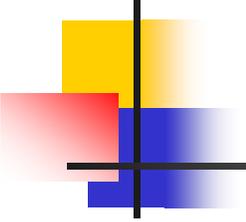


H-GAC Update

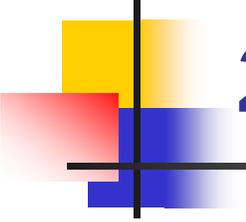
Graciela Lubertino, PhD
Houston-Galveston Area Council
July 26, 2016





Conformity to amendments to 2040 RTP and 2015-2018 TIP

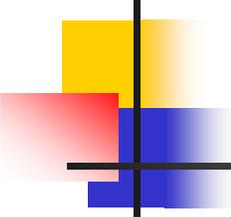
- All new or changes done to regional significant projects will trigger conformity
- Must show that the air quality emissions conform to the emission budgets coming from the SIP
- Changes done to the transportation plan are due to either changes in funding commitments or schedule changes.



Conformity to amendments to 2040 RTP and 2015-2018 TIP

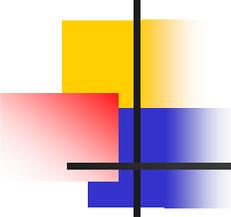
- Major projects:
 - IH 45 S Reconstruct and Widen from S of NASA 1 Bypass to 61st St
 - SH 36/SP 10 Widening from IH 69/US 59 to N of Brazos River
 - IH 10 W, Widening from FM 359 to Brazos River
 - BW 8 Widen from IH 10 to SH 225 (Ship Channel Bridge)
 - SH 99 Seg. B Direct Connector at SH 35

- A complete listing of projects subject to conformity is contained within Appendix 3.



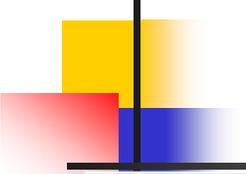
Air Quality Calculations

- Used MVEBs from latest revisions to the AD and RFP SIPs for 1997 8 hour Ozone standard
- Found adequate by EPA effective August 19, 2013
- The MVEBs were calculated using MOVES2010a
- Latest conformity used MOVES2014a



Air Quality Calculations

- Major updates from MOVES program:
 - Tier 3 emission standards
 - Tier 3 fuel standards
 - GHG regulations for HDV
 - second phase GHG regulations for LDV

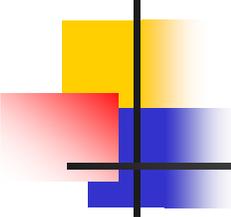


Air Quality Results

Year	NOx Emissions (t/d)	NOx Budgets (t/d)	VOC Emissions (t/d)	VOC Budgets (t/d)	VMT
2015*	130.31	171.63	59.41	71.56	163,143,770
2017	92.29	130.00	47.19	59.76	169,737,122
2018**	86.68	103.34	45.91	50.13	173,394,870
2025	47.41	103.34	36.96	50.13	198,999,103
2035	31.40	103.34	38.49	20.27	237,585,074
2040	37.39	103.34	18.99	50.13	257,842,939

*2015 used the emission budget from the year 2014 RFP SIP for the 1997 8-hr ozone standard

** *The emissions for year 2018 have been linearly interpolated using the data for the years 2017 and 2025 regional air quality analysis. The year 2018 was interpolated per United State Environmental Protection Agency (US EPA) 40 CFR 93.118(d)(2).*

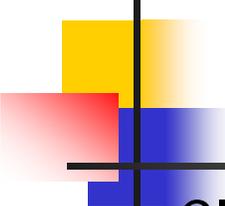


Conformity Approval

- The conformity to the amendments to the 2040 RTP and 2015-2018 TIP was approved by TCEQ, TxDOT, EPA and FHWA on July 8, 2016

- Documentation:

http://www.h-gac.com/taq/airquality_model/conformity/2016.aspx



Other updates

- Clean Vehicle program

- \$800K EPA grant from 2014: Contracted with Cherry Companies to replace construction equipment. Contracted with J.A.M. to replace marine engines – Fully implemented
- \$894K EPA grant from 2015: Entered into contract with the Port of Houston to award a company to replace 14 Class 8 trucks that work at the Port – on going, contracted with JETCO to replace 6 trucks.

- Commute Solutions Fair:

August 4th, 2016 10:30 am

Houston City Hall