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10 WORKGROUP FOR GLOBAL AIR PERMIT POLICY DEVELOPMENT FOR
11 TEMPORARY OIL AND GAS DRILL RIGS

12
13 MEETING
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16
17 November 14, 2013

18
19 Anchorage, Alaska
20

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22
23 Present:

24
25 Bill Barron
26 Bill Britt
27 Gordon Brower (telephonic)
28 Alejandra Castano
29 Alison Cook (telephonic)
30 Tom Damiana (telephonic)
31 Alice Edwards
32 Joshua Kindred
33 Kate Kaufman
34 John Kuterbach
35 Ann Mason (telephonic)
36 Jim Neason
37 Denise Newbould
38 John Pavitt
39 Eric Pierson (telephonic)
40 Sally Ryan (telephonic)
41 Jim Shine
42 Rebecca Smith (telephonic)
43 Erin Strang
44 Jeanne Swartz

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1 Brad Thomas
2 Al Trbovich (telephonic)
3 Barbara Trost
4 Tom Turner
5 Ben Wedin
6

7 P R O C E E D I N G S

8 (On record at 1:05 p.m.)

9 MS. EDWARDS: Why don't we go ahead and we'll do
10 introductions.

11 UNIDENTIFIED MALE: Sure.

12 MS. EDWARDS: I'm not sure if we have Gordon on the phone
13 yet. He was going to call in from Barrow today because he got
14 weathered in. So hopefully we'll have him here shortly if he's
15 not on the line already.

16 MR. BARRON: It's that time of year. Let's move on.

17 MS. EDWARDS: It is that time of year, so we'll just keep
18 going. Why don't we do introductions in the room. And before
19 we start, we are going to transcribe things so if you're on the
20 periphery and you do end up speaking it would be helpful for you
21 to get to a mic. That will really help us make sure we capture
22 what's going on. It will probably also help the people on the
23 phone hear what's going on and it sounds like we have a number
24 of people on the phone today. Two of our workgroup members,
25 Gordon Brower is supposed to be on the phone today and Mike
26 Munger will be joining us by phone at some point during the
27 meeting we hope. So why don't we go around the room and just do
28 introductions and I'll start. This is Alice Edwards, Director

1 of Air Quality for DEC.

2 MR. THOMAS: Brad Thomas. I'm here on behalf of the
3 Alaska Support Industry Alliance.

4 MR. KINDRED: Josh Kindred, Regulatory and Legal Affairs
5 Manager for AOGA.

6 MS. TROST: Barbara Trost, DEC Air Quality Monitoring.

7 MR. BARRON: Bill Barron, Director of Oil and Gas.

8 MR. SHINE: Jim Shine, Department of Natural Resources,
9 Commissioner's Office.

10 MR. TURNER: Tom Turner, DEC Air Quality.

11 MS. NEWBOULD: Denise Newbould, ERM.

12 MS. CASTANO: Alejandra (indiscernible) Alaska.

13 MS. STRANG: Erin Strang, ERM.

14 MR. WEDIN: Ben Wedin, Nordic Calista Services.

15 MR. BRITT: Bill Britt with Hilcorp.

16 MR. KUTERBACH: John Kuterbach, DEC.

17 MS. SWARTZ: Jeanne Swartz, ADEC.

18 MS. KAUFMAN: Kate Kaufman, Hilcorp.

19 MR. NEASON: John Neason, Nabors Alaska.

20 MS. EDWARDS: Great. So can I -- can we go ahead and get
21 the folks on the phone? And for the folks on the phone, if
22 you're new to any of our workgroup calls if you will send us a
23 email to -- probably to Jeanne or to Jim or Tom on the website
24 we can make sure that we get you onto our mailing list. And
25 also all of the meeting materials should be available up on the

1 website. So can we just go ahead and see who we have on the
2 phone?

3 MR. PIERSON: Eric Pierson with Caterpillar Incorporated.

4 MS. EDWARDS: Hi, Eric.

5 MR. PIERSON: Hi.

6 MS. RYAN: Sally Ryan, CARDNO Entrix.

7 MS. COOK: Alison Cook, BP.

8 MR. DAMIANA: Tom Damiana at AECOM.

9 MS. MASON: Ann Mason, SLR.

10 MR. TRBOVICH: Al Trbovich, SLR.

11 MS. EDWARDS: Is there anyone else on the phone that
12 hasn't identified themselves?

13 MS. SMITH: Rebecca Smith, DEC.

14 MS. EDWARDS: Great. Thanks everybody. We have one late
15 arrival here. I'm sure we'll have a few more, but if you want
16 to go ahead and introduce yourself.

17 MR. PAVITT: Hello. I'm John Pavitt from EPA.

18 MS. EDWARDS: Great. So just to do a quick agenda check.
19 We sent out to the members of the workgroup a little bit of
20 suggestion for the agenda today and I'm open to any suggestions
21 from the workgroup members if there's any changes. We were
22 thinking about rather than sort of having separate sections
23 after the 3:00 o'clock break that we sort of combine that into
24 one sort of session on discussion and defining our follow-up
25 activities and next steps. And I haven't heard any objection

1 from the -- any of the other workgroup members about that
2 change, but open discussion on that or any other changes to the
3 agenda you all might have.

4 MR. BARRON: I'm good.

5 MS. EDWARDS: Everybody good? Okay. So I don't know if
6 we have a prior meeting summary at all to go through this time.
7 It -- the meeting summary's online, is it not?

8 MR. TURNER: Correct.

9 MS. EDWARDS: Okay. So if you have any -- if any of the
10 workgroup members have any comments on that prior meeting
11 summary just let us know and we'll get it adjusted accordingly.

12 So I think the agenda today is at the last meeting we kind
13 of left it with an idea that the industry folks would go back
14 and come together and put together sort of a proposal to start
15 with related to more of a monitoring approach in lieu of a
16 permitting approach for temporary drill rigs. And they did go
17 ahead and do that and sent that back out to the group and so
18 that's available up on the website as well and all the workgroup
19 members should have it available to them. So I thought we'd
20 start by sort of walking through that and then we can -- the
21 workgroup members, we can maybe have some initial feedback and
22 thoughts on it and then we can move on from there. So the idea
23 is sort of between now and a natural break point we'll do that
24 and then after that we continue our discussion on the proposal
25 and details and defining what we want to do next, what our

1 follow-up steps would be. Before we leave today I would like to
2 kind of have a feeling for what our next steps are and sort of
3 when we might meet or want to meet as this group again based on
4 where we arrive at based on our discussions on actions and next
5 steps.

6 So that's sort of what I foresee happening based on the
7 agenda today. So with that maybe Brad or -- we can get a
8 walkthrough of the proposal from the Alliance and AOGA.

9 MR. THOMAS: Yeah.

10 MS. EDWARDS: Okay.

11 MR. THOMAS: So this -- the proposal's built around
12 employing monitoring to show that the drill rigs are in
13 compliance and don't threaten compliance with the national
14 ambient air quality standards. So I'll go through the program
15 elements that we propose and take questions at the end.

16 MS. EDWARDS: Before you start, did you someone just join
17 us on the phone.

18 MR. BROWER: Yeah. Good afternoon. This is Gordon Brower
19 with the North Slope Borough.

20 MS. EDWARDS: Great, Gordon. We're glad to have you. We
21 just took a look at the agenda and Brad's getting ready to sort
22 of walk through the proposal from AOGA and the Alliance. So if
23 you have any questions as we go along please feel free to chime
24 in. And if you're -- if you have -- and if there's.....

25 MR. BROWER: All right.

1 MS. EDWARDS: And if there's -- this goes for anybody on
2 the phone. If you're having trouble hearing anything please let
3 us know.

4 MR. THOMAS: Okay. The program elements consist of seven
5 in total. And again, we propose to demonstrate that the rigs
6 don't threaten compliance with the national ambient air quality
7 standard via monitoring presentation, if you will, or program.
8 We'll -- so the first element is to assemble all the data that's
9 been collected to date around drill rig activities and present
10 that to ADEC in the form of a report or modeling -- or not
11 modeling files, but monitoring files, Excel spreadsheets that
12 contain all the data. So ADEC's got it, they can see the QA QC.
13 So all the data that's been collected on rigs to date will be
14 brought to the table.

15 The second thing would be to continue at a pad in Alpine
16 and a pad in Prudhoe Bay for at least two years. There's no
17 (indiscernible) for at least two years the ambient monitoring
18 that's going on now. So in Alpine at the drill site called CD-1
19 there's a full blown ambient monitoring station that records PM-
20 2.5, PM-10, NOx, SO-2, CO and ozone. We'll continue that for at
21 least two years and bring that data forward to DEC, DNR for
22 their review. And we'll continue this -- the program on A Pad
23 within Prudhoe Bay and the pollutants collected there are --
24 Alejandra?

25 MS. CASTANO: I believe all the ones we stated. I'm not

1 sure about ozone, but Alison's on the phone. She can
2 confirm.....

3 MR. THOMAS: Okay.

4 MS. CASTANO:what we do have.

5 MR. THOMAS: We collecting ozone at A Pad, Allison?

6 MS. COOK: Yes.

7 MR. THOMAS: Okay. So we'll continue both those programs
8 for at least two years. But again, no end in sight in either
9 case.

10 The third program element, a subcommittee we proposed will
11 be made consisting of State representatives and representatives
12 from industry to look at all that data that's been collected
13 and, you know, make sure everybody's comfortable with it. You
14 know, evaluate it and conclude hopefully that it's good data, it
15 can be used to base decisions on.

16 The fourth program element will establish a -- we call it
17 a leadership team to periodically meet and assess the monitoring
18 data that's been collected and look for trends, look for in
19 particular violations of ambient air quality standards if they
20 occur and see if anything needs to be done about that. And what
21 that leadership team will do, how it behaves, how often it
22 meets, what the action thresholds are would be defined by the
23 leadership team when it's brought together. We didn't put any
24 detail on what the leadership team does or what it is, but it
25 will evaluate the ambient data as it's collected to determine

1 action items. And along with that, you know, they'll look at
2 not just the ambient data that's been collected, but they'll
3 look at, you know, past and planned future drilling activities
4 to see if there's any major differences or anything of concern
5 that arises.

6 The fifth program element, we can -- we'll show -- we
7 already have done quite a bit of modeling, but we can show to
8 everybody's satisfaction that the impacts that we're concerned
9 about around drill rigs are the one hour standards, the impacts
10 in respect to the one hour NO2 standard in particular. And we
11 can show that that's a near field impact, it's not extended in
12 distance. So that will then support that the ambient programs
13 are good and that the ambient data that's been collected to date
14 is good, it shows what's important to show.

15 Then, you know, we'll also show that the modeling, it
16 doesn't really matter where drill rigs are, whether they're on
17 the North Slope, Cook Inlet, Brooks Range, it -- because the
18 impacts are near field. The meteorology implied or the local
19 topography is of very small importance because the impacts
20 happen right near the pads. So the modeling will demonstrate
21 that.

22 The sixth program element, we'll -- we can show what
23 technology improvements have been made on the drill rigs over
24 time. You know, we'll bring that information to bear, you know,
25 more formally than just us saying it. But the engine

1 replacement rate's been on the order of about two to three per
2 year, you know, on drill rigs. And that's engine replacements
3 that affect lower emitting engines with each replacement because
4 with the EPA's Title 2 program the engines are increasing in
5 tier level with each replacement.

6 And the seventh program element we propose is for DEC to
7 tell us the steps that need to be taken, identify the steps that
8 need to be taken, lay out the plan for amending 18 AAC 50 to
9 regulate the drill rigs as we propose via a monitoring approach
10 rather than a programming approach.

11 So at eye level those are the seven program elements. So
12 if anybody has any questions you're free to ask.

13 MS. EDWARDS: Questions. Gordon, do you have any
14 questions on the proposal?

15 MR. BROWER: I probably would if I was able to be there
16 and to kind of look at what's being described. I have a hard
17 time visualizing sometimes when we're having to -- you know, try
18 to hear it without being present. And I didn't have the
19 proposal in front of me. I was looking through my email and I
20 thought I had received the proposal some time ago, but I wasn't
21 able to locate that.

22 MS. EDWARDS: Okay. Gordon, are you at a place where
23 you're near your computer?

24 MR. BROWER: Yeah, but it looks like we just had a power
25 outage and my computer just turned off and everybody else's in

1 the building just turned off, so.

2 MS. EDWARDS: Okay. Well, if you do get your computer
3 back it is posted on the drill rig web page for this meeting.
4 So if you get your power back on during the meeting you might
5 pull it up there. At least you'd have a visual reference of it.

6 MR. TURNER: Excuse me, Alice. Rebecca, are you still on
7 the phone?

8 MS. SMITH: I am, Tom. I -- and I just (indiscernible).
9 I'm -- Gordon, I'm going to go ahead and send you those
10 documents so that if your power comes back on you'll be able to
11 see them without having to do the roundup of that page to find
12 them.

13 MR. BROWER: All right. Thank you.

14 MS. EDWARDS: Okay. Bill, did you have anything you
15 wanted to share?

16 MR. BARRON: Yeah, I've got a couple of questions. And
17 first I'd like to say that I think it's -- this -- wherever we
18 land this is a really good first step by the industry and I
19 appreciate the effort and the thought that went into this.
20 Because we've talked a lot about the difference between actual
21 data and modeling data and the value of trying to marry the two,
22 but you can't marry the two if you don't at least take data to
23 figure out how the systems are working.

24 You talked about CD-1 and A Pad and with all the drilling
25 activity that is potentially in the forecast and on the horizon

1 why those two pads? Are those the two most active pads? If
2 you're a skeptic you would say that those are the two least
3 active pads and you're trying to cook it. So I mean if we try
4 and go through this in a public way -- and I'm not saying you
5 are. I'm just saying if you're a skeptic how do you build the
6 reputation that these are the two most responsible and
7 representative pads on the North Slope and how does that then
8 compare to something that you might have in the Cook Inlet?

9 MR. THOMAS: And I'll speak for Alpine, for CD-1. And
10 Alejandra, you and Alison can jump in on A Pad. But CD-1 is a
11 pad that also consists -- it's a very active pad. It's one of
12 four pads in the Alpine facility and it gets high level
13 (indiscernible) from drill rigs. So it's a pad that's very
14 active for drilling. But it's also got the advantage of being a
15 conservative location because this pad is also the Alpine simple
16 processing facility. So we're not only recording a good number
17 of drill rig impacts on that pad, but overseeing the effects of
18 drill rigs and the nearby, you know, PSD major facility. So
19 that's why we have CD-1. It's got the infrastructure plus it
20 has the conservatism for the ambient impacts being measured.
21 And it gets a lot of drill rig station, so.

22 MS. CASTANO: So as for A Pad, and Allison Cook can
23 correct me if anything I state is incorrect, but it wasn't
24 originally placed -- the monitoring station wasn't originally
25 placed there for drilling rig activities per se. It was in

1 support of monitoring data that we were collecting as kind of
2 more of a background station. That said, however, with the data
3 that we've shown in past presentations there has been drilling
4 activity at A Pad obviously over the past couple of decades and
5 there will be continued drilling activity there as well.

6 Alison, anything you want to add?

7 MS. COOK: No. Well, I'll just say that we -- that it's a
8 very well established station. It's been there for over 20
9 years. It's -- in addition to kind of measuring background it
10 also measures the dispersion from the major impacts that we
11 think that we would have. The most impacts are maximum impacts
12 that we would have that are near the gas plants, the central gas
13 facility and the central compression plant. And that's where we
14 have an additional air monitoring station that we call the CCP
15 station measuring the maximum concentrations and the A Pad
16 station is our downwind station that measures how the
17 concentrations disperse as they go downwind. So it measures
18 that as well. And like Alejandra said, the station wasn't put
19 in there with the intent of measuring drill rig emissions, but
20 it has over the years and we currently in the last few -- in the
21 last couple of weeks we've had one rig there and I think we have
22 a second rig going there. So it does measure drilling activity,
23 but it wasn't placed there specifically for that purpose.

24 MR. BARRON: Okay. I -- but I think you see the thrust of
25 my concern is that if you're putting in something -- we're

1 talking about a multi-year program and if the sites that we're
2 monitoring the air to show the validity of air sampling versus
3 modeling has sparse or limited drilling activities I'm beginning
4 to wonder the -- how much value that is and is -- are there
5 better places to put the -- that's all I'm asking is, is there a
6 way to make sure that those are the best places? I mean I tend
7 to agree that CD-1 is probably a really good place because it
8 gets both production operations and drilling on a continuous
9 basis. Just wondering about A Pad and is there an alternative
10 site. And so now to the question of, you know, Cook Inlet. Do
11 we think that that is -- the activities associated on the Slope
12 would also be representative of similar activities in the Inlet?

13 MR. THOMAS: I do. I do because the Slope activities
14 occur with drill rigs that if anything are probably slightly
15 bigger than what they have in the Cook Inlet. And since the
16 impacts are right at the pad edge or on the pad or very near the
17 pad that's not going to be different in Cook Inlet. The
18 pollutant at issue is one hour NO2. The ambient air quality
19 standard we're concerned about that we can't model compliance
20 with because we model compliance with everything else, but it's
21 one hour NO2. So the impacts we record on the Slope, be it A
22 Pad or CD-1, I just don't see them being any different in Cook
23 Inlet because the station may need to be hit for, you know, an
24 hour at a time to record a one hour concentration of NO2 to see
25 what it is. There's no reason to believe Cook Inlet would be

1 different. Kate.....

2 MS. KAUFMAN: No. I mean, as you said, the rig size and
3 the Cook Inlet rigs we use down there are probably slightly
4 smaller and we have, you know, certainly transient operation
5 there. So, you know, our view is that the monitoring data
6 collected on the Slope would generally be representative of our
7 Cook Inlet operations or if not slightly worse. And that's --
8 you know, if they're achieving compliance it's -- you know, we
9 can feel confident that we are as well.

10 MR. THOMAS: We stay on pads on the Slope for -- and I'll
11 look at Steve. Steven Hubert (ph) is our billing department.
12 He came in late. I don't think -- did you sign in, Steve?

13 MR. HUBERT (PH): No, I didn't.

14 MR. THOMAS: Well, then when you do -- make sure you do
15 that, but when we have a rig drilling new hole on pad it's a six
16 to eight week exercise or.....

17 MR. HUBERT (PH): Generally. I mean perhaps a little -- a
18 wee bit longer than that (indiscernible).....

19 MR. THOMAS: Okay.

20 MR. HUBERT (PH):but, you know, if we have severe
21 troubles or something (indiscernible) six to eight weeks or so.

22 MR. THOMAS: And I believe it's a little bit less, the --
23 not that much time in Cook Inlet?

24 MR. KAUFMAN: Yeah, yeah. We're 45 days, 60 days max
25 really on a pad and we don't stay on a pad certainly more than

1 the minimum.

2 MR. THOMAS: Okay. It's about the same time it sounds
3 like. Okay.

4 MR. BARRON: Okay. In item four you referenced -- and
5 again, we had kind of touched on this in the last meeting, that
6 the air standards are for when the equipment is drilling, not
7 necessarily when it's doing work overs which is kind of an
8 interesting subtlety. And in your section four you talk about
9 exclusive of well maintenance activities. My question to you
10 is, is the way that you can read that is, is you're not going to
11 be monitoring. You're going to switch your monitors off. You
12 see, but.....

13 MR. THOMAS: Yeah.

14 MR. BARRON:you understand how I can read that.

15 MR. THOMAS: Yeah.

16 MR. BARRON: I'm just trying to be real clear because my
17 goal would be to have the monitors running all the time and then
18 be able to cross reference both when the rigs are drilling, when
19 the rigs are doing work overs, when.....

20 MR. THOMAS: Right.

21 MR. BARRON:and when the rigs are shut down and then
22 to be able to go back and track exactly what is transpiring
23 during all those different events.

24 MS. CASTANO: And that's how it's been. Those monitoring
25 stations don't get turned off. I mean they (indiscernible)

1 continuously. That's your question?

2 MR. BARRON: Well, it is, but in item four it says.....

3 MS. CASTANO: Okay.

4 MR. BARRON:the summary of drilling operations
5 exclusive. I mean it's very -- it's almost highlighted because
6 it's put in brackets, exclusive of well maintenance activities.
7 And my suggestion is, is that those activities be included,
8 identified in the timeline, but identified and recognized as
9 ongoing activities and maybe to just -- if nothing else to make
10 sure that there's a full and complete set of data.

11 MR. THOMAS: I don't have an issue with that.

12 MR. BARRON: The other thing that as you were going
13 through it, Brad -- two things. One is I guess I need a little
14 bit of help and maybe we can do this -- well, we can do it here
15 I think. The monitoring stations, I guess the goal would be to
16 work closely with DEC in terms of where your receiving stations
17 are, where -- you know, and -- you know, is there -- because the
18 dispersant is kind of, you know, what's the profile, what's the
19 plume model look like, where do things fall out, you know, near
20 pad, away from pad. So I would think that there would be some
21 sort of concert agreement in terms of how those stations are
22 laid out, upwind, downwind, et cetera. Is that inherently
23 implied in this or is -- or are you guys just designing where
24 you put your receiving stations with your own best technology,
25 but not necessarily in accord or in agreement in dialogue with

1 DEC?

2 MR. THOMAS: The CD-1 station was put in specifically to
3 monitor drill rig impact, so we modeled a rig on a well line to
4 see where its impacts would be and that's where we put the
5 station.

6 MR. BARRON: Okay.

7 MR. THOMAS: And that was in the air quality
8 (indiscernible) plan submitted to ADEC. A Pad because it wasn't
9 put in for the purpose of monitoring drill rigs, I don't know
10 where its location is compared to where the rig impacts would
11 be. So that's something we probably have to assess.

12 MS. CASTANO: Yeah. It's actually in the middle of the
13 well line of that pad. But we have to look (indiscernible).

14 MR. BARRON: But you've got receiving stations, you know,
15 strung out in a way that have near pad, just off pad, away from
16 the pad.

17 MR. THOMAS: When you say receiving station.....

18 MR. BARRON: Well, sampling stations or is there just one?

19 MR. THOMAS: Just one.

20 MR. BARRON: It's one? Okay.

21 MS. CASTANO: It's one. It's one monitoring station.

22 MR. BARRON: That's kind of what I'm trying to get my head
23 around.

24 MS. CASTANO: It's in a -- I mean we can provide that
25 information and it's actually I think been provided in our

1 monitoring data reports that we submit, a picture of where it is
2 on the A Pad if that helps.

3 MR. BARRON: Yeah, it would because.....

4 MS. CASTANO: Okay.

5 MR. BARRON:I would get that (indiscernible).

6 MS. CASTANO: So Brad, (indiscernible).....

7 MS. TROST: (Indiscernible).

8 MS. CASTANO:stations he wanted put in the area of
9 maximum impact, so at least we are measuring the maximum
10 potential impacts from the rig.

11 MR. BARRON: I guess that's kind of my question is, is
12 thinking about, you know, how things disperse and I'm trying to
13 understand are we measuring at the right location or should we
14 be measuring at multiple locations at each one of these pads to
15 identify is there a difference of -- with wind is that
16 dispersion different than -- do you see what I'm saying? I mean
17 having a monitoring station in line, just off pad, a little bit
18 further off, you know, location, if that's possible. I just
19 think about we used to do noise monitoring on some rigs that I
20 worked on and we put it out -- spaced out in distance to try and
21 get an idea of how that sound attenuates over different kind of
22 terrain. And you had to do that because of the distance issue.
23 You had to make sure that there was -- you had that data. And I
24 don't know that that is the same for air, but I would think that
25 it would be.

1 MR. THOMAS: It's a little more involved with air
2 because.....

3 MR. BARRON: Probably.

4 MR. THOMAS:the pad size -- I'm thinking the pad is
5 probably 30 by 50. Tom, you can correct me if I'm wrong, but so
6 you have to have a 30 by 50 foot pad (indiscernible) tundra if
7 you wanted to space it out. Then you'd have to get power out to
8 each one of those spots and the station is -- itself is very --
9 you know, very involved. It's got a lot of equipment in it.

10 MR. BARRON: Okay.

11 MR. THOMAS: It would be, you know, a little difficult to
12 do that.

13 MR. BARRON: Well, and that's something I would just look
14 at DEC to kind of help out is whether or not the location of the
15 monitors is acceptable. I mean I don't know not being an air
16 technical kind of guy, but I mean that's.....

17 MS. EDWARDS: Well, and I did send out to the workgroup
18 members some of my initial questions and some of them sort of
19 lead into that type of discussion as well which I think is
20 understanding the data that we have, that industry's already
21 collecting, and where those monitors are located and what we're
22 observing at those monitors. But also being able to look at
23 that network of monitors and see is -- are -- do we think that
24 they're situated in a way that lends itself to the type of
25 activity that we want to look at and the information that we

1 want to get. And that was -- some of my questions sort of stem
2 around that question as well.

3 MR. BARRON: Okay. So I'm not completely off in left
4 field.

5 MS. EDWARDS: No. I think that there's definitely some
6 work to do I think on a very technical level to kind of look at
7 this.....

8 MR. BARRON: I agree.

9 MS. EDWARDS:look at the data that's there and look
10 at the sites that are there together and sort of.....

11 MR. BARRON: Okay.

12 MS. EDWARDS:make sure that we're comfortable at
13 least on the Slope that where we have the monitors and what
14 we're doing makes sense for what we're trying to.....

15 MR. BARRON: Right.

16 MS. EDWARDS:accomplish through this activity.

17 MR. BARRON: Okay. That would make me a whole lot more
18 comfortable if I knew that you guys had come to kind of closure
19 technically. Because I mean there's a whole lot of technical
20 stuff here that needs to get ironed out and -- so that when --
21 at the end of the day when we do look at the data we can all go
22 yep, it makes sense, it's valid, et cetera.

23 MS. EDWARDS: Well, and -- because of course what we want
24 in the end is when we -- you know, when we present a plan like
25 this out to the public and EPA and we want to get approval for

1 it we want people to be able to feel comfortable that it.....

2 MR. BARRON: Exactly.

3 MS. EDWARDS:is going to be able to demonstrate that
4 we're continuing to comply with the standards.

5 MR. BARRON: Right. The other thing, and I think it's
6 last on my list. I'm not -- and it may be in the -- hidden in
7 the small print, but I think there needs to be something in your
8 overall plan about if you're monitoring -- and I don't know --
9 again, excuse my ignorance, but I don't know if you're seeing
10 instantaneous readings or whether or not you have to go out and
11 grab the data. But is there a way to establish kind of
12 tripwires if you see that you're approaching a threshold that
13 you have ongoing routine activities that you would curtail,
14 operations that you would change if you were approaching any
15 thresholds of pollutant?

16 MR. THOMAS: We do review the data at least daily.....

17 MR. BARRON: Okay.

18 MR. THOMAS:and sometimes on a real time basis. On
19 Alpine the -- there's -- PM-2.5 and one hour NO2 are fed
20 straight into the control room and it's alarmed. So if the
21 readings get high, get elevated, the control room operators get
22 an alarm, they can see what's going on. So it is reviewed in
23 real time or at least daily there. And A pad I know it's at
24 least daily.

25 MS. CASTANO: A Pad is also -- we would get a call

1 directly if there was an exceedence at that station or if there
2 was any problem, you know, with the equipment that we weren't
3 able to get data. That's -- the reason for that is because it's
4 part of our QAP.....

5 MR. BARRON: Right.

6 MS. CASTANO:or how that process works.

7 MR. BARRON: Okay.

8 MS. CASTANO: So we would get alerted pretty much
9 immediately.

10 MR. BARRON: Okay. I just think as part of your program
11 here I think it would be good to at least clearly identify if
12 you can activities that you would curtail or actually -- and you
13 may already have them in your operating procedure manual of what
14 you're going to stop if you get close to a threshold point. And
15 I think that's kind of one of those things is we do this, again
16 we're trying to match model with actual, but what we don't want
17 is to just exceed just because we're going to keep running just
18 normal business. All right? We just -- we still want to make
19 sure the environment is protected as we do it in this manner.

20 MR. THOMAS: Yeah. You know, in the years that we've
21 collected data I can tell you where we've had issues. It's the
22 guy parking his truck next to the station.

23 MS. CASTANO: That happens.

24 MR. THOMAS: So what would we curtail? You know, move
25 your truck. That's generally because what causes the elevated

1 readings. The routine operations from the Alpine plant, it's --
2 that is 20 percent of the standard.

3 MR. BARRON: I understand that. I'm just saying as part
4 of the protocol here I think there needs to be -- just like in
5 anything else, if you reach a threshold point for whatever
6 reason, you know, guy parking the truck, whatever, you have
7 action items to take that then are immediately taken. All
8 right? So that you don't breach the threshold.

9 MR. THOMAS: Yeah, (indiscernible).

10 MR. BARRON: Just because you want to breach them. No, I
11 don't think that's the right -- I mean.....

12 MR. THOMAS: Right.

13 MR. BARRON:I know things happen, but if things
14 happen what are you going to do about it. That's what I'm
15 asking. So as part of the protocol I think that just needs to
16 be as a -- as some sort of line item in here is these are the
17 action steps taken at X and these are the next actions at Y and
18 X and Y are different thresholds.

19 But I -- you know, to me this is a great start. I like
20 the idea a lot about -- and I've said it numerous times. As a
21 old reservoir engineer I know that the first time I run a model
22 and then I have a year of production I know my model's wrong.
23 So I've got to go in and change the parameters of my model to
24 make sure that it's matching actual data because the actual data
25 is really what's happening. So we just need to make sure the

1 data is satisfactory to the agencies. All right? It's got to
2 match whatever testing protocol DEC comes up with and you guys
3 can work through and then start working the issue of how does
4 that match -- what do you need to do to the model to start
5 matching data. To me that's critical. But this is a great
6 opportunity I think. That's all I've got.

7 MS. EDWARDS: Thanks, Bill. I posted -- I sent sort of my
8 prelim -- DEC, some of DEC Air Quality's sort of preliminary
9 thoughts on the proposal out to the workgroup and they've been
10 posted as well and I don't think we need to go through them in
11 -- not as in detail, but maybe I would highlight just a couple
12 of things which I think Bill has also mentioned. And one of
13 them is, you know, on the second program element about the
14 existing air monitoring sites and again trying to figure out are
15 they the right sites for what we're trying to look at. And so a
16 lot of the detail questions that we provided sort of center
17 around, you know, sort of what do those sites represent, are
18 they representing what we think we would need for this in the
19 context of thinking about do they represent what we would need
20 for this type of program. And then also thinking about how they
21 would -- how would they translate or how could you translate
22 them to other parts of the state or other parts of the Slope
23 that don't have monitoring. So if we start to see expanded
24 drilling in other -- on other parts of the Slope or, you know,
25 if you talk about Cook Inlet how does that data translate and is

1 that going to be reasonable to assume that that -- that we could
2 do that.

3 We also submitted some questions sort of about -- on
4 program element three about the review of the data, that maybe
5 we want to -- that we thought maybe we should think about sort
6 of what that subcommittee and workgroup would do when -- and
7 what happens with the results. I think there's some implied
8 actions that come out of that, but it's not specified very well
9 so it might be a piece for us to talk about from -- more in
10 detail. Sort of like what are we going to do when we get this
11 information back from the technical folks about the monitoring
12 data.

13 Sort of the -- similar to what we just talked about on
14 thresholds on program element number four, if we have this
15 leadership team that's periodically reviewing the data, the
16 trends, doesn't really speak to yet sort of what actions would
17 happen based on what we're seeing, what would they do, how would
18 they work through that. And Brad eluded to that as well when he
19 said we -- there's really not the detail there yet.

20 On the modeling, we had a bunch of sort of really
21 technical pieces on modeling that I think depending on -- not
22 knowing exactly what you have done or what you're planning to do
23 there may be some things that could be done or looked at. And
24 that would be another -- maybe another technical discussion to
25 have with the right group of technical folks. We know that

1 there are a couple of things going on nationally with regard to
2 modeling improvements. Some of the ones coming out of the
3 American Petroleum Institute, it sounds like EPA's going to be
4 approving some of those soon perhaps. So -- but we don't know
5 how that fits into sort of the modeling that's been done to date
6 and whether it will help on the modeling side.

7 And then also sort of thinking about future, you know,
8 what we have now versus what we see in the future and how do we
9 deal with that and what do we project in, you know, as far as
10 trying to think about preventing, you know, growth that would
11 lead to problems with the ambient air quality standard. So we
12 sort of know what's been going on. Do we see bigger things
13 happening and -- or more drilling occurring?

14 And we are interested in understanding more about the
15 technology improvements. Clearly that I think is important and
16 I'm not sure we understand very clearly sort of what the
17 replacement schedules are, so I was happy to kind of get a
18 little bit of that from you today. But sort of how the
19 equipment is scheduled for replacement, how often are these
20 getting replaced and so what we can see for turnover as things
21 because we know the newer ones will be cleaner than the older
22 ones.

23 And then of course the last one, we clearly will need to
24 work with you all to better clarify what we need in order to
25 make a case to EPA and to the public that this -- what this

1 program will do and how it will protect air quality and be able
2 to defend that both in the public forum, but also to have
3 something that EPA can look at and be comfortable as it's doing
4 the job that we need it to do to protect air quality, you know,
5 maintain good air quality and protect air quality in the future.

6 So that's sort of the gist of what I had put into those --
7 that we had put into those initial questions and comments back.
8 And I think I also agree that it's -- I think there's a lot of
9 pieces here and that it's a good start and a good framework to
10 start with and I think we can build on it. So.....

11 MR. BARRON: Yeah.

12 MS. EDWARDS:that's sort of my general thoughts on
13 it.

14 MR. BARRON: Yeah. I guess as a follow-up to that, I'm
15 not seeing anything that is any major hurdle here as far as, you
16 know, not going forward with this as the primary plan. I'm not
17 seeing any big red stop signs at all. I'm saying these are some
18 discussions and dialogues we need to have to fine tune it and --
19 but otherwise this is a good way to go.

20 MS. EDWARDS: So I don't know if anybody else has any
21 thoughts I didn't cover.

22 MR. TURNER: Alice. There's a couple of issues. I went
23 and flew down to Seattle. This is Tom Turner for the phone
24 people. And I was going back over the transcripts. I'm kind of
25 looking at this from a process viewpoint and I'm going on quite

1 a bit of what you talked about, Bill, about how do you match
2 what a model does to what is practical and pragmatic. So when I
3 look back -- because I'm a process guy. I'm not an engineer. I
4 had the pleasure of working with them and sometimes people get
5 stuck and oh, this looks like it's going to work and then as you
6 get more and more data or information or you look at the big
7 picture it doesn't always work. So the couple of things that --
8 when I go through the transcript that I'm seeing is one of our
9 purposes that everybody has stated more than once, protect
10 ambient -- protect air quality. The next question, it's got to
11 pass Clean Air Act and the really gatekeeper to that is EPA.

12 Okay. So I did go down to Seattle for the pollution
13 prevention conference. I did meet with some Region 10 people in
14 EPA and said what's going on -- this is what we've got going on
15 with the drill rigs, what's going on in the rest of the Region
16 and what's happening. And so from a perspective of protecting
17 air quality the current system we have is working, but they are
18 coming up with new standards and they will continue to have new
19 standards. And this standard and this system got set 10 years
20 ago when industry came to DEC and says we don't want these
21 auxiliary engines and stuff into a Title 5 permit, we need to
22 have some type of other system, so we set up this drill rig
23 system. So things are progressing rapidly with technology and
24 stuff, so now we have new standards. We have a 10 year old tool
25 that's used to in effect show us we're protecting air quality.

1 And so when you're going to change that system and it has to be
2 defendable to EPA, which is what -- I'm kind of sitting back.
3 Because I'm the reg guy. I look at how you put this into the
4 regs which EPA generally likes. If it's in the reg they're
5 comfortable. And those -- lots of times on the other side
6 within the spirit they're like, well, if it's not in the regs
7 we're not going to do it. So, you know, it's a good place to
8 have an agreed upon rule.

9 When you look at the current approach that's working and
10 we're going to change that at all and we have to protect air
11 quality and we're using an old tool now we're coming up with,
12 well, we're going to replace it with a newer tool and that new
13 tool is going to be monitoring. But there's still other tools
14 we haven't looked at. EPA's looking at across the Region,
15 across the country about can we use Monte Carlo modeling which
16 is a different statistical approach to approach it. If we're
17 going to do a monitoring scheme they're asking questions or
18 questions will be raised about how long do you have to keep some
19 type of protection in place. Because the reason -- from one
20 perspective you can look at the reason these aren't showing any
21 violations is, well, they have a permit that's protecting the
22 air. So if you remove that permit that's protecting the air
23 what -- again, what happens when all of a sudden you see that
24 air's not being protected because of how the operations are
25 going. From an industry viewpoint I'm always hearing the

1 operational guy step in and go, well, we want flexibility
2 because they don't want to get too stuck in a system and, again,
3 a 10 year old tool.

4 So if you're going to go to a monitoring scheme the
5 question is what's the transitional period, how do you work it
6 into the regs, how do we get it past EPA. And so we have this
7 framework of monitoring, but there could be some other options.
8 You could redo the regs. Because I think Gordon's point was
9 very well taken about can you do a registration program. In
10 other words, once you remove the permitting process and you have
11 to look at this from the perspective of the public and you have
12 to look at it from the perspective of EPA protection how do we
13 come back in again to say, well, we have to tighten up emission
14 controls or EPA comes up with a new standard that all of a
15 sudden we have to come up with a new permitting regime. How do
16 we keep it within the existing system, but allow that
17 flexibility. And there's a couple of ways you might be able to
18 do this and I'm looking at what we did when we had to do best
19 available retrofit technology which all the oil folks had to get
20 kind of dragged into. And what you do is maybe you can design a
21 reg that actually says if you do certain things you get exit
22 points. So we set up a monitoring scheme. Someone shows up and
23 says I'm on high line power. You exit out because we know that
24 high line power doesn't have the same emissions. In Wyoming
25 they're starting to use natural gas engines. But you could say

1 we have certain types of technology, we have tier three, tier
2 four engines. That could be an exit out of a permitting
3 process. You can say we're going to have a monitor on site and
4 then there's some type of controls over a period of time, a year
5 or two, where the rig is registered, we get that monitoring
6 data. We see that it's not causing damage and then there's
7 something in that permit that says -- or the registration that
8 says if you violate out, like you've pointed out, can we step
9 back in and put in some type of controls.

10 If you had something like that within a reg package you
11 might be able to sell it. I think you can present it to EPA.
12 EPA's going to tell us what we can't do. They're not going to
13 tell us what we can do. And I do think, you know, the initial
14 purpose of this workgroup when you look at the history, what
15 industry's concerns are, what DEC's concerns are, to protect the
16 air quality, if you get it into -- let the technical aspects be
17 worked out, but then you present it within a regulation package
18 where you still have an assurance of being able to protect air
19 quality and give industry some flexibility that might be able to
20 fly within a sale. And I'm just -- and I know people are -- I
21 like the monitoring scheme. There's lots of elements of it that
22 work, but it's kind of a new tool and if you're going to get rid
23 of an old system that from everyone's perspective, from an
24 environmental viewpoint is working, you're going to have to
25 demonstrate that tool working for a period of time. You might

1 have to have a two year transition plan. We might have to look
2 at other elements of what else constitutes a drill rig
3 operation. And there still is the follow on question that
4 dragging these drill rigs in, in the first place is what do you
5 do with all those auxiliary engines. Do you put them into the
6 Title 5 permit which could be a good way of doing it or is there
7 another way of being able to control the emissions from those
8 auxiliary units in a different format?

9 So I've kind of been sitting back watching all this and
10 I'm kind of playing the kind of role of throwing some obvious
11 things out here, but the fundamental goal we have is how -- as a
12 group what do we do best to protect air quality that's going to
13 pass the Clean Air Act and EPA. And it's -- somewhere along the
14 line it's probably going to have to be worked into a reg or SIP.
15 I think if it's just in a SIP I don't think they'll fly for it.
16 I think we're going to have to show them this is what we're
17 doing to ensure that our monitoring scheme is in fact -- that's
18 all that's doing is telling us there isn't a problem. What
19 happens when there is? And from what I'm hearing, what I'm
20 reading in the journals, when I'm talking to my industry co-
21 parts on the other side there's a lot more activity coming. You
22 know, particularly if this tax stays in place there's a good
23 possibility there'll be significantly more investment and more
24 drilling activity on the Slope. The other side of that too is
25 you could design it within the regs where you could do it

1 regionalized. We have that within our energy permits now. So
2 Cook Inlet has a different type of system that can work for Cook
3 Inlet that's far different than the North Slope.

4 So just a couple of things that would -- could work within
5 this monitoring scheme that I think should be considered as
6 elements to be included within what will pass EPA and show
7 protection of air quality.

8 MR. BARRON: Yeah, this is Bill. You know, I appreciate
9 that. I guess I'm, you know, also kind of a process guy and I
10 look at this as trying to answer a couple of really critical
11 questions first. And to me part of the issue is, is the tool
12 that we're using in terms of the model with the change in
13 standards by EPA, you know, I think everybody was fairly
14 comfortable in working through when you had the original plan
15 and the original specifications as stipulated. When those
16 changed, that's when the wheels fell off. Right? Going to an
17 hour model, suddenly that's a change. Now we're trying to
18 demonstrate, I think in this process we're trying to demonstrate
19 over a long period of time with good data that that model
20 doesn't work. Now if EPA's coming up with new models I think
21 that kind of fits within this program that then they can say
22 here's the real data, does the new model that's being proposed,
23 is it better, is it worse, is it closer? I mean I think this is
24 an ongoing activity. I don't think -- in my mind this was not
25 the end all because we just don't know what new activities are

1 going to take place. We've got to be always thinking ahead of
2 how do we manage our process, how do we manage our equipment and
3 how do we protect the environment and still go forward. So I
4 agree with you, but I don't think this is an end all kind of
5 product.

6 MR. TURNER: Well, and that's the suggestion, it's a good
7 start, but could you -- and that's why I keep falling back to my
8 experience of what I've seen within the regulations. Because
9 that -- EPA always looks at our regs and if they don't like
10 something they say why is it in your regs. And I've gotten into
11 more discussions and all the consultants know this, all industry
12 knows it, I've sat across the table and said, well, we don't
13 have to do it because it's not in the regs. Well, then fine,
14 we'll put it into the regs. And they said, well, we don't want
15 it in the regs, we're going to do it anyhow. So we have to have
16 that insurance to do and protect the public's trust. And I do
17 think -- I'm always looking at how do you do flexibility within
18 the regs because (indiscernible) operational people can't be
19 stuck with we get to do it today and we can't do it tomorrow.

20 MR. BARRON: That's a huge issue.

21 MR. TURNER: Yeah. And so the question is, is I've seen
22 that sometimes like the -- and that's why I keep going to
23 (indiscernible). While it was difficult to go through at the
24 time, you can design regs that say if you fit this you're out.
25 If you're this way you're out. If you do a Monte Carlo which

1 might work much better for the Cook Inlet and EPA uses our
2 approvable modeling system that works. If you set up an
3 extensive modeling system on the North Slope, and that still has
4 to be determined and I am not a modeling -- a monitoring expert.
5 But if you set up a monitoring system someplace, again, what
6 would that look like, what's the transition period of time and
7 what's the kick in controls when it -- if it doesn't work. But
8 you just can't say tomorrow we're going to put up a monitoring
9 program and all the permits disappear. They're going to require
10 some type of transition or at least to demonstrate that within
11 the regs.

12 So I think if you've got the technical people starting the
13 work on what works for monitoring and at the same time I think
14 it would be important at this point -- from day one there was
15 some discussion about EPA should be involved. My experience
16 with them in these kind of issues is you're not going to get EPA
17 coming in and saying thou shalt do this. But they're not going
18 to also come in and say -- they're not going to be
19 obstructionists. They're going to help us try to find a
20 solution that helps protect air quality through their existing
21 process which is generally a reg or a SIP. And that's -- you
22 know, so somewhere along the line we need to start including
23 them. I'm concerned -- I worry about money within my field of
24 tech services. We do the fees that everyone pays and I'm always
25 looking at, well, how do I pay for something. Because I don't

1 get general funds. I have to figure out a way to charge you,
2 industry. And so the question is if you set up a monitoring
3 program how do you pay for it. The other thing that you have
4 then is when you're walking through these processes and you're
5 running it through a SIP how do you match that money for value.
6 I don't want to be putting a lot of work into this with the team
7 and the effort that everyone's been going through without
8 knowing where EPA's coming from. Because we could present it to
9 them, like no, I decided I want it blue. You know, they could
10 do color schemes on us for all we know. So the thing is I think
11 somewhere along the line, we're far enough along on this path we
12 need to start having them at least sit at the table. I
13 appreciate John here, but they've got some good people that are
14 looking at trying to find a solution for this because they know
15 that these standards are pretty touch.

16 MR. BARRON: Yeah. Well, to be clear, as I read through
17 this and I'm just skimming item seven. I mean to me it was
18 really clear here that this was not an idea of simply going to a
19 monitoring program and all permits go out the door. This to me
20 was a plan to work our way through what data have we collected,
21 how does that match the modeling, what do we need to do with the
22 modeling, what do we need to do with regs, what do we need to do
23 with SIPs, but we do it with data, we do it with knowledge, not
24 just a black box. And so to me this is a phased approach of
25 let's get good information, let's get real data, let's match it

1 with models, let's tweak models so that it starts matching the
2 data, let's work within our existing permit scheme. The permits
3 don't go away, but I think we need to work within the framework
4 that this monitoring program allows us to do and then you've got
5 a technical team, you've got a leadership team and then item
6 seven is working collectively together to try and figure out
7 what's the right approach until something new changes. So
8 that's kind of the way I'm seeing this. Am I reading that
9 wrong? Is this -- isn't that the way the approach was
10 presented?

11 MR. THOMAS: I'll give you a very longwinded answer
12 because I want to address a lot of things that Tom brought up.
13 One of the points we've been trying to make from the very
14 beginning is that the national ambient air quality standards are
15 protected and the drill rig regulatory program within the air
16 program was meant to protect the ambient air quality standards.
17 Its genesis was based on a concern the ambient air quality
18 standards were threatened. So the point we've been emphatically
19 trying to make is that we've got a lot of data, a lot of ambient
20 air quality data that shows that the ambient air quality
21 standards have not been threatened and they won't be because the
22 emission rates are just going down. So the historical data
23 we've collected shows we're okay and there's every reason to be
24 confident that it's just going to get better because the engine
25 emission rates are going down. So the point of the program, the

1 program was based on model concern that there was -- the NOx
2 could be threatened based on model output, but real data shows
3 that concern may not have been totally accurate. I mean we may
4 not have needed the program is the point we're trying to make.

5 The second point, in 99 plus percent of the cases that
6 permits have been issued for drill rigs don't impact their
7 emissions. Those rigs would emit at a certain rate, at the rate
8 they emit, with or without the permit. And if the permit's
9 lifted, if it's gone, the rig emissions will not increase. In
10 fact they'll only go down over time because of the engine
11 replacements and the higher tier engines going in. So the
12 permit program, Tom, you mentioned that it works, it protects
13 the ambient air quality. I guess I contend that it doesn't.
14 It's protected anyway by the rigs in their normal activity,
15 their normal operations. And if the program is lifted -- again,
16 and this is one of the questions that ADEC raised in the
17 document. If the permit program is lifted the emission rates
18 will not go up. And the level of activity in the fields, it's
19 not going to appreciably increase either. I mean the only thing
20 that would make the level of activity increase in the fields
21 would be economics. And, you know, we -- there's been a lot of
22 talk about a new tax regime in the state. There might be a
23 couple more rigs and I'll let Steve address this. Like for
24 Conoco we might go from a total of, what, five active rigs to
25 six or eight? So not a lot, not an appreciable increase. You

1 know, when you compare that, when you put that in perspective
2 compared to the Permian Basin, the Williston Basin where there's
3 100s and 100s of drill rigs active, you know, if we go from five
4 to eight drill rigs, you know, that's a very small amount.

5 And finally, you know, so if we made the point that the
6 national ambient air quality standards have always been
7 protected and it's only going to get better over time, though I
8 don't see the permits going away right away because there's work
9 to be done. That's been my objective is I just don't think the
10 permitting program is necessary because the rigs don't threaten
11 compliance with the ambient air quality standard, but there's
12 steps to take to get there.

13 MR. BARRON: And that's all I'm trying to say is this is a
14 primary step to figure out what we need to do in the future, not
15 necessarily flush what we've got. Keep what we've got until we
16 can prove that we need to change it. Prove that we need to
17 change it, not imply.

18 MS. CASTANO: What we should also note is that some of the
19 data that was collected at least at A Pad has been since before
20 the drill rigs were permitted. So we do have a body of data
21 that sort of addresses both of those scenarios and we have not
22 seen violations in either side of that line.

23 MS. TROST: Just -- this is Barbara and I'm with the Air
24 Monitoring group in DEC. So one thing just to remember. The
25 whole idea of why modeling came up is, for one, it allows to

1 look at different scenarios and it's usually a lot cheaper than
2 monitoring. So I was surprised to hear that there is a proposal
3 out to do additional mon -- or to do monitoring on the North
4 Slope. And while the proposal right now just focuses on
5 existing sites there are rules of what -- how monitoring is
6 performed and that is pretty much dictated. So we will have to
7 look -- and there are no decisions made yet, but we'll have to
8 look at whether or not these stations are representative and
9 whether or not they represent not just the North Slope, but if
10 they could be used for Cook Inlet. And that's going to be not
11 that easy to do. We're talking about a completely different
12 ecosystem. Without monitoring data already for the Cook Inlet
13 that we can then compare we would probably have to combine that
14 with some other modeling. Will any of that -- trying to use --
15 usually use monitoring data from an area that's that far away is
16 going to be a lot of work. I'm not saying it can't be done, but
17 we'll have to really dig into the datasets that we have and try
18 to come up with a good rationale because we'll have to defend it
19 and it has to make sense.

20 And so it could easily be that the working group sits down
21 or the technical group sits down and comes up with a need for an
22 interim three, four years of more data, more stations that would
23 be out there to cover -- to study this and to produce additional
24 data so that we can justify it. And I don't know, I mean I
25 don't set the stations up for industry, but I would assume that

1 a monitoring station is easily \$100,000.00.

2 MR. THOMAS: Easy.

3 UNIDENTIFIED FEMALE: (Indiscernible).

4 MR. TROST: So I'm just throwing that out so that people
5 are aware that before we walk through all of this is that there
6 could be quite an increase in cost additionally.

7 MR. KINDRED: This is Josh Kindred with AOGA and I think
8 -- I'm relatively new to the position. I am new to the subject
9 matter. But I think when I looked at the questions from ADEC
10 and our original proposal I think the question that's important
11 here as we move forward is from industry's perspective is the
12 cure going to be worse than the illness. I mean I think when we
13 look at this where -- I think Tom's point that the permitting
14 establishes that it works because we're not violating the
15 ambient air quality standards. I think we have a different
16 philosophy which is no, what this shows, what this data will
17 show is that the permitting isn't necessary and I -- and Brad
18 touched upon this. But ultimately our goal is can we convince
19 the agencies that we need to convince that that is true here,
20 that this is a fact that drill rigs in Alaska both currently,
21 historically and moving forward are not a concern when it comes
22 to the air quality standards. And I think what I'm hearing, and
23 I have a very elementary understanding of this issue, is that
24 what -- what's being contemplated is actually substituting the
25 modeling air permitting system with a monitoring air permitting

1 system and I don't know that that's necessarily -- and again I
2 don't speak for everyone here, but I don't know necessarily that
3 that would be considered a efficient movement. I mean I don't
4 know that that's necessarily what we want to exchange. What we
5 might be able to do is persuade the people that need to be
6 persuaded that there is no need for this air permitting and I
7 think we can do that with the data and I think that's Brad's
8 position. But I think your point is a good one which is maybe
9 this is a discussion that happens before we exert the resources
10 if we aren't necessarily having the same conversation. If
11 ultimately what you contemplate or what others here contemplate
12 is more monitoring sites, monitoring Cook Inlet, continuous
13 monitoring past the two year point or past the four year point,
14 that may alter the variables in such a way that it may no longer
15 be financially viable. So I -- and I don't know if that's a
16 conversation that we have today, but it is something that I
17 think we should keep in mind.

18 MR. TURNER: So I do want to point out the whole concept
19 that the purpose of what a permitting process on a drill rig is.
20 And I think this is an interesting discussion. I want to take a
21 little -- I come from a pollution prevention background. I
22 don't particularly think permits are our best vehicle. I'm not
23 necessarily -- and I'm not necessarily speaking for the whole
24 agency. I'm speaking from a pollution prevention perspective of
25 someone who's constantly seeing these changes. If you could

1 demonstrate that air quality is protected not only from this
2 data and give it some type of assurance that it's working that
3 doesn't necessarily mean that we have to continue the existing
4 program as it looks. And so, you know, my pollution prevention
5 background actually comes from hazardous waste. The best way to
6 avoid hazardous waste is not to have it. You know, if industry
7 is doing some of these rapidly changing technologies that are
8 reducing emissions there might be a time that we might not need
9 certain types of permits, but in order to pass the Clean Air Act
10 and get by EPA you're going to have to demonstrate it. It's
11 going to have to be defensible. And so how do you set up a
12 process of change within this reg system that we have and I
13 think that is kind of a discussion you might, you know, look at
14 with the drill rigs. We're not saying that the drill rig
15 necessarily is going to stay or go away. That was the whole
16 purpose of this. The tool's not working, monitoring's another
17 tool. Is Monte Carlo another way of doing it? Is there a
18 registration program that you can do it with? And I do think
19 that this was a -- you know, the initial discussion here got us
20 actually talking. What they discussed at the beginning of the
21 workgroup when I read the transcripts -- that's why I always
22 bring a transcriptionist is so I can go see what I said even.
23 Everyone said, well, we might need to break down to some
24 subcommittees and look at various options. Okay? So there are
25 different options here that we may be able to agree upon to do

1 what DEC needs to do. Our job is here. My job as a public
2 servant is to protect the public's trust of air quality. Your
3 job is to produce oil. But everybody here in the transcript
4 says your job is also to protect air quality. And so how do we
5 look at the data, how do you set up a system to review the data
6 to make sure that that fundamental belief and that fundamental
7 comment everybody's goal here is still intact. Because the
8 judgment here will be EPA and the Clean Air Act and if we fail
9 we'll have third party people stepping in and suing us or
10 dealing with that. I do think it's reasonable within the
11 context of this framework to be able to pursue those
12 discussions, but you're going to have to bring in the technical
13 experts like Barbara's group who are going to have to look at
14 the data which we haven't seen it all. There might be other
15 data on the Slope we haven't looked at. I mean those kind of
16 discussions probably need to take place and maybe not in the
17 context of a full workgroup meeting. Maybe you break down to
18 subcommittees. So we have to start out and come back to various
19 elements. And again, I'm going to stress my very strong opinion
20 that somewhere along the line you're going to need to bring EPA
21 in on this so we don't put a lot of effort in for something
22 that's going to be very expensive and only have to be told no,
23 you can't do it. And I think, you know, they have some good
24 technical expertise in this and they're going to tell us yeah,
25 we'll accept that. They generally tell us what they don't

1 accept when you're giving them something. So, you know, I think
2 those levels of coming to a solution here that really do need to
3 be explored a little bit deeper.

4 MR. BARRON: Yeah, and this is Bill. I -- again, you
5 know, some of the options that you threw out, like Monte Carlo.
6 That's just another model. Right? And while I enjoy -- whether
7 it's Monte Carlo or Latin hypercube or whatever.....

8 MR. TURNER: Got it.

9 MR. BARRON:whatever statistical variation you want
10 to play with it's still a model and if you can't match the model
11 with data it doesn't matter what the model is. It's always got
12 to be trued with data.

13 MR. TURNER: But the modeling does use different types of
14 data elements. It depends upon which data element everyone
15 chooses they want to use.

16 MR. BARRON: But if we've got actual data through this
17 process then -- and we can look at the Monte Carlo. I mean I
18 think that's a good idea. But again, it can't be looked at in a
19 vacuum. It can't be looked at in isolation.

20 MR. KUTERBACH: I think -- Bill, I think you're exactly
21 right. And I know we had looked at modeling of, what, the
22 permitted allowable emissions versus the actual results, but do
23 we -- have we had a detailed look at modeling the actual
24 emissions versus the actual monitoring?

25 UNIDENTIFIED MALE: Yeah.

1 MR. THOMAS: I'm not sure we've shared that data with you,
2 but we've done it.

3 MR. KUTERBACH: Okay. So I mean that would be something
4 useful to look at.

5 MR. BARRON: I mean I think that's part of the -- a
6 technical workgroup to sit down. I think that's kind of the
7 framework that you've got here is one of the elements is that
8 technical teams come together and do exactly that. I think
9 this.....

10 MR. KUTERBACH: Yeah.

11 MR. BARRON:this is kind of -- that's why I'm kind
12 of excited about this idea is before we make decisions -- and I
13 agree we need to bring EPA in. I mean even though he's in the
14 room and we're talking in third party to him, you know, I think
15 it's important that we understand and can look at ourselves in
16 the mirror and say, look, we've done our due diligence, we've
17 looked at the data, we've looked at various models. We've
18 looked at the new models coming in that are being approved and
19 authorized and reviewed and this one works better than that one
20 for our environment or these are the variables that we have to
21 tweak to get it to work. I get that. But if you can't -- you
22 know, you've got to have the data and the data's got to be
23 shared that's real and everybody's got to agree that this is
24 valid data, which is a critical element that I feel from DEC and
25 I appreciate that. You know, the data has got to be validated.

1 That's the foundation for making decisions. All right? And
2 yeah, at the same time, you know, the industry coming up with
3 new fuel, so whether it's high line power or whether it's gas,
4 whether it's, you know, the new engines. All of that stuff is
5 still going to be in the mix and it's just -- I agree with Brad.
6 It's just going to get better in terms of emissions from a rig.
7 But I'm not ready to say to one of Brad's points that we're only
8 going to increase by two to five rigs on the Slope. I mean I
9 think we've got opportunities either through -- you know, some
10 of the last lease sales we've had are targeting shale
11 developments. I mean we need to -- that train is coming and we
12 need to be prepared for it and that's why I'm excited about
13 having real data that we can match to models so that then we can
14 use those models to help predict what we might have if we do
15 have 200 wells drilled a year, you know, six to 10 new rigs just
16 to do shale development. I mean that's where my head's at. I'm
17 trying to get ahead of the problem, but I want to get ahead of
18 it with the marrying of technologies to understand what I'm
19 saying is actually technically founded and based.

20 MR. TURNER: And that's kind of what I've been looking at
21 is how do you get ahead of the technology. I agree on the
22 discussion of the data. I mean I work around engineers and
23 scientists. I've had to learn over time. Anybody who knows me
24 knows I try my best. Is how does it defend the law, how is it
25 going to look. So the second part of that is that data also has

1 to be defensible to a public scrutiny and to the EPA changes.
2 And I do think, again, you can build flexibility within the
3 existing reg process for this upcoming which I see increased
4 development that's going to take place and the changes in
5 technology. But those regs have to be flexible enough to keep a
6 framework in place to ensure that EPA is comfortable.....

7 MR. BARRON: Right.

8 MR. TURNER:with the data coming in and then we can
9 change over time. I mean my group doesn't read a new -- we get
10 through a reg package every year and we've got it down. We can
11 generally get it through -- unless industry screams a lot we can
12 generally get it out in six months. So if -- as -- I think we
13 need to start looking at those regs as a vehicle of being able
14 to.....

15 MR. BARRON: I agree.

16 MR. TURNER:keep the structure in place until such
17 time -- because that's what EPA looks at. If it's in the reg
18 they have a tendency that we just have to submit the SIP and we
19 usually can get away with -- actually get away with, but they
20 accept it. Let me reframe my term.

21 MS. EDWARDS: But I guess one -- a couple of the things
22 that I kind of just wanted to kind of highlight that I've heard
23 that I've been -- as I've been listening is a couple of things.
24 I understand that industry believes that the data that's out
25 there should support not having any real structure at all for

1 these particular activities. I'm a little concerned, as you
2 just mentioned, Bill, that when you were talking about shale oil
3 development there's a lot of effort going into trying to promote
4 additional activity. And while we have great people in the room
5 that can predict -- maybe have better crystal balls on the
6 future than I do, I got to -- you know, I need to plan for what
7 I think is at least a reasonable scenario of the future and I am
8 concerned about growth outstripping, you know, the benefits that
9 we're getting from perhaps technology improvements over time and
10 things like that.

11 But I also wanted to point out something that Tom said
12 that I think is also something that we could consider. You
13 know, I think we have a lot of technical work to do and I think
14 I hear pretty much agreement around the table that we need to do
15 this technical work and get our technical experts working on
16 this. But I also think that there are opportunities to have
17 different approaches and maybe more than one approach to dealing
18 with different situations or different parts of the state or,
19 you know, various aspects of this issue. So I think that as --
20 but I also think before we can really get there and figure out
21 what makes the most sense we do need to figure out this base
22 piece that we're talking about here and what we have, what data
23 do we have, do we have enough of it, do we need some more, do we
24 need to get different -- do we need some different monitoring
25 sites, can we translate it. All of these issues which I see as

1 being pretty hyper technical issues in some respects, we need to
2 work through those and get a little more better feel for that.
3 But I also think that as a group as we look towards a process
4 for trying to improve upon the situation we have now, you know,
5 that there are a number of different things we can do, not only
6 with models but with different approaches. And they don't --
7 you know, we said we wanted to come up with sort of a global
8 policy. That may not be where we can end up and that's okay.
9 But I think if flexibility is what's needed then we need to make
10 sure we have the right arsenal of tools available to make the
11 case that whatever the activity is we're protecting air quality,
12 that we've got adequate sidebars in place to protect for the
13 future and the oar that we have threshold or triggers that we
14 can use to try and deal with situations that come up. So I
15 think we have the framework to start that process and I think
16 I'm hearing great -- lots of great ideas around the table, so.

17 MR. BARRON: Yeah, I'm in accord with that summary. I
18 mean we've got to get the base first and understand where we go
19 from there. I'm not prepared at this juncture to say which way
20 we're going to go. I need to see data. And I agree, we need to
21 keep options open because we may decide after looking at the
22 data that maybe in fact we do need a site in Kenai somewhere.
23 You know, I'm not -- and we'll just figure out how to do that.
24 But again, it's -- you know, we've got to be transparent and
25 we've got to make sure that everybody appreciates what we're

1 doing and how we're doing it and that it's an open process.
2 Because we -- at the end of the day they are going to be regs.
3 But again, regs need to be flexible because things change. But
4 what you don't want to do is have something in place that is
5 based -- fundamentally based on either bad data or no data. And
6 it's -- then it becomes arbitrary and whimsical and that's what
7 is really bad when you're talking about something this
8 technical.

9 MS. EDWARDS: Before anyone else chimes in I want to check
10 in with our folks on the phone, make sure -- whether anybody has
11 anything they want to add from -- on the phone. Gordon
12 (indiscernible).

13 MR. BROWER: Yeah, this is Gordon. Who all is on the
14 phone other than myself?

15 MS. EDWARDS: Well, a whole host of folks. So we have
16 Eric from Caterpillar. We've got Sally Ryan, Alison Cook from
17 BP, Tom Damiana, Ann Mason, Al Trbovich, Rebecca Smith. I don't
18 know if we've had anybody else join. So there's a number of
19 folks on the phone.

20 MR. BROWER: All right.

21 MS. EDWARDS: But you're the only workgroup member on the
22 phone at the moment. I haven't heard Mike Munger join in yet.

23 MR. BROWER: All right. So I do have some thoughts
24 though, but I did get my email back up and I read through the
25 Alliance and AOGA draft outline for the Alaska transportable

1 drill rig air quality management approach. And the purpose of
2 it is for the existing mechanism or minor sort of permitting of
3 drill rigs, to replace that with a program of -- that relies on
4 air quality monitoring data elective as an active role in
5 (indiscernible) and manage actual impacts and making in
6 compliance with the national air quality standards. There's
7 some concerns that I see with that, that way of managing,
8 because you would not be readily available to determine -- if
9 there was a exceedence detected, but where that came from. And
10 -- because drill rigs are mobile and an active oil field in the
11 arctic up here has many stationary sources. The CPS and every
12 one of those areas have these flaring jets NS things like that
13 and that -- to me that would be the most concerning of managing
14 a problem. And that's my own personal view because I've taken
15 videos of those flares and then seen the impacts of those flares
16 200 miles to the west or -- yeah, to the west where my cabin is
17 and seeing this arctic haze. And I still think that we need to
18 determine if there is a problem. I had seen data or information
19 that we had folks collect information from the lower 48
20 permitting drill rigs, minding that there are some subtle
21 differences in the -- in these drill rigs, but they accomplish
22 basically the same thing. That -- and in other states that the
23 permitting was not there and not seen as a problem, but in
24 comparison to the number of rigs in Alaska. And that's kind of
25 concerning to me that we -- we're going to set out to regulate

1 something we would have to believe that there is a problem that
2 we need to regulate. But having such few rigs in Alaska that
3 participate the -- you know, I had thought of different ways of
4 making it more flexible (indiscernible) capable.

5 Those are my views and I tend to think that to regulate
6 something we look at it holistically and if there is a major
7 issue with it that's what we -- that's how we deal with it. And
8 we had come to some conclusion about -- and I'm trying to recall
9 back to some of the other meetings that we had that -- how did
10 we get in this position to begin with and was it hastily
11 determined that these Title 5 and these minor source permitting
12 was the way to go or was it forced upon us in some way by EPA.

13 MS. EDWARDS: Gordon.

14 MR. BROWER: I still think there's alternative ways of
15 doing this and those alternative ways would satisfy the EPA too
16 and making it less cumbersome. At the same time I still do have
17 concerns about the shale oil possibilities on conventional
18 development and what we've seen in the lower 48, but I think we
19 can still capture those when the need arises. I hope some of
20 the -- I'm getting this right on this proposal here. It seems
21 to me it would change from minor source permitting to just a
22 mere monitoring concept and I just see a few issues that will
23 arise from monitoring that in an existing gas field and those
24 sources would -- other sources in the field that could affect
25 the drill rig would I think be some of those concerns. And I'll

1 stop at that.

2 MS. EDWARDS: Thanks, Gordon. So Gordon, if I understood
3 correctly, so you're thinking if we went to more of a monitoring
4 approach that one of the concerns would be how do you know what
5 to take action on to correct a problem if you saw it. Because
6 you have the rigs within the construct of the overall field, so
7 is there a way to know what activity is actually creating the
8 high concentration. Is that sort of the idea behind your
9 concern?

10 MR. BROWER: Yeah. I looked at -- I was reading through
11 this and I think that's the gist of the topic is this proposal
12 and looking at air monitoring outside of Nuiqsit and those
13 things. You know, many of the public hearings I have attended
14 over there that had concerns the topic would come up as what's
15 all this yellow haze, arctic haze looking stuff out here and
16 who's -- that would be their main concern and I couldn't think
17 that all that stuff was coming from the drill rig and the
18 exploration activity. And in fact a consultant commissioned
19 from the Borough to try to review sources that would affect
20 possible arctic haze conditions up here and we had videos of
21 this stuff that was videotaped for 30 miles and where it came
22 from, I think CTF-2 or something like that in Deadhorse and it
23 was primarily caused by flaring and those sources.

24 MS. EDWARDS: So if I might follow on to Gordon's question
25 maybe for Brad or Alejandra or Josh. When you see a -- if we

1 had this concept of looking at, you know, some sort of a
2 threshold that would stimulate an action of some sort, you said
3 there's a feedback mechanism back into the operations from the
4 monitoring site. So how do you figure out what's -- committee,
5 can you explain maybe how -- I don't know if you're the right
6 people. Can you explain, committee, to Gordon and myself how
7 that actually works so that you know sort of where you would
8 need to take an action?

9 MR. THOMAS: Well, we've developed a good -- excuse me, a
10 good baseline of what the ambient concentration should look
11 like. You know, at CD-1 we've been monitoring now for over a
12 year, so we know, you know, what to expect at the station. And
13 early in the year this year we did see some elevated particulate
14 matter readings. The alarms went off, so we concluded we had an
15 unusual condition. So we investigated and found a
16 malfunctioning boiler. So we know what the readings should look
17 like based on the track record we've developed and when elevated
18 concentrations occur we just look for what's unusual and we find
19 it.

20 MS. EDWARDS: So in that case, you know, you might -- it
21 might be unusual, it might be -- it could be anything, but you
22 just go look for the source of the potential anomaly. Okay.

23 MR. THOMAS: Yeah.

24 MS. CASTANO: And Alison, if you're still on the phone, I
25 believe we have cameras, right.....

1 MR. THOMAS: Yeah, we do.

2 MS. CASTANO:near those stations or on the stations?
3 So in the event that we do see a false reading maybe from
4 somebody parking a truck too close or bringing some equipment on
5 that isn't supposed to be right at the intake we would be able
6 to know whether that was a fake positive or not.

7 MR. THOMAS: Right.

8 MS. CASTANO: Is that right, Alison?

9 MS. COOK: We don't currently have cameras, but because
10 we're monitoring, you know, basically real time we get a report.
11 And this just happened about a week ago. We got a report of
12 high readings and we sent our environmental advisor on site. He
13 took a picture of some equipment that shouldn't have been staged
14 next to the monitoring station and basically we got the
15 equipment that was -- should not have been staged near the
16 station moved. But it's because we're getting real time data
17 that's sort of viewed at a minimum on a daily basis that we can
18 respond quickly when there's a need. And we are looking at
19 putting -- installing cameras, but we don't currently have them
20 installed.

21 MR. THOMAS: I'm glad you said that, Alejandra, because
22 the station we have.....

23 MS. CASTANO: Yours I think do, yeah. And as Alison said,
24 I mean we have eyes that we can literally send out there on a
25 moment's notice to go check out what -- where the source would

1 be coming from.

2 MS. EDWARDS: Gordon, did you have anything -- did you
3 have any follow up or any other thoughts? I feel like maybe I
4 cut you off here a minute ago.

5 MR. BROWER: No, but it's good to listen and hear what --
6 the dialogue and it's -- it kind of turns the squirrel cage
7 around. So but it's good to listen. I think meeting have been
8 too far in between here. Went to fish camp too long and it's --
9 it takes a little while for me to get caught up again. But
10 trying to participate and reading the material, so.

11 MS. EDWARDS: Thanks, Gordon. Can I ask a -- just a quick
12 question of the room? Because we've been talking for about an
13 hour and a half now, so do you feel like we're kind of at a
14 point where we might want to take a break?

15 UNIDENTIFIED MALE: Yes.

16 UNIDENTIFIED FEMALE: That's good.

17 MS. EDWARDS: Okay. So for the folks on the phone, we're
18 going to take -- is 15 minutes enough?

19 MR. BARRON: Sounds good.

20 MS. EDWARDS: We're going to take a 15 minute break. I'm
21 going to put you all on mute on our end so you don't have to
22 listen to all the room noise, but we'll be back about -- I guess
23 it would be about quarter till 3:00.

24 MR. BROWER: Okay. Sounds good.

25 THE REPORTER: Off the record at 2:31.

1 (Off record at 2:31 p.m.)

2 (On record at 2:47 p.m.)

3 THE REPORTER: Okay. We're back on the record at 2:47.

4 MS. EDWARDS: Okay. Great. So we have the group back
5 together here in the room. I just want to check in with folks
6 on the phone. Did we have anybody new join on the phone? Okay.
7 So Bill and Greg and Josh, I think what we had thought what we
8 would do next is -- I mean the discussion so far has been good.
9 I guess do we want to start moving towards where do we want to
10 go next with the group and the activities and what we see as
11 sort of next steps or.....

12 MR. BARRON: Yeah, I think so.

13 MS. EDWARDS:how to proceed?

14 MR. BARRON: Yeah.

15 MS. EDWARDS: Okay. So I'm going to open the floor a
16 little bit here. It seems -- but I will make I guess one
17 initial thought. It seems pretty clear to me we need to get a
18 group of technical people together. I'm not quite sure how we
19 identify who all those people are. I mean I know we can do
20 that, from our side of DEC we can figure out who to bring to the
21 table. I don't know on industry side or if there's anybody --
22 other folks that we want to have pulled in on the technical
23 side. But it seems like we need to figure out how to constitute
24 that group and then figure out sort of what do we want to have
25 them do. I think we have a -- at least an outline of that in

1 the proposal.

2 MR. BARRON: Right. I think so too.

3 MS. EDWARDS: But then how long do we think it's going to
4 actually take to do that and which may drive sort of our next
5 steps as a.....

6 MR. BARRON: Yep.

7 MS. EDWARDS:bigger group.

8 MR. BARRON: Yep.

9 MS. EDWARDS: So I'll just -- I'll start there and see
10 what you guys think.

11 MS. THOMAS: Well, the -- we're talking about one group to
12 start with or more than one group?

13 MS. EDWARDS: Well, I guess that's the question. I know
14 we need somebody.....

15 MR. BARRON: Let's talk about it.

16 MS. EDWARDS: We can talk about it. I know we at least
17 need a group to look at the monitoring data that you already
18 have.

19 MR. BARRON: Yeah. So that group needs to look at the
20 data and look at how the data was collected and whether it's,
21 you know.....

22 MS. EDWARDS: Where the sites are and what they
23 represented and that sort of stuff.

24 MR. BARRON: The sites are and the validity of the data
25 and the quality of the data. I mean it's just got to be a QA QC

1 of what you've already got. I think, you know, ground truth in
2 it is important.

3 MR. THOMAS: Let me shift you to steer, Barbara. There's
4 a couple of ways we could handle that. We could supply you all
5 the data, all the objectives around the monitoring associated
6 with the data and you could review it on your own or we could
7 give it to you and we could come together every other week to
8 discuss the progress. A goal maybe of within four to six weeks
9 including -- I like the latter approach better.
10 (Indiscernible).

11 MS. TROST: Well, I think on the other one we can do
12 milestones as well. But it depends on how much data you have in
13 terms of -- and then we'll have to figure out who else would be
14 involved on our side and who else you have in there. You know,
15 six weeks puts it right at the end of the year. We have kind of
16 a busy season. So -- but yeah, I think we should maybe see what
17 you pull together and then talk about some of the milestones.
18 It's hard to commit when we don't know, when I don't know how
19 much you're dumping on me.

20 MR. THOMAS: Okay.

21 MR. BARRON: You know, I -- let me -- I'm struggling here
22 a bit. I don't think that -- and again, I'm real flexible here.
23 This is open dialogue time. I'm not comfortable with just DEC
24 in isolation looking at the data. I think it's real important
25 that the industry and the regulatory bodies come together to

1 look at that data together and be able to have the dialogue
2 about what is it, where did it come from.

3 MS. TROST: That always happens.

4 MR. BARRON: Okay. But that's not.....

5 MS. TROST: I mean we're not just -- I mean that's sort of
6 what I think.....

7 MR. BARRON:that's not what I was hearing, so I just
8 want to make sure.

9 MS. TROST: Well, I guess I -- that is sort of a given
10 because they're -- you know, just looking at spreadsheets is not
11 going to give us what we need.

12 MR. BARRON: Okay. I just.....

13 MS. EDWARDS: So I mean it.....

14 MR. BARRON:thank you. I just wanted to clarify.

15 MS. EDWARDS: So it sounds like what we really need is --
16 I mean the folks who haven't seen the data or aren't familiar
17 with the data need the opportunity to get it. Now whether or
18 not -- and look at it and then probably ask some questions back
19 on various things. There's a couple ways you could do that, but
20 it seems like you would have some key folks on the industry side
21 that know those datasets or helped collect that data that could
22 then, you know, either help introduce the data and then let
23 folks go back and look at it and maybe come back together to
24 deal with questions or things that come up. So it seems like we
25 need to identify who those key people are for the datasets that

1 you have and we can identify the people on our side that
2 would.....

3 MS. TROST: Well, I would just say once you can send the
4 data, however you're -- that works best then we can set up
5 another call with whoever we decide who needs to be -- look at
6 what the volume is and then decide on a timetable for work. I
7 mean that makes more sense to me than -- I mean we can figure
8 out the first meeting too if that helps, but not knowing who's
9 going to be involved it might be a little bit more difficult.

10 MR. KUTERBACH: Would this include the monitoring modeling
11 data comparison that hasn't been shared yet?

12 MS. EDWARDS: Well, and I guess that's the other question
13 is, is if we have one group that's looking at the monitoring
14 data then do we need another group that's looking at the
15 modeling pieces that already exist.

16 MR. KUTERBACH: Well, and that's my question is, is it one
17 group or is it two.

18 MS. EDWARDS: Or is it two. And that -- I think that is
19 the question that maybe Brad was getting at was is it two
20 different groups of people or is it one group of people.

21 MR. THOMAS: There's -- I think there are three technical
22 tasks.

23 MS. EDWARDS: Okay.

24 MR. THOMAS: One is to review the monitoring data that's
25 been collected as well as what's being collected. One is to

1 take a look at the modeling and the third task is to get a sense
2 of drilling activities looking at (indiscernible) moving
3 forward. Right? Is there any other.....

4 MR. BARRON: No, you know, I think it's -- I mean maybe
5 I'll insert a two A.

6 MR. THOMAS: Okay.

7 MR. BARRON: All right? You look at the data you've got,
8 you look at the model you've got. Somewhere along the line you
9 got to marry those two together and that's my two A. And then
10 do a cross correlation between a -- to me it's the same group
11 working through a process that says this is what we've got, this
12 is how it looks and how do those match. Is there a way then to
13 -- and in my mind is -- and at the same time you've got another
14 group setting -- or agreeing that how do you monitor going
15 forward and maybe that's the same technical group. Different
16 objective, but same probably technical group. And then looking
17 at alternatives, is there a new model, is -- can we tweak the
18 model we've got, what kind of activities need to take place
19 modeling wise to get it to match the data. Is that even
20 possible. And is there some things you can just say it's not
21 going to work and you pitch it. I mean that doesn't -- that
22 might happen. Or it might be a new model that comes up that
23 this technical team looks at. But to me you've got to look at
24 what you've got, what influenced that, I mean your estranged
25 parking or a -- you know, a bad flare or whatever. I mean you

1 get all that cataloged. You look at then the model, match the
2 two and then work your way through that. I mean I -- and that
3 -- to your objective they're showing that maybe there shouldn't
4 be any permitting maybe as an end result because of what you're
5 showing. But I mean it's still part of a systematic
6 understanding of you narrow down what are the known knowns. All
7 right? I mean and the database of known knowns becomes bigger
8 and bigger and bigger and that's a good thing.

9 MR. THOMAS: From -- I'll just put this on the table to
10 start. From, you know, the question how many groups, perhaps
11 just one to do all that because from our side I think we could
12 do this with the same group of people.

13 MS. CASTANO: With the same people, for us anyway, yeah.

14 MR. THOMAS: Yeah.

15 MR. BARRON: Yep. That's what I'm thinking.

16 MR. THOMAS: (Indiscernible) same people. You guys, you
17 might want to move people in and out because you've got modeling
18 experts and monitoring experts.

19 MR. BARRON: Could be different. I mean I think it's one
20 -- I think you have a -- one technical sub-team that then
21 reports back to this group, right, whenever our periodic
22 meetings are as to how the sub-team -- a technical team review
23 of where do they stand, what are they seeing, what -- do they
24 are they making any preliminary conclusions, is there any
25 gotchas out there that we're -- that they're seeing and then

1 maybe kind of do a quick segway. Maybe there's another sub-team
2 that is technology. All right? Is there -- are there new
3 things on the horizon from a modeling things? And while the
4 technical team is working through the data maybe there's a
5 technology team that's looking at what other things are out
6 there that nobody has heard or seen yet or maybe it's stuff that
7 EPA is bringing to the table that can be interfused. But I
8 think work the data first.

9 MR. THOMAS: Yeah.

10 MS. EDWARDS: So if we have one group and we can identify
11 who those monitoring and modeling experts are how soon could we
12 pull that group together?

13 MR. THOMAS: I would propose the first week of December.

14 MR. KUTERBACH: And it's going to depend on -- I mean
15 obviously if we're going to have a modeling input that's
16 primarily Alan Schuler. Because we need.....

17 MR. THOMAS: (Indiscernible) Arizona?

18 MR. KUTERBACH: Who's a very limited resource for us and
19 we have several important PSD projects that we're working on as
20 well. So I wouldn't want him to commit him to be at any
21 particular meeting until we check the workload schedule and see
22 where the other important projects that we have going are in his
23 schedule.

24 MS. EDWARDS: Right.

25 MR. BROWER: Sorry to leave. This is Gordon. I'm back.

1 MS. EDWARDS: Hi, Gordon. Welcome back. We were just --
2 Gordon, we were just talking about.....

3 MR. BROWER: (Indiscernible).

4 MS. EDWRADS:what we might do next and we were
5 talking about perhaps getting a technical sub-team together to
6 look at the monitoring and modeling aspects of this which would
7 be comprised of folks from DEC and from industry and then have
8 that group sort of start working through looking at the existing
9 data, the modeling and other data that already exists and then
10 reporting back to us at -- the workgroup at, you know, our
11 regular intervals and starting there. We also talked about the
12 potential of having a second sort of team that's looking more at
13 technology issues, upcoming technologies and new things that are
14 coming down the pike. So that's sort of where we're at. We
15 were just talking about sort of timing for this first group and
16 what that would look like with resources and workload and things
17 like that.

18 MR. THOMAS: Yeah, I'm thinking this might be a bite that
19 we can take care of by the end of January. Does that seem
20 feasible?

21 MS. TROST: Well, I don't know how much data you have that
22 we haven't seen yet.

23 MR. THOMAS: Okay.

24 MS. TROST: So that -- I guess that's my only hesitation.
25 And John, I think we -- maybe on the data side we could get

1 started and then pull Alan in as.....

2 MR. KUTERBACH: Yeah. I mean Alan maybe -- you know, he
3 may have a window of availability which he could fit right in
4 even at the beginning of December. I just don't know. I don't
5 want to commit him to anything until I see his schedule.

6 MS. TROST: Yeah.

7 MR. THOMAS: We're talking about I think five or six days.
8 That's.....

9 MS. TROST: Okay.

10 MR. THOMAS: So if Alan does have difficulty would there
11 be a fallback, an alternative?

12 MS. EDWARDS: I mean we might be able to use Dee to --
13 Deanna for -- to a certain point. She doesn't have as much
14 permit modeling background, but she does have modeling expertise
15 and she might be able to work some issues and then go to Alan as
16 needed maybe for assistance if we were running into some timing
17 issues.

18 MR. BARRON: Is there somebody that EPA can offer up? I
19 mean it's a good -- maybe this is a good opportunity to bring
20 EPA to the table in terms of a modeling position.

21 MS. EDWARDS: Well, we could talk with -- I could talk
22 with Kate Kelly at the Region and see if we can get anybody from
23 their technical folks that might be a good fit that has time to
24 work with us. They certainly have modeling and monitoring
25 experts down there too.

1 MR. THOMAS: He's got one model. Right? I think he's got
2 the whole month of December.

3 MS. EDWARDS: There's a couple modelers down there.

4 MR. THOMAS: Are there?

5 MS. EDWARDS: Yeah.

6 UNIDENTIFIED MALE: (Indiscernible), but permit law.

7 MS. EDWARDS: Yeah, there's -- I mean there's a handful.
8 They're pretty busy, but there's also monitoring folks down
9 there too. And so we can ask. I don't know what their
10 availability will be.

11 MR. THOMAS: Okay.

12 MS. EDWARDS: But I agree that that might be a very useful
13 thing actually to do, especially if in the end whatever we come
14 up with they have to look at anyway. So if they have the time
15 to interact with us now that might be useful.

16 MR. THOMAS: So how about, you know, I'll work with AOGA
17 and we can define our participants and we -- we'll pull together
18 over the next two weeks all the datasets and all the modeling
19 and be prepared to meet with you guys the first week of December
20 to go into next steps and define work tasks, who and the
21 milestones.....

22 UNIDENTIFIED FEMALE: Okay.

23 MR. THOMAS:and maybe set an end date. Does that
24 sound good to you all?

25 UNIDENTIFIED MALE: Sounds good to me?

1 MR. THOMAS: Sound good?

2 MS. EDWARDS: Okay. Sounds good.

3 UNIDENTIFIED FEMALE: I'm fine with it, yeah.

4 MR. TURNER: So besides the technical aspect, it's been my
5 experience that whatever the technical people come up with has
6 to be worked in and be dependable for EPA and figure out how
7 that works. So we might need, for lack of other words, a reg or
8 legal framework group to kind of say how is this going to fit.
9 And if there is going to be some of the desires that have been
10 put out on the table of this data proving it what's going to
11 pass muster for EPA in the public. And so we could come up with
12 draft language for the regs, what they could look like, what a
13 transition might be looking like.

14 MR. BARRON: That's exactly where I was going to propose
15 the next team to be is kind of a regs team. And projecting.

16 MR. TURNER: Yeah, it would be my group. I mean we could
17 take the lead on that. We could probably draft language. We'd
18 need to maybe run some of that through EPA. I have to be
19 cautious about the public process and we'll have to talk to
20 legal about how I draft -- I mean sometimes they have to draft
21 language in a public work setting. So I'll have to look at how
22 to do that before I bring industry's concern. If I -- I think
23 if I draft language and present it at the workgroup I might be
24 okay. So I'm not sure how that.....

25 MS. EDWARDS: Well, we could.....

1 UNIDENTIFIED MALE: You can only work a straw man.

2 MS. EDWARDS: You can work a straw proposal.

3 MR. TURNER: Okay. Thank you.

4 MS. EDWARDS: We don't necessarily have to get it into
5 perfect regulatory.

6 MR. TURNER: Okay.

7 MS. EDWARDS: I think the idea it to come up with the
8 concepts or options and concepts of, you know, ideas that we
9 could look at maybe trying to turn into.....

10 MR. BARRON: Yeah, I guess what's in.....

11 MS. EDWARDS:something else.

12 MR. BARRON:in my head. I'm not trying to work your
13 business. I think of a flowchart, you know.

14 MR. THOMAS: Okay.

15 MR. BARRON: You know, if this is the result is it yes or
16 no and if that's the branch what happens, if this is the branch
17 what happens. I mean kind of scenario plan out a flowchart of
18 opportunities.

19 MR. TURNER: So the -- there would be a regulation
20 technical group, in other words. But we'll look at where it
21 fits within our existing regs, what a straw man draft could look
22 like, and then I -- we could present a flowchart about how that
23 would work. And what I'm looking at is a flowchart about how
24 the regs -- I don't know how to phrase this. How the flowchart
25 moves for the end result. You know, because I'm trying to

1 figure out how to make regs flexible. Until I give it some
2 thought I'll have to look at (indiscernible).

3 MR. BARRON: No. Yeah, I agree. Yeah.

4 MS. CASTANO: So you'd be looking at regulations and
5 possibly the SIP as well?

6 MR. TURNER: Correct.

7 MR. BARRON: Right.

8 MS. CASTANO: As a package. Okay.

9 MR. TURNER: But I'm also thinking about, you know, within
10 the -- because it has to be a defensible situation. If in fact,
11 and I don't know what the technical data's going to prove, but I
12 have to -- we have to start thinking about what's the end
13 results of the technical data discussion. Because that's the
14 thing with regs, you have to take -- you know, that's the
15 interesting thing about air quality. Every time I'm dealing
16 with someone in regs it's a chemical engineer or an attorney.
17 So I have to figure out how to get that technical aspect within
18 the regs. If the monitoring data's showing one thing how does
19 that then get written into a reg so that reg has some
20 flexibility.

21 MR. BARRON: Right.

22 MR. TURNER: And I don't know that answer until I look at
23 it.

24 MR. BARRON: Right.

25 MS. EDWARDS: And I guess one of the things I'm thinking

1 about here because I don't want to prejudge exactly what comes
2 out of the technical modeling monitoring discussion either, but
3 I think maybe if we approach it to start with as sort of looking
4 at from the regulatory or the SIP perspective sort of what sorts
5 of options would be viable, what -- you know, what, you know,
6 sorts of things would -- you might work, what kinds of options
7 might be there. Nothing that's, you know, concrete, set in
8 stone because we don't -- you know, I don't want to prejudge
9 what comes out of the technical side either on the monitoring
10 and modeling data. But maybe we just start laying out what
11 sorts of things we might look at depending on what kinds of
12 outcomes we might get from that process.

13 MR. BARRON: Right. No, that's exactly right. And I
14 think -- but part of one of the branches is, is there -- are
15 there thresholds of activity that might trip a different level.
16 And again, just trying to think, you know, wildly optimistic
17 about oil and gas development in the Alaskan wilderness and
18 domestic locations in Kenai. You know, if we're robustly
19 successful is there -- are there thresholds where something else
20 takes place. I mean that just to me is a little box, yes, no,
21 at this juncture.

22 MR. THOMAS: Now the groups and tasks we're talking now,
23 would that occur after we get done with the technical review
24 that we've been talking about or would that be parallel?

25 MR. BARRON: I think it'd be parallel.

1 MS. EDWARDS: That's what we were -- I was thinking -- I'm
2 thinking people are talking about doing it in parallel. So I
3 don't know -- that's why I made the comment that I don't want to
4 fit whatever they're doing to prejudge the outcome of what's
5 coming out of the technical side, but I think you have to look
6 at what the different options are that might come out of the
7 technical side. I think there's a couple. You know, you -- we
8 could find the data's -- we think the data's sufficient to
9 support that these just aren't -- there's no problem here to
10 worry about. We could have another that says, you know, we
11 think we need more work in that area. You know.....

12 MR. BARRON: Sometimes yes, sometimes no.

13 MS. EDWARDS: Sometimes yes, sometimes -- you know, I
14 don't know.

15 MR. BARRON: And then some -- and always yes. Right? I
16 mean.....

17 MS. EDWARDS: There's sort of.....

18 MR. BARRON:the three branches and then what do you
19 do after those three branches I mean in concept?

20 MS. EDWARDS: To just try and at least start thinking
21 about concepts. Maybe not getting them to the detail, you know,
22 not knowing where that will -- where the technical piece comes
23 up, the monitoring piece -- modeling piece comes out. You know,
24 maybe it's more conceptual to start with and then they can --
25 their -- they could work details once we get a little farther

1 along.

2 MR. KUTERBACH: Do we have specific questions we want to
3 make sure that the technical group answers as a result of their
4 review?

5 MS. EDWARDS: On the monitoring and modeling?

6 MR. KUTERBACH: Yeah. So for instance.....

7 MS. EDWARDS: I had a whole list of them. But.....

8 MR. KUTERBACH: I mean and is that all you want to work
9 through?

10 MS. EDWARDS: And I don't know if that's the whole -- I
11 don't know if that's -- that list is, you know, accurate for
12 everybody, but I mean I think we did put together some of those
13 ideas.

14 MR. KUTERBACH: Because the way I see the technical folks
15 reviewing this is they're going to pass judgment on the quality
16 of the data and what it is reasonable for that data to
17 represent. Is that fair, is that something that could be done,
18 Barbara, for this? Not seeing -- I know you haven't seen.....

19 MS. TROST: No, I haven't seen it.

20 MR. KUTERBACH:the data yet. But given that our
21 technical people are very cautious about saying yes, you can do
22 this, or no, you can do that.

23 MS. TROST: I think we should be able to come up with
24 something that is sort of scoping out what the data represents
25 and where we would be stretching it.

1 MR. KUTERBACH: Okay. And then at that -- right. And at
2 that point since there is a continuum there and it becomes a
3 policy choice at that is, you know, how much uncertainty in this
4 are you going to accept as a matter of the State policy dealing
5 with it one way or the other. I guess that would come back to
6 the full committee?

7 MR. BARRON: Yeah, I would think so. But I also think
8 that as you put those boundaries of uncertainty on it that might
9 be the focus for the monitoring phase that we're about to go
10 into to help address those gaps. I mean that to me is a real
11 good way of if you know what you've got in history are there
12 gaps that you need to fill. And the only way to do that is to
13 look at what you've got and then you can adjust your -- the plan
14 of future monitoring to try and correct that. That's a real
15 critical step.

16 MS. EDWARDS: So could this technical group perhaps --
17 when you see -- you know, if you come up and say okay, well, we
18 think there's these gaps or here's what we think these monitors
19 represent and would it be reasonable to think that that
20 technical group could come up with some ideas or recommendations
21 or options then to -- based on their findings related to the
22 data quality representative, all of that stuff, on how we might
23 fill those if we wanted to move forward with a process to, you
24 know, kind of fill out that dataset? Does that seem.....

25 MR. THOMAS: That would be the objective.

1 MS. EDWARDS: That would be the objective, right, would be
2 to get those options or recommendations back to the bigger
3 workgroup? Along with whatever sort of the evaluation of the
4 data is.

5 MS. THOMAS: So regarding, John, the questions that the
6 technical working group, I've got this written down as group
7 one, that they would answer -- you know, obviously the list
8 that you had provided last week would be one step and if you've
9 got any others just, you know, give them to Barbara along with
10 those.

11 MR. TURNER: So back to John's question on specific
12 questions. Based on my experience of dealing with different
13 technical groups and often -- you know, I'm not a technical
14 person. I've seen them I shouldn't say get in the weeds, but
15 sometimes they're so familiar with the language and the terms
16 they're not thinking a little bit outside of what they need to
17 look at. So if people have questions they could route them to
18 Jeanne and we can accumulate those questions and just simply
19 submit them to the technical group. So if somebody.....

20 UNIDENTIFIED MALE: I think that's a real good idea.

21 MR. TURNER:has a question that's outside the room
22 and just say, hey, I want to know this, we'll give it to them.
23 Because it's been my experience technical people right away get
24 in and start seeing the technical aspects of it and maybe not
25 looking at it from another perspective. And we have to consider

1 the public's perspective on how this is going to get answered.

2 MS. EDWARDS: So if you do have -- I guess so that seems
3 like a reasonable approach. So if there are other questions out
4 there that people have on the monitoring data or that workgroup
5 members have on the monitoring data or the modeling approaches
6 that they would like to have the group look at or consider then
7 get them to Jeanne and she'll make sure they get them -- they
8 get to the group.

9 MR. TURNER: Before that December meeting.

10 MS. EDWARDS: Yeah, preferably before the December.....

11 MR. TURNER: (Indiscernible).

12 MS. EDWARDS:December meeting. So probably in the
13 next two, three weeks. Right?

14 MR. THOMAS: Two weeks, yeah.

15 MS. EDWARDS: Yeah.

16 MR. BARRON: I think that's good, yeah.

17 MR. THOMAS: So group two, is there -- there would be a
18 second group assembled maybe now?

19 MS. EDWARDS: For which group?

20 MR. THOMAS: That's what I'm asking you. Because I heard
21 talk about another group, another sub-group to.....

22 MR. BARRON: Well, we actually talked about two more sub-
23 groups. So let's talk about the one that we can talk about
24 intelligently and that would be the regs group. I mean to me
25 that would be the next subgroup that can start flushing out

1 optionalty.

2 MR. TURNER: Yeah, I made a quick little list of just
3 things that the reg group will look at which is, you know, where
4 in the regs is this going to sit because that's always a concern
5 is like what part of the regs, (indiscernible) section or not.
6 What kind of measurements, thresholds would be required. That
7 may not be answered until we get the technical stuff. I think
8 we could come up with a straw man option of where this sits,
9 what it looks like, where different options are. I mean I kind
10 of have a framework in my head, so honestly it's kind of my
11 thought of architect on it and then some type of a flowchart.
12 And we could put that on paper so people can react to a straw
13 man (indiscernible).

14 MR. BARRON: So who's the members of this.....

15 MS. EDWARDS: That was my question. I mean I.....

16 MR. BARRON:something to.....

17 MS. EDWARDS:I know we can put people to that effort
18 obviously, but who else do you think would be -- do you -- are
19 there folks on industry side or other -- from other aspects that
20 would be.....

21 MR. BARRON: You know, I think it would be valuable to
22 have somebody on the industry side. I don't know how many
23 players you want to commit, but I think that would be real
24 important to start that process.

25 MR. THOMAS: I wonder if it wouldn't be perhaps even

1 attorneys.

2 MS. EDWARDS: Well, I had that thought too is whether or
3 not we needed -- it would be -- would it be helpful to have some
4 legal support to that team just to kind of think through the
5 construct of the federal requirements and the Clean Air Act
6 requirements and how that fits into everything as well if you're
7 looking at options. I don't know.

8 MR. KUTERBACH: Could we have a clear goal statement for
9 this group? Maybe that'll help us pick who needs to be on it.
10 Because I'm not really clear on what the regs group is going to
11 do. I've heard find a place in our rules where it would sit and
12 draft up some draft language. Is that really what it needs to
13 be? Because if that's what the group's doing then I don't see
14 that we really need anybody other than Tom and maybe some of our
15 attorney support.

16 MS. EDWARDS: I.....

17 MR. KUTERBACH: And where it's going to sit in our rules.

18 MS. EDWARDS: I was sort of thinking maybe it would be
19 more of a -- if we look at what the -- you know, the potential
20 -- we don't know what the potential outcomes are, but if we look
21 at sort of the monitoring data points us in various directions I
22 guess my thought would be could we get this group to sort of
23 look at the -- not just sort of where the regs fit, but sort of
24 how would we -- what kind of options can we craft that would
25 then fit together to meet a federal -- federal requirements or

1 approvability issues or -- I know we can't do that till we have
2 details and that's why I kind of feel like it's almost
3 premature, but I also know that at some point we probably need
4 to think about what kinds of options we might want to include in
5 a program.

6 MR. KUTERBACH: Okay. Well.....

7 MS. EDWARDS: So it seems like the thresholds
8 (indiscernible).

9 MR. KUTERBACH: If we're looking at it as an options
10 group, all right, rather than finding a spot in our existing
11 regs where it could sit, in that case then I would recommend,
12 again, Tom, somebody from the industry side at least and
13 probably get like Dave Bray involved on that because he knows
14 kind of the options where we can go which would have a chance of
15 being approvable or not. If we ask him to be helpful, he'll be
16 helpful. If we.....

17 MS. EDWARDS: Dave Bray is at EPA Region 10.

18 MR. BARRON: Okay. Thank you.

19 MS. EDWARDS: Sorry.

20 MR. KUTERBACH: So, you know, and if that's what the group
21 is tasked with is looking at the options given the limited, you
22 know, kind of the approach that we're focused on here of solving
23 this problem for the drilling rigs. And we've talked about it
24 and we've presented kind of a pathway where we're going to use
25 monitoring to show that there's no need for permitting of these

1 for ambient air quality purposes at least then what to show EPA
2 to make that change in our SIP, to take it out of permitting and
3 put -- you know, just eliminate it. What are we going to need
4 to know for EPA. What are the other options that are involved
5 based on the data that -- and of course that's going to have
6 follow the data group, to fill the gaps in the data. What
7 options are there for correcting the modeling data so that while
8 it may show for the current oil industry that we don't need to
9 permit the drill rigs can we have a method to project that onto
10 a wildly successful shale program which has a lot more drilling
11 and what would that take. So I see it more -- rather than a
12 regs group more of an options group.

13 MR. THOMAS: And I like what you just said because it's
14 tight, you know, it's focused. What do we have to do to
15 implement, you know, the program proposed. What gaps need to be
16 filled to get there. What would be in a package approval by
17 EPA. And the last part you mentioned, if we're wildly
18 successful, you know, how.....

19 MR. BARRON: Anywhere.

20 MR. THOMAS:how do you adapt to that.

21 MS. EDWARDS: So how do we deal with future growth or.....

22 MR. BARRON: Right.

23 MS. EDWARDS:or the (indiscernible).

24 MR. THOMAS: Yeah, that's pretty tight. That's good and
25 it's got a mission statement. I think they can keep the group

1 focused.

2 MR. BARRON: And that's administrative. That's not
3 necessarily technical. But that team can then feed the
4 technical team the questions, this is what we're coming up with,
5 can you fill this gap?

6 MR. KINDRED: I'm happy to attend, but I can also get Matt
7 Cohen or Ryan Standerson (ph) involved.

8 MR. THOMAS: Yeah. But the approach?

9 MR. KINDRED: Oh, yeah. I'm (indiscernible).

10 MR. TURNER: So a suggestion on where this is going based
11 on my past experience of dealing with various elements. Before
12 we get into -- when I do regs and I have to do regs we come up
13 and -- I think the concept of putting it just in regs is maybe
14 not going to work. I was thinking in terms of regs because
15 that's a structure I think in, just like a monitoring person
16 thinks (indiscernible). I think the concept of coming up with
17 options and how to get this through a SIP and how that works is
18 dialogue that we need to kind of have with EPA, kind of walk it
19 through industry and then once that gets kind of set up that's
20 when you bring in the attorneys. Because if you start bringing
21 them in early you're going to run into the same kind of issues
22 you run into with a technical escopy (ph). We're going to end
23 up in the weeds. I like John's approach of -- and then Brad,
24 you know, kind of jumped with that, is how does this framework
25 get put together and then once it gets put together how does

1 that fit then in a legal study is a different issue. And that's
2 why I was thinking.....

3 MR. BARRON: Great.

4 MR. TURNER:the regs could be a legal setting. But
5 -- so the idea is -- here is let's get the framework done. I
6 think you and I could maybe get together and say how does this
7 work, how do we address the goals of various competing aspect
8 here is no drill rigs versus protecting the public's interest in
9 air quality and then if there's a transition how would that
10 look. Then you'll have the data coming in from the technical
11 side. Then you can sit there and go, well, how are we going to
12 put this into the reg. And so I think, John, you've got it kind
13 of -- I was thinking in terms of regs because that's where
14 everybody's going to end up putting everything. But he's right,
15 how is this going to -- you know, what are we implementing, how
16 long is this looking at, what are we going to need to do to
17 ensure certain things. I think that's a different discussion
18 than a legal discussion. And you bring in the legal discussion
19 after you kind of get that framing out because otherwise the
20 legal discussion calls it. Just like you don't want the
21 technical group to call it either. It's more the goals of the
22 workgroup kind of thing, but done in a subcommittee that can
23 then come back and say.....

24 MR. BARRON: Right.

25 MR. TURNER:this is how we blend the two together.

1 Because then, for lack of better words, the technical group and
2 the legal group will pull it together through some type of
3 agreed upon path forward.

4 MR. THOMAS: So it almost seems like having written down
5 the objectives of this option group, if you will, that it should
6 come on the heels of the technical group.

7 MR. KUTERBACH: And I think what it can do is it could get
8 started at the same time, okay, because with the discussion of
9 the options they're going to look and see, well, what do we need
10 in order to say this option's a viable option. And that
11 information could be fed back to the technical group.....

12 MR. THOMAS: Yeah.

13 MR. KUTERBACH:which says, you know, does the data
14 support this.

15 MR. TURNER: And we can go what do we need and maybe --
16 you know, particularly if Dave Bray's involved he's going to
17 say, well, you're going to need to support that here. We go to
18 the technical group and say EPA says we need to have support
19 there and they can look at the data and say we have it or we
20 don't.

21 MS. EDWARDS: So -- and we may not end at the -- but the
22 two groups may not be able to end their work at the same time.

23 MR. TURNER: Correct.

24 MR. BARRON: Yeah, I actually see them starting, you know,
25 together and then working -- you know, passing data back and

1 forth or a concept of back and forth. But you may come up with
2 branches that actually disappear as you work your way through
3 it. Go well, that's not -- this -- that option's not going to
4 work at all, but we thought about it, whatever that option is.
5 I mean I just -- you know, I've just -- I've seen so many
6 different scenario planning models to know there are branches
7 that just die. Because you work your way through it and you go
8 that's not going to work. The cure is worse than the disease
9 kind of thing. So yeah, I see these as two parallel paths
10 running programs, not necessarily ending on the same day at all.

11 MR. THOMAS: So the third group?

12 MS. EDWARDS: Well, we thought about do we need some folks
13 that are actually out there looking, actively looking for the
14 more cutting edge technical opportunities and whether any of
15 those are things that we should -- that, you know, we may not be
16 in our mainstream thought at this point that may be being worked
17 on out there.

18 MR. THOMAS: You're talking about modeling?

19 MR. BARRON: It could be modeling. That's what was
20 jumping in my mind. I mean we talked about the Monte Carlo kind
21 of stuff and without getting the technical team immersed in a
22 new model, right, is there a way to look at that as a technology
23 that might have some viability as one that -- because it's going
24 to be on the option branch. Right? But there's also new engine
25 technology and I know we've got people on the phone that are --

1 can probably lean in on where those technologies are going and
2 what options that that might play into us. You know, new fuel
3 sources, is there an option there that changes things? I mean
4 those are the kind of things that -- I just don't want to walk
5 away from the creativity and insightfulness of new technology
6 and how that plays. Because I really kind of like the idea of
7 having what we come up with in terms of regs being at least
8 trying to be a little bit clairvoyant of what might be coming
9 down the path as we write these to increase their flexibility.
10 Because if you write regs with what you know today you know five
11 years from now it's going to be wrong and obsolete. So I'm just
12 trying to make sure we have some sort of group -- and not telling
13 when they start or when they stop. I'm just trying to make sure
14 that we think that one through so we don't lose that as an idea.

15 MR. TURNER: Could you make a subgroup of the options
16 group?

17 MR. BARRON: Sure.

18 MS. EDWARDS: What if we took the modeling aspect of that,
19 sort of the more data driven technical tool opportunities maybe
20 in some sort of subgroup inside that monitoring modeling?

21 MR. BARRON: That's fine.

22 MS. EDWARDS: And that may be the actual sort of, I don't
23 know, equipment technology fuels, you know, more operational
24 technology advancement kinds of things could maybe come in under
25 the options group somehow. It seems like that's two different

1 groups of people. I don't think that the folks that are
2 developing, I don't know, new engines or new engine technologies
3 or new retrofit technologies or whatever that is are going to be
4 -- it's not the same -- the group that's out looking for that
5 probably isn't the same group that's out looking at Monte Carlo
6 simulations and other (indiscernible).

7 MR. BARRON: Right. No, I.....

8 MR. THOMAS: I think that the modeling stuff could be
9 captured in a technical group. The technical.....

10 MR. BARRON: It sound.

11 MR. THOMAS:stuff, the engine -- what the future of
12 engines are, future technology of fuels, that feels like a
13 different group all together.

14 MS. EDWARDS: (Indiscernible).

15 MR. BARRON: That's why I'm proposing it. I think it is a
16 different group. But then that -- they feed those to the
17 options group and they feed that information to the technology
18 group.

19 MR. TURNER: The modeling.....

20 MR. BARRON: Or the modeling group.

21 MR. TURNER: The -- back to the framework of this
22 discussion. The discussion started because modeling's no longer
23 an appropriate tool. We want to use monitoring as an
24 appropriate tool. So it would make sense from my viewpoint that
25 the modeling, whatever options are coming forward needs to be in

1 the technical group's toolbox. Whereas as new technology is
2 kind of, well, we have these new engines, we have other ways
3 that we can do it. That's kind of a whole new frame and that
4 could be in the options group. So I do think that's correct.

5 MR. BARRON: It certainly could.

6 MR. TURNER: You're splitting two out. Modeling goes over
7 to technical.....

8 MR. BARRON: That's.....

9 MR. TURNER:and new technology can be thrown over.
10 And as new technology comes up we can throw it over to the
11 technical.....

12 MR. BARRON: Right.

13 MR. TURNER:group and say, hey, what do you guys
14 think of it and we're going to get someone calling back, boy,
15 those engines really freeze up north, they're not going to work.

16 MR. BARRON: Yeah, I just don't want to lose the idea of
17 new technologies coming in that are going to change the whole
18 thing.

19 MR. TURNER: Wyoming's using natural gas engines. They're
20 getting away from diesel fuel engines. Kind of interesting.

21 MR. THOMAS: Just a comment on what sounds like the
22 direction of that conversation. When we talk about new engine
23 technologies we're not proposing that new engine technology's
24 being opposed. So there are new engine technologies out there.
25 There's, you know, tier four engine, there's tier four final,

1 there's tier three. But, you know, we're making a case that the
2 data that we have, you know, supports that, that we're in a good
3 place and we don't need to make improvements beyond what's
4 already occurring naturally. So when we talk about the
5 technology I don't see that as an option, as one of the options
6 for moving forward. But rather -- like you said, Bill, it's --
7 you know, we can look down the road to the technology changes or
8 improves on its own. We can adapt a regulatory framework too,
9 but rather than building the regulatory framework around that
10 technology. Does that make sense?

11 MR. BARRON: Yeah, I guess it does and I'm not -- I don't
12 know exactly where that group will land, but five years ago did
13 you think you were going to have to model on an hour basis?

14 MR. THOMAS: No.

15 MR. BARRON: That's my point.

16 UNIDENTIFIED MALE: And also.....

17 MR. BARRON: I mean my point is let's think -- let's at
18 least crack that window to see what is out there that we might
19 not be thinking about or might -- that might then create new
20 changes that we have to think about.

21 MS. EDWARDS: Well, and one of the ideas that I remember
22 coming up early on in our discussions was a concept of could --
23 not requiring new advanced technologies per se, but centralizing
24 them. And, you know, if we don't know what the opportunities
25 are there then we don't know whether there are options we could

1 build that would encourage perhaps or incentivize new
2 technology, new clean air technologies or new approaches that
3 are out there or may be coming that, you know, we want to
4 prepare for. It doesn't necessarily have to be all regulatory.
5 There could be opportunities to actually look at options that
6 would help bring clean air technologies.

7 MR. BARRON: Yeah. In trying to make sure that we keep
8 focused why don't we table this -- my proposal is that we table
9 this subgroup for a dialogue maybe the next meeting or the
10 meeting after that.

11 MS. EDWARDS: See where we go?

12 MR. BARRON: But let's kind of let this one simmer for a
13 little bit to see what people think about it. Because I don't
14 think we're going to get to a real crisp mission statement on
15 it.

16 MS. EDWARDS: I think that's a fair (indiscernible).

17 MR. BARRON: But if we think this one through we might and
18 I just -- there's something out there that's kind of intriguing
19 me that I can't put my finger on, but I just -- I hate to walk
20 away from being able to look forward.

21 MR. TURNER: So just a side comment on that. I get a lot
22 of things where people worry about imposing new technology
23 versus incentivizing technology and I think industry needs to
24 understand the approach that we're thinking here is incentivize,
25 not imposing. Because, you know, we just rolled out an AOS

1 thing and the first question is you're going to make us do this.
2 No, we're giving you options. I mean that's one of the beauties
3 of air quality in Alaska is there's this constant need through
4 self-evaluation and quality management systems to say what
5 options are we going to provide to (indiscernible) to get
6 industry to make sure they protect air quality. I know other
7 times you think it's just us against them, but it's not. It's
8 really how do you figure out so that we both are achieving the
9 same goal.

10 MS. EDWARDS: So if we go forward with two -- these two
11 sort of subgroups working sort of in parallel and cross feeding
12 information does starting in December work for you, Tom?

13 MR. TURNER: Yes.

14 MS. EDWARDS: The other group. Okay. I guess my question
15 is are there other things that we need to be working on or that
16 we do need -- is there anything else that anybody's thinking we
17 need to have the group work on right now? And then, if not,
18 then sort of where -- you know, when do we want to check in with
19 these groups?

20 MR. THOMAS: Well, we -- I think what we would need to do
21 is meet, the Alliance and AOGA, to divide up the labor, try and
22 figure out who's going to do what. Assemble the information
23 that we've got that we have to -- going to get to Barbara's
24 group and then we -- I would propose that we reconvene then
25 during the first week of December or close to that to define

1 these groups' mission statements, people, milestones.

2 MS. EDWARDS: Oh, so this group -- okay. Sorry. I'm
3 starting to track now. So this group would come back together
4 in early December and set out those -- sort of formalize that?
5 I was thinking that the subgroups would just start pulling
6 together that week based on the.....

7 MR. THOMAS: Yeah.

8 MS. EDWARDS:discussion we had today. So I'm just
9 trying to clarify in my brain what we're talking about.

10 MR. THOMAS: No, you're right. The -- what -- I guess
11 what I'm feeling we lack right now is definition on -- you know,
12 on our part of who does what. We haven't talked about it
13 and.....

14 MS. CASTANO: Well, we need to talk about it.

15 MR. THOMAS: We need to, yeah.

16 MR. BARRON: I think that -- you know, and I can buy that.
17 You know, I.....

18 MS. CASTANO: (Indiscernible).

19 MR. BARRON:my head was where yours was, but, you
20 know, given that a couple of sidebar discussions need to take
21 place to get closure and then tighten it up. I think if the
22 primary group reconvenes in, you know, two or three weeks, right
23 after the sidebar sort of organizational kind of stuff has
24 happened I think that's really a good idea.

25 MS. EDWARDS: Okay.

1 MR. KUTERBACH: Couldn't that convene and just be a
2 conference call? I mean I.....

3 MR. BARRON: I think yes.

4 MR. KUTERBACH:(indiscernible) together.

5 MR. BARRON: Yes, I think so. I mean I don't know.....

6 MR. TURNER: It's a lot of logistics to pull this
7 together. It would definitely be easy just to regroup this
8 because each side's going to go back and need to figure out what
9 they (indiscernible).

10 MR. BARRON: We're trying to save you a trip, Gordon.

11 MR. TURNER: Yeah. I think you could easily do that by
12 teleconference. And it wouldn't be necessarily a very long
13 (indiscernible).

14 MR. BARRON: I agree.

15 MS. EDWARDS: So we're thinking a conference call the
16 first week of December to just kind of formulate, make sure we
17 have the groups formalized.

18 MR. BARRON: Yep.

19 MS. EDWARDS: Okay.

20 MR. TURNER: Today's the 15th. That gives you two weeks.
21 You might -- I don't have a calendar in front of me.

22 MR. THOMAS: It'd probably be about three weeks out.

23 MR. TURNER: Three weeks out.

24 MR. THOMAS: The week after Thanksgiving, you know, at the
25 earliest.

1 MR. TURNER: Would be the earliest.

2 MR. THOMAS: Yeah.

3 MR. TURNER: I'm thinking that -- that's what I'm
4 thinking. If it's like the 7th is the first week it might be
5 better to do like the 12th or the 13th. I don't know, I don't
6 have a calendar in front of me.

7 UNIDENTIFIED MALE: Of course we can.....

8 MR. EDWARDS: There is a 2nd (indiscernible).

9 UNIDENTIFIED MALE: Second.

10 MS. EDWARDS: 2nd through the 6th.

11 MR. KINDRED: I don't have a strong preference first or
12 second week.

13 MS. EDWARDS: I per -- go ahead. Do you have something,
14 John?

15 MR. KUTERBACH: No, I'm just saying the first week's
16 probably preferable.

17 MS. CASTANO: (Indiscernible).

18 MS. EDWARDS: I -- that's my preference. I know that I'm
19 going to be in meetings the entire second week and so it's going
20 to be hard for me to break out even to do a conference call.
21 So.....

22 UNIDENTIFIED FEMALE: Same here.

23 MS. TROST: Yeah, the 5th. If we're doing it on a
24 Thursday, the 5th.

25 MS. CASTANO: And we said that one's a conference call.

1 Right?

2 MR. BARRON: Yeah.

3 MS. CASTANO: I'll have to call from (indiscernible).

4 MS. EDWARDS: And I don't anticipate it will even be a
5 very long conference call. I think we could do this in an hour.

6 MR. THOMAS: Yeah. Is the first week the week of the 2nd,
7 is that what you're saying?

8 UNIDENTIFIED FEMALE: Yeah.

9 MS. EDWARDS: Yeah.

10 UNIDENTIFIED MALE: The week of the 2nd, yeah.

11 MR. TURNER: So we're looking on the 5th a conference call
12 and Jim and I can figure that out. We can just do one of these
13 call in numbers and come up with an agenda. We'll do it all
14 through the webpage. That's what I just heard.

15 MR. THOMAS: Okay.

16 MS. EDWARDS: But.....

17 UNIDENTIFIED MALE: In the afternoon.

18 MR. THOMAS: Okay. That works.

19 MS. EDWARDS: Okay. So we'll shoot for December 5th.
20 Let's make sure we check with the -- with Mike and I don't know,
21 Gordon, if -- do you -- does the -- a conference call on the 5th
22 work for you? I don't know if we still have Gordon.

23 MR. BROWER: I'm still here.

24 MR. BARRON: And we're glad.

25 MS. EDWARDS: Hanging on. Would that Thursday the 5th

1 work for you?

2 MR. BROWER: Yeah, it'll work for me.

3 MS. EDWARDS: Okay. I think it'll just be about probably
4 an hour long conference call. Are afternoons better for you
5 than mornings?

6 UNIDENTIFIED MALE: That's fine, yeah.

7 MS. EDWARDS: Okay.

8 MR. BRITT: Mike Munger will have a problem. He's got a -
9 - it's his angle meeting.

10 MS. EDWARDS: Okay. So.....

11 UNIDENTIFIED MALE: (Indiscernible).

12 MS. EDWARDS:do you know.....

13 UNIDENTIFIED MALE: It's the 5th and 6th.

14 MS. EDWARDS: It's the 5th and 6th. So would.....

15 MR. TURNER: What's that Monday?

16 MS. EDWARDS: Monday's the 2nd.

17 MS. CASTANO: 2nd.

18 MR. TURNER: What's the Monday after that?

19 MR. THOMAS: 9th.

20 MS. EDWARDS: 9th.

21 UNIDENTIFIED FEMALE: 9th.

22 MR. TURNER: We do it on the 9th?

23 UNIDENTIFIED FEMALE: I can't.

24 UNIDENTIFIED FEMALE: Yeah, I can't either.

25 MR. TURNER: No, you can't. Okay. Do you want to proceed

1 without Mike?

2 MS. EDWARDS: Well, what about the 3rd or the 4th? Are
3 either of those days any better for anybody?

4 MR. THOMAS: Yeah, I'm traveling Thanksgiving and I don't
5 think I get back until late in the week. I could do the 6th,
6 but I know some people loathe to work on Fridays.

7 MS. CASTANO: Yeah, I'm on a place on the 6th too, so.
8 Someone else could participate for me.

9 MS. EDWARDS: Why don't we do this. Why don't you send --
10 why don't you just send an email out to the workgroup members
11 and let's just find the.....

12 MR. BARRON: Find a time.

13 MS. EDWARDS:the day that week that seems to be the
14 best for everybody.

15 MR. THOMAS: So the week of the 9th does not work?

16 MS. EDWARDS: Not for me.

17 MR. THOMAS: No.

18 MR. TURNER: Okay.

19 MS. EDWARDS: I would be -- I mean I'm happy to let John
20 handle it.

21 UNIDENTIFIED MALE: You're central for this.

22 MS. EDWARDS: But yeah, then I'm in Seattle for meetings
23 that whole week.

24 MR. THOMAS: Okay.

25 MS. EDWARDS: So.....

1 MS. CASTANO: And Brad, we can work on getting sort of our
2 position so that we don't all three have to be here.

3 MR. THOMAS: Okay.

4 MS. CASTANO: If I can't be -- if I'm on a plane.

5 MS. EDWARDS: I don't think it's a -- it's going to be
6 a.....

7 MR. THOMAS: Yeah, that's true.

8 MS. EDWARDS:it's -- I don't think it's going to be
9 a big decision making call or anything. I think it's more just
10 making sure we have.....

11 UNIDENTIFIED FEMALE: Communicating.

12 MS. EDWARDS: That we communicate.

13 MR. THOMAS: Right, yeah.

14 MS. EDWARDS: So hopefully if we can get the majority of
15 the group together.....

16 MR. TURNER: Yeah.

17 MS. EDWARDS:we should be okay.

18 MR. BARRON: Yeah, I think so.

19 MS. EDWARDS: But since Mike wasn't able to be with us
20 today -- or I don't know, he may have joined at some point. But
21 if Mike -- if we don't have -- it would be nice to try and get
22 Mike back up to speed and then see if we can pick a time when he
23 can be available if that's possible.

24 MR. TURNER: And we can always.....

25 MS. EDWARDS: And Gordon as well.

1 MR. TURNER: There'll always be some kind of follow-up
2 with Mike after this meeting too. After the transcript is done
3 I'll just give him a quick update.

4 MS. EDWARDS: Yeah.

5 MR. TURNER: Just a thing for information (indiscernible).
6 How long before you think you can get the transcripts back?

7 THE REPORTER: How quick do you want it back?

8 MR. TURNER: Quickly this time.

9 THE REPORTER: That's immediately, like 24 hours, a week?

10 MR. TURNER: No, a week.

11 THE REPORTER: Seven days?

12 UNIDENTIFIED MALE: A week.

13 THE REPORTER: I can put a notation on there.

14 MR. TURNER: Thank you.

15 THE REPORTER: Okay. Seven day turnaround.

16 MS. EDWARDS: Okay. So we'll do a conference call that
17 first week of December, probably the middle of the week, but
18 we'll see what works for people the best. And get that set up
19 and noticed and the phone line set up. Other -- is that -- do
20 we have other things we need to think about for action items
21 coming out of today? I feel like we've made a lot of progress
22 today.

23 MR. THOMAS: Yeah.

24 UNIDENTIFIED FEMALE: Good meeting.

25 MR. BARRON: I'm good. Gordon, you think of anything?

1 MR. BROWER: Not at the moment.

2 MS. EDWARDS: And Gordon, if you -- you know, I know you
3 haven't had a lot of time to look at all the information that's
4 presented, so if you have additional comments or thoughts please
5 feel free to forward them to us.

6 MR. THOMAS: I think I've got one just overarching
7 question.

8 MR. BROWER: I'll try to do that.

9 MS. EDWARDS: Thanks. Yeah, I just -- I want to just make
10 sure we have the benefit of your perspective.

11 MR. THOMAS: So what -- you know, when we launched in June
12 we talked about a December time by which we would have a -- you
13 know, a plan. So what are we thinking now as far as -- what's
14 our target to have something ready to do? Or ready to go is not
15 the right word. What's our target to have a plan nailed down
16 amongst us that we agree to that we can then go forward with?
17 Any thoughts? I'm just asking. I don't have any.....

18 MR. KINDRED: It'll probably be difficult until we
19 recognize how persuasive or -- how persuasive the data is I
20 think. Probably the next meeting we'll have an idea of if we're
21 close to what our proposal is or at least being able to persuade
22 a little proposal's appropriate or not. And if there's follow
23 on questions depending on how efficient our data may be then
24 it's probably going to take.....

25 MR. THOMAS: Yeah, I think my propensity, my

1 (indiscernible) is to try to not leave this open ended, but
2 rather have an end date in mind that we can shoot for. But that
3 puts pressure on us to actually work within that window.

4 MR. KUTERBACH: Well, and any end date that we have is
5 really a start date for getting it approved.

6 UNIDENTIFIED MALE: (Indiscernible).

7 MS. EDWARDS: And I mean I agree. We -- you know, when we
8 set out our December timeframe originally I think we were all
9 thinking that we had the potential that we might need some
10 statutory assistance and thinking about the legislature
11 convening in January and all of that. But I don't think any of
12 the things that we're talking about really require that kind of
13 legislative interaction.

14 MR. BARRON: I don't think so either.

15 MS. EDWARDS: So I think we have the luxury of a little of
16 bit time to try and do this right, but I agree that we don't
17 want to drag this on forever and ever and ever. But I think --
18 I agree that it's going to be difficult for us to know sort of
19 what that timeframe's looking like until we get a better feel
20 for how long it's going to take the technical groups to go
21 through and do some of this. And if that takes a month or two
22 months to do that then we still have to come back then and sort
23 of regroup and figure out what -- where we go next and I don't
24 know that (indiscernible).

25 MR. BARRON: Well, and even if the proposal that we have

1 so robustly said is a good first step there's two years of
2 monitoring proposed in it. So I mean I think we're going to
3 have to have interim. That's why I wanted the options group
4 kicked off right now because I think there will be interim steps
5 that we take while we continue to do the two years of
6 monitoring. So I -- I mean I'm not sure how to answer your
7 question, but I think we're -- it's still a work in progress.
8 But I think there's incremental changes that can be made based
9 on what we find out.

10 MS. EDWARDS: But I think as we continue to work forward
11 that we should keep asking this question and we should -- you
12 know, I don't -- the next meeting probably isn't the right one,
13 but maybe the one after that we kind of see where we're at,
14 where we think we're headed. We might have a better feel for
15 being able to put kind of an end to when we hope to get to the
16 end of that -- sort of this first process and have sort of a --
17 and, you know, maybe it is here's the plan, we're going to do
18 this monitoring. Whatever it is, you know, but I don't have a
19 good feel for it at this point either. But I did -- I recognize
20 that -- I'm glad you brought that up because that was something
21 I wanted to bring up too. Because we had talked about trying to
22 be done and we're obviously not there yet, but I do think we
23 just need to keep plugging away and moving this along.

24 MR. BARRON: Well, yeah, I -- here's what's in my mind.
25 What I don't want is to put out something that's bad that has to

1 be changed. It's not bad today. It's good today, but it would
2 be bad tomorrow just to expedite it for today. I want to give
3 this the breadth of time that's needed to build something that
4 has some longevity. I think that's important for the stability
5 of the industry to know what you're working with and it's
6 important for the State and I think it's important for the
7 public to say this is a longer term perspective and that has
8 value. So if it takes a little bit longer I'm more than willing
9 to commit my time and the State's time to do that.

10 MR. THOMAS: Okay. We'll just keep asking questions.

11 MS. EDWARDS: John, did you have something as well?

12 MR. KUTERBACH: Nothing more from me. Thank you.

13 MS. EDWARDS: Okay. I thought I missed a hand signal
14 there, so. Because, you know, we talk in code sometimes.

15 MR. BARRON: I knew that. Just hadn't picked up on it.

16 MS. EDWARDS: Other thoughts today for the greater good
17 for the group? Okay.

18 MR. BARRON: Thank you very much.

19 MS. EDWARDS: So we'll get this next call set up, we'll
20 get the transcript out and go from there. So I want to thank
21 everybody for the efforts today and the effort to put together
22 the proposal and the good discussion. I thought it was really
23 helpful today.

24 MR. KUTERBACH: I do have one item.

25 MS. EDWARDS: I knew you.....

1 MR. KUTERBACH: (Indiscernible) a Mulligan (ph).

2 MS. EDWARDS: I knew you needed a Mulligan (ph).

3 MR. KUTERBACH: For this call, is this going to be a meet
4 me number and are we going to advertise it?

5 UNIDENTIFIED FEMALE: What is a meet me number?

6 MR. TURNER: It's no problem setting up a meet me number.
7 It would be (indiscernible) workgroup over who's all involved.

8 MR. KUTERBACH: That was the question to the group.

9 MR. TURNER: Yeah. We can set up a meet you -- a meet me
10 number at any given place and time and we will do that when we
11 set the meeting time.

12 MS. EDWARDS: And I think we could -- we can notice it. I
13 don't.....

14 MR. BARRON: Yeah. Yeah, I think -- yeah.

15 MS. EDWARDS:we'll have a problem doing that.

16 MR. BARRON: Yeah, notice it for sure.

17 MR. KUTERBACH: All right. So if we do notice it then we
18 need.....

19 UNIDENTIFIED MALE: (Indiscernible).

20 MR. KUTERBACH:an estimate of how many lines we're
21 going to need.

22 MR. TURNER: Correct. And we need to have a decision on
23 the meeting time within the week or we're -- we have to have two
24 weeks notice. Either way we could do that.

25 MS. EDWARDS: So for those of you who are actively

1 participating, if you are going to join the call in December
2 please let us know, let Tom or Jeanne know, and that way we can
3 make sure we have enough lines for everybody on the call.

4 Excellent. All right. I think we covered our agenda.

5 UNIDENTIFIED MALE: (Indiscernible).

6 MR. BARRON: Thanks very much everybody.

7 MS. EDWARDS: Thanks everybody and we'll talk to you all
8 in early December.

9 MR. BARRON: Thanks, Gordon.

10 THE REPORTER: Off the record at 3:45.

11 (Off record at 3:45 p.m.)

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TRANSCRIBER'S CERTIFICATE

I, Nicolette Hernandez, hereby certify that the foregoing pages numbered 2 through 106 are a true, accurate and complete transcript of proceedings of the Workgroup for Global Air Permit Policy Development for Temporary Oil and Gas Drill Rigs, held November 14, 2013, in Anchorage, Alaska, transcribed by me from a copy of the electronic sound recording to the best of my knowledge and ability.

_____	_____
Date	Nicolette Hernandez