Onroad Emissions MOBILE6.2 to MOVES Replacement Submittal

For the South Bend-Elkhart, Indiana Maintenance Area under the 1997 8-Hour Ozone Standard

August 2012
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Introduction

On May 30, 2006, the Indiana Department of Environmental Management (IDEM) submitted a Request for Redesignation and Maintenance Plan for Ozone Attainment in the 8-Hour Ozone Nonattainment Area, St. Joseph-Elkhart Counties, Indiana. The United States Environmental Protection Agency (U.S. EPA) subsequently approved the Indiana redesignation of the South Bend-Elkhart Area (including St. Joseph and Elkhart counties) to attainment for ozone on April 18, 2007 (72 FR 19413). Onroad emissions for the May 30, 2006, submittal were calculated using MOBILE6.2. U.S. EPA has encouraged mobile source stakeholders to transition to the new Motor Vehicle Emissions Simulator (MOVES) model as expeditiously as possible. Therefore, IDEM is providing this MOBILE6.2 to MOVES replacement update to the previously submitted 8-hour ozone maintenance plan for the South Bend-Elkhart Area that incorporates MOVES-based onroad emissions.

Emission Inventory

The table, “2010 and 2020 Projected Emission Inventory”, was included in Appendix C of the original Redesignation Petition and Maintenance Plan. This table also included the year 2004 (the middle year of the area’s attainment design value). The table, “2010 and 2020 Projected Emission Inventory – A”, (to be considered a replacement of the table included in Appendix C) has been revised to incorporate updated onroad emission estimates for nitrogen oxides (NOx) and volatile organic compounds (VOCs) for the years 2004, 2010, and 2020; it results in a different overall safety margin for the area.

2010 and 2020 Projected Emission Inventory
In Tons Per Summer Day, South Bend-Elkhart Area (MOBILE6.2-based Onroad Emissions)

<table>
<thead>
<tr>
<th>Sector</th>
<th>NOx 2004</th>
<th>NOx 2010</th>
<th>NOx 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area</td>
<td>7.13</td>
<td>7.54</td>
<td>7.98</td>
</tr>
<tr>
<td>Nonroad</td>
<td>19.56</td>
<td>14.06</td>
<td>9.78</td>
</tr>
<tr>
<td>Onroad</td>
<td>30.44</td>
<td>49.29</td>
<td>74.45</td>
</tr>
<tr>
<td>Point</td>
<td>5.9</td>
<td>6.32</td>
<td>7.17</td>
</tr>
<tr>
<td>Total</td>
<td>62.70</td>
<td>47.21</td>
<td>32.28</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sector</th>
<th>VOC 2004</th>
<th>VOC 2010</th>
<th>VOC 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area</td>
<td>29.43</td>
<td>31.15</td>
<td>35.20</td>
</tr>
<tr>
<td>Nonroad</td>
<td>13.40</td>
<td>10.47</td>
<td>8.06</td>
</tr>
<tr>
<td>Onroad</td>
<td>47.52</td>
<td>41.56</td>
<td>6.26</td>
</tr>
<tr>
<td>Point</td>
<td>25.63</td>
<td>29.16</td>
<td>39.78</td>
</tr>
<tr>
<td>Total</td>
<td>85.98</td>
<td>82.34</td>
<td>89.30</td>
</tr>
</tbody>
</table>
Onroad emission estimates in the table, “2010 and 2020 Projected Emission Inventory - A”, were calculated using U.S. EPA’s MOVES model-produced emission factors and data extracted from the area’s travel-demand model. The MOVES model implements a significantly different approach to emissions estimation than the previous model (MOBILE6.2). Preliminary use of the MOVES model indicates that emission estimates can be considerably different than similar calculations using MOBILE6.2, which was used to create the original Motor Vehicle Emission Budgets (MVEBs) for the South Bend-Elkhart Area. A general summary of the MOVES methodology used in this area can be found in Appendix A. In addition, MOVES input and output files are being provided electronically with this submittal. Growth and control strategy assumptions for non-mobile sources (i.e. area, nonroad, and point) from the original submittal for the years 2004, 2010, and 2020 were developed before the economic challenges of the last several years. Because of this, the factors included in the original submittal may project more growth than will actually occur in the future. As a result, the growth and control strategy assumptions for the non-mobile sources for the years 2004, 2010, and 2020 continue to be valid and do not affect the overall conclusions of the plan.

Onroad safety margins have been included for onroad emission estimates to accommodate the wide array of assumptions that are factored into the calculation process. Since assumptions change over time, it is necessary to have an onroad safety margin that will accommodate the impact of refined assumptions in the process. The plan continues to meet all applicable Clean Air Act (CAA) requirements as the revised emission inventories clearly illustrate that total NOx and VOC emissions in the South Bend-Elkhart Area will continue to decline leading to local reductions between 2004 (base year) and 2020 (maintenance plan horizon).
Transportation Conformity Budgets

Table 5.1 was included on Page 16 of the original Redesignation Petition and Maintenance Plan for the South Bend-Elkhart Area. Table 5.1 – A (to be considered a replacement of Table 5.1) has been revised to incorporate U.S. EPA’s MOVES model-produced emission factors and data extracted from the region’s travel-demand model.

Table 5.1
Emission Estimations for On-Road Mobile Sources
(MOBILE6.2-based Onroad Emissions)

<table>
<thead>
<tr>
<th>St. Joseph and Elkhart</th>
<th>2004</th>
<th>2010</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>YMT (miles/day)</td>
<td>11,653,900</td>
<td>12,408,975</td>
<td>13,282,621</td>
</tr>
<tr>
<td>VOC (tons/day)</td>
<td>17.52</td>
<td>11.56</td>
<td>6.64</td>
</tr>
<tr>
<td>NOX (tons/day)</td>
<td>30.11</td>
<td>19.29</td>
<td>7.73</td>
</tr>
</tbody>
</table>

Table 5.1 - A
Emission Estimates for On-Road Mobile Sources
(MOVES-based Onroad Emissions)

<table>
<thead>
<tr>
<th>St. Joseph and Elkhart Counties</th>
<th>2004</th>
<th>2010</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC (tons/day)</td>
<td>28.37</td>
<td>13.87</td>
<td>5.85</td>
</tr>
<tr>
<td>NOX (tons/day)</td>
<td>58.89</td>
<td>32.12</td>
<td>12.13</td>
</tr>
</tbody>
</table>

Table 5.2 was included on Page 16 of the original Redesignation Petition and Maintenance Plan for the South Bend-Elkhart Area. Table 5.2 – A (to be considered a replacement of Table 5.2) has been revised to incorporate MVEBs calculated using U.S. EPA’s MOVES model-produced emission factors and data extracted from the region’s travel-demand model as detailed in Table 5.1 - A.

Table 5.2
Mobile Vehicle Emission Budgets
(MOBILE6.2-based Onroad Emissions)

<table>
<thead>
<tr>
<th>St. Joseph and Elkhart</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC (tons/day)</td>
<td>6.64</td>
</tr>
<tr>
<td>NOX (tons/day)</td>
<td>7.73</td>
</tr>
</tbody>
</table>

Table 5.2 - A
Motor Vehicle Emission Budgets
(MOVES-based Onroad Emissions)

<table>
<thead>
<tr>
<th>St. Joseph and Elkhart Counties</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC (tons/day)</td>
<td>6.73</td>
</tr>
<tr>
<td>NOX (tons/day)</td>
<td>13.95</td>
</tr>
</tbody>
</table>
Through the interagency consultation process, it was determined that a maintenance plan horizon year budget of 2020, would be appropriate. The interagency consultation group approved onroad margins of safety of fifteen percent (15%) for both VOC and NOx onroad emission estimates for the year 2020. A summary of this interagency consultation discussion can be found in Appendix B. These revised emission inventories clearly illustrate that onroad VOC and NOx emissions in the South Bend-Elkhart Area will continue to decline leading to local reductions between 2004 (base year) and 2020 (maintenance plan horizon).

Furthermore, when compared to the overall safety margin as defined in the Code of Federal Regulations (CFR) at 40 CFR 93.101, it is evident the onroad safety margin allocation is reasonable and appropriate. More specifically, even with the allocation of an onroad safety margin to mobile sources, emissions will continue to remain well below the overall safety margin for all sources in the South Bend-Elkhart Area as detailed in the table, “2010 and 2020 Projected Emission Inventory - A.” MVEBs are constrained to ensure that the total emissions (i.e., all source categories) do not exceed the 2004 attainment year emissions of either VOC or NOx, thereby ensuring continued maintenance of the 1997 8-hour ozone standard.

Conclusion

This MOBILE6.2 to MOVES replacement update to the previously submitted 8-hour ozone maintenance plan for the South Bend-Elkhart Area incorporates onroad emission estimates and a revised MVEB using U.S. EPA’s recently adopted MOVES model. MVEBs have been revised in anticipation of the mandatory use of the MOVES model in future transportation conformity determinations. The onroad emission estimates were calculated using the MOVES-based emission factors and data extracted from the area’s travel-demand model. Onroad safety margins for VOCs and NOx, established through the interagency consultation process, are included in order to account for the wide array of assumptions that are factored into the calculation process. MVEBs are also constrained to ensure that total VOC and NOx emissions (i.e., all source categories) do not exceed attainment year (2004) emissions to ensure continued maintenance of the 1997 8-hour ozone standard. With the addition of MOVES-based onroad safety margins applied to mobile sources, the South Bend-Elkhart Area will continue to remain well below the overall safety margins for all sources into the future. As such, the 8-hour ozone maintenance plan for the South Bend-Elkhart Area continues to meet all applicable CAA requirements.
Appendix A

South Bend-Elkhart
MOVES Methodology
The following document is intended to outline the parameters used to run the MOVES emissions model for the MACOG 8-Hour Ozone maintenance area and identify the various sources of information used.
# Table of Contents

General Parameter Inputs ........................................................................................................... A - 3  
Description ................................................................................................................................. A - 3  
Scale ........................................................................................................................................ A - 4  
Time Spans ................................................................................................................................. A - 4  
Geographic Bounds ..................................................................................................................... A - 4  
Vehicles/Equipment | On Road Vehicles ....................................................................................... A - 5  
Road Type ................................................................................................................................ A - 5  
Pollutants / Processes ................................................................................................................ A - 5  
Strategies | Alternative Vehicle Fuels & Technology ................................................................. A - 5  
Output | General Output ................................................................................................................. A - 5  
Output | Output Emissions Detail ..................................................................................................... A - 6  
County Data Manager Inputs .................................................................................................... A - 7  
Source (Vehicle) Type Population – milage-accumulation-rates_039.xlsx .................................. A - 7  
Vehicle Type VMT ....................................................................................................................... A - 7  
Average Speed Distribution – avg_spd_distrib_default.xls ....................................................... A - 8  
Road Type Distribution – roadtype_default.xls ....................................................................... A - 8  
Age Distribution – age_distrib_039.xls ..................................................................................... A - 8  
Ramp Fractions .......................................................................................................................... A - 8  
Meteorology Data – meteorological_converter_mobile6_039.xls ............................................. A - 8  
Fuel – fuel_default_2004_039.xls .............................................................................................. A - 8  
I/M Program ................................................................................................................................ A - 8  
INDOT Air Quality Post-Processor .............................................................................................. A - 9  
Interface Options ....................................................................................................................... A - 9  
Master Inputs ............................................................................................................................ A - 10
General Parameter Inputs

The general parameter inputs are the runspec parameters used to process emissions in MOVES. One runspec is generated for each county in the MACOG 8-Hour Ozone maintenance area and for each model year resulting in ten (10) to sixteen (16) run specifications for the model. Using a multiple runspec creator in MOVES2010, a batch file was created for running each runspec file (*.mrs) in succession without user intervention.

When initially setting up a MOVES specification, it is best to proceed down the list of tabs.

Description
A simple, general description of the various model runs detailing the horizon year, run type (inventory vs. rate), and the county being modeled by that run specification.
Scale

Domain / Scale
A county scale was selected, and two model runs are made for each horizon year; one for Elkhart and one for St. Joseph County. This scale is intended for development of the State Implementation Plan (SIP) and the regional conformity analysis required for 8-hour ozone non-attainment and maintenance areas.

Calculation Type
The emission rate calculation type was chosen over the inventory calculation type in order to provide rates for CMAQ modeling and project level modeling when necessary.

A naming convention was established for flagging the numerous emissions rates generated for each county and model year. Using the MOVESScenarioID field in the MOVES model, the county abbreviation followed by the model year was used, for example, Elk_2004 or SJC_2035.

Time Spans

Time Aggregation Level
Hour was selected following the parameters used by the Indianapolis MPO and agreed upon during an interagency consultation group (ICG) meeting. Statewide data is used to disaggregate the daily VMT from the MACOG travel demand model to hourly VMT as part of the post processing analysis.

Year
A model run is generated for each year of emissions analysis with one (1) year being modeled in each run specification. The 2004 and 2010 model years are included for SIP development purposes. The 2004 model year represents the recorded pollutants in the air from the 2002-2004 time period used to designate the Elkhart and St. Joseph County area as a basic non-attainment area for the 8-hour ozone standard. The 2010 model year was used in the preparation of the SIP to meet the area's 2009 attainment year. Future years are modeled in 5 year increments from 2015 to 2035.

Months
Only July is modeled in the emissions analysis, representing a typical summer day during the ozone season. July 1st was used for Mobile 6.2a modeling.

Days
Weekdays are selected following the lead of the Indianapolis MPO.

Hours
Emissions rates are generated for all hours of the day.

Geographic Bounds
Elkhart County, Indiana and St. Joseph County, Indiana are individually selected for the region being modeled. A domain input database was selected for each county and horizon year, using the MOVESScenarioID (lowercase) with an input suffix (i.e. elk_2004_input) to name the database.
NOTE: The domain input database should be set after all other values in the run specification have been configured. The database is then generated under the Manage Input Data Set tab, the domain input database name under the Geographic Bounds tab is pointed to the database, and the County Data Manager under the Pre Processing menu is used to populate the database from the template files.

Vehicles/Equipment | On Road Vehicles
All valid gas and diesel combinations were included in the emissions modeling. Any non-existent combinations (i.e. diesel motorcycles) were removed to eliminate the MOVES warning messages from the interface.

Road Type
All road types were modeled. However, no off-road types are included in the travel demand model and are not a part of the resulting emissions.

The MOVES Rural Restricted Access (2) road types include rural interstates and principal arterials as travel patterns of rural principal arterials should more closely resemble the travel patterns of a restricted access roadway. Urban Restricted Access (4) road types include interstates, freeways, and expressways, but not primary arterials. Rural Unrestricted Access (3) and Urban Unrestricted Access (5) road types include all other arterials, collectors, and local roads.

Pollutants / Processes
All processes were selected for total gaseous hydrocarbons, non-methane hydrocarbons, volatile organic compounds, carbon monoxide (CO), oxides of nitrogen (NOx), and total energy consumption. Only the emissions for volatile organic compounds (VOC) and oxides of nitrogen (NOx) are required in the final analysis and calculated by the INDOT Air Quality Post-Processor. Total energy consumption and CO emissions are for informational purposes.

Strategies | Alternative Vehicle Fuels & Technology
The MACOG region does not support any compressed natural gas (CNG) vehicles in the areas transit fleet. However, MOVES does consider a mix of CNG and gasoline engines in the transit mix, which can impact final emissions rates. To compensate, all bus source types were adjusted to 100% diesel engines in the database.

Output | General Output

Database Name
All output is stored in the macog_output database, which is deleted from MySQL and recreated in MOVES before generating a new set of emissions rates. Each run is flagged by a county abbreviation and the model year (Elk_2004, SJC_2035, etc) in order to identify and keep the individual model runs within the database separate.

Units
The output units are in grams (mass units), joules (energy), and miles (distance) to prevent rounding errors from using larger units of measurement. Grams are later converted to short tons for reporting.
Activity
Only the grayed out defaults of distance traveled and population are selected.

Output | Output Emissions Detail
Source Use Type was selected in addition to the grayed out default selections.
County Data Manager Inputs

Source (Vehicle) Type Population – milage-accumulation-rates_039.xlsx

Provided by INDOT, the milage-accumulation-rates spreadsheet allowed for the input of vehicle population data based on State registration data as well as base year (2010) and horizon year (2030) model input data from MACOG. The model vehicle miles traveled (VMT) data was broken down by MOVES road type and vehicle growth rates were calculated from available population and employment numbers in the socioeconomic data.

Vehicle Type VMT

HPMSVTypeYear – milage-accumulation-rates_039.xlsx

In addition to calculating the source type population, the milage-accumulation-rates spreadsheet provided by INDOT also breaks down VMT by HPMS vehicle type.

MonthVMTFraction – IndianaMonthDayFractions.xlsx

Indiana defaults provided by INDOT were used to generate emissions rates.
DayVMTFraction - IndianaMonthDayFractions.xls
Indiana defaults provided by INDOT were used to generate emissions rates.

HourVMTFraction - IndianaHourlyFractions.xls
Indiana defaults provided by INDOT were used to generate emissions rates.

Average Speed Distribution - avg_spd_distrib_default.xls
Not needed for emission rate mode (section 3.6.3 from MOVES Technical Guidance). Default data from MOVES used for model runs.

Road Type Distribution - roadtype_default.xls
Not needed for emission rate mode (section 3.7.1 from MOVES Technical Guidance). Default data from MOVES used for model runs.

Age Distribution - age_distrib_039.xls
The preliminary 2009 vehicle registration data by county from the BMV was provided by INDOT and replicated for each emissions year.

Ramp Fractions
Ramp fraction inputs are not applied when the Emission Rate option is selected and will not affect the rates on rural and urban restricted roads (section 3.8 from MOVES Technical Guidance). Default data from MOVES used for model runs.

Meteorology Data - meteorological_converter_mobile6_039.xls
Minimum and maximum temperatures along with absolute humidity were used to generate hourly meteorological data. The temperatures are consistent with those used in Mobile 6.2 model runs. Default absolute humidity values were used.

Fuel - fuel_default_2004_039.xls
Default fuel formulation was used for Elkhart and St. Joseph County based on guidance from the Indianapolis MPO. Defaults were generated for 2004, 2010, and 2012, with the 2012 fuel formulation being used for all future emissions years.

I/M Program
No inspection and maintenance program is currently required in Elkhart or St. Joseph County.
# INDOT Air Quality Post-Processor

## Interface Options

**Emission Type**

MACOG is a maintenance area for the 8-hour ozone standard, but has no particulate matter issues.
Analysis Year
The analysis year drop down list is populated from a comma delimited file, yearlist.csv, with a column for each county and pollutant type. The list was recreated for St. Joseph (Sain_oz) and Elkhart’s (Elkh_oz) ozone analysis years, which were not included in the default file from the State.

Peak Spreading
Peak spreading was enabled in the interface. This allows for the INDOT Air Quality Post-Processor to spread the assigned VMT during the peak hour before and after the peak when it exceeds the hourly capacity of the roadway.

Scenario File
The naming convention for the scenario files included the 4-character county abbreviation, analysis year being calculated, and the pollutant type (i.e. Elkh_2004_Ozone).

Link Table
The link tables are generated for both counties for each analysis year and consists of a subset of the street segment attributes joined with the trip assignments from the travel demand model. The link table consists of the following attributes:

- LinkID – The unique segment identifier assigned by TransCAD.
- Dir – Identifies the link as a two-way segment (0), one-way segment (1), or a one-way segment that travels the opposite direction (-1) that the link was drawn in (BA rather than AB).
- Length – The TransCAD calculated length of the segment.
- County – The county code the link is found in (20 or 71), which is then converted into a name.
- HPMS_FC – The FHWA functional classification of the segment.
- ROAD_TYPE – The road type is based on the functional class of the corridor. Rural Restricted Access (2) road types include rural interstates and principal arterials as travel patterns of rural principal arterials should more closely resemble the travel patterns of a restricted access roadway. Urban Restricted Access (4) road types include interstates, freeways, and expressways, but not primary arterials. Rural Unrestricted Access (3) and Urban Unrestricted Access (5) road types include all other arterials, collectors, and local roads.
- AB_Alpha / BA_Alpha – The alpha values were based on the hard coded values used in the travel demand model.
- AB_Beta / BA_Beta – The beta values were based on the hard coded values used in the travel demand model.
- AB_FF_Time / EA_FF_Time –
- AB_CAP / BA_CAP – The hourly capacity of the link is $1/10^{th}$ of the daily capacity of the segment.
- AB_Veh_Flow / BA_Veh_Flow – The daily flow of vehicles on the link in the given direction.

Intrazonal Table
The intrazonal tables are generated for both counties for each analysis year. The intrazonal table consists of the following attributes:
• TAZ_ID – The unique identifier of the traffic analysis zone.
• County – The county where the traffic analysis zone is located.
• Area_Type – Whether the TAZ is in an urban or rural area of the county.
• Distance – The average length of intrazonal trips in the TAZ. Calculated by determining the radius of a circle with an area equal to the area of the TAZ.
• Dly_Intrazonal_Trips – The daily intrazonal trips generated by the TAZ but that do not leave the TAZ. Calculated by finding the diagonal values of the O-D matrix generated by the travel demand model.

Master Inputs

Rate per Distance, Rate per Profile, Rate per Vehicle
The emission rates for each county and analysis year are each queried out of the MOVES output database (macog_output) individually by emission rate and saved as a comma delimited file using the 4-character county abbreviation, analysis year, emission type, and pollutant type to name the file in the Master Inputs folder (i.e. Elkh_2004_ratesperdistance_oz.csv).

Source Type Population
The source type population used as an input to the MOVES run specification is exported out of the template file as a comma delimited file using the 4-character county abbreviation, analysis year, and SourceTypePopulation (i.e. Elkh_2004_SourceTypePopulation.csv).

Hourly VMT Fraction
The hourly VMT fraction table was provided by INDOT and breaks down the fraction of VMT for each hour of the day by MOVES source type and road type.

HPMS Fractions
The HPMS fraction table was provided by INDOT and breaks down the distribution of the HPMS vehicle types by the FHWA functional classification of the road segment.

Vehicle Class Distribution
The vehicle class distribution table was provided by INDOT and breaks down the distribution of HPMS vehicle types by MOVES road types.
Appendix B

South Bend-Elkhart Area
Interagency Consultation Group
Meeting Minutes/Summary
Interagency Consultation Group (ICG) Conference Call Minutes

For the MOBILE6.2 to MOVES MVEB Replacement Update
Related to the South Bend-Elkhart Maintenance Area under the 1997 8-Hour Ozone Standard

ICG Conference Call Date and Time
- May 10, 2012 at 1pm Eastern

ICG Attendees
- Shawna Seals (IDEM), Patricia Morris (EPA), Steve Smith (INDOT), Larry Heil (FHWA), Vince Bernardin (BLA), Greg Katter (INDOT), Sandra Seanor (MACOG), John-Paul Hopman (MACOG), and Joyce Newland (FHWA)

ICG Discussion Topics and Conclusions
1. For the Ozone MVEB Replacement submittal, various mobile source margins of safety were discussed.
   A. After discussion, the consensus of the ICG was that as long as the a 15% mobile source margin of safety for VOC and NOx emissions does not result in an exceedance of the all sources margins of safety, it was reasonable and appropriate for inclusion in MVEB Replacement submittal. The attached spreadsheet demonstrates that a 15% mobile source margin of safety for VOC and NOx emissions fall well below the all sources margins of safety and, as such, will be reflected in the Ozone MVEB Replacement submittal.
Appendix C

South Bend-Elkhart, Indiana Area
Public Participation Documentation

- Legal Notice of Public Hearing
- Legal Notice Newspaper Correction
- Publisher’s Claims
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LEGAL NOTICE OF PUBLIC HEARING

Motor Vehicle Emission Budgets Replacement Update to the Maintenance Areas of Delaware County, Indiana and South Bend-Elkhart, Indiana for the 1997 8-Hour Ozone Standard

After December 1, 2012, legal notices for public hearings shall no longer be published in newspapers, but will be found on the Indiana Department of Environmental Management web site at: http://www.in.gov/idem/5474.htm.

Notice is hereby given under 40 CFR 51.102 that the Indiana Department of Environmental Management (IDEM) is accepting written comment and providing an opportunity for public hearing regarding the Motor Vehicle Emission Budget (MVEB) replacement updates to the Delaware County, Indiana and South Bend-Elkhart, Indiana maintenance areas under the 1997 8-hour ozone standard. Onroad emissions for the original submittals were calculated using the MOBILE6.2 mobile model and are now being replaced with the United States Environmental Protection Agency’s (U.S. EPA’s) recently adopted Motor Vehicle Emissions Simulator (MOVES) mobile model. All interested persons are invited and will be given reasonable opportunity to express their views concerning the submittal of the proposed MVEB replacement updates to the maintenance areas of Delaware County, Indiana and South Bend-Elkhart, Indiana.

The purpose of this notice is to solicit public comment on Indiana’s proposed MVEB replacement updates. The Delaware County, Indiana and South Bend-Elkhart, Indiana areas were designated as nonattainment for the 1997 8-hour ozone standard and subject to the requirements of Section 172 of the Clean Air Act (CAA). One of the compliance requirements mandated by Section 175A(b) of the CAA, is the development of a plan demonstrating that ozone maintenance areas will continue to meet the 8-hour ozone standard for the next ten years, which includes MVEBs for onroad sources, beyond the current maintenance period. This submittal of the proposed MVEB replacement updates to the maintenance areas of Delaware County, Indiana and South Bend-Elkhart, Indiana is being drafted and submitted consistent with U.S. EPA guidance. Upon completion of this public notice process, the MOBILE6.2-based to MOVES-based MVEB replacement updates will be submitted to U.S. EPA for approval into the appropriate State Implementation Plans.

Copies of the draft documents will be available on or before June 18, 2012, to any person upon request and at the following locations:

• Indiana Department of Environmental Management, Office of Air Quality, Indiana Government Center-North, 100 North Senate Avenue, 10th Floor-East Wing, Indianapolis, Indiana

• Indianapolis-Marion County Public Library-West Indianapolis Branch, 1216 South Kappes Street, Indianapolis, Indiana
• Elkhart Public Library, 300 South 2nd Street, Elkhart, Indiana

• Goshen Public Library, 601 South 5th Street, Goshen, Indiana

The draft documents will also be available on the following web page:

http://www.in.gov/idem/4658.htm

An electronic version of all MOVES mobile model input and output files will be available at the public hearing, if held, or upon request.

Any person may submit written comments on the MVEB replacement updates to the maintenance areas of Delaware County, Indiana and South Bend-Elkhart, Indiana on or before July 20, 2012. Written comments should be directed to Mr. Shawn Seals, Mail Code 61-50, Office of Air Quality, Indiana Department of Environmental Management, 100 North Senate Avenue, Indianapolis, Indiana 46204; or fax (317) 233-5967; or email at SSeals@idem.in.gov. Interested parties may also present oral or written comments at the public hearing, if held.

A public hearing on the MVEB replacement updates to the maintenance areas of Delaware County, Indiana and South Bend-Elkhart, Indiana will be held if a public hearing request is received by July 11, 2012. A hearing has been scheduled for July 18, 2012. The hearing will convene at 6:00 p.m. local time at the Indianapolis-Marion County Library-West Branch, 1216 South Kappes Street, Indianapolis, Indiana. If a request for a public hearing is not received by July 11, 2012, the hearing will be cancelled. Interested parties can check the online IDEM calendar at http://www.in.gov/idem/calendar.html or contact Mr. Shawn Seals at the provided contact information after July 11, 2012, to see if the hearing has been cancelled.

***************************************************************
Individuals requiring reasonable accommodations for participation in this hearing, if held, should contact the IDEM Americans with Disabilities Act (ADA) coordinator at:

Attn: ADA Coordinator
Indiana Department of Environmental Management – Mail Code 50-10
100 North Senate Avenue
Indianapolis, IN 46204-2251

Or call (317) 233-1785 (voice) or (317) 232-6565 (TDD). Please provide a minimum of 72 hours notification.
LEGAL NOTICE NEWSPAPER CORRECTION

CORRECTION

The Indiana Department of Environmental Management (IDEM) submitted a legal notice that was published in this newspaper on June 18, 2012, containing one incorrect date. The following correction concerns Motor Vehicle Emission Budgets Replacement Update to the Maintenance Areas of Delaware County, Indiana and South Bend-Elkhart, Indiana for the 1997 8-Hour Ozone Standard. The corrected sentence is:

“Copies of the draft documents will be available on or Before June 20, 2012, to any person upon request at the following locations:”
Claims documents can be found on the following pages
IND DEPT OF ENVIRONMENTAL MANA
MARION COUNTY, INDIANA

PUBLISHER'S CLAIM

LINE COUNT
Display Matter - (Must not exceed two actual lines, neither of which shall
total more than four solid lines of the type in which the body of the
advertisement is set). - number of equivalent lines

Head - Number of lines
Body - Number of lines
Tail - Number of lines
Total number of lines in notice

COMPUTATION OF CHARGES
135.0 lines 2.0 columns wide equals 270.0 equivalent lines at .471
cents per line

Additional charge for notices containing rule and figure work (50 per cent
of above amount)

Charges for extra proofs of publication ($1.00 for each proof in excess of two)

TOTAL AMOUNT OF CLAIM

$ 127.06

DATA FOR COMPUTING COST
Width of single column 5.8 ems 
Number of insertions 1.0 
Size of type 7

Pursuant to the provisions and penalties of IC 5-11-10-1, I hereby certify that the foregoing account is
just and correct, that the amount claimed is legally due, after allowing all just credits, and that no part of the same
has been paid.

I also certify that the printed matter attached hereto is a true copy, of the same column width and type size,
which was duly published in said paper 1 times. The dates of publication being between the dates of:

06/18/2012 and 06/18/2012

Additionally, the statement checked below is true and correct:

☐ Newspaper does not have a Web site.
☒ Newspaper has a Web site and this public notice was posted on the same day as it was published in
  the newspaper
☐ Newspaper has a Web site, but due to a technical problem or error, public notice was posted on
☐ Newspaper has a Web site but refuses to post the public notice.

DATE: 06/18/2012
Title: Clerk

80315-5961471

General Form No. 99P (Rev. 2009/A)
Federal ID# 35-206138
INDIANAPOLIS STAR AND NEWS, INDIANAPOLIS, IN

LEGAL NOTICE OF PUBLIC HEARING

Notice is hereby given under 40 CFR 185.11(a) that the Indiana Department of Environmental Management (IDEM) is accepting written comments to provide public notice of an opportunity for a public hearing regarding the Mobile Source Emission (MOBILE) model. Public notice of the hearing is necessary under 40 CFR 185.11(b). The hearing is necessary to provide public notice of the MOBILE model. All interested persons are invited and will be given reasonable opportunity to present their views concerning the substance of the proposed MOBILE model.

The purpose of this notice is to provide public notice of the Indiana Department of Environmental Management's (IDEM) proposed Mobile Source Emission (MOBILE) model. The MOBILE model is a numerical model used to estimate the emissions of volatile organic compounds and nitrogen oxides from mobile sources. The model is used to support the development of air quality control measures and to assess the effectiveness of existing control measures.

The hearing will be held on July 11, 2012, at 7:00 p.m. at the Indiana Department of Environmental Management, 165 North Senate Avenue, Indianapolis, IN 46204.

The hearing will be open to the public and will be conducted in accordance with the procedures set forth in 40 CFR 185.11(c).

 Individuals interested in participating in this hearing should contact the IDEM, 165 North Senate Avenue, Indianapolis, IN 46204, or call (317) 233-1667 (voice) or (317) 233-1675 (TDD). Written comments may be submitted to IDEM at 165 North Senate Avenue, Indianapolis, IN 46204.

There will be no charge for attendance at the hearing. Attendees are asked to arrive at least 10 minutes prior to the start of the hearing to allow for security screening.

A public notice of the MOBILE model was published in the local newspapers of Delaware County, Indiana, and South Bend, Indiana. Public notice of the hearing will be published in the local newspapers of Delaware County, Indiana, and South Bend, Indiana.

For more information, contact the IDEM at (317) 233-1667 (voice) or (317) 233-1675 (TDD).
IND DEPT OF ENVIRONMENTAL MANA
MARION COUNTY, INDIANA

PUBLISHER'S CLAIM

LINE COUNT
Display Matter - (Must not exceed two actual lines, neither of which shall total more than four solid lines of the type in which the body of the advertisement is set). - number of equivalent lines
Head - Number of lines
Body - Number of lines
Tail - Number of lines
Total number of lines in notice

COMPUTATION OF CHARGES
16.0 lines × 2.4 columns wide equals 38.0 equivalent lines at $0.71 cents per line
Additional charge for notices containing rule and figure work (50 per cent of above amount)
Charges for extra proofs of publication ($1.00 for each proof in excess of two)
TOTAL AMOUNT OF CLAIM

Pursuant to the provisions and penalties of IC 5-11-10-1, I hereby certify that the foregoing account is just and correct, that the amount claimed is legally due, after allowing all just credits, and that no part of the same has been paid.

I also certify that the printed matter attached hereto is a true copy, of the same column width and type size, which was duly published in said paper 1 times. The dates of publication being between the dates of:

06/20/2012 and 06/20/2012

Additionally, the statement checked below is true and correct:

✓ Newspaper does not have a Web site.

Title: Clerk

DATE: 06/20/2012
Date of Serv: 6/18/12 Other Descp: Public Hearing

Date of Serv: 6/18/12 Other Descp: Public Hearing

Amt: 15.06 Fund: 62230 Acct: 599030 Src: Type: 000000

Prog: 27013 Dept: 197649 Bdgt. Ref: 2013 PGBU: 00495

Proj Grant: 49574921365 Activ. ID: 0000900

(Grant Type: Anlys. Type: Cgr Date: 7/6/12 Acct. Int: Date: )

(Amount: Date: )

(Date & Descp = 30 Char. Max.)

(Date & Descp = 30 Char. Max.)
CORRECTION

The Indiana Department of Environmental Management (IDEM) submitted a legal notice that was published in this newspaper on June 19, 2012, containing one incorrect date.

The following correction concerns Motor Vehicle Emission Standards Replacement Update to the Maintenance Areas of Delaware County, Indiana and South Bend-Elkhart, Indiana, as the 1997 Motor Vehicle Emission Standard.

Copies of the draft documents will be available on or before June 25, 2013, to any person upon request at the following locations:

- 4201 W. 46th St., Suite 500
- (317) 260-1500
- 2651 W. 18th St., Suite 200
- (317) 260-1500

Please contact IDEM at (317) 260-1500 for more information.
To: THE ELKHART TRUTH
421 S. Second Street
Elkhart, IN 46516

PUBLISHER’S CLAIM

LINE COUNT
Display (must not exceed two actual lines, neither of which shall total more than four solid lines of the type in which the body of the advertisement is set) number of equivalent lines

Head - Number of lines
190

Body - Number of lines
190

Tail - Number of lines

Total Number of Lines in Notice


COMPUTATION OF CHARGES

95 lines 2 columns wide equal 190 equivalent

Lines at $33.25 per line
$6,300

Additional charge for notices containing rule or tabular work (50% of above amount)
$21.35

Additional charge for enhancement (bold, border, etc.)

Charge for extra proofs in excess of two ($1.00 for each proof in excess of two)
$84.43

TOTAL AMOUNT OF CLAIM
$7,405.78

Data For Computing Cost
Width of single column 0.375 EM
Size of type 7.5 point
Number of insertions 1

PUBLISHER’S AFFIDAVIT

Personally appeared before me, a notary public in and for said county and state, the undersigned Mark T. Wolf who, being duly sworn, says that he is the Classified/Circulation Manager of THE ELKHART TRUTH, a daily newspaper of general circulation, printed and published in the English language in the city of Elkhart in state and county aforesaid, and that the printed matter attached hereto is a true copy, which was duly published in said paper for 18 days, the dates of publication being as follows:

June 18, 2012

APPROVED
BY
DATE
OFFICE OF AIR QUALITY

STATE OF INDIANA

DEPT. OF ENVIRONMENTAL MANAGEMENT
OFFICE OF COMPLIANCE

PUBLISHER’S AFFIDAVIT

State of Indiana
Elkhart County

Subscribed and sworn to before me this 18 day of June, 2012

My commission expires APR, 28, 2014

MARK WOLF

HOSPITALITY PUBLIC SERVICE OF INDIANA
ELKHART COUNTY

Legal Notice of Public Hearing

Notice is hereby given under 49 CFR 61.102 that the Indiana Department of Environmental Management (DEM) is accepting written comments regarding the public hearing notice published in the "Elkhart Truth" on May 18, 2012. DEM is collecting comments on its assessment of the Environmental Impact Statement (EIS) for the proposed 2012 Elkhart County/Bedford Springs Energy Resource Center project. Comments must be received by July 5, 2012, and should be addressed to:

Department of Environmental Management
P.O. Box 3717
Indianapolis, IN 46206


HOSPITALITY PUBLIC SERVICE OF INDIANA
ELKHART COUNTY

My commission expires APR, 28, 2014

MARK WOLF
LEGAL NOTICE OF PUBLIC HEARING

Motor Vehicle Emission Budgets Replacement Update to the Maintenance Areas of Delaware County, Indiana, and South Bend-Elkhart, Indiana or the 1997 8-Hour Ozone Standard

After December 1, 2012, legal notices for public hearings shall no longer be published in newspapers, but will be found on the Indiana Department of Environmental Management website at:
http://www.in.gov/idem/4688.htm

Notice is hereby given under 40 CFR 51.102 that the Indiana Department of Environmental Management (IDEM) is accepting written comments and providing an opportunity for public hearing regarding the Motor Vehicle Emission Budget (MVEB) replacement updates to the Delaware County, Indiana and South Bend-Elkhart, Indiana maintenance areas under the 1997 8-hour ozone standard. Proposed emissions for the original submittals were calculated using the MOBILE6.2 mobile model and are now being replaced with the United States Environmental Protection Agency (U.S. EPA) recently adopted Vehicle Emission Simulator (MOVES) mobile model. All interested persons are invited and will be given reasonable opportunity to express their views concerning the submittal of the proposed MVEB replacement updates to the maintenance areas of Delaware County, Indiana and South Bend-Elkhart, Indiana.

The purpose of this notice is to solicit public comment on Indiana's proposed MVEB replacement updates. The Delaware County, Indiana and South Bend-Elkhart, Indiana areas were designated as nonattainment for the 1997 8-hour ozone standard and subject to the requirements of Section 172 of the Clean Air Act (CAA). One of the compliance requirements mandated by Section 176(A)(2) of the CAA is the development of a plan demonstrating that ozone maintenance areas will continue to meet the 8-hour ozone standard for the next ten years, which includes MVEB for ozone sources, beyond the current maintenance period. This submittal of the proposed MVEB replacement updates to the maintenance areas of Delaware County, Indiana and South Bend-Elkhart, Indiana is being drafted and submitted in consultation with the U.S. EPA guidance. Upon completion of the public notice process, the MOBILE6.2-based to MOVES-based MVEB replacement updates will be submitted to the U.S. EPA for approval into the appropriate State Implementation Plans.

Copies of the draft documents will be available on or before July 11, 2012, to any person upon request at the following locations:

* Indiana Department of Environmental Management, Office of Air Quality, Indiana Government Center-North, 100 North Senate Avenue, 10th Floor-East Wing, Indianapolis, Indiana

* Indianapolis-Marion County Public Library-West Indianapolis Branch, 1215 South Koppes Street, Indianapolis, Indiana

* Elkhart Public Library, 800 South 2nd Street, Elkhart, Indiana

* Goshen Public Library, 601 South 5th Street, Goshen, Indiana

The draft documents will also be available on the following web page:

http://www.in.gov/idem/4688.htm

An electronic version of all MOVES mobile model input and output files will be available at the public hearing, if held, or upon request.

Any person may submit written comments on the MVEB replacement updates to the maintenance areas of Delaware County, Indiana and South Bend-Elkhart, Indiana on or before July 20, 2012. Written comments should be directed to Mr. Shawn Seals, Mail Code 61-60, Office of Air Quality, Indiana Department of Environmental Management, 100 North Senate Avenue, Indianapolis, Indiana 46204, or fax (317) 233-5967 or email at SSeals@idem.in.gov. Interested parties may also present oral or written comments at the public hearing, if held.

A public hearing on the MVEB replacement updates to the maintenance areas of Delaware County, Indiana and South Bend-Elkhart, Indiana will be held if a public hearing request is received by July 11, 2012. A hearing will be scheduled for July 18, 2012. The hearing will convene at 6:00 p.m., local time, at the Indianapolis-Marion County Library-West Branch, 1215 South Koppes Street, Indianapolis, Indiana. If a request for a public hearing is not received by July 11, 2012, the hearing will be cancelled. Interested parties can check the online IDEM calendar at http://www.idem.in.gov/calendar.html or contact Mr. Shawn Seals at the contact information after July 11, 2012, to see if the hearing has been cancelled.

Individuals requiring reasonable accommodations for participation in this hearing, if held, should contact the IDEM Americans with Disabilities Act (ADA) coordinator at:

Attn: ADA Coordinator
Indiana Department of Environmental Management - Mail Code 60-10
100 North Senate Avenue
Indianapolis, IN 46204-2251

Or call (317) 233-1785 (voice) or (317) 233-6566 (TDD). Please provide a minimum of 72 hours notice.

June 18
PUBLISHER'S CLAIM

Display ad (not to exceed two actual lines, neither of which shall total more than four solid lines of the type in which the body of the advertisement is set) number of equivalent lines

Head: Number of lines
Body: Number of lines
Tail: Number of lines
Total Number of Lines in Notice

22
22

RECEIVED

JUL 5 2012

STATE OF INDIANA
Department of Environmental Management
Office of Air Quality

Data For Computing Cost
Width of single column 9.375 EM
Size of type 7.5 point
Number of insertions 1

COMPUTATION OF CHARGES

22 lines, 1 column wide equals 22 equivalent

Lines at 3.32 $ per line
Additional charge for notices containing rule or labor work (50% of above amount)
Additional charge for enhancement (bold, center, etc.)
Charge for extra proofs in excess of two ($1.00 for each proof in excess of two)

Total Amount of Claim

7.30

Pursuant to the provisions and penalties of Ch. 155, Acts 1983, I hereby certify that the foregoing account is just and correct, that the amount claimed is legally due, after allowing all just credits, and that no part of the same has been paid.

Date: June 20, 2012

Mark T. Wolf
Title: Classified Call Center Manager

PUBLISHER'S AFFIDAVIT

Personalized to a public officer in the said county and state, the undersigned Mark T. Wolf, who, being duly sworn, says that he is the Classified Call Center Manager of The Elkhart Truth a daily newspaper of general circulation printed and published in the English language in the city of Elkhart in said county on or about the day of June 20, 2012, containing the following advertisement:

The Indiana Department of Environmental Management (IDEM) submitted a legal notice that was published in this newspaper on June 18, 2012, containing the corrected dates to correct the following correction:

Correction: The Indiana Department of Environmental Management (IDEM) submitted a legal notice that was published in this newspaper on June 13, 2012, containing the corrected dates to correct the following correction:

Subscribed and sworn to before me this June 20, 2012.

Teri A. Fritz
(Notary Public)

My commission expires Apr. 28, 2014

Elkhart County
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Date of Issue: 6/21/21

On Account of Application For

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<tr>
<td>CLAIM NO:</td>
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</tbody>
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$92-57481

on behalf of:

Amount $20

Allowed

In the sum of:

[Signature]

I certify that the within claim is true and correct.

That it is properly (correct) (incorrect)

That it is based upon statutory authority

That it is duly substantiated as required by law

That it is in proper form

That it is in accordance with

I have examined the within claim and hereby
CORRECTION

The Indiana Department of Environmental Management (IDEM) submitted a legal notice that was published in this newspaper on June 18, 2012, containing one incorrect date. The following correction concerns Motor Vehicle Emission Budgets Replacement Update to the Maintenance Areas of Delaware County, Indiana and South Bend-Elkhart, Indiana for the 1997 8-Hour Ozone Standard. The corrected sentence is:

"Copies of the draft documents will be available on or before June 20, 2012, to any person upon request at the following locations."

June 20