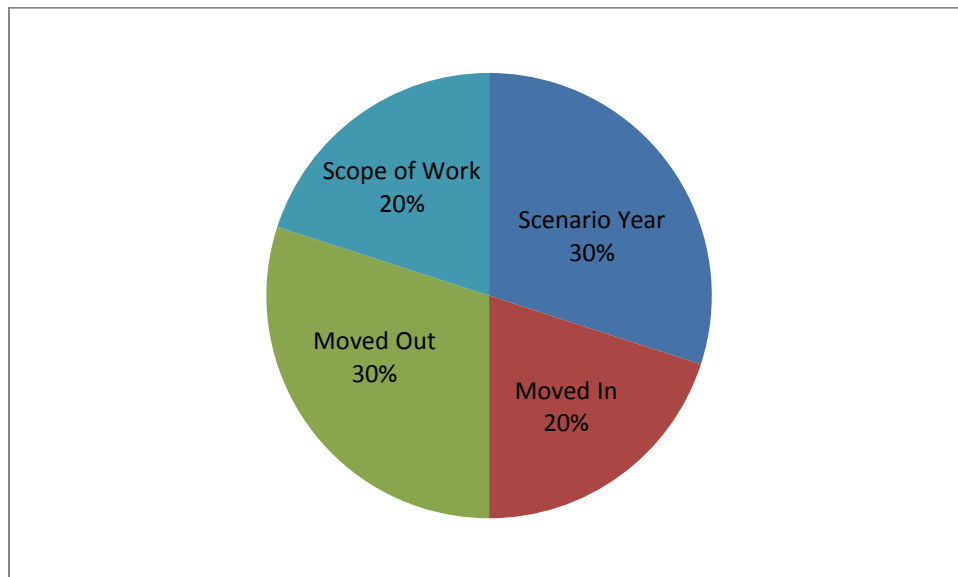




MEMORANDUM

To: MPO Policy Committee
From: CMAP Staff
Date: March 7, 2013
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, ten (10) projects require air quality conformity analysis. Following is a summary of the requested changes.



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

Two existing projects are requesting a change in scope. One of these is proposed to be added to GO TO 2040 as a Major Capital Project. The proposed major capital project requesting to expand capacity and improve traffic flow between I- 90, I- 94 onto the I-290 from both directions by adding a new non-exempt work type, add lanes, is:

- TIP ID [01-12-0019](#) I- 90 I- 94 @ Congress Parkway (Circle Interchange)

The other significant project requesting a scope change of a new facility for Elston Avenue which will divert traffic away from the Damen and Fullerton Avenue intersection is:

- TIP ID [01-06-0008](#) Damen @ Fullerton & Elston.

Two projects move into the current years of the TIP:

- TIP ID [09-06-0021](#) Ridge Road from Plainfield/Stewart to I- 80 in Kendall County, begin the initial construction stage of facility expansion between Wheeler and IL126,
- TIP ID [11-03-0012](#) Kreutzer Road from Main Street to IL 47 in McHenry County.

Three projects move out of the current years of the TIP:

- TIP ID [06-00-0042](#) 143rd Street from Wolf Road to US 45, LaGrange Road,
- TIP ID [06-03-0005](#) 143rd Street from Will-Cook Road to IL 7 Wolf Road,
- TIP ID [07-06-0014](#) Industrial Park Road (Logisticcenter Dr) from Cottage Grove Avenue to Mark Collins Drive,

Completion years indicate when a project is anticipated to be in service to users and determines in which analysis year(s) the project will be included. The current conformity analysis includes four analysis years – 2015, 2025, 2030 & 2040. When a project’s completion year moves across analysis years, a new conformity analysis for the project is required. Several projects changed completion years, and two crossed analysis years.

Three projects moved from the 2015 analysis year to the 2025 analysis year:

- TIP ID [07-99-0114](#) 191st Street from IL 43 Harlem Avenue to Ridgeland Avenue
- TIP ID [08-06-0028](#) North Aurora Road from the EJ&E to Weston Ridge Road in Naperville.
- TIP ID [12-00-0040](#) I-57 @ Stuenkel Road in Will County.

Due to changes to the analysis years, not all completion year changes that have occurred since July 2012 are reflected in the report, however they are accurately represented in the model.

Each TIP ID includes a hyperlink to the TIP database for further project information, and the changes are also included in the report attached.

TIP projects are also viewable in a map format. The TIP map is available at <http://www.cmap.illinois.gov/tip/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 and facility type were entered into USEPA’s MOVES model. The model generated on-road emission estimates 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 maintenance SIP budgets.

Since there are no SIP budgets for annual direct PM_{2.5} and NO_x emissions, these estimates were compared to emissions estimates for 2002, the baseline year. Both the annual direct PM_{2.5} and NO_x emissions are below the baseline.

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

Year	Fine Particulate Matter	Nitrogen Oxide
2002	3,070.78	167,630.81
2015	2,475.72	52,940.86
2025	1,666.20	30,172.81
2030	1,603.34	28,588.54
2040	1,690.46	29,894.27

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

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

Year	Volatile Organic Compounds		Nitrogen Oxides	
	Northeastern Illinois	SIP Budget	Northeastern Illinois	SIP Budget
2015	59.57	117.23	139.46	373.52
2025	43.76	48.13	76.98	125.27
2030	42.66	48.13	72.51	125.27
2040	45.43	48.13	75.91	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

ACTION REQUESTED: Approval

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