2013 Rulemaking Stakeholder Meeting

January 28, 2013

Colorado Department of Public Health and Environment Air Pollution Control Division





2013 Rulemaking Effort Goals

- Identify and implement strategies that improve the effectiveness and efficiency of Colorado's air quality program
- Address the growth in oil and gas development through the adoption of reasonable emission reduction strategies
- Find ways to **reduce permitting burdens** for both the Division and the regulated community without impacting environmental benefits from the permitting program
- Lay the groundwork for ongoing efforts to **reduce oil and gas emissions** while minimizing burdens that don't provide environmental value

Stakeholder Process Goals

- Role out concepts, draft language, and associated rulemaking documents, in phases, for stakeholder review and input
 - All concepts, language and documents are expected to evolve through the stakeholder process
 - Wrap up Regulation Numbers 3 and 6 by April 2013
 - Wrap up Regulation Number 7 and Common Provisions by June 2013

NOTE: Stakeholders will have multiple opportunities to comment during the stakeholder process and later, during the rulemaking process.



Timeline and Schedule

Stakeholder Meetings

Thursday, February 28, 2013

• Thursday, March 28, 2013

• Thursday, April 25, 2013

• Wednesday, May 22, 2013

8:30 am-11:30 am

8:30 am-11:30 am

8:30 am-11:30 am

1:30 pm-4:30 pm

Note: All meetings in Sabin/Cleere Rooms, CDPHE Campus

• Rulemaking Process Goal

• August 2013

Request for Hearing

November 2013

Hearing



Areas of Discussion

(2013 Rulemaking Revisions)

- NSPS OOOO adoption
 - Regulation Number 6, Part A
- Revisions to Colorado's reporting and permitting requirements
 - Regulation Number 3
- Oil and Gas emission reduction strategies
 - Regulation Number 7 and Common Provisions



Topics for this Meeting

- Overview of permitting growth and emission inventories in Colorado
- NSPS OOOO adoption proposal
- Potential permitting/reporting changes

Overview of Permitting Growth and Emission Inventories in Colorado





Colorado Emissions and Permitting

- Statewide Air Quality
 - NAAQS for Criteria Pollutants
 - Ozone Data
 - Ozone Planning Activities
- Emission Inventory
 - 2008 Statewide and Denver Metro Area/North Front Range
 - DMA/NFR NOx and VOC Emissions
- Oil & Gas
 - Oil Production
 - Number of Gas Wells
- Permitting Workload



Colorado Air Quality for NAAQS Pollutants

Ozone (2008: 8-hr 0.075 ppm)

- Denver Metro/North Front Range: Non Attainment
- Remainder of state attainment or unclassifiable

PM2.5 (2006: Annual 15 μg/m3 & 24-hour 35 μg/m3)

• All areas in attainment or unclassifiable

PM10 (2006: 24-hour 150 μg/m3)

• All areas in attainment/maintenance or unclassifiable

NO2 (2010: 1-hour 100 ppb)

• All areas in attainment or unclassifiable

SO2 (2010: 1-hour 75 ppb)

• All areas in attainment or unclassifiable

CO (2011: 8-hour 9 ppm & 1-hour 35 ppm)

• All areas in attainment/maintenance or unclassifiable

Pb (2008: Rolling 3 month average of 0.15 μg/m3)

• All areas in attainment or unclassifiable

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Colorado Department of Public Health and Environment

	3-Year	Average 4	^h Maximum	Ozone	Values
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3- Year Average 4 Maximum Ozone values							
Site Name	AQS#	2010 4 th Maximum 8-Hour Average Value (ppm)	2011 4 th Maximum 8-Hour Average Value (ppm)	2012 (thru 9/30) 4 th Maximum 8-Hour Average Value (ppm)	2010 - 2012 3-Year Average 4 th Maximum Value (ppm)	2012 Highest Allowable 4 th Maximum 8-Hour Average Value (ppm)	<u>2013</u> Highest Allowable 4 th Maximum 8-Hour Average Value (ppm)
Welby	08-001-3001	0.063	0.075	0.077	0.071	0.089	0.075
Highland	08-005-0002	0.075	0.078	0.080	0.077	0.074	0.069
Aurora East	08-005-0006	0.070	0.077	0.074	0.073	0.080	0.076
S. Boulder Creek	08-013-0011	0.072	0.076	0.076	0.074	0.079	0.075
CAMP	08-031-0002			0.067			
Carriage	08-031-0014	0.069	0.075	0.077	0.073	0.083	0.075
Denver Animal Shelter	08-031-0025	0.064	0.070	0.073	0.069	0.093	0.084
Chatfield State Park	08-035-0004	0.079	0.082	0.086	0.082	0.066	0.059
Colo. Spg USAF Academy	08-041-0013	0.068	0.074	0.075	0.072	0.085	0.078
Manitou Springs	08-041-0016	0.072	0.075	0.075	0.074	0.080	0.077
Rifle - Health	08-045-0012	0.066	0.066	0.068	0.066	0.095	0.093
Welch	08-059-0005	0.072	0.077	0.077	0.075	0.078	0.073
Rocky Flats North	08-059-0006	0.076	0.081	0.084	0.080	0.070	0.062
NREL	08-059-0011	0.074	0.083	0.081	0.079	0.070	0.063
Aspen Park	08-059-0013	0.073	0.072	0.077	0.074	0.082	0.078
NPS - Rocky Mtn. Nat'l Park	08-069-0007	0.077	0.077	0.081	0.078	0.073	0.069
Fort Collins - West	08-069-0011	0.075	0.080	0.080	0.078	0.072	0.067
Rist Canyon	08-069-0012	0.071	0.073	0.071	0.071	0.083	0.083
Fort Collins - CSU	08-069-1004	0.066	0.068	0.074	0.069	0.093	0.085
Palisade - Water	08-077-0020	0.068	0.066	0.072	0.068	0.093	0.089
Lay Peak	08-081-0002	222	222	0.066		200	(per
Cortez	08-083-0006	0.064	0.071	0.069	0.068	0.092	0.087
Greeley - Weld Tower	08-123-0009	0.073	0.077	0.080	0.076	0.077	0.070

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 at a site is less than or equal to 0.075 ppm.

NOTE: Values above the level of the 3-year average 4th maximum 8-hour standard are highlighted in red.



Ozone Planning Activities

- Ozone modeling work is underway to determine likelihood of attaining 75 ppb standard by 2015
- Emission inventory work used to determine potential sources for further review
 - 2008 Baseline Inventory Completed
 - 2018 Emission Inventory Work
 - In final stages of development
- Sensitivity runs to be done this Spring



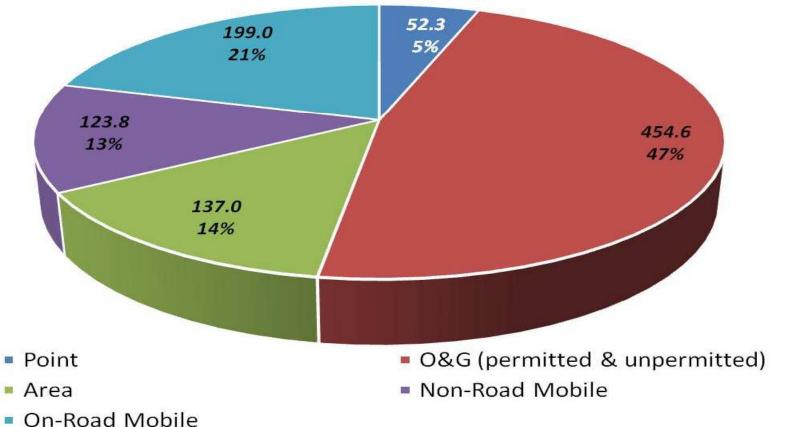
2008 Baseline Emissions

Significant Ozone Precursors

	NOx Emissio	ns [tons/day]	VOC Emissio	ns [tons/day]
Source Category	Statewide	9-County Ozone NAA	Statewide	9-County Ozone NAA
Point	238 (27%)	77 (23%)	52 (5%)	30 (6%)
Oil & Gas	164 (19%)	47 (14%)	455 (47%)	240 (48%)
Area	21 (2%)	19 (6%)	137 (14%)	63 (13%)
Non-Road Mobile	177 (20%)	69 (20%)	124 (13%)	66 (13%)
On-Road Mobile	278 (32%)	127 (37%)	199 (21%)	99 (20%)
Totals:	878	339	967	499



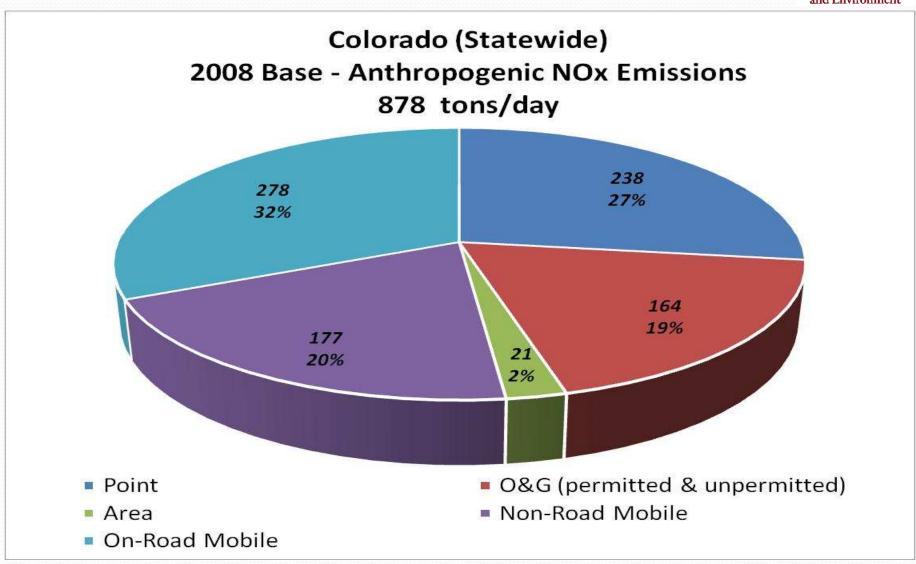




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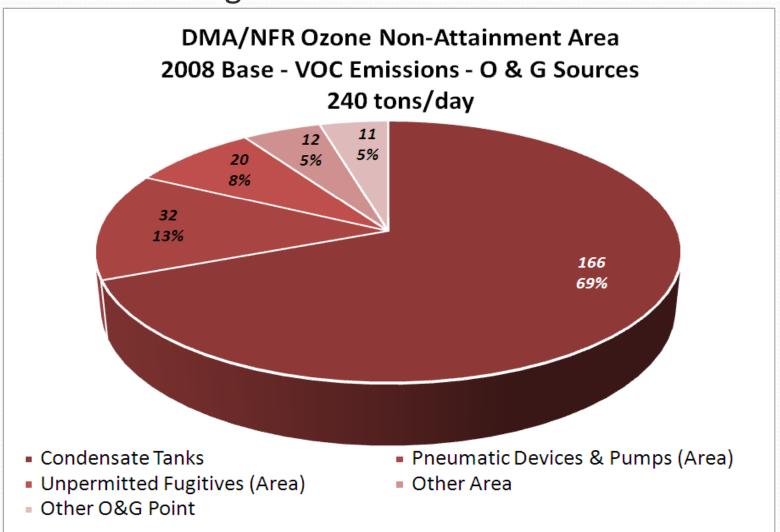
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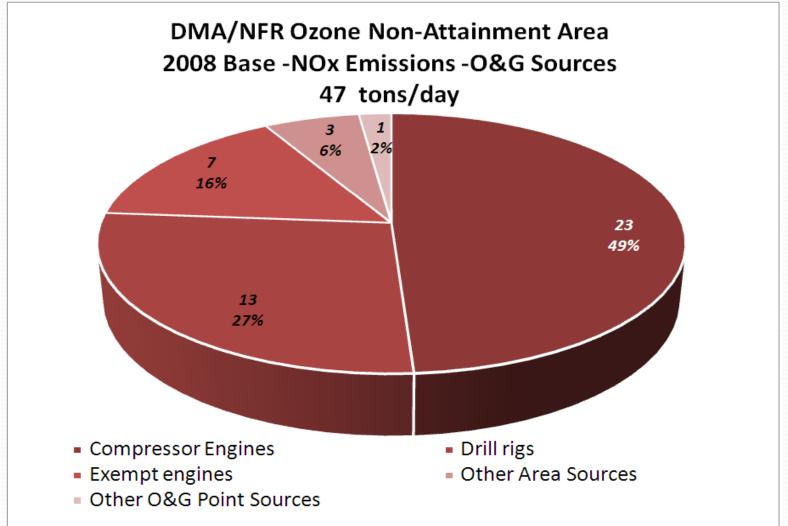
Condensate Tanks are the Largest O&G Source of VOC





and Environment

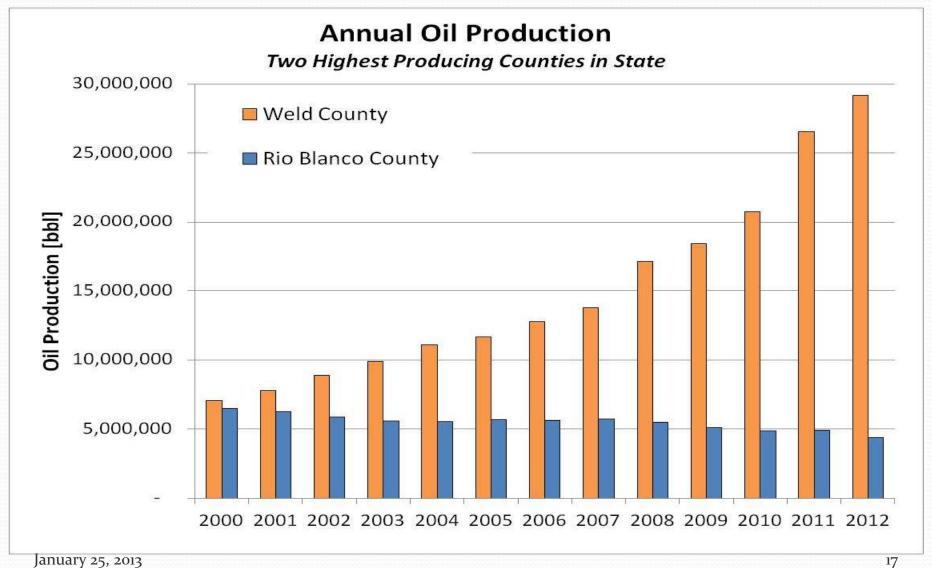
Compressor Engines and Drill Rigs are the Largest O&G Sources of NOx



January 25, 2013

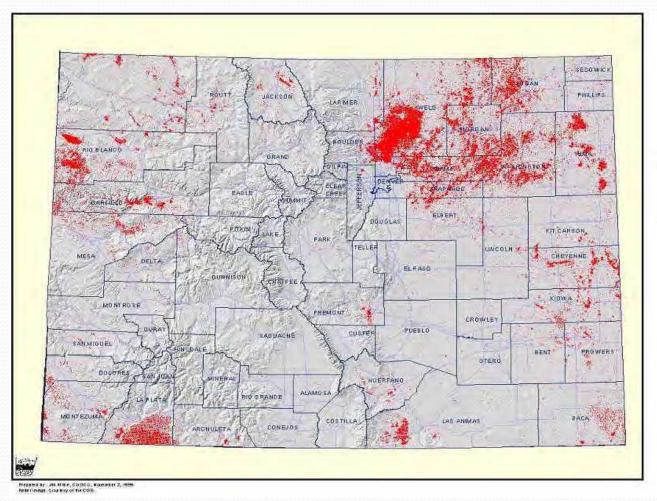
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Colorado has about 50,000 active wells



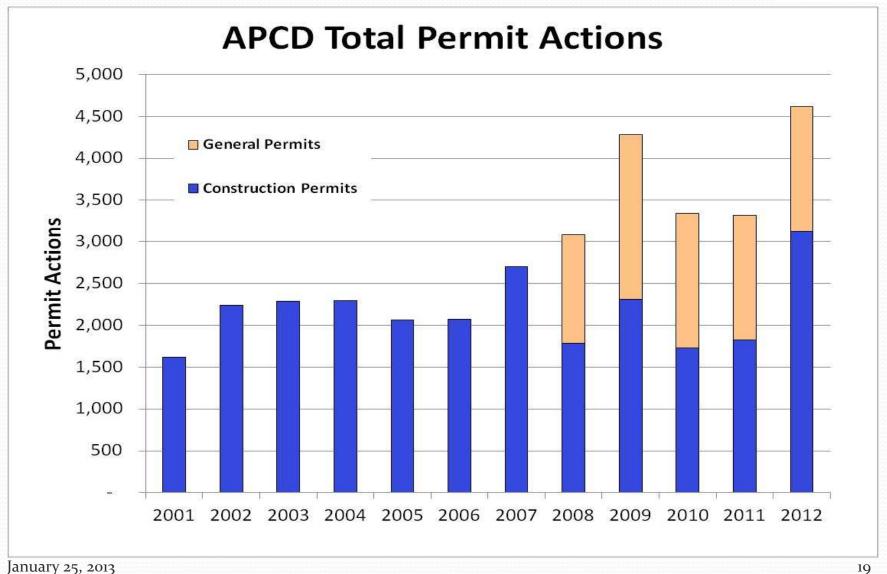


OIL AND GAS WELLS IN COLORADO

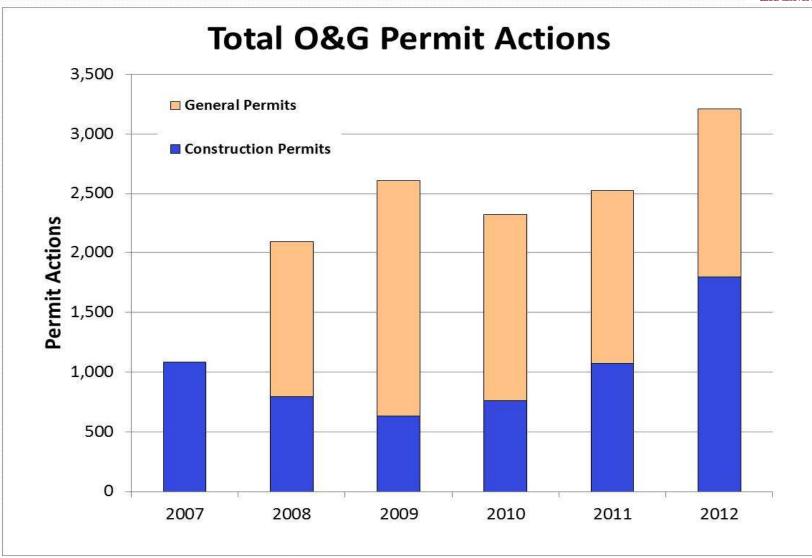
January 25, 2013

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Proposed Revisions: Part 1

NSPS OOOO

(Regulation Number 6, Part A)

Permitting and APEN Requirements (Regulation Number 3)





Reg. 6 – NSPS 0000

- Partial adoption October 18, 2012
 - Impact to permitting and reporting
- Adopt well completion and other provisions in full
- EPA announced reconsiderations
- Direction from the AQCC
- Simplify and streamline implementation



Reg. 3 – Catchalls

- Remove requirements for sources subject to a NSPS, NESHAP, or MACT adopted by the AQCC to file an APEN and/or obtain a construction permit, regardless of emissions
 - Part A, II.D.1.
 - Part B, II.A.5., II.D.
- Simplify and streamline reporting and permitting
- Maintain stringency of applicable NSPS, NESHAP, and MACT



Reg. 3 – Reporting Thresholds

- Increase Air Pollution Emission Notice (APEN) thresholds
 - Part A, II.B.3.a. and b., II.D.1.a. and b.
 - Criteria pollutants: 2 tpy
- Revise Appendix A method for determining noncriteria reportable pollutant de minimis levels
 - 1000 lbs/yr
- Simplify and streamline reporting and permitting
 - Impact on permitting and reporting
 - No increase in emissions



Reg. 3 – Permitting Thresholds

- Potential increase to construction permit thresholds
 - Part B, II.D.2 through 5.
 - Criteria pollutants: [25] tpy
 - Lead: 200 lbs/yr
- Simplify and streamline reporting and permitting
 - Impact on permitting and reporting
 - No increase in emissions



Reg. 3 – Crude Oil Permitting

- Remove the crude oil storage tank permit exemptions
 - Part B, II.D.1.n.
 - Part C, II.E.3. ddd.
- Simplify and streamline

Next Steps

Next Meeting:
Thursday, February 28, 2013
8:30 am - 11:30 am
Sabin Cleere Rooms
CDPHE Campus, Building A





Next Steps

- Presentation and potential language revisions posted to APCD website.
 - http://www.colorado.gov/cdphe/apcd
 - ★ Hot Topics » 2013 Rulemaking
- Comments on the language presented today due February 15, 2013 to Leah Martland
- Next Stakeholder Meeting on February 28, 2013 at 8:30 am, Sabin Cleere room. Registration will be included with the meeting notice.



February Meeting Highlights

- Recap the January Meeting
- Discuss comments received on NSPS OOOO adoption and permitting/reporting revisions
 - Regulation Number 6 and Regulation Number 3.
- Present potential revisions to statewide oil and gas control requirements
 - Regulation Number 7 and the Common Provisions.



Comments

Submit comments on potential revisions to Regulation Number 6 and Regulation Number 3

by February 15, 2013,

to Leah Martland at leah.martland@state.co.us

Language and additional information can be found on http://www.colorado.gov/cdphe/apcd

★Hot Topics » 2013 Rulemaking Effort