NOTICE OF MEETING AND AGENDA

Air Quality Policy Advisory Board

The Board has scheduled the following meeting:

DATE: Thursday, October 22, 2020
TIME: 4:00-5:00 p.m.
PLACE: No anchor location, electronic meeting.

As authorized by Utah Code, Title 52, Chapter 4, Open and Public Meetings Act, and in accordance with Joint Rule 1-4-402, this meeting will be conducted electronically to limit the spread of the novel coronavirus disease 2019 (COVID-19). The Utah State Capitol is temporarily closed to visitors. Members of the public participate by telephone.

Call in number: 1-786-886-2342, Participant Passcode: 550470703#

AIR QUALITY POLICY ADVISORY BOARD MEMBERS

Sen. Luz Escamilla                                Mr. Todd R. Bingham, Chair
Sen. Todd Weiler                                     Ms. Ashley Miller, Vice-Chair
Rep. Carl R. Albrecht                               Dr. Kerry E. Kelly
Rep. Timothy D. Hawkes                         Mr. Ty McCutcheon
Rep. Angela Romero   Mr. Bryce Bird

AGENDA

1. Welcome
2. Approval of Minutes
3. Status of Ozone Monitoring and Non-attainment
4. Incentive Programs Spending Status
5. Potential Legislation and Appropriations to prioritize for presentations and review:
   • Air Quality Policy Advisory Board Sunset Extension – NRAEQ Interim Committee
   • Compliance Advisory Panel Repeal Update – NRAEQ Interim Committee
   • Concurrent Resolution Encouraging Reduction of Certain Air Emissions by 2050 – Rep. Handy
   • Concurrent Resolution Encouraging Statewide Reduction of CO2 Emissions – Rep. Handy
   • Feasibility Study for Air Quality Laboratory – Rep. Handy
   • Tax Credit for Alternative Fuel Heavy Duty Vehicles – Rep. Stoddard
• Tax Credit for Alternative Fuel Vehicles – Rep. Harrison
• State Fleet Purchase Amendments – Rep. Harrison
• Workforce Solutions for Air Quality Amendments – EDWS Interim Committee
• Emissions Test Amendments – Sen. Mayne

6. Other issues
Volatile Organic Compounds + Nitrogen Oxides

UV light transforms molecules

VOCs, NOx

Ozone

VOCs, NOx

Ozone

VOCs

Volatile Organic Compounds + Nitrogen Oxides
Wasatch Front Ozone Formation
Ozone Design Value

- **Current Standard:** 70 ppb
- **Design Value:** Three-year average of the 4\textsuperscript{th} highest 8-hour average monitored value
Ozone Nonattainment Areas

Design Values 2018-2020*

*2020 data is not quality assured
Ozone Trends

Ozone 4th Highest 8-Hour Concentration

- Bountiful
- Herriman
- Ogden
- Hawthorne
- Erda
- Rose Park
- Harrisville
- Tooele

*2020 data not quality assured
Marginal Nonattainment Requirements

- Nonattainment New Source Review (major source offsetting)
- Baseline Emissions Inventory
- Emission Statement Rule
- Must achieve attainment within three years
What Happens if an Area Does Not Attain the Standard by 2021

Bumped up to Moderate

• RACT for NOx and VOC major sources
• Reasonable Further Progress
  ✓ 15% reduction in VOC emissions
• Implementation Plan / Attainment Demonstration
  ✓ Require modeling to show that reductions from controls will result in attainment
  ✓ Show attainment by August 2024
Current Planning Timeline

- 2020-2021
  - Inventory
  - Modeling
  - Control Strategy Development

- February 2022
  - Bumped up to Moderate

- September 2022
  - Draft SIP for Public Comment

- February 2023
  - SIP Due
  - RACM/RACT Due

- August 2024
  - Attainment Deadline
Section 179B of the Clean Air Act allows states with ozone nonattainment areas to demonstrate that the area would comply with the air quality standard “but for emissions emanating from outside of the United States.”
A successful demonstration would show a greater influence from international emissions on exceedance days than on non-exceedance days.

Demonstrations should show a “proportionally large” effect from international emissions compared to local emissions.

Demonstrations for non-border states would require additional technical rigor and resources.

*This graph is made up for illustrative purposes only. None of the data are real.*
International Transport Options

Prior to 2021 Attainment Deadline

- Marginal requirements still apply
- Avoid bump-up to Moderate

Part of a Moderate SIP Attainment Demonstration

- SIP elements still required
- Not required to model attainment
- If approved, avoid bump-up to Serious
Background for Ozone in Uinta Basin

- Ozone discovered through air monitoring starting about 2009 as an unique wintertime issue – requires cold temperature inversion, snow and sunshine

- EPA designated the Uinta Basin as nonattainment in 2018 with an attainment date of August 3, 2021

- Nonattainment Area includes all contiguous land under 6,250 feet in Uintah and Duchesne Counties with a mix of Utah State and Ute Tribe/EPA jurisdiction
Current Status

• 2017 Air Emission Inventory indicates largest contributor of ozone precursor emissions are from oil and gas sources

• Current ozone values indicate that monitors on State jurisdiction (Roosevelt 72 ppb) and Ute Tribe jurisdiction (Ouray 75 ppb) will not attain by August 2021

• The Clean Air Act does allow request for two attainment date extensions when data does not exceed the standard. There were no exceedances to date in 2020 – would need to not exceed in 2021 and 2022 to attain by August 2023
Current Status Continued

• Working closely with EPA and the Ute Tribe to coordinate regulatory actions in the Basin in planning for probable bump up to a moderate nonattainment classification

• Participating in stakeholder meetings and public forums to communicate important updates and information

• Obtained an EPA Targeted Airshed Grant in 2019 for replacement of old natural gas engines with newer engines, however economics and practicability has meant no applications; currently looking at other possible solutions to help air quality in the Basin
Questions/Discussion

Ozone SIP Coordinators

- Jay Baker – Wasatch Front
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- Sheila Vance – Uinta Basin
  801-536-4001  svance@utah.gov

Ozone and General Air Quality Information

http://www.deq.utah.gov/