



COLORADO
Department of Public
Health & Environment

2008 Ozone Bump-up Rulemaking Stakeholder Meeting

March 17, 2016

Dena Wojtach, Doug Decker and
Leah Martland, Air Pollution Control Division

Meeting Purpose

- Explain relationship between potential rule revisions and the Regional Air Quality Council's (RAQC's) 8-Hour Ozone Control Strategy Evaluation Effort
- Discuss potential rule revisions being considered
- Solicit stakeholder comments on potential rule revisions



COLORADO
Department of Public
Health & Environment

Background

- 1997 Ozone Standard – 85 ppb
- **2008 Ozone Standard – 75 ppb**
 - July 20, 2012 Denver Metro/North Front Range (DM/NFR) designated as “nonattainment” and classified “Marginal”
 - 3 years to comply
 - Minimal requirements
 - Legal challenge of EPA’s interpretation of 3 years
 - DM/NFR failure to attain using 2012-2014 data
 - August 27, 2015 EPA proposed DM/NFR “bump up” to “Moderate” classification
 - 3 more years to comply
 - Increased State Implementation Plan (SIP) requirements
 - Moderate SIP due in 2017
- 2015 Ozone Standard – 70 ppb



COLORADO
Department of Public
Health & Environment

For NAAQS of 75 ppb

Three Year Average 4th Maximum Ozone Values (thru 9/30/15)

<i>East Slope Sites</i>		<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2012-2014</u>	<u>2013-2015</u>
Site Name	AQS #	8-hr. O3 4th Max. Value (ppb)	8-hr. O3 4th Max. Value (ppb)	8-hr. O3 4th Max. Value (ppb)	8-hr. O3 4th Max. Value (ppb)	3-yr. Avg. 4th Max. Value (ppb)	3-yr. Avg. 4th Max. Value (ppb)
Welby	08-001-3001	77	77	67	69	73	71
Aurora East	08-005-0006	74	73	67	68	71	69
S. Boulder Creek	08-013-0011	76	79	70	74	75	74
CAMP	08-031-0002	68	67	61	67	65	65
La Casa	08-013-0026	---	71	66	70	---	69
Chatfield State Park	08-035-0004	86	83	74	81	81	79
USAF Academy	08-041-0013	75	74	64	67	71	68
Manitou Springs	08-041-0016	75	72	62	65	69	66
Welch	08-059-0005	79	80	66	75	75	73
Rocky Flats North	08-059-0006	84	85	77	77	82	79
NREL	08-059-0011	81	84	76	81	80	80
Aspen Park	08-059-0013	77	77	65	70	73	70
Fort Collins - West	08-069-0011	80	82	74	75	78	77
Fort Collins - CSU	08-069-1004	74	74	72	69	73	71
Weld County Tower	08-123-0009	80	73	70	73	74	72
NPS - Rocky Mtn. NP	08-069-0007	79	74	69	69	74	70
NOAA - BAO Tower *	n/a	76	70	67	64	71	67
NOAA - Niwot Ridge *	n/a	75	71	65	73	70	69

* 2015 data thru 7/9 or 7/31

NOTE: An area is considered to be in attainment of the National Ambient Air Quality Standard when the 3-year average of the annual 4th highest daily maximum 8-hour ozone concentration is less than or equal to 75 ppm. Due to truncation, a value of 76 ppm or greater would constitute an exceedance of the standard.



COLORADO
Department of Public
Health & Environment

Rulemaking Effort

- Support the RAQC's Efforts
 - Include Required 8-Hour Ozone SIP Elements
 - Strengthen Colorado's Reasonably Available Control Technology SIP Element
- Address EPA Concerns (previous Regulation 7 SIP revisions)
- Align Major Stationary Source Definition w/ Federal Definition (include thresholds for all nonattainment area classifications)



COLORADO
Department of Public
Health & Environment

Approach to SIP Revisions

- Include additional provisions that:
 - Strengthen Colorado's Ozone SIP
 - Support the emissions inventory
 - Are ready to be incorporated into the SIP
 - Can be implemented in time
(take effect and realize reductions by 2017 ozone season)
 - Avoid potential conflict with revisions to federal regulations



COLORADO
Department of Public
Health & Environment

Timeline and Schedule

- RAQC approval of SIP July 8, 2016
- Request for hearing July 21, 2016
- Hearing October 20, 2016
- Legislative SIP review Jan-May, 2017
- Submit SIP to EPA Mar-Jun, 2017
- Attain 2008 ozone NAAQS by July 20, 2018
(based on 2017 (Jan-Dec) ozone season)



COLORADO
Department of Public
Health & Environment

Areas of Discussion

- Proposed revisions to:
 - Regulation 11 – Motor Vehicle Emissions Inspection Program
 - Air Quality Standards, Designations and Emission Budgets
 - Regulation 3 – Stationary Source Permitting and Air Pollution Emission Notice Requirements
 - Regulation 7 – Control of Ozone via Ozone Precursors and Control of Hydrocarbons via Oil and Gas Emissions (Emissions of Volatile Organic Compounds and Nitrogen Oxides)



COLORADO
Department of Public
Health & Environment

Regulation 11

- Motor Vehicle Emissions Inspection Program
 - Proposed changes to Regulation 11 limited to removing two references to
 - “The North Front Range Inspection Program is State-Only”
 - Larimer and Weld County’s gasoline vehicle emissions inspection program will not change, but will be incorporated into the ozone Bump-up SIP



COLORADO
Department of Public
Health & Environment

Regulation 11

➤ Proposed revisions

- Part A, Section II.43 – Definition of “North Front Range Area”
 - Strike “The North Front Range area is a State-Only program and is not part of any State Implementation Plan with the US EPA”
- Part A, Section V.A. – “Program Commencement”
 - Strike “The Vehicle Emissions Inspection Program in the North Front Range area is a State-Only program and is not part of any State Implementation Plan with the US EPA”



COLORADO
Department of Public
Health & Environment

Air Quality Standards

- Emission Budget
 - Transportation conformity
 - Transportation activities cannot cause or worsen violations of the NAAQS, or delay attainment
 - Transportation planning
 - Denver Regional Council of Governments
 - North Front Range Metropolitan Planning Organization



COLORADO
Department of Public
Health & Environment

Regulation 3

- Major Stationary Source
 - Emits or has the potential to emit 100 tpy or more of any regulated NSR pollutant
 - Serious ozone nonattainment area
 - 50 tpy VOC or NOx
 - Severe ozone nonattainment area
 - 25 tpy VOC or NOx
 - Extreme ozone nonattainment area
 - 10 tpy VOC or NOx
 - Serious carbon monoxide nonattainment area
 - 50 tpy CO, where source contribute significantly
 - Serious PM10 nonattainment area
 - 70 tpy PM10



Regulation 7

- Regulation 7
 - Strengthen Colorado's Ozone SIP
 - Support the emissions inventory
 - Are ready to be incorporated into the SIP
 - Can be implemented in time (take effect and realize reductions by 2017 ozone season)
 - Avoid potential conflict with revisions to federal regulations



COLORADO
Department of Public
Health & Environment

Regulation 7

- Ozone Bump-up effort
 - Auto-igniters
 - Condensate tank AVO
- SIP Fixes
 - Monitoring, recordkeeping, reporting
 - Natural gas processing plants
 - Glycol natural gas dehydrators



Regulation 7

- Ozone Bump-up effort
 - Auto-igniters
 - On combustion devices
 - Weekly inspection
 - Currently state-only
 - Include in SIP
 - Condensate storage tank AVO
 - Currently weekly inspections: combustion device, vapor recovery unit, control device, thief hatch
 - Include AVO tank inspections from Section XVII. in SIP
 - 6 tpy condensate storage tanks
 - Frequency of liquids load-out



Regulation 7

➤ SIP Fixes

➤ Monitoring, recordkeeping, reporting

➤ Natural gas processing plants

- Currently conduct NSPS LDAR
- Reference NSPS recordkeeping and reporting in SIP

➤ Glycol natural gas dehydrators

- Currently 90% control requirement
- Include monitoring and recordkeeping in SIP
 - Weekly inspection of control device
 - Emission calculations
 - 5 year retention period
- Include reporting in SIP
 - Semi-annual report: dehydrators and control equipment

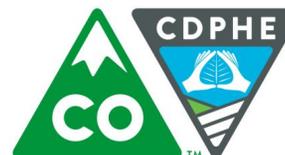
➤ Renumber current XII.G.5. (exemption for natural gas compressor station or natural gas drip station) to XII.I.

➤ Typographical, grammatical, formatting errors



Next Steps

- APCD: Post draft language to website on March 21, 2016
- Stakeholders: Submit comments by April 15, 2016
- All: Track RAQC Efforts
 - June 2016 SIP Approval
- All: Track Colorado Air Quality Control Commission Efforts
 - July 2016 Request for Hearing
 - October 2016 Hearing



Recap

- ▶ Hopefully you now
 - Understand what rule revisions are being considered for inclusion in Colorado's 8-Hour Ozone "Bump-up" SIP
 - Understand the associated timeline for developing these rule revisions
 - Understand specific issues on which the Division is seeking comment



COLORADO
Department of Public
Health & Environment

Public Engagement

For more rulemaking information

- Watch website:
colorado.gov/pacific/cdphe/ozone-information
- Sign up to receive announcements:
www.colorado.gov/pacific/cdphe/air-mailing-lists
- Submit comments or questions to:
cdphe.commentsapcd@state.co.us



COLORADO
Department of Public
Health & Environment