

WRAP - Oil and Gas Work Group Notes - Tuesday February 13, 2018

1. Welcome/Introductions (Roll call – Amanda Brimmer)

Call Participants: Amanda Brimmer, Molly Birnbaum, Jim Nyarady, Eileen Steilman, Mark Jones, Whitney Oswald, Darla Potter, Leslie Vaculik, Ann Mebane, Andrea Stacy, Cindy Beeler, Tom Moore, Frank Forsgren, John Grant, Amnon Bar-Ilan

2. Review Agenda (Amanda)

- a. Announcements
- b. 2018-2019 OGWG Work Plan Documents (*Tom Moore & Darla Potter*)
- c. OGWG Road Map Status (*John Grant & Amnon Bar-Ilan – Ramboll Environ*)
- d. CARB Oil and Gas Emissions Rule Presentation (*Jim Nyarady, CARB*)
- e. Next Steps & Planning for Next Calls (*Darla Potter and Amanda Brimmer*)

3. Announcements

- a. Update on MJO 2016 Modeling Platform Effort (*Tom Moore*)
 - i. EPA wants oil and gas work group to help develop projection methodologies
 1. Aligning work by Ramboll on base year and future year with national work group
 2. Doodle poll on call in Early March for O&G work group for 2016 modeling platform.
 3. Starting with NEI V2. 2014

4. 2018-2019 OGWG Work Plan Documents (*Tom Moore & Darla Potter*)

- a. OGWG Status Report (Darla) See document Item4a
 - i. New information, provided a project team update on Page 3. Update on Drill Rig 1-hour NO2 Collaborative study
- b. OGWG Work Plan (Darla)
 - i. For 2018-2019 discussed only where taking a different path.
 - ii. Driving towards RH work products that we need.
- c. Preparation guidance and schedule (Tom Moore)
 - i. Board plan to review draft by March 1
 - ii. Discuss Item 4b_clean master
 1. First set on Regional haze (monitoring, emissions, historic and future year modeling, control measure analysis).
 2. Oil and Gas is a rapidly changing sector
 3. Page 17. Critical milestones for regional analysis (organized in what each work group will be doing)

4. Page 20 O&GWG – item 12. What the work group has to do on regional haze.
5. More detail to go on Task 12.2 (formatting issue)
 - a. Page 21. Additional tasks for the work group 1-6.
6. Document focuses on Identification of what needs to be done, not how it is to be done.

5. OGWG Road Map Status (*John Grant & Amnon Bar-Ilan – Ramboll Environ*)

- a. Next step for WRAP regulatory agencies to assist (*Tom Moore*)
- b. Ramboll interacting with project team, steady work.
- c. John Grant, Ramboll provided a report
 - i. Tight schedule
 - ii. Draft of the work plan in early to mid-March in order to proceed along the schedule.
 - iii. Tasks under O&G road map:
 1. Subtasks to develop work plan,
 2. Review of base year O&G,
 3. Review of future year,
 4. and looking at controls,
 5. Existing on the books regs and strategies to apply different control scenarios to emissions inventories.
 6. Spreadsheet attached Item 5
 - a. May be additional 2014 studies to include in the scoping for the work plan development
 - b. Within a week to provide any additional baseyear or future year inventories in the work plan (by noon on Feb 20)
 - c. Darla to send out an email with the deadlines.
 7. Will send out regulations that they are reviewing, but want feedback and review of it. Short timeline.

6. CARB Oil and Gas Emissions Rule Presentation (*Jim Nyarady, CARB*) Notes:

- Regulations affect everyone in CA and covers existing and new sources.
- Slide 11. Some exemptions for low throughput.
- *Pumping a lot of water to get small amount of oil left in CA fields.*
- *Slide 11. Require flash testing if don't have controls on already.*
 - *Separator and Tank Systems Cindy Beeler (EPA 8) Nobel energy looking at pressurized samples which have impacts on samples. Make sure have*

parametrics to give sample quality. Very long report with good information available within a month.

- *CA is Collecting equipment counts and flash testing info.*
- Slide 15 not many wet seal reciprocating still in field.
 - One of biggest differences from Quad Oa is in this part of regulation
 - Believe that leaking could start soon, or not for a long time,
 - Regulation does not follow Quad Oa in replacing based on time of use.
- Slide 16 - Not as many pneumatics in CA – a lot of electrification
- Liquids unloading and casing head emissions are required to be reported.
- Reporting requirements through reporting process on web-based format.
- Slide 17 – Costs
- Slide 18 – emissions reduction co-benefits.
- Questions: Cindy – Slide 11
 - Separator and tank systems install vapor collections
 - Have to put it in sale, fuel, reinjection, last option to flare it. If you do flare it have to take out one of your old dirtier flares
 - Mostly gas added was minimal where would not have to put in a brand new flare for it.
 - Slide 13 – defining an oil well versus a gas well – if in the sections you have to do LDAR oil well pad facility would have to do LDAR as well as gas wells (dry).
- Slide 20 – Implementation dates
- Cindy Beeler (EPA 8) Questions
 - Are LDAR requirements for oil and gas wells. Answer: LDAR goes for everyone.
 - CA has Very heavy oil API 10. Maybe not emissions factors for this type of well.
 - If heavy oil exempt to LDAR, less than 20 API on sales except from LDAR regardless of production.

7. Next Steps & Planning for Next Calls (*Darla Potter and Amanda Brimmer*)

- a. Next Call April 9, 2018 (rescheduled from April 10, 2018)
10:00 am (AK), 11:00 am (PT), Noon (MT), 2:00 pm (ET) – 90 minutes
- b. Topics: update on 2018-2019 Workplan, update on road map work by Ramboll Environ, and speaker (TBD).

8. Comments are due no later than Noon (Mountain) Tuesday, February 20, 2018 for the documents discussed on the February 13 call and distributed by Amanda Brimmer attached to the appointment for the February 13 call.

- a. Item4a OGWG_20182019_Workplan_StatusReport_DRAFT02122018
- b. Item 4b v1 clean Master 2018-19 WRAP Workplan Tasks Feb5-2018
- c. Item 5 OGWG_Potential_Data_Source_List_01Feb2018