

GLOSSARY OF TERMS AND ACRONYMS

AQI	Air Quality Index, daily forecast to the public about air quality on a 24-hour basis.
Air Quality Monitor	Device measuring ozone and PM levels at various locations throughout the Washington region.
APU	Auxiliary Power Units, an electrical device that provides a low-emission alternative to constant idling for large diesel engines.
ASIP	Association for Southeastern Integrated Planning.
Attainment	A designation given to an area that does meet the federal health-based air quality standard for a pollutant.
Attainment (1-hour ozone)	The expected numbers of days per calendar year with maximum hourly average concentrations above 0.12 ppm is equal to or less than 1.
Attainment (8-hour ozone)	The 3-year average of the annual fourth-highest daily maximum 8-hour average ozone concentration is less than or equal to 0.08 ppm.
Attainment (Annual PM _{2.5})	The 3-year average of the annual means is less than or equal to 15.0 µg/ m ³ . This comparison shall be based on 3 consecutive, complete years of air quality data.
Attainment (24-hour PM _{2.5})	The 3-year average of the 98th percentile values at each monitoring site is less than or equal to 65 µg/m ³ . This comparison shall be based on 3 consecutive, complete years of air quality data.
AQPAC	Air Quality Public Advisory Committee.
BACT	Best available control technology.
Bump-up/Reclassification	Process by which areas failing to attain the air quality standard by the assigned date are redesignated to a more stringent nonattainment category.
CAAA	Clean Air Act Amendments of 1990.
Classification	Federal designation indicating the severity of a region's air quality problem. A region's classification determines the date on which a region must attain the CAAA requirements.
Clean Air Partners	Non-profit regionally-sponsored organization in the Baltimore-Washington metro area that educates businesses and the public to take actions to reduce ozone, especially on Air Quality Code Red Action Days.
CLRP	Constrained Long Range Plan; lists expected changes to transportation infrastructure over the next 20 years.
Control Measures	Pollution control measure implemented as part of a regional air quality plan.
Contingency Measures	Pollution control measures to be implemented after the fact if the region fails to demonstrate rate of progress toward or attainment of an air quality standard.
CTG	Control Technique Guidance, comes in the form of documents from EPA.
DCDOE	District of Columbia Department of the Environment.
Design Value	The U.S. EPA's official definition: "a design value is the mathematically determined pollutant concentration at a particular site that must be reduced to, or maintained at or below the National Ambient Air Quality Standard to assume attainment." The design value number tells us how a particular site or area compares with the National Ambient Air Quality Standards (NAAQS).
Design Value (1-hour Ozone)	The 1-hour ozone design value is the fourth highest 1-hour maximum ozone concentration at a monitoring site <u>during</u> a continuous three year period. Values of 125 ppb and above are exceeding the 1-hour ozone health standard.
Design Value (8-hour Ozone)	The 8-hour ozone design value is the fourth highest 8-hour maximum ozone concentration at a monitoring site <u>averaged over</u> a continuous three year period. Values of 85 ppb and above are exceeding the 8-hour ozone health standard.
EPA	U.S. Environmental Protection Agency.
Emission Inventory	A document that details the amounts of projected emissions from area sources

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	over time. Includes four types of emission sources: stationary point sources, area sources, nonroad sources, and on-road mobile sources.
Exceedance	Condition created when an air quality monitor registers ozone or PM levels exceeding the federal health standard.
FHWA	Federal Highway Administration.
General Conformity	Federally-required process during which Federal projects are evaluated to ensure that they are consistent with the region's air quality plans.
IAD	Dulles International Airport, site of a weather monitor.
IAQC	Interstate Air Quality Council; a council, consisting of the chief environmental appointees of the Chief Executives and the chief transportation appointees of the Chief Executives.
I/M	Inspection and Maintenance programs that require vehicle owners to have their vehicles' emission systems regularly tested and repaired, if necessary.
Lead Monitor	The monitor in the region with the highest Design Value.
LDT	Light-duty trucks.
LTOs	Landing and Take-Off cycles for aircraft.
MACTEC	An engineering and consulting firm under contract to OTC.
MDE	Maryland Department of the Environment.
Mid-Course Review	The Mid-Course Review is intended to show the progress being made to improve air quality in a nonattainment area and the efforts underway to assure that all necessary steps are taken to reach the federal health standard for the relevant standard by the attainment date.
MDPC	Metropolitan Development Policy Committee; a COG committee of planning directors.
MSA/CMSA	Metropolitan Statistical Area/Consolidated Metropolitan Statistical Area; serve as the presumptive boundary for nonattainment areas.
MOBILE6	EPA model used to estimate levels of mobile emissions.
Mobile Budget	Cap on mobile emissions set in the SIP and used in transportation conformity.
MWAQC	Metropolitan Washington Air Quality Committee.
MWAQC TAC	Technical Advisory Committee, advises MWAQC on technical issues.
MARAMA	Mid-Atlantic Regional Air Management Association; an RPO.
MWAA	Metropolitan Washington Airports Authority.
NAA	Nonattainment Area.
NAAQS	National Ambient Air Quality Standard. Ambient standards for six pollutants including ozone, carbon monoxide, nitrogen dioxide, lead, particulate matter, and oxides of sulfur specifically regulated under the U.S. Clean Air Act of 1990. Areas designated as nonattainment must adopt State Implementation Plans to reduce emissions in order to comply with the standard by the attainment date.
NARSTO	North American Strategy for Tropospheric Ozone. A consortium for atmospheric research in North America, including U.S., Mexico and Canada.
NEI	National Emissions Inventory. The National Emissions Inventory is the most comprehensive estimate of criteria pollutant emissions in the United States. The inventory represents a major effort by the individual states to quantify their local and regional contributions to air quality. Data from the NEI are used for air dispersion modeling, regional strategy development, regulation setting, and tracking trends in emissions over time.
NESCAUM	Northeast States for Coordinated Air Use Management.
Nonattainment	A designation given to an area that does not meet the federal health-based air quality standard for a pollutant.
NO _x	Nitrogen oxide, a precursor to ozone formation.

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Organic Carbon (OCM)	Carbon emission, a precursor to PM formation. Organic Carbon Mass.
OTC	Ozone Transport Commission, a commission of air directors from northeastern and mid-Atlantic states affected by transported ozone pollution; an RPO.
Ozone	A pollutant (O ₃) formed from chemical reactions in the atmosphere involving precursors (NO _x and VOC) in the presence of sunlight and heat.
PEI	Periodic Emissions Inventory. The Clean Air Act [under Section 182(a)(3)(A)] requires that state and local agencies develop a periodic emission inventory (PEI) for ozone nonattainment areas classified as marginal and above. The PEI is a tool used to monitor a nonattainment area's progress in attaining the National Ambient Air Quality Standards (NAAQS) for ozone. A PEI for an ozone nonattainment area is required to contain emissions of ozone precursor pollutants (specifically VOC and NO _x) from Point Sources, Area Sources, On-road Mobile Sources, Non-road Mobile Sources, and Biogenic Sources. A PEI is to be compiled every three years until attainment of the National Ambient Air Quality Standards (NAAQS) for ozone is reached.
PJM	Distribution grid for electricity that includes Pennsylvania, New Jersey and Maryland.
PM _{2.5}	Particulate matter, fine particulate. Particles of less than 2.5 microns in diameter are referred to as fine particulate.
RACM	Reasonably available control measure.
RACT	Reasonably available control technology.
REC	Renewable Energy Certificate.
Retrofit	Installation of pollution control devices on existing equipment, such as particulate filters and catalytic converters.
RFP	Reasonable Further Progress.
ROP	Rate of Progress.
RPO	Regional Planning Organization in CAAA, such as OTC, NESCAUM.
RPS	Renewable Energy Portfolio Standard Act of 2004, a District of Columbia law.
RSD	Remote sensing device, used in the field to detect motor vehicles with emissions exceeding allowable limits.
SANDWICH	Sulfate, Adjusted Nitrate, Derived Water, Inferred Carbon Hybrid material balance approach for estimating PM _{2.5} mass composition produced by the PM _{2.5} FRM.
SI	Spark-Ignition engines, such as gasoline marine engines, including outboard, personal watercraft and jet boat.
SIP	State Implementation Plan, the air quality plan.
SMAT	Speciated Modeling Attainment Test
1-hour Standard	Ozone standard setting the maximum average ozone concentration over a one-hour period.
8-hour Standard	Ozone standard setting the maximum average ozone concentration over an eight-hour period.
24-hour Standard	PM standard setting the maximum average concentration over a 24-hour period.
Annual Standard	PM standard setting the maximum average concentration over a one-year period.
Sulfates/SO ₂	Sulfur dioxide, a precursor to ozone and PM formation.
TAC	Technical Advisory Committee of the MWAQC.
TCM	Transportation Control Measure.
TDM	Transportation Demand Model; a TPB model used to estimate travel demand in the Washington region.
TERM	Transportation Emission Reduction Measure.

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TPB	National Capital Region Transportation Planning Board, body responsible for development of regional transportation plan.
tpd	tons per day.
tpy	tons per year.
TIP	Transportation Improvement Plan; a short term transportation plan produced by TPB, usually covering a five-year period.
Transportation Conformity	Federally-required process during which the regional transportation planning board ensures that expected transportation emissions are consistent with the region's air quality plans.
VADEQ	Virginia Department of Environmental Quality.
VISTAS	Visibility Improvement State and Tribal Association of the Southeast; an RPO.
VMT	Vehicle Miles Traveled.
VOC	Volatile organic compound, a precursor to ozone formation.
Voluntary Measure	Pollution control measures that are not regulatory in nature.
WOE	Weight of Evidence.