:Andrea.Henderson@dot.ohio.gov); [Spencer.Smith@dot.ohio.gov](mailto:Spencer.Smith@dot.ohio.gov); Cales, Michael <[MCALES@indot.IN.gov](mailto:MCALES@indot.IN.gov)>; Jocelyn Hoffman <[jocelyn.johnson@dot.gov](mailto:jocelyn.johnson@dot.gov)>; Oyler, Claire (EEC) <[claire.oyler@ky.gov](mailto:claire.oyler@ky.gov)>; Graham Johnson <[graham.johnson@epa.ohio.gov](mailto:graham.johnson@epa.ohio.gov)>; Kenny, William <[William.Kenny@epa.ohio.gov](mailto:William.Kenny@epa.ohio.gov)>; [daniel.forbush@dot.gov](mailto:daniel.forbush@dot.gov); [k.carmanygeorge@dot.gov](mailto:k.carmanygeorge@dot.gov); Nallaballi, Neena <[Nallaballi.Neena@epa.gov](mailto:Nallaballi.Neena@epa.gov)>; Harrod, Justin D (KYTC) <[Justin.Harrod@ky.gov](mailto:Justin.Harrod@ky.gov)>; Balaji, Jayalakshmi J (KYTC) <[Jayalakshmi.Balaji@ky.gov](mailto:Jayalakshmi.Balaji@ky.gov)>; Korostina, Dasha A (KYTC) <[dasha.korostina@ky.gov](mailto:dasha.korostina@ky.gov)>  
**Cc:** Jobe, Cassandra L (EEC) <[Cassandra.Jobe@ky.gov](mailto:Cassandra.Jobe@ky.gov)>; Gotvald, Sunday <[Gotvald.Sunday@epa.gov](mailto:Gotvald.Sunday@epa.gov)>  
**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

Following up to actually cc Sunday (whoops!)

Thanks,  
Simone

Life Scientist  
US EPA Region 4 | Air & Radiation Division  
Air Regulatory Management Section  
Phone: 404-562-8393  
E-mail: [jarvis.simone@epa.gov](mailto:jarvis.simone@epa.gov)

---

**From:** Jarvis, Simone

**Sent:** Wednesday, February 19, 2025 8:08 AM

**To:** Borwig, Blake P (EEC) <[blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)>; Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>; [ANTHONY.HILL@dot.ohio.gov](mailto:ANTHONY.HILL@dot.ohio.gov); Baukert, Frank <[FBAUKERT@indot.IN.gov](mailto:FBAUKERT@indot.IN.gov)>; Blackburn, Dane D (KYTC-D06) <[Dane.Blackburn@ky.gov](mailto:Dane.Blackburn@ky.gov)>; Myers, Dianna <[Myers.Dianna@epa.gov](mailto:Myers.Dianna@epa.gov)>; Gina Douthat ([gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)) <[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>; LaRocca, Sarah <[Larocca.Sarah@epa.gov](mailto:Larocca.Sarah@epa.gov)>; Mary Huller <[MHuller@go-metro.com](mailto:MHuller@go-metro.com)>; Mitchell, Jay <[JAYMITCHELL@indot.IN.gov](mailto:JAYMITCHELL@indot.IN.gov)>; Nate Brugler ([Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)) <[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>; Lane, Randy <[randy.lane@dot.ohio.gov](mailto:randy.lane@dot.ohio.gov)>; Witt, Thomas W (KYTC) <[Thomas.Witt@ky.gov](mailto:Thomas.Witt@ky.gov)>; Maietta, Anthony <[maietta.anthony@epa.gov](mailto:maietta.anthony@epa.gov)>; Vail, Nick (FHWA) <[nick.vail@dot.gov](mailto:nick.vail@dot.gov)>; Carpenter, Patrick (FHWA) <[patrick.carpenter@dot.gov](mailto:patrick.carpenter@dot.gov)>; Leslie, Michael <[leslie.michael@epa.gov](mailto:leslie.michael@epa.gov)>; Sam Wallace <[samuel.wallace@dot.gov](mailto:samuel.wallace@dot.gov)>; [Andrea.Henderson@dot.ohio.gov](mailto:Andrea.Henderson@dot.ohio.gov); [Spencer.Smith@dot.ohio.gov](mailto:Spencer.Smith@dot.ohio.gov); Cales, Michael <[MCALES@indot.IN.gov](mailto:MCALES@indot.IN.gov)>; Jocelyn Hoffman <[jocelyn.johnson@dot.gov](mailto:jocelyn.johnson@dot.gov)>; [claire.oyler@ky.gov](mailto:claire.oyler@ky.gov); Graham Johnson <[graham.johnson@epa.ohio.gov](mailto:graham.johnson@epa.ohio.gov)>; Kenny, William <[William.Kenny@epa.ohio.gov](mailto:William.Kenny@epa.ohio.gov)>; [daniel.forbush@dot.gov](mailto:daniel.forbush@dot.gov); [k.carmanygeorge@dot.gov](mailto:k.carmanygeorge@dot.gov); Nallaballi, Neena <[Nallaballi.Neena@epa.gov](mailto:Nallaballi.Neena@epa.gov)>; Harrod, Justin D (KYTC) <[Justin.Harrod@ky.gov](mailto:Justin.Harrod@ky.gov)>; Balaji, Jayalakshmi J (KYTC) <[Jayalakshmi.Balaji@ky.gov](mailto:Jayalakshmi.Balaji@ky.gov)>; Korostina, Dasha A (KYTC) <[dasha.korostina@ky.gov](mailto:dasha.korostina@ky.gov)>

**Cc:** Cassandra.Jobepky.gov <[Cassandra.Jobepky.gov](mailto:Cassandra.Jobepky.gov)>

**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

Good morning Blake,

A quick call to discuss would be helpful. Also, could you please include Sunday Gotvald (cc'ed here) on correspondence going forward?

Thank you!

Simone Jarvis

Life Scientist

US EPA Region 4 | Air & Radiation Division

Air Regulatory Management Section

Phone: 404-562-8393

E-mail: [jarvis.simone@epa.gov](mailto:jarvis.simone@epa.gov)

---

**From:** Borwig, Blake P (EEC) <[blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)>

**Sent:** Tuesday, February 18, 2025 2:23 PM

**To:** Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>; ANTHONY.HILL@dot.ohio.gov; Baukert, Frank <[FBAUKERT@indot.IN.gov](mailto:FBAUKERT@indot.IN.gov)>; Blackburn, Dane D (KYTC-D06) <[Dane.Blackburn@ky.gov](mailto:Dane.Blackburn@ky.gov)>; Myers, Dianna <[Myers.Dianna@epa.gov](mailto:Myers.Dianna@epa.gov)>; Gina Douthat (<[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)> <[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>); Jarvis, Simone <[Jarvis.Simone@epa.gov](mailto:Jarvis.Simone@epa.gov)>; LaRocca, Sarah <[Larocca.Sarah@epa.gov](mailto:Larocca.Sarah@epa.gov)>; Mary Huller <[MHuller@go-metro.com](mailto:MHuller@go-metro.com)>; Mitchell, Jay <[JAYMITCHELL@indot.IN.gov](mailto:JAYMITCHELL@indot.IN.gov)>; Nate Brugler (<[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)> <[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>); Lane, Randy <[randy.lane@dot.ohio.gov](mailto:randy.lane@dot.ohio.gov)>; Witt, Thomas W (KYTC) <[Thomas.Witt@ky.gov](mailto:Thomas.Witt@ky.gov)>; Maietta, Anthony <[maietta.anthony@epa.gov](mailto:maietta.anthony@epa.gov)>; Vail, Nick (FHWA) <[nick.vail@dot.gov](mailto:nick.vail@dot.gov)>; Carpenter, Patrick (FHWA) <[patrick.carpenter@dot.gov](mailto:patrick.carpenter@dot.gov)>; Leslie, Michael <[leslie.michael@epa.gov](mailto:leslie.michael@epa.gov)>; Sam Wallace <[samuel.wallace@dot.gov](mailto:samuel.wallace@dot.gov)>; Andrea.Henderson@dot.ohio.gov; Spencer.Smith@dot.ohio.gov; Cales, Michael <[MCALES@indot.IN.gov](mailto:MCALES@indot.IN.gov)>; Jocelyn Hoffman <[jocelyn.johnson@dot.gov](mailto:jocelyn.johnson@dot.gov)>; claire.oyley@ky.gov; Graham Johnson <[graham.johnson@epa.ohio.gov](mailto:graham.johnson@epa.ohio.gov)>; Kenny, William <[William.Kenny@epa.ohio.gov](mailto:William.Kenny@epa.ohio.gov)>; daniel.forbush@dot.gov; k.carmanygeorge@dot.gov; Nallaballi, Neena <[Nallaballi.Neena@epa.gov](mailto:Nallaballi.Neena@epa.gov)>; Harrod, Justin D (KYTC) <[Justin.Harrod@ky.gov](mailto:Justin.Harrod@ky.gov)>; Balaji, Jayalakshmi J (KYTC) <[Jayalakshmi.Balaji@ky.gov](mailto:Jayalakshmi.Balaji@ky.gov)>; Korostina, Dasha A (KYTC) <[dasha.korostina@ky.gov](mailto:dasha.korostina@ky.gov)>

**Cc:** Cassandra.Job\_e\_ky.gov <[Cassandra.Job\\_e\\_ky.gov](mailto:Cassandra.Job_e_ky.gov)>

**Subject:** IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

**Caution:** This email originated from outside EPA, please exercise additional caution when deciding whether to open attachments or click on provided links.

Hello everyone,

The Kentucky Division for Air Quality (the Division) is beginning the interagency consultation process for the 2008 ozone NAAQS second 10-year maintenance plan for the Kentucky portion of the Cincinnati-Hamilton, OH-KY-IN area.

In August of 2024, the Ohio-Kentucky-Indiana Regional Council of Governments (OKI) completed MOVES modeling that resulted in the development of onroad mobile source emissions for the 2008 ozone NAAQS second 10-year maintenance plan for the Ohio, Kentucky, and Indiana portions of the Cincinnati-Hamilton, OH-KY-IN area. The August 7, 2024, OKI TSD is attached for your review.

Ohio EPA has already finalized the motor vehicle emissions budgets for the Ohio portion of the area. The Indiana Department of Environmental Management (IDEM) is in the process of finalizing the motor vehicle emissions budgets for the Indiana portion of the area.

The Division is requesting concurrence with the proposed 2037 motor vehicle emissions budgets for the Kentucky portion of the area (which are included in the table below). Please note that 2037 is the maintenance year for the area and is the only year that requires budgets. The Division chose to accommodate a 15% safety margin for the proposed budgets.

**Motor Vehicle Emissions Budgets for the Kentucky Portion of the Cincinnati-Hamilton, OH-KY-IN Area**

	2037 Maintenance Year Projections	2037 Safety Margin Allocation	2037 Motor Vehicle Emissions Budget
VOC (TSD)	1.90	0.29	2.19
NOX (TSD)	1.99	0.30	2.29
VMT (miles/day)	11,683,003	1,752,450	13,435,453

If you would like to have a call regarding this, please let me know by Friday, February 21<sup>st</sup>. Otherwise, **please respond** indicating if you concur with the proposed budgets for the Kentucky portion of the area by Friday, February 28<sup>th</sup>.

The Division would like to include all the necessary parties for this interagency consultation process. If you are aware of anyone that should be included in this interagency consultation that is not on this email, please let me know as soon as possible.

Best regards,

**Blake Borwig**  
**Environmental Scientist III**  
*Evaluation Section, Kentucky Division for Air Quality*  
*Kentucky Energy and Environment Cabinet*  
*Office: (502)782-2751 | [blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)*





## Borwig, Blake P (EEC)

---

**From:** William.Kenny@epa.ohio.gov  
**Sent:** Thursday, February 27, 2025 2:35 PM  
**To:** Nallaballi, Neena; Borwig, Blake P (EEC); Jarvis, Simone; Andy Reser; aramirez@mvrpc.org; ANTHONY.HILL@dot.ohio.gov; Baukert, Frank; Blackburn, Dane D (KYTC-D06); Myers, Dianna; Gina Douthat (gdouthat@tankbus.org); LaRocca, Sarah; Mary Huller; Mitchell, Jay; Nathaniel.Brugler@dot.ohio.gov; Randy.Lane@dot.ohio.gov; Witt, Thomas W (KYTC); Maietta, Anthony; Vail, Nick (FHWA); Carpenter, Patrick (FHWA); Leslie, Michael; Sam Wallace; Spencer.Smith@dot.ohio.gov; Cales, Michael; Jocelyn Hoffman; Oyler, Claire (EEC); Graham.Johnson@epa.ohio.gov; k.carmanygeorge@dot.gov; Harrod, Justin D (KYTC); Balaji, Jayalakshmi J (KYTC); Korostina, Dasha A (KYTC); Gotvald, Sunday; sseals@idem.in.gov; Jennifer.VanVlerah@epa.ohio.gov; Alec.Sheets@epa.ohio.gov; CALLAHAN, BRIAN Jobe, Cassandra L (EEC)  
**Cc:**  
**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

**This Message Originated from Outside the Organization**

This Message Is From an External Sender.

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Hello,  
Ohio EPA concurs as well.



### William Kenny

Manager, Air Quality Evaluation & Planning  
Ohio EPA, Division of Air Pollution Control  
614-644-2039

---

**From:** Nallaballi, Neena <Nallaballi.Neena@epa.gov>  
**Sent:** Wednesday, February 26, 2025 1:16 PM  
**To:** blake.borwig@ky.gov; Jarvis, Simone <Jarvis.Simone@epa.gov>; Andy Reser <areser@oki.org>; aramirez@mvrpc.org; Hill, Anthony <ANTHONY.HILL@dot.ohio.gov>; Baukert, Frank <FBAUKERT@indot.IN.gov>; Blackburn, Dane D (KYTC-D06) <Dane.Blackburn@ky.gov>; Myers, Dianna <Myers.Dianna@epa.gov>; Gina Douthat (gdouthat@tankbus.org) <gdouthat@tankbus.org>; LaRocca, Sarah <Larocca.Sarah@epa.gov>; Mary Huller <MHuller@go-metro.com>; Mitchell, Jay <JAYMITCHELL@indot.IN.gov>; Brugler, Nathaniel <Nathaniel.Brugler@dot.ohio.gov>; Lane, Randy <Randy.Lane@dot.ohio.gov>; Witt, Thomas W (KYTC) <Thomas.Witt@ky.gov>; Maietta, Anthony <maietta.anthony@epa.gov>; Vail, Nick (FHWA) <nick.vail@dot.gov>; Carpenter, Patrick (FHWA) <patrick.carpenter@dot.gov>; Leslie, Michael <leslie.michael@epa.gov>; Sam Wallace <samuel.wallace@dot.gov>; Smith, Spencer <Spencer.Smith@dot.ohio.gov>; Cales, Michael <MCALES@indot.IN.gov>; Jocelyn Hoffman <jocelyn.johnson@dot.gov>; claire.oyler@ky.gov; Johnson, Graham <Graham.Johnson@epa.ohio.gov>;

Kenny, William <William.Kenny@epa.ohio.gov>; k.carmanygeorge@dot.gov; Harrod, Justin D (KYTC) <Justin.Harrod@ky.gov>; Balaji, Jayalakshmi J (KYTC) <Jayalakshmi.Balaji@ky.gov>; Korostina, Dasha A (KYTC) <dasha.korostina@ky.gov>; Gotvald, Sunday <Gotvald.Sunday@epa.gov>; sseals@idem.in.gov; Van Vlerah, Jennifer <Jennifer.VanVlerah@epa.ohio.gov>; Sheets, Alec <Alec.Sheets@epa.ohio.gov>; CALLAHAN, BRIAN <BCALLAHA@idem.IN.gov>

**Cc:** Cassandra.Job\_e\_ky.gov <Cassandra.Job\_e@ky.gov>

**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

Good afternoon,

EPA R5 concurs with the 15% safety margin applied to the proposed 2037 Motor vehicle emission budgets.

Neena Nallaballi  
Control Strategies Section  
EPA Region-5  
[Nallaballi.Neena@epa.gov](mailto:Nallaballi.Neena@epa.gov)  
312-353-1770

---

**From:** Borwig, Blake P (EEC) <[blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)>

**Sent:** Tuesday, February 25, 2025 11:01 AM

**To:** Jarvis, Simone <[Jarvis.Simone@epa.gov](mailto:Jarvis.Simone@epa.gov)>; Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>; ANTHONY.HILL@dot.ohio.gov; Baukert, Frank <[FBAUKERT@indot.IN.gov](mailto:FBAUKERT@indot.IN.gov)>; Blackburn, Dane D (KYTC-D06) <[Dane.Blackburn@ky.gov](mailto:Dane.Blackburn@ky.gov)>; Myers, Dianna <[Myers.Dianna@epa.gov](mailto:Myers.Dianna@epa.gov)>; Gina Douthat (<[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>); <[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>; LaRocca, Sarah <[Larocca.Sarah@epa.gov](mailto:Larocca.Sarah@epa.gov)>; Mary Huller <[MHuller@go-metro.com](mailto:MHuller@go-metro.com)>; Mitchell, Jay <[JAYMITCHELL@indot.IN.gov](mailto:JAYMITCHELL@indot.IN.gov)>; Nate Brugler (<[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>); <[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>; Lane, Randy <[randy.lane@dot.ohio.gov](mailto:randy.lane@dot.ohio.gov)>; Witt, Thomas W (KYTC) <[Thomas.Witt@ky.gov](mailto:Thomas.Witt@ky.gov)>; Maietta, Anthony <[maietta.anthony@epa.gov](mailto:maietta.anthony@epa.gov)>; Vail, Nick (FHWA) <[nick.vail@dot.gov](mailto:nick.vail@dot.gov)>; Carpenter, Patrick (FHWA) <[patrick.carpenter@dot.gov](mailto:patrick.carpenter@dot.gov)>; Leslie, Michael <[leslie.michael@epa.gov](mailto:leslie.michael@epa.gov)>; Sam Wallace <[samuel.wallace@dot.gov](mailto:samuel.wallace@dot.gov)>; <[Spencer.Smith@dot.ohio.gov](mailto:Spencer.Smith@dot.ohio.gov)>; Cales, Michael <[MCALES@indot.IN.gov](mailto:MCALES@indot.IN.gov)>; Jocelyn Hoffman <[jocelyn.johnson@dot.gov](mailto:jocelyn.johnson@dot.gov)>; <[claire.oyley@ky.gov](mailto:claire.oyley@ky.gov)>; Graham Johnson <[graham.johnson@epa.ohio.gov](mailto:graham.johnson@epa.ohio.gov)>; Kenny, William <[William.Kenny@epa.ohio.gov](mailto:William.Kenny@epa.ohio.gov)>; k.carmanygeorge@dot.gov; Nallaballi, Neena <[Nallaballi.Neena@epa.gov](mailto:Nallaballi.Neena@epa.gov)>; Harrod, Justin D (KYTC) <[Justin.Harrod@ky.gov](mailto:Justin.Harrod@ky.gov)>; Balaji, Jayalakshmi J (KYTC) <[Jayalakshmi.Balaji@ky.gov](mailto:Jayalakshmi.Balaji@ky.gov)>; Korostina, Dasha A (KYTC) <[dasha.korostina@ky.gov](mailto:dasha.korostina@ky.gov)>; Gotvald, Sunday <[Gotvald.Sunday@epa.gov](mailto:Gotvald.Sunday@epa.gov)>; sseals@idem.in.gov; Jennifer VanVlerah <[Jennifer.VanVlerah@epa.ohio.gov](mailto:Jennifer.VanVlerah@epa.ohio.gov)>; Sheets, Alec <[Alec.Sheets@epa.ohio.gov](mailto:Alec.Sheets@epa.ohio.gov)>; CALLAHAN, BRIAN <[BCALLAHA@idem.IN.gov](mailto:BCALLAHA@idem.IN.gov)>

**Cc:** Cassandra.Job\_e\_ky.gov <[Cassandra.Job\\_e@ky.gov](mailto:Cassandra.Job_e@ky.gov)>

**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

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Hi all,

Thank you to everyone who attended the IAC discussion yesterday.



To recap: During the discussion, it was suggested that VMT information be moved to a separate table within our second maintenance plan. We've made this change to clarify that there are no budgets for VMT. We are only proposing NO<sub>x</sub> and VOC budgets, which include a 15% safety margin. The proposed budgets are shown in the table below.

**Motor Vehicle Emissions Budgets for the Kentucky Portion of the Cincinnati-Hamilton, OH-KY-IN Area**

	<b>2037 Maintenance Year Projections</b>	<b>2037 Safety Margin Allocation</b>	<b>2037 Motor Vehicle Emissions Budget</b>
<b>VOC (TSD)</b>	1.90	0.29	2.19
<b>NO<sub>x</sub> (TSD)</b>	1.99	0.30	2.29

Please respond indicating if you concur with the proposed budgets for the Kentucky portion of the area by Friday, February 28<sup>th</sup>.

Best regards,

**Blake Borwig**

**Environmental Scientist III**

Evaluation Section, Kentucky Division for Air Quality

Kentucky Energy and Environment Cabinet

Office: (502)782-2751 | [blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)



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**From:** Borwig, Blake P (EEC)

**Sent:** Thursday, February 20, 2025 12:10 PM

**To:** Jarvis, Simone <[Jarvis.Simone@epa.gov](mailto:Jarvis.Simone@epa.gov)>; Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>; ANTHONY.HILL@dot.ohio.gov; Baukert, Frank <[FBAUKERT@indot.IN.gov](mailto:FBAUKERT@indot.IN.gov)>; Blackburn, Dane D (KYTC-D06) <[Dane.Blackburn@ky.gov](mailto:Dane.Blackburn@ky.gov)>; Myers, Dianna <[Myers.Dianna@epa.gov](mailto:Myers.Dianna@epa.gov)>; Gina Douthat ([gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)) <[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>; LaRocca, Sarah <[Larocca.Sarah@epa.gov](mailto:Larocca.Sarah@epa.gov)>; Mary Huller <[MHuller@go-metro.com](mailto:MHuller@go-metro.com)>; Mitchell, Jay <[JAYMITCHELL@indot.IN.gov](mailto:JAYMITCHELL@indot.IN.gov)>; Nate Brugler ([Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)) <[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>; Lane, Randy <[randy.lane@dot.ohio.gov](mailto:randy.lane@dot.ohio.gov)>; Witt, Thomas W (KYTC) <[Thomas.Witt@ky.gov](mailto:Thomas.Witt@ky.gov)>; Maietta, Anthony <[maietta.anthony@epa.gov](mailto:maietta.anthony@epa.gov)>; Vail, Nick (FHWA) <[nick.vail@dot.gov](mailto:nick.vail@dot.gov)>; Carpenter, Patrick (FHWA) <[patrick.carpenter@dot.gov](mailto:patrick.carpenter@dot.gov)>; Leslie, Michael <[leslie.michael@epa.gov](mailto:leslie.michael@epa.gov)>; Sam Wallace <[samuel.wallace@dot.gov](mailto:samuel.wallace@dot.gov)>; Andrea.Henderson@dot.ohio.gov; [Spencer.Smith@dot.ohio.gov](mailto:Spencer.Smith@dot.ohio.gov); Cales, Michael <[MCALES@indot.IN.gov](mailto:MCALES@indot.IN.gov)>; Jocelyn Hoffman <[jocelyn.johnson@dot.gov](mailto:jocelyn.johnson@dot.gov)>; Oyler, Claire (EEC) <[claire.oyler@ky.gov](mailto:claire.oyler@ky.gov)>; Graham Johnson <[graham.johnson@epa.ohio.gov](mailto:graham.johnson@epa.ohio.gov)>; Kenny, William <[William.Kenny@epa.ohio.gov](mailto:William.Kenny@epa.ohio.gov)>; [k.carmanygeorge@dot.gov](mailto:k.carmanygeorge@dot.gov); Nallaballi, Neena <[Nallaballi.Neena@epa.gov](mailto:Nallaballi.Neena@epa.gov)>; Harrod, Justin D (KYTC) <[Justin.Harrod@ky.gov](mailto:Justin.Harrod@ky.gov)>; Balaji, Jayalakshmi J (KYTC) <[Jayalakshmi.Balaji@ky.gov](mailto:Jayalakshmi.Balaji@ky.gov)>; Korostina, Dasha A (KYTC) <[dasha.korostina@ky.gov](mailto:dasha.korostina@ky.gov)>; Gotvald, Sunday (she/her/hers) <[Gotvald.Sunday@epa.gov](mailto:Gotvald.Sunday@epa.gov)>; SEALS, SHAWN <[sseals@idem.in.gov](mailto:sseals@idem.in.gov)>; [Jennifer.VanVlerah@epa.ohio.gov](mailto:Jennifer.VanVlerah@epa.ohio.gov); [Alec.Sheets@epa.ohio.gov](mailto:Alec.Sheets@epa.ohio.gov); CALLAHAN, BRIAN <[BCALLAHA@idem.IN.gov](mailto:BCALLAHA@idem.IN.gov)>

**Cc:** Jobe, Cassandra L (EEC) <[Cassandra.Jobe@ky.gov](mailto:Cassandra.Jobe@ky.gov)>

**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

Hi all,

Just providing an update that the Division has sent out a meeting invite for Monday February 24<sup>th</sup> at 3 pm (EST) to discuss the proposed KY motor vehicle emissions budgets. The meeting will be recorded for documentation of the IAC process to be included in our SIP submittal.

Best regards,

**Blake Borwig**

**Environmental Scientist III**

Evaluation Section, Kentucky Division for Air Quality

Kentucky Energy and Environment Cabinet

Office: (502)782-2751 | [blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)



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---

**From:** Borwig, Blake P (EEC)

**Sent:** Wednesday, February 19, 2025 9:58 AM

**To:** Jarvis, Simone <[Jarvis.Simone@epa.gov](mailto:Jarvis.Simone@epa.gov)>; Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>; ANTHONY.HILL@dot.ohio.gov; Baukert, Frank <[FBAUKERT@indot.IN.gov](mailto:FBAUKERT@indot.IN.gov)>; Blackburn, Dane D (KYTC-D06) <[Dane.Blackburn@ky.gov](mailto:Dane.Blackburn@ky.gov)>; Myers, Dianna <[Myers.Dianna@epa.gov](mailto:Myers.Dianna@epa.gov)>; Gina Douthat (<[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)> <[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>); LaRocca, Sarah <[Larocca.Sarah@epa.gov](mailto:Larocca.Sarah@epa.gov)>; Mary Huller <[MHuller@go-metro.com](mailto:MHuller@go-metro.com)>; Mitchell, Jay <[JAYMITCHELL@indot.IN.gov](mailto:JAYMITCHELL@indot.IN.gov)>; Nate Brugler (<[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)> <[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>); Lane, Randy <[randy.lane@dot.ohio.gov](mailto:randy.lane@dot.ohio.gov)>; Witt, Thomas W (KYTC) <[Thomas.Witt@ky.gov](mailto:Thomas.Witt@ky.gov)>; Maietta, Anthony <[maietta.anthony@epa.gov](mailto:maietta.anthony@epa.gov)>; Vail, Nick (FHWA) <[nick.vail@dot.gov](mailto:nick.vail@dot.gov)>; Carpenter, Patrick (FHWA) <[patrick.carpenter@dot.gov](mailto:patrick.carpenter@dot.gov)>; Leslie, Michael <[leslie.michael@epa.gov](mailto:leslie.michael@epa.gov)>; Sam Wallace <[samuel.wallace@dot.gov](mailto:samuel.wallace@dot.gov)>; Andrea.Henderson@dot.ohio.gov; Spencer.Smith@dot.ohio.gov; Cales, Michael <[MCALES@indot.IN.gov](mailto:MCALES@indot.IN.gov)>; Jocelyn Hoffman <[jocelyn.johnson@dot.gov](mailto:jocelyn.johnson@dot.gov)>; Oyler, Claire (EEC) <[claire.oyler@ky.gov](mailto:claire.oyler@ky.gov)>; Graham Johnson <[graham.johnson@epa.ohio.gov](mailto:graham.johnson@epa.ohio.gov)>; Kenny, William <[William.Kenny@epa.ohio.gov](mailto:William.Kenny@epa.ohio.gov)>; [k.carmanygeorge@dot.gov](mailto:k.carmanygeorge@dot.gov); Nallaballi, Neena <[Nallaballi.Neena@epa.gov](mailto:Nallaballi.Neena@epa.gov)>; Harrod, Justin D (KYTC) <[Justin.Harrod@ky.gov](mailto:Justin.Harrod@ky.gov)>; Balaji, Jayalakshmi J (KYTC) <[Jayalakshmi.Balaji@ky.gov](mailto:Jayalakshmi.Balaji@ky.gov)>; Korostina, Dasha A (KYTC) <[dasha.korostina@ky.gov](mailto:dasha.korostina@ky.gov)>; Gotvald, Sunday (she/her/hers) <[Gotvald.Sunday@epa.gov](mailto:Gotvald.Sunday@epa.gov)>; SEALS, SHAWN <[sseals@idem.in.gov](mailto:sseals@idem.in.gov)>; [Jennifer.VanVlerah@epa.ohio.gov](mailto:Jennifer.VanVlerah@epa.ohio.gov); [Alec.Sheets@epa.ohio.gov](mailto:Alec.Sheets@epa.ohio.gov); CALLAHAN, BRIAN <[BCALLAHA@idem.IN.gov](mailto:BCALLAHA@idem.IN.gov)>

**Cc:** Jobe, Cassandra L (EEC) <[Cassandra.Jobe@ky.gov](mailto:Cassandra.Jobe@ky.gov)>

**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

Good morning all,

The Division is organizing a meeting to accommodate EPA Region 4's request to have a discussion about the proposed 2037 motor vehicle emissions budgets for the Kentucky portion of the Cincinnati-Hamilton, OH-KY-IN maintenance area. Please complete the following Doodle Poll and I'll schedule the meeting at a time that works best for everyone.

<https://doodle.com/group-poll/participate/bo81jRBd>

Thanks in advance for your timely response to the poll above.

Best regards,

**Blake Borwig**

**Environmental Scientist III**

Evaluation Section, Kentucky Division for Air Quality

Kentucky Energy and Environment Cabinet

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**From:** Jarvis, Simone <[Jarvis.Simone@epa.gov](mailto:Jarvis.Simone@epa.gov)>

**Sent:** Wednesday, February 19, 2025 8:35 AM

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**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

Following up to actually cc Sunday (whoops!)

Thanks,  
Simone

Life Scientist

US EPA Region 4 | Air & Radiation Division

Air Regulatory Management Section

Phone: 404-562-8393

E-mail: [jarvis.simone@epa.gov](mailto:jarvis.simone@epa.gov)

---

**From:** Jarvis, Simone

**Sent:** Wednesday, February 19, 2025 8:08 AM

**To:** Borwig, Blake P (EEC) <[blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)>; Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>; ANTHONY.HILL@dot.ohio.gov; Baukert, Frank <[FBAUKERT@indot.IN.gov](mailto:FBAUKERT@indot.IN.gov)>; Blackburn, Dane D (KYTC-D06) <[Dane.Blackburn@ky.gov](mailto:Dane.Blackburn@ky.gov)>; Myers, Dianna <[Myers.Dianna@epa.gov](mailto:Myers.Dianna@epa.gov)>; Gina Douthat ([gdouthat@tankbus.org](mailto:gdouthat@tankbus.org))

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Cc: Cassandra.Job\_e\_ky.gov <[Cassandra.Job\\_e@ky.gov](mailto:Cassandra.Job_e@ky.gov)>

**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

Good morning Blake,

A quick call to discuss would be helpful. Also, could you please include Sunday Gotvald (cc'ed here) on correspondence going forward?

Thank you!

Simone Jarvis

Life Scientist

US EPA Region 4 | Air & Radiation Division

Air Regulatory Management Section

Phone: 404-562-8393

E-mail: [jarvis.simone@epa.gov](mailto:jarvis.simone@epa.gov)

---

**From:** Borwig, Blake P (EEC) <[blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)>

**Sent:** Tuesday, February 18, 2025 2:23 PM

**To:** Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>; [ANTHONY.HILL@dot.ohio.gov](mailto:ANTHONY.HILL@dot.ohio.gov); Baukert, Frank <[FBAUKERT@indot.IN.gov](mailto:FBAUKERT@indot.IN.gov)>; Blackburn, Dane D (KYTC-D06) <[Dane.Blackburn@ky.gov](mailto:Dane.Blackburn@ky.gov)>; Myers, Dianna <[Myers.Dianna@epa.gov](mailto:Myers.Dianna@epa.gov)>; Gina Douthat ([gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)) <[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>; Jarvis, Simone <[Jarvis.Simone@epa.gov](mailto:Jarvis.Simone@epa.gov)>; LaRocca, Sarah <[Larocca.Sarah@epa.gov](mailto:Larocca.Sarah@epa.gov)>; Mary Huller <[MHuller@go-metro.com](mailto:MHuller@go-metro.com)>; Mitchell, Jay <[JAYMITCHELL@indot.IN.gov](mailto:JAYMITCHELL@indot.IN.gov)>; Nate Brugler ([Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)) <[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>; Lane, Randy <[randy.lane@dot.ohio.gov](mailto:randy.lane@dot.ohio.gov)>; Witt, Thomas W (KYTC) <[Thomas.Witt@ky.gov](mailto:Thomas.Witt@ky.gov)>; Maietta, Anthony <[maietta.anthony@epa.gov](mailto:maietta.anthony@epa.gov)>; Vail, Nick (FHWA) <[nick.vail@dot.gov](mailto:nick.vail@dot.gov)>; Carpenter, Patrick (FHWA) <[patrick.carpenter@dot.gov](mailto:patrick.carpenter@dot.gov)>; Leslie, Michael <[leslie.michael@epa.gov](mailto:leslie.michael@epa.gov)>; Sam Wallace <[samuel.wallace@dot.gov](mailto:samuel.wallace@dot.gov)>; [Andrea.Henderson@dot.ohio.gov](mailto:Andrea.Henderson@dot.ohio.gov); [Spencer.Smith@dot.ohio.gov](mailto:Spencer.Smith@dot.ohio.gov); Cales, Michael <[MCALES@indot.IN.gov](mailto:MCALES@indot.IN.gov)>; Jocelyn Hoffman <[jocelyn.johnson@dot.gov](mailto:jocelyn.johnson@dot.gov)>; [claire.oyler@ky.gov](mailto:claire.oyler@ky.gov); Graham Johnson <[graham.johnson@epa.ohio.gov](mailto:graham.johnson@epa.ohio.gov)>; Kenny, William <[William.Kenny@epa.ohio.gov](mailto:William.Kenny@epa.ohio.gov)>; [daniel.forbush@dot.gov](mailto:daniel.forbush@dot.gov); [k.carmanygeorge@dot.gov](mailto:k.carmanygeorge@dot.gov); Nallaballi, Neena <[Nallaballi.Neena@epa.gov](mailto:Nallaballi.Neena@epa.gov)>; Harrod, Justin D (KYTC) <[Justin.Harrod@ky.gov](mailto:Justin.Harrod@ky.gov)>; Balaji, Jayalakshmi J (KYTC) <[Jayalakshmi.Balaji@ky.gov](mailto:Jayalakshmi.Balaji@ky.gov)>; Korostina, Dasha A (KYTC) <[dasha.korostina@ky.gov](mailto:dasha.korostina@ky.gov)>

Cc: Cassandra.Job\_e\_ky.gov <[Cassandra.Job\\_e@ky.gov](mailto:Cassandra.Job_e@ky.gov)>

**Subject:** IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

**Caution:** This email originated from outside EPA, please exercise additional caution when deciding whether to open attachments or click on provided links.

Hello everyone,

The Kentucky Division for Air Quality (the Division) is beginning the interagency consultation process for the 2008 ozone NAAQS second 10-year maintenance plan for the Kentucky portion of the Cincinnati-Hamilton, OH-KY-IN area.

In August of 2024, the Ohio-Kentucky-Indiana Regional Council of Governments (OKI) completed MOVES modeling that resulted in the development of onroad mobile source emissions for the 2008 ozone NAAQS second 10-year maintenance plan for the Ohio, Kentucky, and Indiana portions of the Cincinnati-Hamilton, OH-KY-IN area. The August 7, 2024, OKI TSD is attached for your review.

Ohio EPA has already finalized the motor vehicle emissions budgets for the Ohio portion of the area. The Indiana Department of Environmental Management (IDEM) is in the process of finalizing the motor vehicle emissions budgets for the Indiana portion of the area.

The Division is requesting concurrence with the proposed 2037 motor vehicle emissions budgets for the Kentucky portion of the area (which are included in the table below). Please note that 2037 is the maintenance year for the area and is the only year that requires budgets. The Division chose to accommodate a 15% safety margin for the proposed budgets.

**Motor Vehicle Emissions Budgets for the Kentucky Portion of the Cincinnati-Hamilton, OH-KY-IN Area**

	<b>2037 Maintenance Year Projections</b>	<b>2037 Safety Margin Allocation</b>	<b>2037 Motor Vehicle Emissions Budget</b>
<b>VOC (TSD)</b>	1.90	0.29	2.19
<b>NOX (TSD)</b>	1.99	0.30	2.29
<b>VMT (miles/day)</b>	11,683,003	1,752,450	13,435,453

If you would like to have a call regarding this, please let me know by Friday, February 21<sup>st</sup>. Otherwise, **please respond** indicating if you concur with the proposed budgets for the Kentucky portion of the area by Friday, February 28<sup>th</sup>.

The Division would like to include all the necessary parties for this interagency consultation process. If you are aware of anyone that should be included in this interagency consultation that is not on this email, please let me know as soon as possible.

Best regards,

**Blake Borwig**  
**Environmental Scientist III**  
Evaluation Section, Kentucky Division for Air Quality  
Kentucky Energy and Environment Cabinet  
Office: (502)782-2751 | [blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)



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## Borwig, Blake P (EEC)

---

**From:** Mitchell, Jay <JAYMITCHELL@indot.IN.gov>  
**Sent:** Tuesday, February 25, 2025 4:07 PM  
**To:** Borwig, Blake P (EEC); Jarvis, Simone; Andy Reser; Ana Ramirez; ANTHONY.HILL@dot.ohio.gov; Baukert, Frank; Blackburn, Dane D (KYTC-D06); Myers, Dianna; Gina Douthat (gdouthat@tankbus.org); LaRocca, Sarah; Mary Huller; Nate Brugler (Nathaniel.Brugler@dot.ohio.gov); Lane, Randy; Witt, Thomas W (KYTC); Maietta, Anthony; Vail, Nick (FHWA); Carpenter, Patrick (FHWA); Leslie, Michael; Sam Wallace; Spencer.Smith@dot.ohio.gov; Cales, Michael; Jocelyn Hoffman; Oyler, Claire (EEC); Graham Johnson; Kenny, William; Carmany-George, Karstin (FHWA); Nallaballi, Neena; Harrod, Justin D (KYTC); Balaji, Jayalakshmi J (KYTC); Korostina, Dasha A (KYTC); Gotvald, Sunday (she/her/hers); SEALS, SHAWN; Jennifer.VanVlerah@epa.ohio.gov; Alec.Sheets@epa.ohio.gov; CALLAHAN, BRIAN  
**Cc:** Jobe, Cassandra L (EEC)  
**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

### This Message Originated from Outside the Organization

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Report Suspicious

Good afternoon:

INDOT concurs with the 15% safety margin.

**Jay Mitchell, Supervisor**  
Technical Planning Section  
Indiana Department of Transportation  
E-mail: [jaymitchell@indot.in.gov](mailto:jaymitchell@indot.in.gov)

---

**From:** Borwig, Blake P (EEC) <blake.borwig@ky.gov>  
**Sent:** Tuesday, February 25, 2025 12:01 PM  
**To:** Jarvis, Simone <Jarvis.Simone@epa.gov>; Andy Reser <areser@oki.org>; Ana Ramirez <aramirez@mvrpc.org>; ANTHONY.HILL@dot.ohio.gov; Baukert, Frank <FBAUKERT@indot.IN.gov>; Blackburn, Dane D (KYTC-D06) <Dane.Blackburn@ky.gov>; Myers, Dianna <Myers.Dianna@epa.gov>; Gina Douthat (gdouthat@tankbus.org) <gdouthat@tankbus.org>; LaRocca, Sarah <Larocca.Sarah@epa.gov>; Mary Huller <MHuller@go-metro.com>; Mitchell, Jay <JAYMITCHELL@indot.IN.gov>; Nate Brugler (Nathaniel.Brugler@dot.ohio.gov) <Nathaniel.Brugler@dot.ohio.gov>; Lane, Randy <randy.lane@dot.ohio.gov>; Witt, Thomas W (KYTC) <Thomas.Witt@ky.gov>; Maietta, Anthony <maietta.anthony@epa.gov>; Vail, Nick (FHWA) <nick.vail@dot.gov>; Carpenter, Patrick (FHWA) <patrick.carpenter@dot.gov>; Leslie, Michael <leslie.michael@epa.gov>; Sam Wallace <samuel.wallace@dot.gov>; Spencer.Smith@dot.ohio.gov; Cales, Michael <MCALES@indot.IN.gov>; Jocelyn Hoffman <jocelyn.johnson@dot.gov>; Oyler, Claire (EEC) <claire.oyler@ky.gov>; Graham Johnson <graham.johnson@epa.ohio.gov>; Kenny, William <William.Kenny@epa.ohio.gov>; Carmany-George, Karstin (FHWA) <k.carmanygeorge@dot.gov>; Nallaballi, Neena <Nallaballi.Neena@epa.gov>; Harrod, Justin D (KYTC) <justin.harrod@ky.gov>; Balaji, Jayalakshmi J (KYTC) <Jayalakshmi.Balaji@ky.gov>; Korostina, Dasha A (KYTC) <dasha.korostina@ky.gov>; Gotvald, Sunday (she/her/hers) <Gotvald.Sunday@epa.gov>; SEALS, SHAWN <SSEALS@idem.IN.gov>; Jennifer.VanVlerah@epa.ohio.gov; Alec.Sheets@epa.ohio.gov; CALLAHAN, BRIAN <BCALLAHA@idem.IN.gov>

Cc: Jobe, Cassandra L (EEC) <Cassandra.Job@ky.gov>

Subject: RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

**EXTERNAL EMAIL:** This email was sent from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Hi all,

Thank you to everyone who attended the IAC discussion yesterday.

To recap: During the discussion, it was suggested that VMT information be moved to a separate table within our second maintenance plan. We've made this change to clarify that there are no budgets for VMT. We are only proposing NO<sub>x</sub> and VOC budgets, which include a 15% safety margin. The proposed budgets are shown in the table below.

**Motor Vehicle Emissions Budgets for the Kentucky Portion of the Cincinnati-Hamilton, OH-KY-IN Area**

	2037 Maintenance Year Projections	2037 Safety Margin Allocation	2037 Motor Vehicle Emissions Budget
VOC (TSD)	1.90	0.29	2.19
NO <sub>x</sub> (TSD)	1.99	0.30	2.29

Please respond indicating if you concur with the proposed budgets for the Kentucky portion of the area by Friday, February 28<sup>th</sup>.

Best regards,

**Blake Borwig**

**Environmental Scientist III**

Evaluation Section, Kentucky Division for Air Quality

Kentucky Energy and Environment Cabinet

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**From:** Borwig, Blake P (EEC)

**Sent:** Thursday, February 20, 2025 12:10 PM

**To:** Jarvis, Simone <[Jarvis.Simone@epa.gov](mailto:Jarvis.Simone@epa.gov)>; Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>; [ANTHONY.HILL@dot.ohio.gov](mailto:ANTHONY.HILL@dot.ohio.gov); Baukert, Frank <[FBAUKERT@indot.IN.gov](mailto:FBAUKERT@indot.IN.gov)>; Blackburn, Dane D (KYTC-D06) <[Dane.Blackburn@ky.gov](mailto:Dane.Blackburn@ky.gov)>; Myers, Dianna <[Myers.Dianna@epa.gov](mailto:Myers.Dianna@epa.gov)>; Gina Douthat ([gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)) <[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>; LaRocca, Sarah <[Larocca.Sarah@epa.gov](mailto:Larocca.Sarah@epa.gov)>; Mary Huller <[MHuller@go-metro.com](mailto:MHuller@go-metro.com)>; Mitchell, Jay <[JAYMITCHELL@indot.IN.gov](mailto:JAYMITCHELL@indot.IN.gov)>; Nate Brugler ([Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)) <[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>; Lane, Randy <[randy.lane@dot.ohio.gov](mailto:randy.lane@dot.ohio.gov)>; Witt, Thomas W (KYTC) <[Thomas.Witt@ky.gov](mailto:Thomas.Witt@ky.gov)>; Maietta, Anthony <[maietta.anthony@epa.gov](mailto:maietta.anthony@epa.gov)>; Vail, Nick (FHWA) <[nick.vail@dot.gov](mailto:nick.vail@dot.gov)>; Carpenter, Patrick (FHWA) <[patrick.carpenter@dot.gov](mailto:patrick.carpenter@dot.gov)>; Leslie, Michael <[leslie.michael@epa.gov](mailto:leslie.michael@epa.gov)>; Sam Wallace <[samuel.wallace@dot.gov](mailto:samuel.wallace@dot.gov)>; [Andrea.Henderson@dot.ohio.gov](mailto:Andrea.Henderson@dot.ohio.gov); [Spencer.Smith@dot.ohio.gov](mailto:Spencer.Smith@dot.ohio.gov); Cales, Michael <[MCALES@indot.IN.gov](mailto:MCALES@indot.IN.gov)>; Jocelyn



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Cc: Jobe, Cassandra L (EEC) <[Cassandra.Jobe@ky.gov](mailto:Cassandra.Jobe@ky.gov)>

Subject: RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

Hi all,

Just providing an update that the Division has sent out a meeting invite for Monday February 24<sup>th</sup> at 3 pm (EST) to discuss the proposed KY motor vehicle emissions budgets. The meeting will be recorded for documentation of the IAC process to be included in our SIP submittal.

Best regards,

**Blake Borwig**

**Environmental Scientist III**

*Evaluation Section, Kentucky Division for Air Quality*

*Kentucky Energy and Environment Cabinet*

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---

**From:** Borwig, Blake P (EEC)

**Sent:** Wednesday, February 19, 2025 9:58 AM

**To:** Jarvis, Simone <[Jarvis.Simone@epa.gov](mailto:Jarvis.Simone@epa.gov)>; Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>; [ANTHONY.HILL@dot.ohio.gov](mailto:ANTHONY.HILL@dot.ohio.gov); Baukert, Frank <[FBAUKERT@indot.IN.gov](mailto:FBAUKERT@indot.IN.gov)>; Blackburn, Dane D (KYTC-D06) <[Dane.Blackburn@ky.gov](mailto:Dane.Blackburn@ky.gov)>; Myers, Dianna <[Myers.Dianna@epa.gov](mailto:Myers.Dianna@epa.gov)>; Gina Douthat (<[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>) <[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>; LaRocca, Sarah <[Larocca.Sarah@epa.gov](mailto:Larocca.Sarah@epa.gov)>; Mary Huller <[MHuller@go-metro.com](mailto:MHuller@go-metro.com)>; Mitchell, Jay <[JAYMITCHELL@indot.IN.gov](mailto:JAYMITCHELL@indot.IN.gov)>; Nate Brugler (<[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>) <[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>; Lane, Randy <[randy.lane@dot.ohio.gov](mailto:randy.lane@dot.ohio.gov)>; Witt, Thomas W (KYTC) <[Thomas.Witt@ky.gov](mailto:Thomas.Witt@ky.gov)>; Maietta, Anthony <[maietta.anthony@epa.gov](mailto:maietta.anthony@epa.gov)>; Vail, Nick (FHWA) <[nick.vail@dot.gov](mailto:nick.vail@dot.gov)>; Carpenter, Patrick (FHWA) <[patrick.carpenter@dot.gov](mailto:patrick.carpenter@dot.gov)>; Leslie, Michael <[leslie.michael@epa.gov](mailto:leslie.michael@epa.gov)>; Sam Wallace <[samuel.wallace@dot.gov](mailto:samuel.wallace@dot.gov)>; [Andrea.Henderson@dot.ohio.gov](mailto:Andrea.Henderson@dot.ohio.gov); [Spencer.Smith@dot.ohio.gov](mailto:Spencer.Smith@dot.ohio.gov); Cales, Michael <[MCALES@indot.IN.gov](mailto:MCALES@indot.IN.gov)>; Jocelyn Hoffman <[jocelyn.johnson@dot.gov](mailto:jocelyn.johnson@dot.gov)>; Oyler, Claire (EEC) <[claire.oyler@ky.gov](mailto:claire.oyler@ky.gov)>; Graham Johnson <[graham.johnson@epa.ohio.gov](mailto:graham.johnson@epa.ohio.gov)>; Kenny, William <[William.Kenny@epa.ohio.gov](mailto:William.Kenny@epa.ohio.gov)>; [k.carmanygeorge@dot.gov](mailto:k.carmanygeorge@dot.gov); Nallaballi, Neena <[Nallaballi.Neena@epa.gov](mailto:Nallaballi.Neena@epa.gov)>; Harrod, Justin D (KYTC) <[Justin.Harrod@ky.gov](mailto:Justin.Harrod@ky.gov)>; Balaji, Jayalakshmi J (KYTC) <[Jayalakshmi.Balaji@ky.gov](mailto:Jayalakshmi.Balaji@ky.gov)>; Korostina, Dasha A (KYTC) <[dasha.korostina@ky.gov](mailto:dasha.korostina@ky.gov)>; Gotvald, Sunday (she/her/hers) <[Gotvald.Sunday@epa.gov](mailto:Gotvald.Sunday@epa.gov)>; SEALS, SHAWN <[sseals@idem.in.gov](mailto:sseals@idem.in.gov)>; [Jennifer.VanVlerah@epa.ohio.gov](mailto:Jennifer.VanVlerah@epa.ohio.gov); [Alec.Sheets@epa.ohio.gov](mailto:Alec.Sheets@epa.ohio.gov); CALLAHAN, BRIAN <[BCALLAHA@idem.IN.gov](mailto:BCALLAHA@idem.IN.gov)>

Cc: Jobe, Cassandra L (EEC) <[Cassandra.Jobe@ky.gov](mailto:Cassandra.Jobe@ky.gov)>

Subject: RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

Good morning all,

The Division is organizing a meeting to accommodate EPA Region 4's request to have a discussion about the proposed 2037 motor vehicle emissions budgets for the Kentucky portion of the Cincinnati-Hamilton, OH-KY-IN maintenance area. Please complete the following Doodle Poll and I'll schedule the meeting at a time that works best for everyone.

<https://doodle.com/group-poll/participate/bo81jRBd>

Thanks in advance for your timely response to the poll above.

Best regards,

**Blake Borwig**

**Environmental Scientist III**

Evaluation Section, Kentucky Division for Air Quality

Kentucky Energy and Environment Cabinet

Office: (502)782-2751 | [blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)



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---

**From:** Jarvis, Simone <[Jarvis.Simone@epa.gov](mailto:Jarvis.Simone@epa.gov)>

**Sent:** Wednesday, February 19, 2025 8:35 AM

**To:** Borwig, Blake P (EEC) <[blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)>; Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>; ANTHONY.HILL@dot.ohio.gov; Baukert, Frank <[FBAUKERT@indot.IN.gov](mailto:FBAUKERT@indot.IN.gov)>; Blackburn, Dane D (KYTC-D06) <[Dane.Blackburn@ky.gov](mailto:Dane.Blackburn@ky.gov)>; Myers, Dianna <[Myers.Dianna@epa.gov](mailto:Myers.Dianna@epa.gov)>; Gina Douthat (<[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)> <[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>); LaRocca, Sarah <[Larocca.Sarah@epa.gov](mailto:Larocca.Sarah@epa.gov)>; Mary Huller <[MHuller@go-metro.com](mailto:MHuller@go-metro.com)>; Mitchell, Jay <[JAYMITCHELL@indot.IN.gov](mailto:JAYMITCHELL@indot.IN.gov)>; Nate Brugler (<[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)> <[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>); Lane, Randy <[randy.lane@dot.ohio.gov](mailto:randy.lane@dot.ohio.gov)>; Witt, Thomas W (KYTC) <[Thomas.Witt@ky.gov](mailto:Thomas.Witt@ky.gov)>; Maietta, Anthony <[maietta.anthony@epa.gov](mailto:maietta.anthony@epa.gov)>; Vail, Nick (FHWA) <[nick.vail@dot.gov](mailto:nick.vail@dot.gov)>; Carpenter, Patrick (FHWA) <[patrick.carpenter@dot.gov](mailto:patrick.carpenter@dot.gov)>; Leslie, Michael <[leslie.michael@epa.gov](mailto:leslie.michael@epa.gov)>; Sam Wallace <[samuel.wallace@dot.gov](mailto:samuel.wallace@dot.gov)>; Andrea.Henderson@dot.ohio.gov; Spencer.Smith@dot.ohio.gov; Cales, Michael <[MCALES@indot.IN.gov](mailto:MCALES@indot.IN.gov)>; Jocelyn Hoffman <[jocelyn.johnson@dot.gov](mailto:jocelyn.johnson@dot.gov)>; Oyler, Claire (EEC) <[claire.oyler@ky.gov](mailto:claire.oyler@ky.gov)>; Graham Johnson <[graham.johnson@epa.ohio.gov](mailto:graham.johnson@epa.ohio.gov)>; Kenny, William <[William.Kenny@epa.ohio.gov](mailto:William.Kenny@epa.ohio.gov)>; daniel.forbush@dot.gov; k.carmanygeorge@dot.gov; Nallaballi, Neena <[Nallaballi.Neena@epa.gov](mailto:Nallaballi.Neena@epa.gov)>; Harrod, Justin D (KYTC) <[Justin.Harrod@ky.gov](mailto:Justin.Harrod@ky.gov)>; Balaji, Jayalakshmi J (KYTC) <[Jayalakshmi.Balaji@ky.gov](mailto:Jayalakshmi.Balaji@ky.gov)>; Korostina, Dasha A (KYTC) <[dasha.korostina@ky.gov](mailto:dasha.korostina@ky.gov)>

**Cc:** Jobe, Cassandra L (EEC) <[Cassandra.Jobe@ky.gov](mailto:Cassandra.Jobe@ky.gov)>; Gotvald, Sunday <[Gotvald.Sunday@epa.gov](mailto:Gotvald.Sunday@epa.gov)>

**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

Following up to actually cc Sunday (whoops!)

Thanks,  
Simone

Life Scientist

US EPA Region 4 | Air & Radiation Division  
Air Regulatory Management Section  
Phone: 404-562-8393  
E-mail: [jarvis.simone@epa.gov](mailto:jarvis.simone@epa.gov)

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**From:** Jarvis, Simone

**Sent:** Wednesday, February 19, 2025 8:08 AM

**To:** Borwig, Blake P (EEC) <[blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)>; Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>; ANTHONY.HILL@dot.ohio.gov; Baukert, Frank <[FBAUKERT@indot.IN.gov](mailto:FBAUKERT@indot.IN.gov)>; Blackburn, Dane D (KYTC-D06) <[Dane.Blackburn@ky.gov](mailto:Dane.Blackburn@ky.gov)>; Myers, Dianna <[Myers.Dianna@epa.gov](mailto:Myers.Dianna@epa.gov)>; Gina Douthat (<[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>) <[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>; LaRocca, Sarah <[Larocca.Sarah@epa.gov](mailto:Larocca.Sarah@epa.gov)>; Mary Huller <[MHuller@go-metro.com](mailto:MHuller@go-metro.com)>; Mitchell, Jay <[JAYMITCHELL@indot.IN.gov](mailto:JAYMITCHELL@indot.IN.gov)>; Nate Brugler (<[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>) <[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>; Lane, Randy <[randy.lane@dot.ohio.gov](mailto:randy.lane@dot.ohio.gov)>; Witt, Thomas W (KYTC) <[Thomas.Witt@ky.gov](mailto:Thomas.Witt@ky.gov)>; Maietta, Anthony <[maietta.anthony@epa.gov](mailto:maietta.anthony@epa.gov)>; Vail, Nick (FHWA) <[nick.vail@dot.gov](mailto:nick.vail@dot.gov)>; Carpenter, Patrick (FHWA) <[patrick.carpenter@dot.gov](mailto:patrick.carpenter@dot.gov)>; Leslie, Michael <[leslie.michael@epa.gov](mailto:leslie.michael@epa.gov)>; Sam Wallace <[samuel.wallace@dot.gov](mailto:samuel.wallace@dot.gov)>; Andrea.Henderson@dot.ohio.gov; Spencer.Smith@dot.ohio.gov; Cales, Michael <[MCALES@indot.IN.gov](mailto:MCALES@indot.IN.gov)>; Jocelyn Hoffman <[jocelyn.johnson@dot.gov](mailto:jocelyn.johnson@dot.gov)>; claire.oyler@ky.gov; Graham Johnson <[graham.johnson@epa.ohio.gov](mailto:graham.johnson@epa.ohio.gov)>; Kenny, William <[William.Kenny@epa.ohio.gov](mailto:William.Kenny@epa.ohio.gov)>; daniel.forbush@dot.gov; k.carmanygeorge@dot.gov; Nallaballi, Neena <[Nallaballi.Neena@epa.gov](mailto:Nallaballi.Neena@epa.gov)>; Harrod, Justin D (KYTC) <[Justin.Harrod@ky.gov](mailto:Justin.Harrod@ky.gov)>; Balaji, Jayalakshmi J (KYTC) <[Jayalakshmi.Balaji@ky.gov](mailto:Jayalakshmi.Balaji@ky.gov)>; Korostina, Dasha A (KYTC) <[dasha.korostina@ky.gov](mailto:dasha.korostina@ky.gov)>

**Cc:** Cassandra.Jobe\_ky.gov <[Cassandra.Jobe@ky.gov](mailto:Cassandra.Jobe@ky.gov)>

**Subject:** RE: IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

Good morning Blake,

A quick call to discuss would be helpful. Also, could you please include Sunday Gotvald (cc'ed here) on correspondence going forward?

Thank you!

Simone Jarvis

Life Scientist

US EPA Region 4 | Air & Radiation Division  
Air Regulatory Management Section  
Phone: 404-562-8393  
E-mail: [jarvis.simone@epa.gov](mailto:jarvis.simone@epa.gov)

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**From:** Borwig, Blake P (EEC) <[blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)>

**Sent:** Tuesday, February 18, 2025 2:23 PM

**To:** Andy Reser <[areser@oki.org](mailto:areser@oki.org)>; Ana Ramirez <[aramirez@mvrpc.org](mailto:aramirez@mvrpc.org)>; ANTHONY.HILL@dot.ohio.gov; Baukert, Frank <[FBAUKERT@indot.IN.gov](mailto:FBAUKERT@indot.IN.gov)>; Blackburn, Dane D (KYTC-D06) <[Dane.Blackburn@ky.gov](mailto:Dane.Blackburn@ky.gov)>; Myers, Dianna <[Myers.Dianna@epa.gov](mailto:Myers.Dianna@epa.gov)>; Gina Douthat (<[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>) <[gdouthat@tankbus.org](mailto:gdouthat@tankbus.org)>; Jarvis, Simone <[Jarvis.Simone@epa.gov](mailto:Jarvis.Simone@epa.gov)>; LaRocca, Sarah <[Larocca.Sarah@epa.gov](mailto:Larocca.Sarah@epa.gov)>; Mary Huller <[MHuller@go-metro.com](mailto:MHuller@go-metro.com)>; Mitchell, Jay <[JAYMITCHELL@indot.IN.gov](mailto:JAYMITCHELL@indot.IN.gov)>; Nate Brugler (<[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>) <[Nathaniel.Brugler@dot.ohio.gov](mailto:Nathaniel.Brugler@dot.ohio.gov)>; Lane, Randy <[randy.lane@dot.ohio.gov](mailto:randy.lane@dot.ohio.gov)>; Witt, Thomas W (KYTC) <[Thomas.Witt@ky.gov](mailto:Thomas.Witt@ky.gov)>; Maietta, Anthony <[maietta.anthony@epa.gov](mailto:maietta.anthony@epa.gov)>; Vail, Nick (FHWA) <[nick.vail@dot.gov](mailto:nick.vail@dot.gov)>; Carpenter, Patrick (FHWA) <[patrick.carpenter@dot.gov](mailto:patrick.carpenter@dot.gov)>; Leslie, Michael <[leslie.michael@epa.gov](mailto:leslie.michael@epa.gov)>; Sam Wallace <[samuel.wallace@dot.gov](mailto:samuel.wallace@dot.gov)>; Andrea.Henderson@dot.ohio.gov; Spencer.Smith@dot.ohio.gov; Cales, Michael <[MCALES@indot.IN.gov](mailto:MCALES@indot.IN.gov)>; Jocelyn Hoffman <[jocelyn.johnson@dot.gov](mailto:jocelyn.johnson@dot.gov)>; claire.oyler@ky.gov; Graham Johnson <[graham.johnson@epa.ohio.gov](mailto:graham.johnson@epa.ohio.gov)>; Kenny, William <[William.Kenny@epa.ohio.gov](mailto:William.Kenny@epa.ohio.gov)>; daniel.forbush@dot.gov; k.carmanygeorge@dot.gov; Nallaballi, Neena <[Nallaballi.Neena@epa.gov](mailto:Nallaballi.Neena@epa.gov)>; Harrod, Justin D (KYTC) <[Justin.Harrod@ky.gov](mailto:Justin.Harrod@ky.gov)>; Balaji, Jayalakshmi J (KYTC)

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Cc: Cassandra.Job\_e\_ky.gov <[Cassandra.Job\\_e@ky.gov](mailto:Cassandra.Job_e@ky.gov)>

**Subject:** IAC Regarding KY Motor Vehicle Emissions Budgets for the 2008 Ozone NAAQS Second 10-Year Maintenance Plan for the KY Portion of the Cincinnati-Hamilton, OH-KY-IN Area

**Caution:** This email originated from outside EPA, please exercise additional caution when deciding whether to open attachments or click on provided links.

Hello everyone,

The Kentucky Division for Air Quality (the Division) is beginning the interagency consultation process for the 2008 ozone NAAQS second 10-year maintenance plan for the Kentucky portion of the Cincinnati-Hamilton, OH-KY-IN area.

In August of 2024, the Ohio-Kentucky-Indiana Regional Council of Governments (OKI) completed MOVES modeling that resulted in the development of onroad mobile source emissions for the 2008 ozone NAAQS second 10-year maintenance plan for the Ohio, Kentucky, and Indiana portions of the Cincinnati-Hamilton, OH-KY-IN area. The August 7, 2024, OKI TSD is attached for your review.

Ohio EPA has already finalized the motor vehicle emissions budgets for the Ohio portion of the area. The Indiana Department of Environmental Management (IDEM) is in the process of finalizing the motor vehicle emissions budgets for the Indiana portion of the area.

The Division is requesting concurrence with the proposed 2037 motor vehicle emissions budgets for the Kentucky portion of the area (which are included in the table below). Please note that 2037 is the maintenance year for the area and is the only year that requires budgets. The Division chose to accommodate a 15% safety margin for the proposed budgets.

**Motor Vehicle Emissions Budgets for the Kentucky Portion of the Cincinnati-Hamilton, OH-KY-IN Area**

	<b>2037 Maintenance Year Projections</b>	<b>2037 Safety Margin Allocation</b>	<b>2037 Motor Vehicle Emissions Budget</b>
<b>VOC (TSD)</b>	1.90	0.29	2.19
<b>NOX (TSD)</b>	1.99	0.30	2.29
<b>VMT (miles/day)</b>	11,683,003	1,752,450	13,435,453

If you would like to have a call regarding this, please let me know by Friday, February 21<sup>st</sup>. Otherwise, **please respond** indicating if you concur with the proposed budgets for the Kentucky portion of the area by Friday, February 28<sup>th</sup>.

The Division would like to include all the necessary parties for this interagency consultation process. If you are aware of anyone that should be included in this interagency consultation that is not on this email, please let me know as soon as possible.

Best regards,

**Blake Borwig**

**Environmental Scientist III**

Evaluation Section, Kentucky Division for Air Quality

Kentucky Energy and Environment Cabinet

Office: (502)782-2751 | [blake.borwig@ky.gov](mailto:blake.borwig@ky.gov)



Please consider the environment before printing this e-mail.

## **Appendix F – Public Notice**

**KENTUCKY DIVISION FOR AIR QUALITY  
PUBLIC NOTICE FOR THE 2008 8-HOUR OZONE NATIONAL AMBIENT AIR  
QUALITY STANDARD SECOND 10-YEAR MAINTENANCE PLAN FOR THE  
KENTUCKY COUNTIES IN THE CINCINNATI-HAMILTON, OH-KY-IN  
MAINTENANCE AREA**

The Kentucky Division for Air Quality (Division) is requesting EPA's approval that the proposed State Implementation Plan (SIP) revision satisfies the 2008 8-hour ozone National Ambient Air Quality Standards (NAAQS) second 10-year maintenance plan requirements for the Kentucky portion of the Cincinnati-Hamilton, OH-KY-IN area (Area). The draft SIP revision includes a projected maintenance year emissions inventory, maintenance demonstration, monitoring network description, verification of continued attainment and a contingency plan. The draft SIP shows that the Kentucky portion of the Area has maintained attainment for the 2008 8-hour ozone NAAQS and will continue to do so through the second maintenance period, i.e. 2037.

In accordance with 40 CFR 51.102, the Division is making this proposed plan available for public inspection and provides the opportunity for public comment concerning Kentucky's second 10-year maintenance plan for the Kentucky portion of the Area. The proposed plan can be found at <https://eec.ky.gov/Environmental-Protection/Air/Pages/Public-Notices.aspx>. The public comment period will be open from April 15, 2025, through May 22, 2025. Comments should be sent to the contact person, via email or written mail, and must be received by May 22, 2025, to be considered part of the public record.

The Division will conduct a virtual public hearing on May 22, 2025, at 10:00 a.m. (Eastern Time). This hearing will be held to receive comments on the proposed SIP revision. This hearing is open to the public and all interested persons will be given the opportunity to present testimony. To assure that all comments are accurately recorded, the Division requests that oral comments presented at the hearing are also provided in written form, if possible. It is not necessary that the hearing be held or attended in order for persons to comment on the proposed administrative regulation. If no request for a public hearing is received by May 15, 2025, the hearing will be cancelled, and notice of the cancellation will be posted at <https://eec.ky.gov/Environmental-Protection/Air/Pages/Public-Notices.aspx>.

Please note that registration is required to participate in this hearing. You must either email your name and mailing address to [claire.oyler@ky.gov](mailto:claire.oyler@ky.gov) or mail this information to Claire Oyler, Division for Air Quality, 300 Sower Blvd., 2nd Floor, Frankfort, KY 40601. Please put "Registration for the Cincinnati-Hamilton, OH-KY-IN area second maintenance plan public hearing" as the subject line, and state in the body of the message if you plan to speak during the hearing.

**CONTACT PERSON:** Claire Oyler, Evaluation Section, Division for Air Quality, 300 Sower Boulevard, Frankfort, Kentucky 40601. Phone: (502) 782-3930  
Email: [claire.oyler@ky.gov](mailto:claire.oyler@ky.gov)

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