



Appendix A

Air Quality Conformity Determination

The Dayton/Springfield air quality Region (D/S Region) is comprised of the Counties of Clark, Greene, Miami, and Montgomery in southwest Ohio. All counties were re-designated to attainment/maintenance for the 8-hour ozone standard in August 2007; three counties (Clark, Greene, and Montgomery) are designated non-attainment for the annual PM_{2.5} standard. The Clark County-Springfield Transportation Coordinating Committee and the Miami Valley Regional Planning Commission have agreed that the MVRPC shall serve as the lead agency in the Dayton-Springfield Air Quality Control Region (AQCR) for purposes of air quality planning in cooperation with the Ohio Environmental Protection Agency, the Regional Air Pollution Control Agency, and the Ohio Department of Transportation. Conformity is completed in consultation with the CCSTCC, the OKI, the Ohio Department of Transportation (ODOT), the Ohio Environmental Protection Agency (OEPA) the United States Environmental Protection Agency (US EPA), and the Federal Highway and Transit Administrations (FHWA and FTA) .

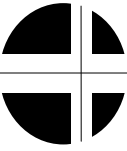
The Clean Air Act and subsequent amendments require a Plan and TIP conformity determination for areas such as the Dayton/Springfield Region (Clark, Greene, Miami and Montgomery Counties). Because the Dayton/Springfield Region is represented by two different MPO close coordination is required between MVRPC and CCSTCC during this process. Board resolutions by each MPO will acknowledge the respective MPO's transportation plans and conformity processes assuring that the MPO's conformity determinations accurately reflect emissions of future transportation projects.

- Region wide ridesharing programs
- Biking and Pedestrians Alternative modes of traveling
- Improved and Expand Park & Ride Lots
- Air Alert Advisory Days
- Transit Improvements
- Traffic Flow Improvements

The MOBILE inputs, conformity test and analysis years were established through a series of interagency consultation e-mails in December 2010, final interagency consultation can be found later in this appendix.

PM_{2.5} Standard

In December 2004, the US EPA issued air quality designations regarding the fine particulate (or PM 2.5) standard. The Clark, Greene, Montgomery, and Warren Counties were designated non-attainment for the annual PM 2.5 standard. The annual standard is exceeded if the 3-year average of annual mean PM_{2.5} concentrations is greater than 15



micrograms per cubic meter. The D/S and Cincinnati Regions are in the process of being re-designated to attainment/maintenance for PM 2.5

8-Hour Ozone Standard

In April 2004, US EPA issued final designations regarding the 8-hour ozone standard. The 8-hour standard is violated when the 3-year average of the annual fourth highest daily maximum 8-hour ozone average concentration exceeds 0.08 ppm. All four counties (Clark, Greene, Miami, and Montgomery) in the Dayton/Springfield Region were designated as basic non-attainment for ozone. The D/S Region was designated to attainment/maintenance for ozone in August 2007. The D/S Region was re-designated to attainment maintenance for the 8-hour ozone standard and new mobile budgets for the area approved (72FR45169), the new budgets (2005 and 2018) will be used to demonstrate conformity to the 8-hour ozone standard using the budget test.

Following interagency consultation analysis years were established as follows:

- 2015 - analysis year within 5 years of the conformity determination year
- 2018 - 8-Hour Re-designation Plan budget year
- 2020 - Interim year
- 2030 - Interim year
- 2040 - Plan(s) horizon year

The TCC and MVRPC conducts transportation conformity consistent with the latest transportation conformity regulations (April 2012) and in close coordination with State and Federal partners through the interagency consultation process.



A summary of the regional emission analyses is presented in Tables 1 to 2b as described below:

The results indicate that the 2040 Plans and TIPs demonstrate conformity to the PM2.5 and 8-hour ozone standard consistent with the April 2012 US EPA Transportation Conformity Regulations.

Table 1 – Dayton/Springfield Region 8-hour ozone Regional Emissions Analysis

Year	County	HC (tons/day)	NOX (tons/day)
2015	GRE/MIA/MOT	12.132	19.946
2015	CLA	2.433	4.430
	Total 4-County	14.565	24.376
	2005 Budget	29.19	63.88
	Difference	14.625	39.504
2018	GRE/MIA/MOT	10.131	15.231
2018	CLA	2.163	3.443
	Total 4-County	12.294	18.674
	2018 Budget	14.73	21.42
	Difference	2.436	2.746
2020	GRE/MIA/MOT	9.503	13.482
2020	CLA	2.049	3.072
	Total 4-County	11.552	16.554
	2018 Budget	14.73	21.42
	Difference	3.178	4.866
2030	GRE/MIA/MOT	9.132	10.269
2030	CLA	2.045	2.407
	Total 4-County	11.177	12.676
	2018 Budget	14.73	21.42
	Difference	3.553	8.744
2040	GRE/MIA/MOT	9.797	10.648
2040	CLA	2.229	2.536
	Total 4-County	12.026	13.184
	2018 Budget	14.73	21.42
	Difference	2.704	8.236

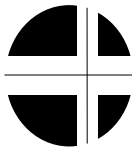


Table 2a – Dayton/Springfield Region PM2.5 Regional Emissions Analysis

Direct PM [tons]

A	B	C	D=(182)x(C)	E	F=(183)x(E)	G=D+F
Year	County	Emissions (Avg Daily Winter)	Emissions (Winter - 182 days)	Emissions (Avg Daily Summer)	Emissions (Summer - 183 days)	Emissions (Annual)
2002-Base	GRE/MOT	0.858	156.156	0.935	171.105	327.3
2002-Base	CLA	0.207	37.674	0.235	43.005	80.7
Baseline						407.9
2015	GRE/MOT	0.329	59.878	0.364	66.612	126.5
2015	CLA	0.080	14.560	0.093	17.019	31.6
Total 3-county						158.1
Baseline						407.9
Difference						249.9
2020	GRE/MOT	0.282	51.324	0.291	53.253	104.6
2020	CLA	0.071	12.922	0.071	12.993	25.9
Total 3-county						130.5
Baseline						407.9
Difference						277.4
2030	GRE/MOT	0.281	51.142	0.289	52.887	104.0
2030	CLA	0.074	13.468	0.079	14.457	27.9
Total 3-county						132.0
Baseline						407.9
Difference						276.0
2040	GRE/MOT	0.279	50.778	0.310	56.730	107.5
2040	CLA	0.075	13.650	0.087	15.921	29.6
Total 3-county						137.1
Baseline						407.9
Difference						270.9



Table 2b – Dayton/Springfield Region PM2.5 Regional Emissions Analysis

NOX [tons]

A	B	C	D=(182)x(C)	E	F=(183)x(E)	G=D+F
Year	County	Emissions (Avg Daily Winter)	Emissions (Winter - 182 days)	Emissions (Avg Daily Summer)	Emissions (Summer - 183 days)	Emissions (Annual)
2002-Base	GRE/MOT	50.599	9209.018	52.304	9571.632	18780.7
2002-Base	CLA	13.050	2375.100	14.172	2593.476	4968.6
Baseline						23749.2
2015	GRE/MOT	16.041	2919.462	16.309	2984.547	5904.0
2015	CLA	4.140	753.480	4.407	806.481	1560.0
Total 3-county						7464.0
Baseline						23749.2
Difference						16285.3
2020	GRE/MOT	10.694	1946.308	11.042	2020.686	3967.0
2020	CLA	2.830	515.060	2.043	373.869	888.9
Total 3-county						4855.9
Baseline						23749.2
Difference						18893.3
2030	GRE/MOT	7.994	1454.908	8.367	1531.161	2986.1
2030	CLA	2.190	398.580	2.394	438.102	836.7
Total 3-county						3822.8
Baseline						23749.2
Difference						19926.5
2040	GRE/MOT	8.233	1498.406	8.624	1578.192	3076.6
2040	CLA	2.306	419.692	2.524	461.892	881.6
Total 3-county						3958.2
Baseline						23749.2
Difference						19791.0

Arnold, Paul

From: Arnold, Paul
Sent: Tuesday, March 12, 2013 2:01 PM
To: Arnold, Paul
Subject: FW: MPO TIP Interagency email stream

From: Walton, Sara [<mailto:Sara.Walton@dot.state.oh.us>]
Sent: Friday, March 01, 2013 12:11 PM
To: segedja@ci.akron.oh.us; Jeff Dutton; rkoehler@oki.org; jgiblin@mpo.noaca.org; rlawler@morpc.org; ssalameh@ntelos.net; Thomas M Mazur; jadams@rcrpc.org; smapel@lcounty.com; randy.durst@movrc.org; SteveP@eriecounty.oh.gov; sschmid@clarkcountyohio.gov; mikepap@bhjmpc.org; henry@tmacog.org; 'Bob Muransky'; krodi@eastgatecog.org; Ramirez, Ana; ngill@morpc.org; cbaker@akronohio.gov; VBotosan@akronohio.gov
Cc: Moore, Dave; Brunello, Nino; Turner, Natasha
Subject: MPO TIP Interagency email stream

All,

Please include the email stream below in your TIP to demonstrate interagency consultation for the air quality conformity strategy.

Best,
Sara

Leigh.Oesterling@dot.gov

Actions
To: Walton, Sara; Maietta.Anthony@epamail.epa.gov
Cc: Moore, Dave; Andy.Johns@dot.gov; Burkett, Frank; Price, Neosha
Air Conformity
Thursday, February 28, 2013 1:08 PM

You forwarded this message on 2/28/2013 1:10 PM.

Sara,

I presume that MORPC and/or LCATS will be adopting a T-Plan amendment concurrent with the new TIP. Is this accurate? Also, please confirm that the MORPC/LCATS analysis will use Mobile (and not MOVES) for generating emissions.

Other than those clarifying questions, FHWA concurs with the strategy.

Leigh

Leigh A. Oesterling, Planning & Environmental Team Leader
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(614) 280-6837
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Maietta, Anthony [maietta.anthony@epa.gov]

Actions

To: Walton, Sara; Oesterling, Leigh

Cc: Moore, Dave

Thursday, February 28, 2013 1:59 PM

You replied on 2/28/2013 2:42 PM.

Thanks!

So that means the MOBILE runs have already been done well before the March 2 deadline.

In that case, I agree with the FY14-17 TIPs strategy for Ohio.

-Tony

Anthony Maietta

Environmental Protection Specialist

EPA Region 5

(312) 353-8777

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Walton, Sara

Actions

To: Oesterling, Leigh (leigh.oesterling@dot.gov); Maietta.Anthony@epamail.epa.gov

Cc: Moore, Dave [Dave.Moore1@dot.state.oh.us]

Attachments: [14-17 TIP conformity strat~1.pdf \(37 KB\)](#) [[Open as Web Page](#)]

Sent Items

Thursday, February 28, 2013 12:41 PM

This message was sent with High importance.

Tony/Leigh,

Please confirm that you agree with the air quality conformity strategy for the MPO FY14-17 TIPs. The attached document highlights the strategy for all Ohio MPOs. This email stream will be included in each MPO TIP to document interagency consultation for the FY14-17 TIP.

Best,
Sara