

# Transportation Conformity Update

## Update Topics:

- 2008 Ozone NAAQS Classification Change
- Federal Register Notice: Findings of Failure To Submit State Implementation Plan Submittals for the 2008 Ozone NAAQS
- Data Issues
- New MOVES Model

## **Reclassification of the Chicago Region's Nonattainment area from Moderate to Serious under the 2008 Ozone NAAQS**

How did this happen?

What does this mean?

What's the next steps?

# Transportation Conformity Update

## Reclassification of the Chicago Region's Nonattainment area from Moderate to Serious under the 2008 Ozone NAAQS

How did this happen?

- Air monitors in the region recorded Ozone levels above the standard of .075ppm.
  - Specifically our design value for 2015-2017 was .078ppm and
  - The 2017 4<sup>th</sup> highest daily average max was .079ppm.
- By law if you fail to attain the standard after 9 years you are reclassified to Serious. (Our 9 year window has passed).
- The 2008 NAAQS were not revoked when the 2015 NAAQS became final.

# Transportation Conformity Update

## Reclassification of the Chicago Region's Nonattainment area from Moderate to Serious under the 2008 Ozone NAAQS

What does this mean?

- IEPA will need to revise the SIP. As part of that revision a new Motor Vehicle Emissions Budget (MVEB) will need to be developed.
- The MVEB will likely be lower as the reductions required to attain the 2008 NAAQS are increased.
- Vehicle miles traveled (VMT) demonstration will need to be done and transportation control measures (TCM's) may be needed.
- More modeling and data validation will need to be done.

# Transportation Conformity Update

## Reclassification of the Chicago Region's Nonattainment area from Moderate to Serious under the 2008 Ozone NAAQS

### What's the next steps?

- A federal register notice was published November 14, 2018
  - The notice outlined the timeframe to do SIP revisions for a reclassification for 11 areas in the country that are changing from Moderate to Serious nonattainment areas.
  - The SIP revisions are due 12 months after the effective date of the final reclassification notice.
  - CMAP is working with IEPA, EPA and LADCO to work on data issues and to develop a new MVEB. That needs to be done by the end of Spring so that other components of the SIP revisions can be done by IEPA and modeled.
- The region needs to reach attainment by July 20, 2021 or it will be reclassified as Severe 15 .
  - Attainment will be based on Ozone seasons 2018, 2019, and 2020.

# Transportation Conformity Update

## Illinois Ozone 8-hour Exceedance Summary

# 2018

### 8-hour Exceedances Summary

Values in each column is 8-hour concentration - standard of 70 parts per billion;

Region	County	Site	5/5	5/8	5/17	5/24	5/25	5/26	5/27	5/28	5/29	6/1	6/5	6/6	6/7	6/8	6/15	6/16	6/28	6/29	7/3	7/8	7/9	7/11	7/13	7/15	8/3	8/4	8/13
Chicago Metropolitan	Cook	Alsip				71	76	75	86	85							73		74		79			83			72		
	Cook	Chicago - Com Ed				71	78	74	87	78							71				73			74					
	Cook	Chicago - SWFP		71		71	89	75	83	80																	76		
	Cook	Chicago - Taft				71	79	73	95	77							71												
	Cook	Cicero					77	71	88	76							72												
	Cook	Des Plaines				74	75	71	89	75							79	73					73			80	75		
	Cook	Evanston	73	77		77	92	80	96	77							76				72			86		84	83		
	Cook	Lemont																				75			79				
	Cook	Northbrook				77	83	73	96	73							76	73					72			84	86		
	Cook	Schiller Park								81																			
	DuPage	Lisle				74	71		77	72														73					71
	Kane	Elgin				74			72	72	77													77					
	Lake	Zion		72		73	91	73	88																	82	74		74
	McHenry	Cary				74	72	71	76			75						77	71					71					
	Will	Braidwood	71						76	75						78													

# Transportation Conformity Update

## Federal Register Notice: Findings of Failure To Submit State Implementation Plan Submittals for the 2008 Ozone NAAQS

*If the EPA has not affirmatively determined that the state has submitted a complete SIP addressing the deficiencies that are the basis for the findings within 6 months after the offset sanction is imposed, or the submittal has not become complete by operation of law 6 months after submittal, then the highway funding sanction will apply in the affected nonattainment area...*

**DONE**

# Transportation Conformity Update

## Data Issues: Vehicle population file

New Vehicle File (2018)		Previous Vehicle File (used for ON TO 2050 Conformity)		Difference		
Type	Vehicles	Type	Vehicles	Type	Difference (New - Old)	% Change
Motorcycles	138,113	Motorcycles	157,851	Motorcycles	-19,738	-13%
Passenger Car	3,754,445	Passenger Car	4,601,357	Passenger Car	-846,912	-18%
Passenger Truck	2,252,247	Passenger Truck	2,094,966	Passenger Truck	157,281	8%
Light Commercial Truck	80,011	Light Commercial Truck	6,231	Light Commercial Truck	73,780	1184%
Intercity Bus	0	Intercity Bus		Intercity Bus	0	0%
Transit Bus	3,019	Transit Bus	2,594	Transit Bus	425	16%
School Bus	12,638	School Bus	21,367	School Bus	-8,729	-41%
Refuse Truck	105	Refuse Truck	1,231	Refuse Truck	-1,126	-91%
Single Unit Short Haul Truck	3,480	Single Unit Short Haul Truck	6,582	Single Unit Short Haul Truck	-3,102	-47%
Single Unit Long Haul Truck	22,988	Single Unit Long Haul Truck	4,352	Single Unit Long Haul Truck	18,636	428%
Motor Home	6,141	Motor Home	5,646	Motor Home	495	9%
Combination Short Haul Truck	2,348	Combination Short Haul Truck	2,530	Combination Short Haul Truck	-182	-7%
Combination Long Haul Truck	18,875	Combination Long Haul Truck	17,120	Combination Long Haul Truck	1,755	10%
Total	6,294,410	Total	6,921,827	Total	-627,417	-9%



# Transportation Conformity Update

## New MOVES model in 2020

### - Some potential Issues:

- We will have to switch to the new model about 12 months after it is released and use it for conformity.
- As part of the AMPO Air Quality Working group we will likely be able to Beta Test the new version and provide feedback prior to the release.
- In the past sometimes a switch to a new model has had a profound impact on emissions as new data and default settings, and algorithms are used.
- It's possible new data maybe needed.
- Reporting and formatting issues may be problematic

# Thank You

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