Agenda Item No. 5.0

Chicago Metropolitan Agency for Planning

233 South Wacker Drive
Suite 800
Chicago, Illinois 60606

312 454 0400
www.cmap.illinois.gov

MEMORANDUM

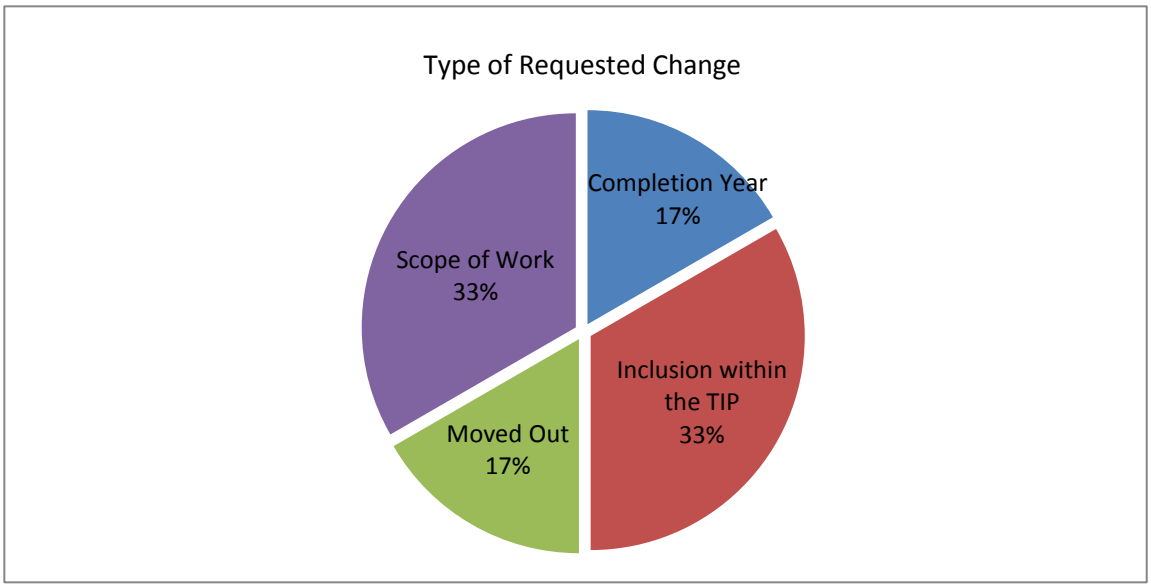
To: MPO Policy Committee

From: CMAP Staff

Date: March 6, 2014

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. Of the changes requested, six (6) projects require air quality conformity analysis. Below is a summary of the types of requested changes.



If the TIP amendments are approved, two new non-exempt projects will be included in the TIP. These projects are included in the conformity analysis because funding for phases beyond preliminary engineering has been identified in the TIP. Both projects are moving closer to construction. Preliminary engineering is exempt from conformity analysis. The two new projects are:

- TIP ID **18-14-0004**: a new Auburn Park Metra Station along the Rock Island District Line between the 35th St/Bronzeville and Gresham stations at 79th and S. Wallace Streets.

- TIP ID **06-03-0005**: Adding lanes on 143rd Street from Will Cook Road to IL 7 Wolf Road.

Scope changes have been requested for two existing projects. The scope of a project is determined by the **work type** included in the project.

- 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.
- 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 new commuter parking lots and road lane widening to standard (e.g., 10 feet to 12 feet).
- Exempt work types do not require an air quality conformity analysis. Examples of exempt work types are road resurfacing and bus rehabilitation.

The two projects for which scope changes have been requested are:

- TIP ID **12-02-9024**: Illiana Expressway from I-55 to I-65. The sponsor has requested addition of two new non-exempt work types to include the expansion of interchanges and new auxiliary lanes that correlate with the requested location change (discussed below).
- TIP ID **06-00-0042**: 143rd Street from Wolf Road to US 45 LaGrange Road. The sponsor has requested a new work type for adding lanes.

A sponsor requested location changes for an existing non-exempt TIP project. This change requires a conformity amendment. The project is:

- TIP ID **12-02-9024**: Illiana Expressway from I-55 to I-65. The sponsor requested the limits include improvements on I-55 between Lorenzo Road & IL 129.

One non-exempt project moved out of the current years of the TIP and is not anticipated to be completed within the next four years:

- TIP ID **10-00-0130**: Aptakisic Road from IL 83 to Buffalo Grove Road.

Completion year indicates when a project is anticipated to be in service to users. The conformity analysis is conducted for selected years between now and 2040. The analysis years are currently 2015, 2025, 2030 and 2040. If a change in completion year crosses an analysis year, the project must be included in a new conformity analysis. Sponsors indicated that several projects have updated completion years, but only one of those crossed an analysis year.

The sponsor's requested completion year change moves the following project from the 2015 analysis year to the 2025 analysis year:

- TIP ID **01-94-0006**: Red Line Extension from US 12 20 95th Street to 130th Street.

GO TO 2040 Major Capital Projects

Two GO TO 2040 Major Capital Projects are included in this report due to the implementation time frame, and changes of project scope & location. Those projects are:

- TIP ID **01-94-0006**: Red Line Extension from US 12 20 95th Street to 130th Street, the sponsor has requested moving the completion year from 2015 to 2020.
- TIP ID **12-02-9024**: Illiana Corridor Project from I-55 to I-65. The sponsor has requested including funding and work for the I-55 from Lorenzo Road to IL 129 project to the Illiana corridor.

Each TIP ID includes a hyperlink to the TIP database for further project information. Changes are included in the attached report.

TIP projects are also viewable in a map format. The TIP map is available at **http://www.cmap.illinois.gov/programs-and-resources/tip/tip-data/tip-map**.

The 2015, 2025, 2030 and 2040 highway and transit 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 vehicle class, speed, time of day and facility type were entered into US Environmental Protection Agency's MOVES model. The model generated on-road emission estimates for each precursor or direct pollutant in each analysis year.

For ozone precursors, the resulting emissions inventories estimates fell below the applicable budgets for the maintenance State Implementation Plan (SIP).

Both the annual direct $PM_{2.5}$ and NOx emissions inventories are below the applicable budgets from the attainment SIP.

Direct $PM_{2.5}$ and NOx Emissions in Tons per Year for $PM_{2.5}$ Conformity

	Fine Particulate Matter		Nitrogen Oxides	
Year	Northeastern Illinois	SIP Budget	Northeastern Illinois	SIP Budget
2015	2,448.22	5,100.00	52,121.98	127,951.00
2025	1,643.84	2,377.00	29,535.27	44,224.00
2030	1,585.78	2,377.00	27,940.64	44,224.00
2040	1,682.44	2,377.00	29,288.02	44,224.00

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

VOC and NOx Emissions in Tons per Summer Day for Ozone Conformity

	Volatile Organic Compounds		Nitrogen Oxides	
Year	Northeastern Illinois	SIP Budget	Northeastern Illinois	SIP Budget
2015	59.22	117.23	137.22	373.52
2025	44.39	48.13	75.33	125.27
2030	43.85	48.13	70.89	125.27
2040	47.02	48.13	74.10	125.27

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

Results updated 12/27/2013

ACTION REQUESTED: Approval

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