Agenda Item No. 12.0



233 South Wacker Drive Suite 800 Chicago, Illinois 60606

312 454 0400 www.cmap.illinois.gov

MEMORANDUM

To: CMAP Board and MPO Policy Committee

From: CMAP Staff

Date: October 5, 2011

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

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.

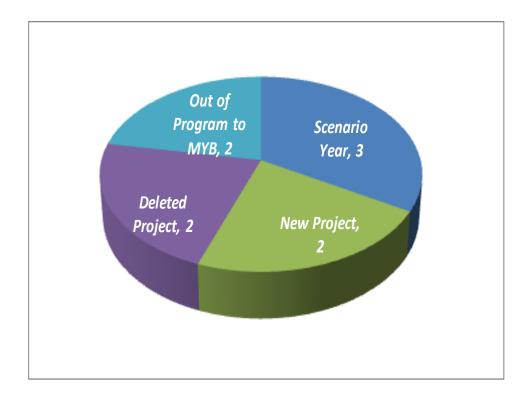
- An exempt work type does not require an air quality conformity analysis. Examples of exempt work types are road resurfacing and bus rehabilitation.
- Exempt tested work types do not require an air quality conformity analysis, but the region has chosen to include the impacts of the work types in the 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 was one project 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 11-00-000 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 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_{2.5} and NOx emissions, these estimates were combined with estimates from northwest Indiana, which is also part of the nonattainment area. The combined direct PM_{2.5} and NOx 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_{2.5} and NO_x Emissions in Tons per Year for PM_{2.5} Conformity

Fine Particulate Matter				Nitrogen Oxide			
Year	Northeastern Illinois	Northwest Indiana	Nonattainment area Total	Northeastern Illinois	Northwest Indiana	Nonattainment 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 NOx Emissions in Tons per Summer Day for Ozone Conformity

	Volatile Organ	ic Compounds	Nitrogen Oxides		
	Northeastern		Northeastern		
Year	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

ACTION REQUESTED: Approval



233 South Waster Drive Sure 800 Chicago, Minors 60606 312 454 0400 www.chapu-Minors.gov

Conformity Amendment

Pre-Revision Post-Revision Change in
Project: Action Federal Funds Federal Funds Federal Funds Percentage Change
(000) (000) (000)

01-02-0032 CMAP Del Non-Exempt \$792

CENTRAL AVE FROM I- 55 STEVENSON EXPY (COOK) TO 55TH ST (COOK) MIDWAY AIRPORT CORRIDOR SIGNAL INTERCONNECT

Completion Year: 2011

Project Work Types After Revision: SIGNALS - INTERCONNECTS AND TIMING

Financial Data After Revision Fund Source Project Phase FFY Total Cost Federal Cost Segment

CMAQ CONSTRUCTION 11 990 792

Project: Pro

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)

Completion Year: 2015

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

SAFETY - LIGHTING

Financial Data After Revision Fund Source FFY **Project Phase** Total Cost Federal Cost Segment NHS CONSTRUCTION 12 19000 15200 1-70836-0100 1-70836-0200 NHS CONSTRUCTION 12 25000 20000 ILL ROW ACQUISITION 500 1-70836-0101 MYB

ILL **ENGINEERING** 13 3000 1-70836-0102 ILL ENGINEERING-II 1900 1-70836-0103 MYB **ENGINEERING** 1-70836-0201 ILL 13 3750 ENGINEERING-II 1-70836-0202 2500 ILL MYB

(000)

Pre-Revision Post-Revision Change in
Project: Action Federal Funds Federal Funds Federal Funds Percentage Change

(000) (000) 97-0085 CMAP Del Non-Exempt \$3170

01-97-0085 CMAP Del Non-Exempt STREETERVILLE FROM (COOK) ILLINOIS CENTER

Completion Year: 2012

Project Work Types After Revision: SIGNALS - INTERCONNECTS AND TIMING

Financial Data After Revision Fund Source Project Phase FFY Total Cost Federal Cost Segment

CMAQ CONSTRUCTION 11 3958 3170

Project: Pre-Revision Post-Revision Change in
Project: Action Federal Funds Federal Funds Federal Funds Percentage Change
(000) (000) (000)

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.

Completion Year: 2020

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

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

Conformity Amendment

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

Fund Source Project Phase FFY Total Cost Federal Cost Segment Revision 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** FFY **Fund Source Project Phase 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-I ENGINEERING-II 14 203 143

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

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

BRIDGE/STRUCTURE - RECONST/REHAB CHNG IN LANE USE/WIDTHS

HIGHWAY/ROAD - RESURFACE (WITH NO LANE WIDENING)

Financial Data Before

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

Pre-Revision Post-Revision Change in Project: Action Federal Funds Federal Funds Federal Funds Percentage Change (000) (000) (000)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 HIGHWAY/ROAD - EXTEND ROAD

Project Work Types After Revision: SIGNALS - NEW SIGNALS FOR MULTIPLE INTERSECTIONS

Financial Data Before

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

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Pre-Revision Post-Revision Change in Project: Action Federal Funds Federal Funds Federal Funds Percentage Change (000) (000)(000)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 HIGHWAY/ROAD - ADD LANES **Project Work Types After Revision:** HIGHWAY/ROAD - INTERSECTION IMPROVEMENT **Financial Data Before Fund Source Project Phase** FFY **Total Cost Federal Cost** Segment Revision ILL ENGINEERING-II 4200 1-75939-0122 (2016) MYB 0 HPP ENGINEERING 1-75939-0105 MYB 820 656 ILL **ENGINEERING** 8930 0 1-75939-0105 MYB ROW ACQUISITION 1-75939-0511 ILL MYB 8000 0 CONSTRUCTION 75000 60000 1-75939-0200 NHS MYB **ENGINEERING-II** 1-75939-0102 HPP 1600 1280 15 1-76296-0100: INTERSECTION NHS CONSTRUCTION 12 12050 9640 ROW ACQUISITION ILL 11 15000 0 1-76296-0103; IL 31 @ IL 176 ILL ENGINEERING-I 09 300 0 1759390109 (ESTABLISHED)

Financial Data After Revision

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

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Change in Federal Funds (000) Pre-Revision Post-Revision Federal Funds (000) Federal Funds (000) Project: Action **Percentage Change** 12-07-0020 IDOT District 1 Division of Highways \$0 \$0 Scenario Year Change \$0

I- 55 FROM LORENZO ROAD (WILL) IL 129 (WILL) **Completion Year Before Revision:** 2015 **Completion Year After Revision:** 2018

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

INTERCHANGE - EXPAND (NEW MOVEMENTS ADDED TO INTERCHANGE) INTERCHANGE - RECONSTRUCTION **Project Work Types After Revision:**

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

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