



MEMORANDUM

To: CMAP Transportation Committee

From: CMAP Staff

Date: February 15, 2019

Re: ON TO 2050/2019-2024 TIP Conformity Analysis and TIP Amendment 19-04.1

In accordance with the definition of Regionally Significant Projects (RSPs) in ON TO 2050, the Chicago Department of Transportation (CDOT) has submitted a new non-exempt project and changes to a second non-exempt project that are anticipated to be carried forward into the FFY 2019-24 TIP and the ON TO 2050 RSPs for inclusion in the regional air quality analysis. CMAP has prepared a conformity analysis for public comment and consideration by the CMAP Board and MPO Policy Committee in March 2019.

The U.S. Department of Transportation requires regional planning agencies to demonstrate fiscal constraint by determining that sufficient resources will be available to construct projects recommended in the plan. Careful selection of these projects must meet the federal standard of fiscal constraint, while also helping to achieve regional goals. These types of projects are included in the conformity analysis because funding for phases beyond preliminary engineering has been identified in the TIP or within the planning horizon of ON TO 2050.

The new RSPs are:

- TIP ID [01-19-0009](#): O'Hare Express Service – RSP A1
- TIP ID [01-17-0025](#): Roadway Improvements to Support the Update to the South Lakefront Framework Plan - RSP A2

Newly submitted change details for these two projects are found in the [19-04.1 Conformity Amendment](#) report.

The conformity analysis is conducted for selected analysis years between now and 2050. The analysis years are currently 2020, 2025, 2030, 2040, and 2050. 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 the U.S. Environmental Protection Agency's MOVES 2014a model. A more detailed description regarding the modeling process

used for conformity analysis can be seen in the semi-annual ON TO 2050/TIP Conformity Analysis & TIP Amendment 19-04 [memo](#). It should be noted that the conformity amendments included in TIP Amendment 19-04 were also included in this analysis.

The model generated on-road emission estimates for each precursor or direct pollutant in each analysis year. For ozone precursors volatile organic compounds (VOC) and nitrogen oxides (NOx), the resulting emissions inventories estimates fell below the applicable budgets for the ozone maintenance State Implementation Plan (SIP), as shown in the table below.

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

Year	Fine Particulate Matter		Nitrogen Oxides	
	Northeastern Illinois	SIP Budget	Northeastern Illinois	SIP Budget
2020	2,027.31	5,100.00	56,252.71	127,951.00
2025	1,269.49	2,377.00	32,621.86	44,224.00
2030	946.67	2,377.00	24,107.98	44,224.00
2040	846.71	2,377.00	20,956.42	44,224.00
2050	885.39	2,377.00	21,927.24	44,224.00

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

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
2020	71.74	117.23	148.31	373.52
2025	53.35	60.13	86.08	150.27
2030	43.53	60.13	61.75	150.27
2040	34.02	60.13	52.25	150.27
2050	34.18	60.13	54.46	150.27

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 as of December 22, 2018

Staff requests that the Transportation Committee recommend approval of the ON TO 2050/TIP conformity analysis and TIP amendment [19-04.1](#) for the proposed Regionally Significant Project amendments to the MPO Policy Committee.

ACTION REQUESTED: Approval

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