



MINUTES

Friday, May 31, 2013

RAQC MEMBERS PRESENT

Elise Jones, *Boulder County*
Doug Linkhart, *Denver Department of Environmental Health*
Bob Murphy, *City of Lakewood*
Paul Natale, *Citizen*
Jennifer Schaufele, *Denver Regional Council of Governments*
Jep Semen, *Corporate Advocates*
Skip Spensley, *Environmental Consultant*
Joyce Thomas, *City of Federal Heights*
Will Toor, *Southwest Energy Efficiency Project*
Tracy Winfree, *City of Boulder*

RAQC MEMEBERS NOT PRESENT

Steve Hogan, *City of Aurora*
Darryl Jones, *Coventry Development*
Melissa Chalona, *CTL\Thompson Inc*
Reeves Brown, *Colorado Department of Local Affairs*
Eric Doering, *Citizen*
Rick Garcia, *Department of Urban Housing and Development (advisory)*
Don Hunt, *Colorado Department of Transportation*
Jackie Millet, *City of Lone Tree*
John Putnam, *Kaplan, Kirsch, & Rockwell, LLP*
Andy Spielman, *Chairman, Hogan Lovells*
David Stewart, *EnCana Oil & Gas (USA)*
Chris Urbina, *Colorado Department of Public Health and Environment*
Phil Washington, *Regional Transportation District*
Elena Wilken, *Colorado Association of Transit Agencies*

RAQC ALTERNATES PRESENT

Andy Hill, *Colorado Department of Local Affairs*
Martha Rudolph, *Colorado Department of Public Health and Environment*
Bill Van Meter, *Regional Transportation District*

RAQC STAFF PRESENT

Ken Lloyd, Meg Alderton, Lauren Beliles, Kate Cooke, Jerry Dilley, Misty Howell, Steve McCannon, Kate Ruygrok and Anne Ritter.

OTHERS PRESENT

Will Allison, APCD; Kevin Briggs, APCD; Stan Dempsey, COGA; Stan Elmquist, North Front Range MPO; Garry Kaufmann, APCD; Chuck Machovec, APCD; Anne Miller, DOLA; Tom Moore, WGA/WRAP; Ralph Morris, Environ International; Dr. Gabriele Pfister, National Center for Atmospheric Research; Gordon Pierce, APCD; Jeff Schwarz, CSMKF; Mike Silverstein, AQCC; Curt Taipale, APCD; Gail Tonnesen, EPA; Laura Webber, DCP Midstream LP; Dale Wells, APCD.

The meeting was called to order at 9:40 a.m. by Councilmember Martha Rudolph. A quorum was present at 9:45 am.

Approval of Agenda

Council agreed to follow the agenda as presented.

Approval of Minutes

Elise Jones moved to approve the minutes. Seconded by Doug Linkhart. Motion passed without objection.

Informational Items

Chair

None.

Executive Director

None.

Members

None.

Public Comment

None.

Legislative Recap

Ken Lloyd provided Council with an update of the legislation the RAQC was following.

House Bill 13-1071 regarding collector vehicles passed the House and Senate and is awaiting the Governor's signature.

House Bill 13-1091 regarding alternative air quality testing for heavy-duty vehicles passed the House and Senate and was signed by the Governor on April 4, 2013.

House Bill 13-1110 regarding charges related to alternative fuels passed the House and Senate and was signed into law by the Governor on May 15, 2013.

Senate Bill 13-048 regarding the use of HUTF moneys allocated to local governments for multimodal transportation infrastructure passed the House and Senate and was signed into law by the Governor on April 26, 2013.

Senate Bill 13-257 regarding auto inspection program exemption passed the Senate but was postponed indefinitely in the House State, Veterans, and Military Affairs Committee.

Ken also provided Council with a summary of oil and gas bills.

House Bill 13-1267 – increase maximum penalty for oil and gas violations – passed both House and Senate but chambers failed to concur on amendments.

House Bill 13-1268 – mineral estate disclosure real property sale – passed House but postponed indefinitely in Senate State, Veterans and Military Affairs Committee.

House Bill 13-1269 – reduce conflict of interest within oil and gas conservation commission – passed House but died on Senate floor.

House Bill 13-1273 – additional funding for local governments to address oil and gas development impacts – passed House but postponed indefinitely in Senate Local Government Committee.

House Bill 13-1275 – Front Range oil & gas human health study – postponed indefinitely in House Health, Insurance and Environment Committee.

House Bill 13-1278 – reporting of oil and gas spills – passed both House and Senate and signed into law by the Governor on May 11, 2013.

Senate Bill 13-202 – additional inspections at oil and gas facilities—passed both House and Senate and awaiting the Governor’s signature.

Senate Bill 13-284 – streamlining environmental permitting of oil and gas development that meets enhanced environmental protection standards – postponed indefinitely in Senate Health, Insurance and Environment Committee.

Martha Rudolph told Council that the legislature also passed a funding mechanism to fund an air quality study similar to the Garfield County study. She indicated that CDPHE will also receive a \$1.5 million appropriation to purchase six infrared cameras (4 for CDPHE and 2 for COGCC).

Council discussed whether these cameras would be used for enforcement. Will Allison, APCD, indicated that the ACPD’s workgroup is exploring options that will make sense to expand the program. He said there is more interest in fixing the leaks than enforcing rules. Ken Lloyd reminded Council that the RAQC has an infrared camera and loans it out for the purpose of finding and fixing leaks.

Preliminary 2018 Ozone Modeling Projections for the Denver/North Front Range Nonattainment Area

Ralph Morris, Environ International, presented the preliminary 2018 ozone modeling projections to Council. Mr. Morris reviewed the 2008 modeling platform development and the 2008 base case emissions scenarios. He explained that the model is meeting performance goals, which means that model outcomes are matching observed values during the same time period.

Mr. Morris shared the 2018 emission scenarios as well as the Colorado 2018 oil and gas emission projections. He explained that the projections were grown to 2018 based on changes from the 2006-2011 data set. Mr. Morris also noted that the oil and gas projections are very

uncertain. As a result, the sensitivity modeling run was conducted keeping the oil and gas emissions constant at 2008 levels in order to bracket the range of results and to determine the impact of oil and gas emissions. Mr. Morris said that keeping the oil and gas (O&G) emissions constant at 2008 levels reduces the 2018 future design values (DVs) by 5-8 ppb from the current year design values (DVCs) due to controls on other sources. The 2018 DVs using the 2018 O&G projections are typically 1-3 ppb higher than when O&G emissions are held constant at 2008 levels.

There was discussion on the 2018 DV Projections O&G Sensitivity Tests slide which showed the project ozone levels under the different assumptions. It was clarified that this table reinforces that meteorology is important to reach attainment. The 2013-15 observed values will probably be used for a SIP, if necessary. Ken Lloyd said that all of the data will be updated if a SIP is required.

Ralph Morris outlined the next steps in the modeling process which includes:

- RAQC modeling forum in the next few months;
- Quality assure and finalize O&G 2018 emission projection assumptions;
- Continue 2018 ozone sensitivity modeling; and
- Ozone source apportionment using linked 36/12/4 km CAMx database.

Public Comment

None.

Western Regional Photochemical Modeling Studies – Ozone, PM and Assessment of Fire Impacts

Tom Moore, Western Regional Air Partnership (WRAP), provided Council with an overview of work of the WRAP. The WRAP is working as a regional technical center. Its current efforts include working on data for future infrastructure and transport SIPs for NAAQS Implementation and Maintenance; developing technical support data and analysis tools; implementing Regional Haze SIPs and identifying technical work needed for 2018 plans; and looking at the needs of sub-regional groups of states. Mr. Moore said the WRAP is also involved in the West-Wide Jumpstart Air Quality Modeling Study. He provided Council with background on the Study.

In response to a question, Mr. Moore said that at a national level EPA has met with western states to look at the transport issue. Ken Lloyd said the Clean Air Act requires states to have a Transport SIP and based on a recent court decision EPA has to inform states how to deal with their downwind states. EPA direction is expected soon.

Mr. Moore informed Council that WRAP has developed a fire impact tool to help determine the effect of wildfires on ozone. He provided additional detail about the fire impact tool and indicated the WRAP is currently writing rules for how to use the tool for comparisons. In response to Ken Lloyd's question regarding whether states will be able to use the tool to look at the fire impact on the 2012 values, Mr. Moore replied affirmatively. Mr. Moore explained that the technical project work will be completed in June 2013. More information can be found at www.wrapfets.org/deasco3.cfm.

Mr. Moore outlined the future Western Regional Modeling framework which included:

- Regional technical support for air quality planning;
- Approach or process to define and implement a regional modeling framework; and
- Emissions and Modeling work would focus on regional scale for states' boundary or external regional conditions, to support state-by-state modeling to demonstrate attainment or reasonable progress.

He concluded that the WRAP will continue its regional analysis and planning support activities and address the need for western regional analysis of fire and dust exceptional events.

Public Comment

None.

Proposed 2014 Front Range Air Pollution and Photochemistry Experiment

Dr. Gabriele Pfister, National Center for Atmospheric Research, provided Council with information on NCAR's proposed Front Range Air Pollution and Photochemistry Experiment (FRAPPE). She said FRAPPE is currently in proposal phase. Dr. Pfister stated that vertical structure and mixing of emissions into the boundary layer and its evolution during the day is critical information and that surface measurements are rarely sufficient to gain the full picture. She provided information on the three complementary field campaigns, FRAPPE, FRONT-PORCH, and NASA DISCOVER-AQ (Deriving Information on Surface Conditions from Column and VERTically Resolved Observations Relevant to Air Quality), that will provide research which will add significant value to policy/decision making. Dr. Pfister indicated this is a rare and outstanding opportunity for one of the most comprehensive suite of observations by combining the three highly complementary campaigns.

Dr. Pfister indicated that the DISCOVER-AQ project will use aircraft to make column observations which can be related to surface concentrations for aerosols and key trace gases. Additionally, differences in diurnal variations of surface and column observations can be characterized and horizontal scales of variability affecting satellites and air quality modeling can be examined.

Dr. Pfister outlined the funding requirements for the FRAPPE study and indicated that it is \$2 million short. She indicated that if the study is not funded, NASA will select another area for the DISCOVER-AQ study. Dr. Pfister said this would be a devastating lost opportunity.

She further stated the FRAPPE study will develop strategies to reduce oxidant formation and improve air quality and quantify

- emissions from trace gases from oil & gas related activities, transportation, power generation, agricultural activities and vegetation;
- the interaction and the overall impact of these emissions on local and regional air quality; and
- import of larger scale emissions and impact on local air quality.

In conclusion, Dr. Pfister stressed this is an unprecedented opportunity to combine three separate experiments with mutual benefit and provide maximum information.

In response to a question, Dr. Pfister indicated that the study would probably not move forward if the additional \$2 million in funding is not found because key measures would be left out. Funding is currently being sought.

Public Comment

None.

Plans for Next Meeting

Ken Lloyd stated that no meetings are scheduled for the summer. The next meeting is scheduled for September 6th, however Misty Howell will survey Council to determine if a quorum can be present on that date. Meetings in October and November will be scheduled if activities warrant meetings.

It was suggested that EPA's new Regional Administrator, Shaun McGrath, be invited to the September meeting.

Adjournment

There being no further business before the Council, the meeting was adjourned at 11:45 am.