

Meeting Minutes
Air Quality Committee
Meeting of March 17, 2016

A meeting of the Air Quality Committee was held on Thursday, March 17, 2016 in the offices of the Wasatch Front Regional Council, 295 North Jimmy Doolittle Road, Salt Lake City, Utah.

Welcome and Introductions

Mayor JoAnn Seghini, AQC Chair, called the meeting to order at 11:35 a.m. Mayor Seghini welcomed committee members and guests.

AQC Members and Alternates Present:

JoAnn Seghini, Chair	Mayor, Midvale City
Randy Lewis, Vice Chair	Mayor, Bountiful City
Mark Allen	Mayor, Washington Terrace
Dave Alvord	Mayor, South Jordan City
Myron Bateman	Commissioner, Tooele County
Kip Billings	WFRC
Bryce Bird	UDAQ
Karen Cronin	Mayor, Perry City
Andrew Gruber	WFRC
GJ LaBonty	UTA
John Petroff	Commissioner, Davis County
Steve Sands	Utah AQB
Austin Turner	Councilman, Morgan County
Ted Wilson	UCAIR

AQC Representatives and Others Present:

Elden Bingham	UDOT
Michelle Bjorklund	WFRC
Susan Hardy	MAG
Sam Klemm	WFRC
Chamonix Larsen	DAS
Randy Martin	USU
Daniel Mendoza	GCSC, University of Utah
Joe Thomas	DAQ
Kathy VanDame	Breathe Utah

Approval of Meeting Summary

Bryce Bird moved that the meeting minutes for January 21, 2016 be approved. The motion was seconded by Mayor Randy Lewis and the minutes were unanimously approved.

DAQ Update / Legislative Report

Bryce Bird of Utah DAQ led a discussion of legislative efforts addressing air quality concerns. Funding was approved for a DAQ lab building. A request for \$500,000 for air quality research

failed. The legislature did approve partial funding for air quality research specifically for the Uintah Basin, as well as funds for air quality public outreach programs.

The legislature approved HB250 requiring water heater sales after July 2018 be restricted to qualified low NOx models. The water heater regulation is expected to reduce NOx emissions by 2,000 tons per year once the existing inventory of water heaters is replaced.

Incentives for clean fuel and fuel conversions were retained, but limited.

Incentives for Tier3 local fuel production for Utah markets failed. Tier3 fuel (sulfur content less than 10 ppm) is estimated to cost an additional \$0.08 per gallon compared to conventional fuel. Tier3 fuel incentives are expected to be renewed for the next legislative session. Tesoro, one of the smaller refineries in Utah, has already committed to provide Tier3 fuel for Utah markets by 2020.

Vehicle Cold Start Emissions/Tier3 Vehicles

Dr. Randal Martin of Utah State University gave an informative presentation on vehicle cold start emissions. A cold start is defined by EPA as starting a vehicle that has been shut off for at least 12 hours. Research shows that just 4 hours of inactivity produces similar results. The cold start phase is the time required to heat the internal catalyst to 1500 °F which ranges from 1-3 minutes. Newer vehicles are on the shorter end of the cold start phase, and the Tier3 vehicles available in 2017 are expected to be in cold start mode for less than 1 minute.

Cold starts account for 50%-70% of VOC and CO emissions. NOx emissions are not impacted by cold starts, but result mostly from increased load on the engine such as when accelerating.

Research shows that shutting off a vehicle and restarting it will produce less emissions than idling for 5 minutes or more. A good rule of thumb is to shut off your vehicle if you place the transmission in "park". Another good rule to follow is to keep your vehicle in a garage in order to reduce cold start emissions.

Joe Thomas of DAQ addressed the Committee about Tier3 vehicle and fuel standards. The Tier3 standards represent a reduction of 80% compared to Tier2 VOC and NOx emissions, and a 70% reduction in PM emissions. Sulfur content of gasoline is currently about 30 ppm. Tier3 fuel standards will reduce the sulfur content to 10 ppm. Tier3 vehicles will also extend the average useful life of the vehicle from 120,000 miles to 150,000 miles with an incremental purchase price estimated at \$130-\$165.

Tier3 emissions improvements are accomplished by "close coupling" of the catalyst to the manifold; double wall, stainless steel housing; increased surface area of the precious metal catalyst; and direct injection of air and combustible gases.

Public Comment

None

Other Business

None

Next Meeting: May 19, 2016 11:30 a.m. – 12:30 p.m.

The meeting adjourned at 12:50 p.m.