

2023 TRANSPORTATION AIR QUALITY CONFORMITY ANALYSIS FOR THE 2045 RTP UPDATE

Addendum to Appendix 1

After receiving authorization for the initial adoption of the Draft Transportation Air Quality Conformity Analysis by the Transportation Policy Council on April 28, 2023, the conformity determination was submitted to the Federal Highway Administration (FHWA) and the H-GAC conformity consultation partners on May 1, 2023 for their review.

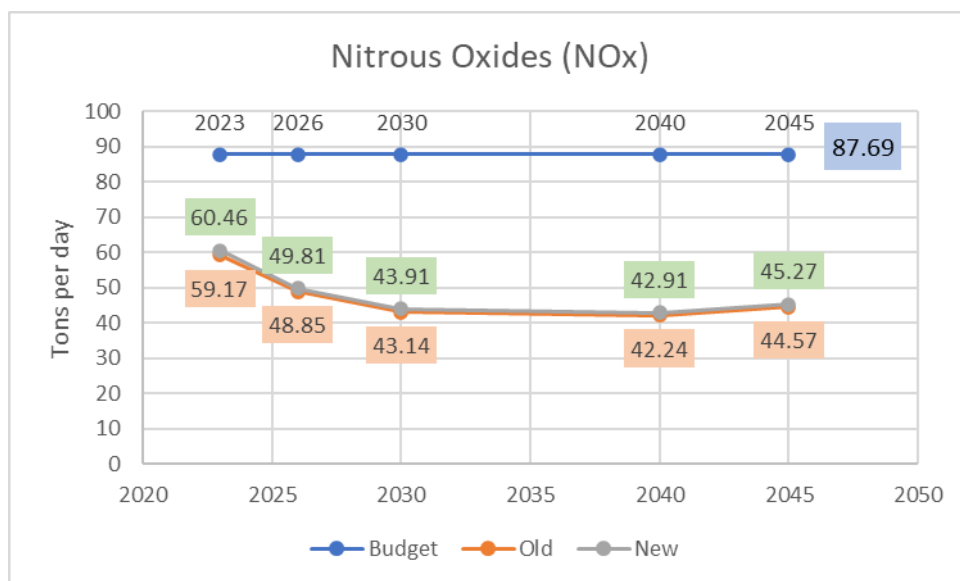
During the review process, partners recommended revisions to the to the model inputs that were used to demonstrate compliance to the required regional mobile source vehicle emission budgets using the EPA MOVES model. These revisions resulted in small changes to the total modeled inventories for each pollutant included in this conformity analysis. Even with this revision, the emission totals remain far below the emission budgets set for the region for every year that was modeled as part of this analysis.

Revised Air Quality Analysis Results

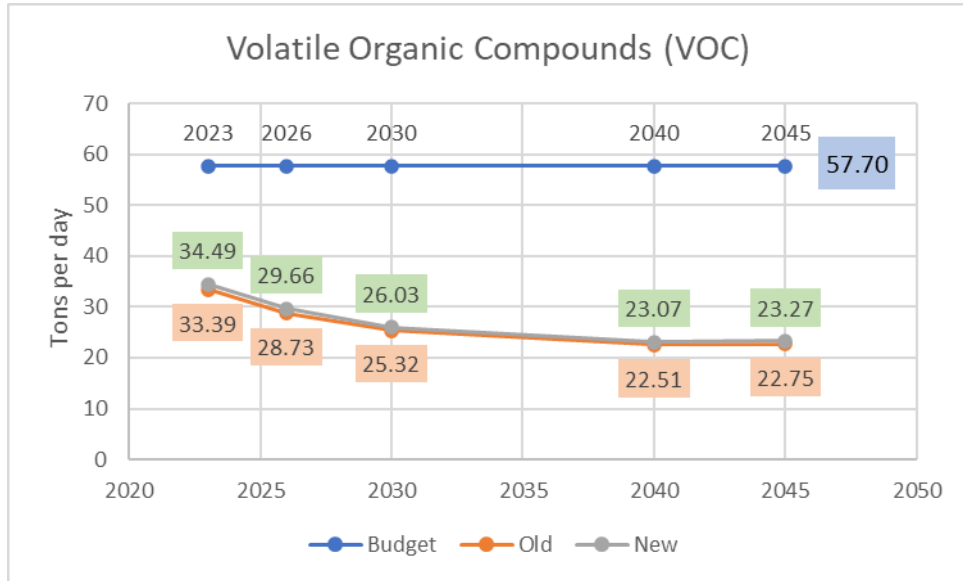
Year	NOx (tons/day)				VOC (tons/day)			
	Budget	Old	New	% Difference	Budget	Old	New	% Difference
2023	<b>87.69</b>	59.17	60.46	2.2%	<b>57.70</b>	33.39	34.49	3.3%
2026	<b>87.69</b>	48.85	49.81	2.0%	<b>57.70</b>	28.73	29.66	3.2%
2030	<b>87.69</b>	43.14	43.91	1.8%	<b>57.70</b>	25.32	26.03	2.8%
2040	<b>87.69</b>	42.24	42.91	1.6%	<b>57.70</b>	22.51	23.07	2.5%
2045	<b>87.69</b>	44.57	45.27	1.6%	<b>57.70</b>	22.75	23.27	2.3%

NOx= nitrogen oxides, VOC= volatile organic compounds

For a graphical representation of this same data, please see Charts 1 and 2 below.



**Chart 1:** NOx emissions for all analysis years for both original and revised model runs, including total MVEB.



**Chart 2:** VOC emissions for all analysis years for both original and revised model runs, including total MVEB.

The results of this conformity determination demonstrate that the 2045 RTP Update and the 2023-2026 TIP meet the requirements of the air quality SIPs for the Houston-Galveston-Brazoria ozone nonattainment area and are in accordance with the Clean Air Act, as amended on November 15, 1990, and the final conformity rule (40 CFR Parts 51 and 93).

The full 2045 RTP Update Conformity documentation is available at the following link:  
<https://www.h-gac.com/transportation-conformity/2023>