



## MEMORANDUM

**To:** Transportation Committee

**Date:** August 5, 2011

**From:** CMAP Staff

**Re:** Semi-annual GO TO 2040/TIP Conformity Analysis & TIP Amendments

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In accordance with the biannual conformity analysis policy, CMAP staff asked programmers to submit changes to projects included in the regional air quality analysis of the Transportation Improvement Program (TIP) and GO TO 2040. We received responses from all programmers and specific TIP changes are listed in the attached report. Of the numerous changes requested only nine projects required air quality conformity action. TIP projects are comprised of various work types.

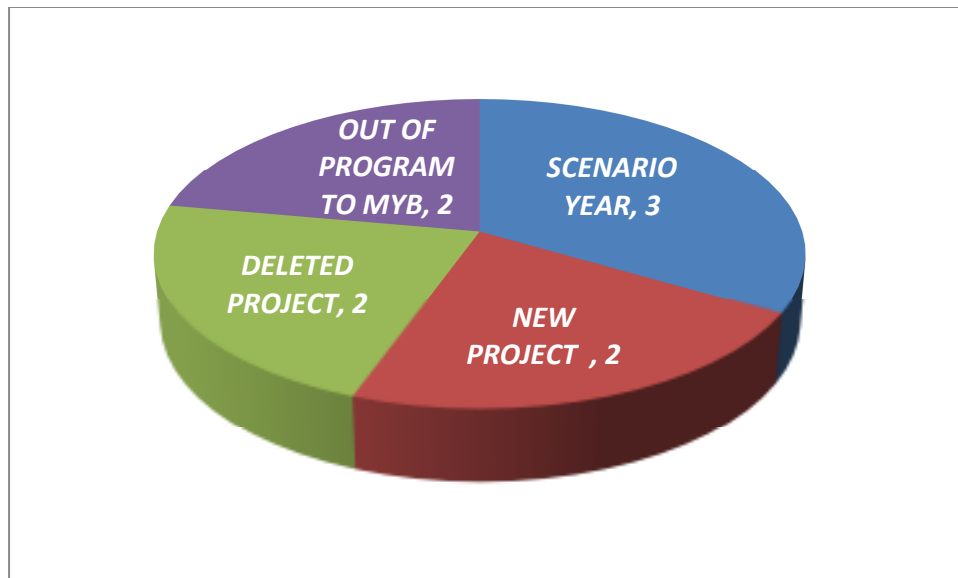
- An exempt work type does not require an air quality conformity analysis. Examples of exempt work types are road resurfacing and bus rehabilitation.
- Exempt tested work types do not require an air quality conformity analysis, but the region has chosen to include the impacts of the work types in the travel demand model. Exempt tested projects include lane widening and new commuter parking lots
- Non-exempt work types may affect air quality and must be tested for conformity. Examples of non-exempt work types are adding lanes to a road, signal timing and extending a rail line.

Changes include two new projects and two deleted projects. There are two projects with a limit change. Limits are the cross-streets, mileposts or other boundaries which define the extent of a project.

Twenty-five projects changed completion year. Completion years indicate when a project is anticipated to be in service to users and determines what analysis years the project will be considered in. The current conformity analysis includes four analysis years, 2016, 2020, 2030 & 2040. When a project's completion year change puts it into a different analysis year, a new conformity analysis is required. Only three of those projects, TIP ID 07-96-0013 Joe Orr Road changed from 2015 to 2020, TIP ID 12-07-0020 I-55 from Lorenzo Road to IL 129 from 2015 to 2018, and TIP ID 11-00-0001 IL 31 from IL 120 to IL176 from 2015 to 2020 had a completion year change affecting the analysis year. Two projects TIP ID 09-02-9008 I-90 Northwest Tollway from Newburg Rd to Plaza 9 – Elgin MP 17.0-45.0 111013conformityTCreport

which also has a limit change and TIP ID 10-94-0014 Pulaski from O'Plaine Road to IL43 have moved out of the program years (11-15) to MYB (the multi-year B program).

The following chart shows a break-down of the type of project changes requested.



The 2016, 2020, 2030 and 2040 highway networks were coded to include the project changes listed in the Non-Exempt Projects Requiring Conformity Determination report. The regional travel demand model was run using the updated networks. The resultant vehicle miles traveled (VMT) by speed and facility type for eight vehicle classes was expanded to the twenty-eight vehicle types needed for use with USEPA's MOBILE model. The on-road emission estimates are the sum of those emissions for each precursor or direct pollutant in each scenario year. Reductions from the National Energy Policy Act Credit and Clean Fuel Fleet Program have not been claimed.

For ozone precursors, the resulting emissions estimates fell below the applicable attainment demonstration SIP budgets.

Since there are no SIP budgets for annual direct PM<sub>2.5</sub> and NO<sub>x</sub> emissions, these estimates were combined with estimates from northwest Indiana, which is also part of the nonattainment area. The combined direct PM<sub>2.5</sub> and NO<sub>x</sub> emissions remain below emissions estimates for 2002, the baseline year.

**Northeastern Illinois Transportation Improvement Program  
TIP Amendment October 13, 2011  
Conformity Analysis Summary Results**

**Direct PM<sub>2.5</sub> and NO<sub>x</sub> Emissions in Tons per Year for PM<sub>2.5</sub> Conformity**

Year	Fine Particulate Matter			Nitrogen Oxide		
	Northeastern	Northwest	Nonattainment	Northeastern	Northwest	Nonattainment
	Illinois	Indiana	area Total	Illinois	Indiana	area Total
2002	3,070.78	562.64	3,633.42	167,630.81	30,397.97	198,028.78
2016	1,073.93	112.28	1,186.21	40,800.91	3,929.58	44,730.49
2020	969.53	104.73	1,074.26	27,727.06	2,734.46	30,461.52
2030	957.10	109.53	1,066.63	19,099.32	1,963.33	21,062.65
2040	1,003.50	122.52	1,126.02	19,304.80	2,110.97	21,415.77

conformity is demonstrated by comparison of analysis year emissions to the baseline year (2002)

**VOC and NO<sub>x</sub> Emissions in Tons per Summer Day for Ozone Conformity**

Year	Volatile Organic Compounds		Nitrogen Oxides	
	Northeastern		Northeastern	
	Illinois	SIP Budget	Illinois	SIP Budget
2016	61.31	133.78	110.13	284.65
2020	52.50	73.68	74.07	88.17
2030	51.97	73.68	49.47	88.17
2040	55.61	73.68	49.62	88.17

conformity is demonstrated by comparison of analysis year emissions to the SIP budgets

**Notes**

Off-model benefits are not included in the total emissions estimates  
NIRPC emissions from June 23, 2011 conformity analysis, assuming construction of Cline Avenue Bridge



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### Conformity Amendment

Project:	Action	Pre-Revision Federal Funds (000)	Post-Revision Federal Funds (000)	Change in Federal Funds (000)	Percentage Change	
01-02-0032	CMAQ Del Non-Exempt		\$792			
CENTRAL AVE FROM I- 55 STEVENSON EXPY (COOK) TO 55TH ST (COOK) MIDWAY AIRPORT CORRIDOR SIGNAL INTERCONNECT						
<b>Completion Year:</b> 2011						
<b>Project Work Types After Revision:</b> SIGNALS - INTERCONNECTS AND TIMING						
Financial Data After Revision	Fund Source	Project Phase	FFY	Total Cost	Federal Cost	Segment
	CMAQ	CONSTRUCTION	11	990	792	
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Project:	Action	Pre-Revision Federal Funds (000)	Post-Revision Federal Funds (000)	Change in Federal Funds (000)	Percentage Change	
01-11-0010	IDOT District 1 Division of Highways New Non-Exempt		\$35200			
US 12 US 45 MANNHEIM RD FROM 1)ILL 72 (HIGGINS RD) TO I-190 (COOK/Chicago) 2)I-190 TO ILL 19 (IRVING PARK RD)						
<b>Completion Year:</b> 2015						
<b>Project Work Types After Revision:</b> HIGHWAY/ROAD - ADD LANES SAFETY - LIGHTING						
Financial Data After Revision	Fund Source	Project Phase	FFY	Total Cost	Federal Cost	Segment
	NHS	CONSTRUCTION	12	19000	15200	1-70836-0100
	NHS	CONSTRUCTION	12	25000	20000	1-70836-0200
	ILL	ROW ACQUISITION	MYB	500		1-70836-0101
	ILL	ENGINEERING	13	3000		1-70836-0102
	ILL	ENGINEERING-II	MYB	1900		1-70836-0103
	ILL	ENGINEERING	13	3750		1-70836-0201
	ILL	ENGINEERING-II	MYB	2500		1-70836-0202
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Project:	Action	Pre-Revision Federal Funds (000)	Post-Revision Federal Funds (000)	Change in Federal Funds (000)	Percentage Change	
01-97-0085	CMAQ Del Non-Exempt		\$3170			
STREETERVILLE FROM (COOK) ILLINOIS CENTER						
<b>Completion Year:</b> 2012						
<b>Project Work Types After Revision:</b> SIGNALS - INTERCONNECTS AND TIMING						
Financial Data After Revision	Fund Source	Project Phase	FFY	Total Cost	Federal Cost	Segment
	CMAQ	CONSTRUCTION	11	3958	3170	
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Project:	Action	Pre-Revision Federal Funds (000)	Post-Revision Federal Funds (000)	Change in Federal Funds (000)	Percentage Change	
03-11-0020	Cook County Highway Department New Non-Exempt		\$0			
CH A50 Lake Cook Road FROM Raupp Boulevard (COOK/Buffalo Grove) TO Hastings Lane (COOK/Buffalo Grove) Also located within Village of Wheeling.						
<b>Completion Year:</b> 2020						
<b>Project Work Types After Revision:</b> HIGHWAY/ROAD - ADD LANES HIGHWAY/ROAD - INTERSECTION IMPROVEMENT HIGHWAY/ROAD - CORRIDOR IMPROVEMENT						
Financial Data After Revision	Fund Source	Project Phase	FFY	Total Cost	Federal Cost	Segment
	MFT-ALL	ENGINEERING-I	12	555		
	MFT-ALL	CONSTRUCTION	MYB	20000		
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<p><u>Gray Financial Data Records</u> are for informational purposes only and not included in the TIP.</p> <p>This public notice of the revisions being made by CMAP's Transportation Improvement Program satisfies the Program of Projects requirement of Title 49, U.S. Code Section 5307 (c) (1) through (7)</p> <p>CMAQ, the Chicago Metropolitan Agency for Planning -- 233 South Wacker Drive, Suite 800, Chicago, IL 60606 312-454-0400 (voice), 312-454-0411 (fax)</p>						

Project:	Action	Pre-Revision Federal Funds (000)	Post-Revision Federal Funds (000)	Change in Federal Funds (000)	Percentage Change
07-96-0013 Cook County Highway Department	Scenario Year Change	\$579	\$579	\$ 0	0%

FAU 1631 JOE ORR RD MAIN ST EXTENSION FROM BURNHAM AVE (COOK) TO SHEFFIELD/COLUMBIA AVE (COOK)

Completion Year Before Revision: 2015

Completion Year After Revision: 2020

Project Work Types Before Revision: HIGHWAY/ROAD - NEW ROAD

Project Work Types After Revision: HIGHWAY/ROAD - NEW ROAD

Financial Data Before Revision	Fund Source	Project Phase	FFY	Total Cost	Federal Cost	Segment
	STP-L	CONSTRUCTION	MYB	2042	163	
	STP-L	ROW ACQUISITION	14	320	256	
	STP-L	ENGINEERING-I	14	225	180	
	STP-L	ENGINEERING-II	14	203	143	
Financial Data After Revision	Fund Source	Project Phase	FFY	Total Cost	Federal Cost	Segment
	STP-L	CONSTRUCTION	MYB	2042	163	
	STP-L	ROW ACQUISITION	14	320	256	
	STP-L	ENGINEERING-I	14	225	180	
	STP-L	ENGINEERING-II	14	203	143	

Project:	Action	Pre-Revision Federal Funds (000)	Post-Revision Federal Funds (000)	Change in Federal Funds (000)	Percentage Change
09-02-9008 Illinois State Toll Highway Authority	Non-Exempt Project Moved out of Tip	\$0	\$0	\$ 0	

Before Revision: I- 90 NORTHWEST TOLLWAY FROM NEWBURG RD TO PLAZA 9 - ELGIN (KANE) MP 24.8 - 33.7, REHABILITATE / RESURFACE JANE ADDAMS TOLLWAY

After Revision: I- 90 NORTHWEST TOLLWAY FROM NEWBURG RD TO PLAZA 9 - ELGIN (KANE) MP 17.0 - 45.0, REHABILITATE / RESURFACE JANE ADDAMS TOLLWAY

Completion Year Before Revision: 2020

Completion Year After Revision: 2020

Project Work Types Before Revision: HIGHWAY/ROAD - ADD LANES  
BRIDGE/STRUCTURE - RECONST/REHAB CHNG IN LANE USE/WIDTHS  
HIGHWAY/ROAD - RESURFACE ( WITH NO LANE WIDENING)

Project Work Types After Revision: HIGHWAY/ROAD - ADD LANES  
BRIDGE/STRUCTURE - RECONST/REHAB CHNG IN LANE USE/WIDTHS  
HIGHWAY/ROAD - RESURFACE ( WITH NO LANE WIDENING)

Financial Data Before Revision	Fund Source	Project Phase	FFY	Total Cost	Federal Cost	Segment
	TOLL	ENGINEERING	MYB	7692	0	NW05
	TOLL	CONSTRUCTION	11	115700	0	NW05
	TOLL	IMPLEMENTATION	MYB	47700	0	FY15; 5442; H-RS
Financial Data After Revision	Fund Source	Project Phase	FFY	Total Cost	Federal Cost	Segment
	TOLL	IMPLEMENTATION	MYB	709000	0	

Project:	Action	Pre-Revision Federal Funds (000)	Post-Revision Federal Funds (000)	Change in Federal Funds (000)	Percentage Change
10-94-0014 Lake County Department of Transportation	Non-Exempt Project Moved out of Tip	\$0	\$0	\$ 0	

PULASKI (14TH ST) FROM O'PLAINE ROAD (LAKE) IL 43 (LAKE)

Completion Year Before Revision: 2015

Completion Year After Revision: 2015

Project Work Types Before Revision: HIGHWAY/ROAD - EXTEND ROAD  
SIGNALS - NEW SIGNALS FOR MULTIPLE INTERSECTIONS

Project Work Types After Revision: HIGHWAY/ROAD - EXTEND ROAD  
SIGNALS - NEW SIGNALS FOR MULTIPLE INTERSECTIONS

Financial Data Before Revision	Fund Source	Project Phase	FFY	Total Cost	Federal Cost	Segment
	MFT-ALL	ENGINEERING	14	96	0	
	MFT-ALL	CONSTRUCTION	MYB	1200	0	
Financial Data After Revision	Fund Source	Project Phase	FFY	Total Cost	Federal Cost	Segment
	MFT-ALL	ENGINEERING	10	96	0	
	MFT-ALL	CONSTRUCTION	MYB	1200	0	

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Project:	Action	Pre-Revision Federal Funds (000)	Post-Revision Federal Funds (000)	Change in Federal Funds (000)	Percentage Change
11-00-0001	IDOT District 1 Division of Highways Scenario Year Change	\$9640	\$9640	\$ 0	0%

**Before Revision:** IL 31 FRONT ST FROM BULL VALLEY RD (MCHENRY) IL 176 (MCHENRY)  
**After Revision:** IL 31 FRONT ST FROM IL 120 ELM ST (MCHENRY) IL 176 (MCHENRY)

**Completion Year Before Revision:** 2015  
**Completion Year After Revision:** 2020

**Project Work Types Before Revision:** HIGHWAY/ROAD - ADD LANES  
HIGHWAY/ROAD - INTERSECTION IMPROVEMENT

**Project Work Types After Revision:** HIGHWAY/ROAD - ADD LANES  
HIGHWAY/ROAD - INTERSECTION IMPROVEMENT

Financial Data Before Revision	Fund Source	Project Phase	FFY	Total Cost	Federal Cost	Segment
	ILL	ENGINEERING-II	MYB	4200	0	1-75939-0122 (2016)
	HPP	ENGINEERING	MYB	820	656	1-75939-0105
	ILL	ENGINEERING	MYB	8930	0	1-75939-0105
	ILL	ROW ACQUISITION	MYB	8000	0	1-75939-0511
	NHS	CONSTRUCTION	MYB	75000	60000	1-75939-0200
	HPP	ENGINEERING-II	15	1600	1280	1-75939-0102
	NHS	CONSTRUCTION	12	12050	9640	1-76296-0100; INTERSECTION
	ILL	ROW ACQUISITION	11	15000	0	1-76296-0103; IL 31 @ IL 176
	ILL	ENGINEERING-I	09	300	0	1759390109 (ESTABLISHED)
	ILL	ENGINEERING-II	MYB	30		1-75939-0106
	ILL	ENGINEERING-II	MYB	200		1-75939-0512
	ILL	ENGINEERING-II	11	160		1-76296-0108
	ILL	ENGINEERING	12	1000		1-76296-0110
	ILL	ENGINEERING	13	500		1-76296-0120
	ILL	CONSTRUCTION	MYB	8000		1-75939-0250
Financial Data After Revision	Fund Source	Project Phase	FFY	Total Cost	Federal Cost	Segment
	ILL	ENGINEERING-II	MYB	4200	0	1-75939-0122 (2016)
	HPP	ENGINEERING	MYB	820	656	1-75939-0105
	ILL	ENGINEERING	MYB	8930	0	1-75939-0105
	ILL	ROW ACQUISITION	MYB	8000	0	1-75939-0511
	NHS	CONSTRUCTION	MYB	75000	60000	1-75939-0200
	HPP	ENGINEERING-II	15	1600	1280	1-75939-0102
	NHS	CONSTRUCTION	12	12050	9640	1-76296-0100; INTERSECTION
	ILL	ROW ACQUISITION	11	15000	0	1-76296-0103; IL 31 @ IL 176
	ILL	ENGINEERING-I	09	300	0	1759390109 (ESTABLISHED)
	ILL	ENGINEERING-II	MYB	30		1-75939-0106
	ILL	ENGINEERING-II	MYB	200		1-75939-0512
	ILL	ENGINEERING-II	11	160		1-76296-0108
	ILL	ENGINEERING	12	1000		1-76296-0110
	ILL	ENGINEERING	13	500		1-76296-0120
	ILL	CONSTRUCTION	MYB	8000		1-75939-0250

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Project:	Action	Pre-Revision Federal Funds (000)	Post-Revision Federal Funds (000)	Change in Federal Funds (000)	Percentage Change
12-07-0020 IDOT District 1 Division of Highways I- 55 FROM LORENZO ROAD (WILL) IL 129 (WILL)	Scenario Year Change	\$0	\$0	\$ 0	

Completion Year Before Revision: 2015

Completion Year After Revision: 2018

**Project Work Types Before Revision:** INTERCHANGE - EXPAND (NEW MOVEMENTS ADDED TO INTERCHANGE)  
INTERCHANGE - RECONSTRUCTION  
HIGHWAY/ROAD - ADD LANES  
HIGHWAY/ROAD - WIDEN LANES AND RESURFACE

**Project Work Types After Revision:** INTERCHANGE - EXPAND (NEW MOVEMENTS ADDED TO INTERCHANGE)  
INTERCHANGE - RECONSTRUCTION  
HIGHWAY/ROAD - ADD LANES  
HIGHWAY/ROAD - WIDEN LANES AND RESURFACE

**Financial Data Before  
Revision**

Fund Source	Project Phase	FFY	Total Cost	Federal Cost	Segment
ILL	ENGINEERING-II	13	4000	0	1-77633-0430
ILL	ENGINEERING	15	10000	0	1-77633-0500
I-M	CONSTRUCTION	15	23000	21000	1-77633-0200 @ LORENZO
I-M	CONSTRUCTION	MYB	46000	41000	1-77633-0100 @ IL129
I-M	CONSTRUCTION	MYB	28750	25875	1-77633-0300
ILL	ENGINEERING-II	15	3500	0	1-77633-0420
ILL	ROW ACQUISITION	13	3500	0	1-77633-0511
ILL	ENGINEERING-II	14	2500	0	1-77633-0421
ILL	ROW ACQUISITION	14	3500	0	1-77633-0512
ILL	ENGINEERING-I	11	500	0	1-77633-1410
ILL	ENGINEERING-I	09	2000	0	1-77633-0400 (ESTABLISHED)

**Financial Data After Revision**

Fund Source	Project Phase	FFY	Total Cost	Federal Cost	Segment
ILL	ENGINEERING-II	13	4000	0	1-77633-0430
ILL	ENGINEERING	15	10000	0	1-77633-0500
I-M	CONSTRUCTION	15	23000	21000	1-77633-0200 @ LORENZO
I-M	CONSTRUCTION	MYB	46000	41000	1-77633-0100 @ IL129
I-M	CONSTRUCTION	MYB	28750	25875	1-77633-0300
ILL	ENGINEERING-II	15	3500	0	1-77633-0420
ILL	ROW ACQUISITION	13	3500	0	1-77633-0511
ILL	ENGINEERING-II	14	2500	0	1-77633-0421
ILL	ROW ACQUISITION	14	3500	0	1-77633-0512
ILL	ENGINEERING-I	11	500	0	1-77633-1410
ILL	ENGINEERING-I	09	2000	0	1-77633-0400 (ESTABLISHED)

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