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

July 9, 2013

Room 602, Robert A. Atwood Building  
550 West 7th Avenue, Anchorage, Alaska

**FACILITATORS:**

Tom Turner, ADEC/AQ

Jim Shine,  
Special Project Assistant, ADNR/Commissioner's Office

1                                   **WORKGROUP MEMBERS PRESENT:**

2   Alice Edwards, Director, Alaska Department of Environmental  
3   Conservation/Division of Air Quality; Williams Barron,  
4   Director, Alaska Department of Natural Resources/Division  
5   of Oil and Gas; John Kuterbach, ADEC/AQ; Gordon Brower,  
6   Deputy Director, North Slope Borough Planning Department;  
7   Brad Thomas, ConocoPhillips and Alaska Support Industry  
8   Alliance; Nikki Martin, Alaska Oil and Gas Alliance;  
9   Alejandra Castano, BP Exploration; Mike Munger, Executive  
10   Director, Cook Inlet Regional Citizen's Advisory Council.

11

12                                   **PUBLIC MEMBERS PRESENT:**

13   Al Trbovich, SLR Environmental Consultancy; Ben Wedin,  
14   Nordic-Calista Services; Bill Britt, Hillcorp; Chris Kent,  
15   ASRC Energy Services; Erin Strang, Environmental Resources  
16   Management; Jeanne Swartz, ADEC/AQ; John Neason, Nabors  
17   Alaska Drilling; John Pavitt, U.S. Department of  
18   Environmental Protection; Kate Kaufman, Hillcorp; Mike  
19   Peters, Doyon Drilling; Noel Therriau, Nordic-Calista  
20   Services; Ron Wilson, Doyon Drilling; Sara Longan, ADNR;  
21   Tom Chapel, H&H Consulting; Tom Damiana, AECOM; Wally  
22   Evans, Hillcorp Energy; Sally Ryan, Cardno ENTRIX; Eric  
23   Fierson, Caterpillar; Ann Mason, SLR Consulting; Randy  
24   Kanady, CPAI.

25                                   (Beginning of proceedings)

1 THE REPORTER: On the record at 1:04 p.m.

2 MS. EDWARDS: Thanks. Welcome, everybody. Good  
3 afternoon. This is the third meeting, I guess, of the  
4 Drill Rig workgroup. And so first, as we have in all the  
5 other meetings, I'd like to go around and just do  
6 introductions and see who is in the room. And we'll see  
7 who is on the phone. I've heard a few people call in. So  
8 I'll start with myself and we'll go around the table, and  
9 then we can go around the room, and then we'll go to the  
10 phone. So I'm Alice Edwards, the director of Air Quality  
11 at DEC.

12 MR. KUTERBACH: John Kuterbach, the Air Permits  
13 Program manager for DEC.

14 MR. BARRON: Bill Barron, director of Oil and Gas,  
15 DNR.

16 MR. SHINE: Jim Shine, special assistant to the  
17 Commissioner of DNR.

18 MR. THOMAS: Brad Thomas. I'm here representing the  
19 Alaska Support Industry Alliance.

20 MS. MARTIN: Nikki Martin with the Alaska Oil and Gas  
21 Association.

22 MR. TURNER: Tom Turner, Air Permits, DEC.

23 MR. WILSON: Yeah, Ron Wilson, president and general  
24 manager of Doyon Drilling.

25 MR. PETERS: Mike Peters, HSC manager, Doyon Drilling.

1 MR. NEASON: John Neason, HSE, with Nabors Alaska  
2 Drilling.

3 MR. PAVITT: John Pavitt with the Air Compliance  
4 Program of EPA.

5 MR. EVANS: Wally Evans with the Air Compliance  
6 Program of Hillcorp.

7 MS. KAUFMAN: Kate Kaufman. I'm a drilling  
8 environmental specialist with Hillcorp.

9 MR. BRITT: I'm Bill Britt, (indiscernible) with  
10 Hillcorp.

11 MS. LONGAN: Sara Longan, DNR, Office of Project  
12 Management and Permitting.

13 MR. THERRIAU: Noel Therriau, operations manager of  
14 Nordic-Calista Services.

15 MR. WEDIN: Ben Wedin, field superintendent, Nordic-  
16 Calista Services.

17 MS. CASTANO: Alejandra Castano, BP Alaska.

18 MR. KENT: Chris Kent, ASRC, Energy Services.

19 MS. STRANG: Erin Strang, ERM.

20 MS. SWARTZ: Jeanne Swartz, ADEC.

21 MS. EDWARDS: And on the phone? Can we try and see  
22 who is there?

23 MS. RYAN: Sally Ryan, Cardno ENTRIX.

24 MR. TRBOVICH: Al Trbovich, SLR.

25 MR. MUNGER: Good afternoon. This is Mike Munger,

1 executive director of Cook Inlet RCAC.

2 MS. EDWARDS: Hi, Mike. Welcome.

3 MR. MONGER: Hi.

4 MR. CHAPEL: This is Tom Chapel at H&H Consulting.

5 MR. DAMIANA: This is Tom Damiana with AECOM.

6 MS. EDWARDS: Do we have others on the phone? Great.

7 So those of you in the room, if you haven't signed in,  
8 please sign the sign-in sheet so we know who was here  
9 today, and also if you haven't been here before so we can  
10 get you on our list. I would also note that this is the  
11 first meeting we've got the transcriptionist here today.  
12 So it would probably be helpful to her, I imagine, if we  
13 identify ourselves before we speak. That should help. But  
14 for the -- just for those of you on the phone know that  
15 there's transcription going on today as well. So with  
16 that, I wanted to start off with an agenda check. I didn't  
17 get the agenda out very far in advance for this meeting so  
18 we didn't get a good chance to go through it. But we did  
19 post an agenda this morning on the website and so it's  
20 available there for those of you on the phone. And so I  
21 guess I would ask Mike, on the phone, and also the members  
22 of the workgroup that are here whether we're okay with the  
23 agenda as it stands or whether you have some other changes  
24 that we'd like to make for today?

25 MR. THOMAS: The agenda, you mean?

1 MR. BARRON: The agenda looks fine with me.

2 MS. EDWARDS: Okay. Mike, did you have any concerns  
3 with the agenda?

4 (No audible response.)

5 MS. EDWARDS: Okay. So we'll proceed with the agenda  
6 that we have. And, you know, we'll see how -- the timing  
7 may slip a little bit here or there, but at least we've got  
8 kind of a path forward. Obviously, the objective of the  
9 meeting today was to work some more on our goal statement  
10 for the workgroup and start to move up toward a path  
11 forward here on how to proceed. I circulated, I think  
12 yesterday, the meeting summary from the last meeting. And  
13 I just wondered if any of the workgroup members have any  
14 comments or changes to the meeting notes?

15 MR. THOMAS: What's the right way to get the changes?  
16 Because there's some questions and answers that I've  
17 noticed that aren't quite accurately captured. So can we  
18 just.....

19 MS. EDWARDS: If you want to go ahead and make some  
20 edits and email them back to us, we can do it that way, if  
21 that works.

22 MR. THOMAS: Okay.

23 MS. EDWARDS: I just wanted to make sure we had an  
24 opportunity to get those edits into them. So that would be  
25 fine. Can we try and get those back in the next day or so?

1 MR. THOMAS: Okay.

2 MS. EDWARDS: That would be great. Bill, did you have  
3 anything to start out with today?

4 MR. BARRON: It's going to be a full day. You know,  
5 trying to make sure that we get a really good statement of  
6 our goals, I think is important. And then as we ease into  
7 trying to find, you know, the issues and some potential  
8 solutions, we'll get to what we get to. But I think  
9 spending the right amount of time on understanding what  
10 we're trying to solve is important.

11 MS. EDWARDS: So how would the group like to begin on  
12 this then? I know we had our first meeting, we laid out  
13 some of the issues. We had presentations at the last  
14 meeting with a lot of the background. I know we have some  
15 specific issues that have been raised. But I also wondered  
16 if those specific issues sort of point to a more broader  
17 problem statement or whether we want to kind of hone in  
18 directly into there. I think we've had, what, three or --  
19 three issues, three primary issues raised at this point?  
20 And it seems to me, when I look at those issues, and this  
21 is just from my perspective, that they all coalesce around  
22 sort of a broader issue, which is I think what everybody  
23 wants to get to, is to have more operational flexibility  
24 for the temporary drill rigs. I think that all of the  
25 other more detailed issues seem to stem from this desire to

1 have more operational flexibility. And I don't know if  
2 that's the case, but.....

3 MR. THOMAS: I mean it is the case that the ambient  
4 air quality standards in the permitting programs, as its  
5 structured, is having the effect of more restricted  
6 operations. But the way the -- the Title V firms, for  
7 example, have operated in the last several years, I'm not  
8 sure there's a flexibility issue with that. But there is  
9 the risk, if we continue forward down this path, that we  
10 will lose flexibility. So we don't want that to happen.

11 THE REPORTER: When you make a comment make sure the  
12 mic gets close to the people who are speaking, please.  
13 Thank you.

14 MS. EDWARDS: And also for the people on the phone,  
15 just a quick phone check. Are you hearing us all right  
16 today?

17 UNIDENTIFIED MALE: Yes, I am.

18 ERIC FIERSON: Alison, this is Eric Fierson with  
19 Caterpillar. Not really. I can hear you, but all the  
20 other speakers are completely cutting out.

21 MS. EDWARDS: Okay. So we'll try and do better to get  
22 the speakerphone mics closer to the people that are talking  
23 at the table. So I guess the question I would have is how  
24 do we want to start framing this goal statement then?

25 MR. THOMAS: What do you want? Do we want to identify



1 first the problems we're trying to tackle for -- do that?

2 MS. EDWARDS: We can do that.

3 MR. THOMAS: I' remember throwing that out before.

4 MR. BARRON: No, I think that's fine. I think we will  
5 probably pounce between the two.

6 MR. THOMAS: Yeah.

7 MR. BARRON: So I'm kind of flexible on -- I mean we  
8 just need to get the wheels rolling so.....

9 MS. MARTIN: Right. So I mean we can -- we've kind of  
10 gone over, as Alice said, the three main problems we've  
11 identified, I think in correspondence previously between  
12 member companies, industry and ADEC, and then also during  
13 the last two meetings, but those -- those three main issues  
14 from our perspective. And we've been meeting on these  
15 issues outside of this room, too, so you know that we've  
16 been putting in some effort collaborating with the support  
17 industry. And a lot of those contractors are represented  
18 in the room. But the first one just being that drill rigs  
19 to date have been unable to model compliance with the new  
20 NAAQS so it's a modeling issue. And Brad did a pretty  
21 thorough job of going through that issue during the last  
22 meeting just two weeks ago. And then the other -- the  
23 second problem would be that drill rigs, there's been  
24 requirements that they've been connected to highline power  
25 and they -- drill rigs without highline power cannot model

1 compliance with the (indiscernible). So we've talked about  
2 that problem. And then also that they have to stay on a  
3 given pad for more than two years or are prohibited from  
4 returning to a pad for at least two years.

5 MR. THOMAS: Well that's not exactly right.

6 MS. MARTIN: Oh, okay. Well clarify.

7 MR. THOMAS: Do you want me to handle that one?

8 MS. MARTIN: Yeah, sure.

9 MR. THOMAS: When drill rigs have to demonstrate  
10 compliance with the increment, they can't do it without  
11 highline power as we -- with the existing increments. And  
12 one flowing issue from that, if you will, is that if a rig  
13 leaves a pad, one way to protect the increment by, you  
14 know, State decisions, is to stay away from the pad for two  
15 years. So drill rigs have to demonstrate compliance with  
16 the increment if they're on a pad for two or more years.  
17 But if they leave a pad, even if they're on it for less  
18 than two years, then the desire is, by the State, is for  
19 them to stay away from two years before they come back.  
20 Did I get that right, John?

21 MR. KUTERBACH: Well other than it being the desire of  
22 the State, that has been one option on -- and probably the  
23 most conservative option of the length of time between  
24 consecutive operations that would be reasonable to consider  
25 it has something new and not consuming the increment, more

1 or less, permanently. All right? But it's not -- it has  
2 not been established in any specific permit yet.

3 MR. THOMAS: Right.

4 MR. KUTERBACH: And so it's not really State policy  
5 that that has to be the time period. But it does raise a  
6 good point that the concept of operating for less than two  
7 years so that it doesn't consume increment, and then moving  
8 off, if another rig is immediately moved on, then you're  
9 having the same impact on ambient air as if the original  
10 rig stayed there the whole time. And so the question is  
11 how much time do we allow the air quality to recover before  
12 having another operation on the rig. Or if, operationally,  
13 you have to continually operate on the rig, what is the  
14 best way to address the air quality impacts?

15 MR. THOMAS: Does that -- is that problem fairly  
16 stated, though, that when increments are in play, when rigs  
17 have to demonstrate compliance with increments, the  
18 existing increments, we can't do it without highline power?

19 MR. KUTERBACH: But that's the existing rigs.

20 MR. THOMAS: Correct. When you say rigs do you mean  
21 the increments?

22 MR. KUTERBACH: Well the -- no. The existing  
23 increment and the existing equipment that we have.

24 MR. THOMAS: Right, right. Are rigs. You said rigs,  
25 not regs.

1 MR. KUTERBACH: Rig. Yeah, rigs, not regs. Okay.

2 MS. MARTIN: And then the other problem, you know,  
3 arguably somewhat less of an issue, but still an important  
4 issue that we've talked about, are the requirement that  
5 we've seen in direct permits to be responsible for  
6 maintenance of equipment that is on the rig, boilers,  
7 etcetera, that is outside of -- that is not owned by the  
8 lessees themselves, but is owned by contractors. And I  
9 know we talked about that a little bit last time. And it  
10 may just be a language clarification issue. It may be  
11 something really simple to fix where we, you know, bring in  
12 the draft permit language and say this is our  
13 interpretation of what this means. And you guys say, you  
14 know, well that's not what we intended at all, and we just  
15 work through that. But that's still an important one we  
16 want to make sure is addressed. But I think overall these  
17 issues highlight the larger issue, as Alice was saying, of  
18 desiring a more streamlined, efficient permitting process  
19 or just process for the operation of drill rigs on the  
20 Slope and in Cook Inlet and Alaska. And I think a lot of  
21 these problems stem from trying to permit the rigs right  
22 now as stationary sources.

23 MR. KUTERBACH: And so that's one possible option for  
24 solving the problem. Right now, if I understand rightly,  
25 the main problem is that the traditional way of obtaining a

1 permit is proving difficult for the drilling operations due  
2 to the tighter federal standards.

3 MR. BARRON: No doubt.

4 MR. KUTERBACH: So that's really the essence of the  
5 problem.

6 MR. THOMAS: When you say -- and just to be clear on  
7 one point. The traditional way is the way that we've done  
8 it in Alaska for the last decade or so. You know, permit  
9 drill rigs either via the Minor Permitting Program or  
10 through Title V. So I just wanted to define traditional  
11 ways, the way we've done it in Alaska for the last decade  
12 or so. It's not common anyplace else, but that's the way  
13 we've done it here. And with the tightening federal  
14 standards, it is becoming more difficult.

15 MR. KUTERBACH: And we've actually did permitting even  
16 longer than 10 years ago.

17 MR. THOMAS: We did? I guess at Alpine we did. We  
18 did at Alpine.

19 MR. KUTERBACH: We did it at various staged area  
20 sources. And I know ConocoPhillips did it differently from  
21 BP back in '90s, okay, when we had the program. The  
22 current generation, which is the last 10 years, is when  
23 we've had the Minor Permit Program, which was established  
24 in 2003 by the Legislature.

25 MR. THOMAS: Right.

1           MR. KUTERBACH: But before that, we had stationary  
2 source permits. So combined with the EPA negotiated  
3 definition of facility on the North Slope and the Minor  
4 Permit Program, those two things have combined to make it  
5 more regulatory than it had been. Although, we've always  
6 attempted to ensure ambient air quality compliance from all  
7 sources.

8           MR. THOMAS: So we -- you know, you heard what the  
9 three major problems are from the perspective of the  
10 lessees. But the question I have is does the State  
11 perceive a problem in the context of regulating drill rigs  
12 as temporary construction activities? And that's a key  
13 point. In that context does -- is there a belief that  
14 there's a problem with compliance with the National Ambient  
15 Air Quality Standards around these operations? Because  
16 that's a, to me, a pretty critical thing to ask and get on  
17 the table. Is there a perceived compliance -- or a  
18 perceived problem with compliance with the National Ambient  
19 Air Quality Standards? Because that's -- that's a big  
20 driver, it seems to me.

21           MR. KUTERBACH: I'm not really sure what you're  
22 asking.

23           MR. THOMAS: Well it gets at the whole purpose of  
24 regulating drill rigs in a stationary source permitting  
25 programs. You know, the purpose of regulating the rigs in

1 a program, I think, and I'm going to put this out here,  
2 John, for your response, but it was because of the concern  
3 about compliance with the National Ambient Air Quality  
4 Standards. Does that perception persist?

5 MR. KUTERBACH: The quality of emissions that a rig  
6 puts out clearly has -- if they were maximum emissions and  
7 the weather conditions are right, I believe we have no  
8 evidence to say that they couldn't threaten ambient air  
9 quality standards. So if the question is, is the  
10 perception that drill rigs are something we still have to  
11 look at for ambient air quality, I would say yes, we still  
12 have to look at them for ambient air quality. Whether we  
13 think they're actually threatening the ambient standard,  
14 you know, you provided some monitoring information at the  
15 last meeting. But as we know from other activities, the  
16 quantity and quality of data really needs to be specific to  
17 the issue at hand, have a good confidence that it shows  
18 what it's appearing to show. I mean we look at that with  
19 the global warming data that we had 15, 20 years ago.  
20 People weren't confident about that because of the data  
21 that they had and the conclusions they were trying to draw  
22 from it. So in this particular case, your information  
23 provides just that. It provides information. It provides  
24 an indication. But it does not provide proof, in our mind,  
25 at this point, that drill rigs are not a problem or

1    couldn't -- or would never be a problem.  That would be a  
2    better way to put it.  We don't think they're a problem  
3    now, but right now they're regulated.

4           MR. THOMAS:  That seems -- you know, if that's  
5    something that could be a problem or if it's a concern, it  
6    seems like we should capture that, perhaps, as one of the  
7    problems, you know, when we identify what the problems are.  
8    That's why I asked the question.  Is it -- I mean it --  
9    because that would be a driver to capture the drill rigs in  
10   a regulatory program.  Because outside of that -- outside  
11   of that, I'm not sure there would be one.

12          MR. KUTERBACH:  Yeah.  I don't know whether it's a  
13   goal or a guardrail.  Our interest is ensuring that we  
14   don't have ambient air quality violations.

15          MR. THOMAS:  Right.

16          MR. KUTERBACH:  And that we have -- we meet the Clean  
17   Air Act requirements, that we have rules in place that  
18   allow us to prevent ambient air quality violations.

19          MR. THOMAS:  Right.

20          MR. KUTERBACH:  All right.  If a well-defined, well-  
21   planned study showed that drilling operations have  
22   absolutely no chance of ever violating ambient air quality  
23   standards, I think we'd be perfectly happy pursuing that  
24   conclusion and not having any regulations for them.  I mean  
25   we don't have air quality regulations on people smoking



1 cigarettes out on the street, because we don't think it  
2 contributes to ambient air quality standards violations.  
3 Now it might be a public health thing, but that's not my  
4 realm. But I don't think we're there yet as far as  
5 demonstrating that drill rigs, unlimited operation,  
6 unrestricted operation, unregulated operation, if you will,  
7 of drill rigs would never cause an ambient air quality  
8 problem.

9 MR. THOMAS: Okay.

10 MR. MUNGER: Good afternoon, folks. This is Mike  
11 Munger again.

12 MS. EDWARDS: Hi, Mike.

13 MR. MUNGER: And I apologize for cutting in. One of  
14 the things that you said at the start of the meeting,  
15 Alice, was for speakers to identify themselves. And I  
16 apologize for not being there in person today, but it's  
17 extremely hard to follow who is actually talking. That  
18 would -- I think it would really help the people on the  
19 phone if you could do that.

20 MS. EDWARDS: We will endeavor to do better, Mike.

21 MR. MUNGER: Appreciate it.

22 MS. EDWARDS: That was a conversation between Brad  
23 Thomas and John Kuterbach.

24 MR. BARRON: Yeah, this is Bill. Part of what I'm  
25 hearing that tends to give me some concern is while we are

1 trying to make sure that the ambient air quality compliance  
2 is in existence, we're seeing a dichotomy of what are you  
3 basing that on. We're seeing, on one hand, a dataset that  
4 has been -- and it may not be -- it may not be  
5 representative. We'll just acknowledge that. But it's at  
6 least a dataset that's been presented of real data.  
7 Contrast that to a model that is based on what? I mean  
8 that's the frustration from a technical side. As an  
9 engineer, I look at a model, and I go if you don't know  
10 what the basis of the model is then you can't validate it  
11 with actual data. So I'm just wondering if we're -- if  
12 we're really comparing the right two things as we go  
13 forward in trying to formulate how the State needs to look  
14 at the impact of the emissions of the equipment. Is it  
15 going to be based on a model that might be a national  
16 standard, but based on what? Right? Again, big question  
17 marks in my mind, because I just don't understand it just  
18 yet. Or is it going to be based on, you know, ongoing,  
19 routine, actual data gathering to certain standards? It  
20 would -- I mean that's something I think we need to wrestle  
21 to the ground in some form or fashion. And if there's  
22 latitude on how we progress that, I think that would be  
23 beneficial. Because I kind of always fall on the fact that  
24 if I can measure something and validate the data that I'm  
25 getting, that's always better than a model that I probably

1 need to modify to end up matching the history that I'm --  
2 of performance. And then over time, the two get closer and  
3 closer together. That, to me, would be a reasonable  
4 approach going forward, but I just don't know how to do  
5 that. But to me, that's a real -- the elephant in the room  
6 is we're trying to judge and establish criteria based on  
7 something that isn't matching what we've measured. And  
8 that just doesn't seem to fit.

9 MS. EDWARDS: So this is Alice. I think one of the  
10 disconnects that we have when we talk about the monitoring  
11 data that's been presented and the modeling issue that --  
12 where they say we can't demonstrate compliance with the  
13 model, but we're demonstrating, you know, through the  
14 monitoring that we've looked at, we aren't seeing any  
15 problems with the NAAQS. The difference is that when we  
16 model for permitting purposes, we're looking at the  
17 allowable emissions for those units, when they operate, in  
18 whatever configuration it is, and wherever they're located,  
19 what those allowable emissions are. That may not be how  
20 they're actually operated in the real world, because  
21 everybody wants to have enough flexibility within their  
22 permit to have periods where they're running maybe at more  
23 of a maximum output. Other times, they may be running with  
24 less output. We could be looking at more than one rig in a  
25 particular area. So there's different configurations that

1 could happen. But when we're modeling for permitting,  
2 we're looking at the maximum allowable emissions that can  
3 exist in that location without creating a problem with  
4 either the standard increments, whatever those requirements  
5 apply. But that doesn't mean that in the real world that's  
6 actually how they're being operated. But in the permit, if  
7 you wanted to take and restrict that to make it look more  
8 like the actual operations, it might be that the model  
9 would perform more appropriately and might show that it's  
10 in compliance with the standard, just as the monitoring  
11 data does. But what we do in the permitting is -- I think  
12 we're permitting more emissions, potentially, than what's  
13 actually being emitted in the real world. And so because  
14 of that, and to get that flexibility, we're having  
15 troubles. That's why, I think, we see a disconnect between  
16 actual monitoring, which is happening under our regulated  
17 system already, so they're already meeting whatever permit  
18 requirements that they have, which have been designed to  
19 try and meet the ambient standards. Albeit, the one-hour  
20 standards didn't exist at the time that these were  
21 permitted. So I think there's -- I think when we go and  
22 look toward solutions on this modeling/monitoring aspect,  
23 one of the things we have to really ask ourselves is how do  
24 you really verify whether the model is being overly  
25 conservative versus what it actually would be produced

1 under those conditions versus, you know -- so the question  
2 is are we comparing the right monitoring to the right  
3 modeling? So if you took the monitoring data and you  
4 actually modeled those actual conditions, how would those  
5 compare? And I'm not sure we've done that at this point.  
6 But to me, that's how you would determine -- in a  
7 simplistic view, how you might determine whether the model  
8 is performing accurately. And it just may be that the  
9 model actually does -- it may or may not, the model may  
10 perform accurately. It may not. But that's the only way  
11 you could figure that out, I think, is to actually run the  
12 model under an actual condition where you have a lot of  
13 monitoring data that you can use to help calibrate it in  
14 some respects.....

15 UNIDENTIFIED MALE: And the metadata.

16 MS. EDWARDS: .....and the metadata that goes with it.  
17 And then you can figure out whether the model seems to be  
18 finding the concentrations that you're seeing in the real  
19 world. As opposed to a more inflated, perhaps, modeling  
20 exercise where you're trying to allow additional --  
21 potentially more emissions to be emitted, how far can we go  
22 before we violate those requirements, the NAAQS or the  
23 increment. I don't know if that helped?

24 MR. BARRON: No, that does help. But I think that  
25 that circular logic, I think is part of what's causing the

1 problem. Is you try and permit to a maximum operational  
2 potential, knowing that you're never going to do that, or  
3 have just a very remote chance of that activities taking  
4 place, and then you try and compare actual to a model. But  
5 no one can validate the model, because there's no actuals  
6 that the model is based on. So again, my head kind of just  
7 freezes when I'm trying to sit there and say how do I  
8 ground-truth the information. And the only way that I can  
9 do it is -- while I love models, right? As an old  
10 (indiscernible) engineer, models are really cool. But I  
11 tend to always know that I've got to modify the model with  
12 actual data. I mean, you know, and again I revert back to  
13 my old (indiscernible) days, is you just don't throw a  
14 model together without validating production history. I  
15 mean you change the model to match actual. So that may be  
16 something that the industry needs to come back to this  
17 group with is ideas of how do you do that. Is it  
18 preferential to permit based on what you actually think  
19 you're going to be operating at? And maybe that's a  
20 question for the regulatory portion of the community. Do  
21 you have a maximum for a period of time stipulation and a  
22 normal, general operation kind of, you know, base or is it  
23 all or nothing? And that's a question I don't know. But I  
24 think there needs to be some flexibility for the industry  
25 to understand that, yes, on the worst case scenarios, these

1 things might happen and, yes, we might run every piece of  
2 equipment and every boiler and everything that charges an  
3 emission all at one time for a period of time. But day in  
4 and day out, we have this operating condition. And kind of  
5 have a two-step process in terms of how you permit for  
6 that. That's one thing that I think we ought to think  
7 through, not knowing how the permit is structured to begin  
8 with. But to me, you've got two ends of the bookends. And  
9 I'm still trying to get -- you know, one of the goals that  
10 I would like to see through this is having more  
11 flexibility, having rigs being able to come and go off pads  
12 as needed without, again, violating the air quality  
13 standards. But being able to understand how do you get  
14 equipment on location, off location, you know, another  
15 drilling contractor coming on at a different time, without  
16 having this two year kind of benchmark. And it needs to be  
17 something -- and again, I think it's a process issue that  
18 we have to deal with, but being able to move on, move off,  
19 come in, go away with more flexibility I think is what is  
20 right for the State. But always keeping in mind that we  
21 don't want to violate the air standards. And I get that.  
22 But how do you get both? And there's got to be a way to do  
23 that. And it may be how we're measuring or modeling. We  
24 have a question?

25 MR. WILSON: Well, Bill, about 15 years ago, or I

1 can't remember how long, but we actually did actual  
2 modeling.....

3 MR. TURNER: Can you identify yourself?

4 MR. WILSON: Yeah, Ron Wilson with Doyon Drilling.

5 MS. EDWARDS: Can we get you closer to the mic,  
6 please?

7 MR. WILSON: And (indiscernible) Gordon, he just -- he  
8 came in kind of late.

9 MS. EDWARDS: Oh. Hi, Gordon.

10 MR. BROWER: I was stuck in traffic (indiscernible).

11 MR. WILSON: Yeah. As far as the modeling goes, about  
12 15 years ago, approximately, the IDC and all the drilling  
13 contractors worked with the oil companies and did an actual  
14 modeling of a rig on a location. We took the biggest rig  
15 with the, you know, more equipment than any rig, the worst  
16 case scenario. And I think it was a Parker 245 that they  
17 modeled on a pad for several months drilling wells. And we  
18 came way, way under at that time, you know, on the air  
19 quality measurements. And the model was 100 percent. And  
20 I argued that a lot and tried to explain that we can't run  
21 all that equipment at the same time. So you have all these  
22 coal-start engines, other small pieces of equipment, even  
23 coal-starts. They threw everything in the pot and ran  
24 everything at 100 percent and that was the model they were  
25 going to use for the emissions for a rig. And to us, it



1 didn't equate. We figured that when we do actual modeling,  
2 here we have the data, but the data wasn't used, so the  
3 model was a system of 100 percent of the equipment. And I  
4 don't know if it's changed, the modeling, since that time  
5 or not, but I do remember that. And maybe you remember the  
6 Layman Dirty Air Bill at that time? It was tagged with.  
7 And that's what we were trying to do at that time is what  
8 the federal regulations were just to keep the emissions at  
9 that. And we kind of lost the battle on that, so. But  
10 there has been actual modeling done and testing done to  
11 match up with models. So I think it can be done. We've  
12 come a long way as far as the type of equipment on there  
13 and emissions and, of course, the air quality has changed  
14 as well. It's monitored a lot closer than we ever have  
15 before.

16 MR. BARRON: Okay. Thank you.

17 MR. THOMAS: To follow up, Bill. This is Brad Thomas  
18 speaking. To follow up, Bill, on what you said, the way  
19 the Regulatory Program works, the Permitting Program works  
20 for any source that has to model is typically, and you can  
21 correct me if I'm wrong, John, but typically the rate at  
22 which you model and obtain your -- and demonstrate  
23 compliance to obtain your permit, that is the rate to which  
24 you're limited henceforth in the permit. And so if you  
25 model at a decreased capacity then you can't operate above

1 that capacity going forward in the permitted operations.  
2 So from my perspective, trying to model actual emissions --  
3 expected actual emissions to show that that expected actual  
4 operating rig still comply doesn't get us a whole lot,  
5 because it restricts us to that one scenario. And the  
6 unexpected conditions that one can find subsurface, let  
7 alone above the surface because of weather, demands that  
8 you have the flexibility to use different equipment at  
9 different times. And we don't want to be limited to  
10 operating at what we expect to be the actual conditions.  
11 It's just there's too much that could go on. And that's  
12 why we've made the case, since last December when we met  
13 the first time about this, that assurance exists based on  
14 monitoring data that the ambient air quality standards are  
15 being met. So our plea is to base the Regulatory Program  
16 on the ambient monitoring data that's been collected. And  
17 speaking for, you know, myself, I don't object to  
18 continuing collecting it. But what you brought up, though,  
19 is the -- is a central point. It has to be worked. You  
20 know, there's the traditional approach of modeling to get a  
21 permit, but modeling at potential or allowable emissions,  
22 versus what actually goes on and what the actual ambient  
23 air quality impacts are, which you do base your permitting  
24 decisions on? Which of the two? Can you bridge that gap?  
25 I don't know. I don't know.

1 MS. EDWARDS: And I think that's, you know, if we come  
2 back to the problems -- a problem statement, that's one of  
3 the things that we -- this is Alice, by the way, that  
4 that's, I think, one of the -- you know, if we're going to  
5 work through this particular problem, you know, there's  
6 probably a number of different ways that it could be  
7 approached. But, you know, I think there's -- I know it's  
8 going to be a pretty technical, you know, path forward. At  
9 least let's trying and find a recommendation on what might  
10 help to either inform that issue further or, you know, find  
11 a solution to that problem. I think there's some paths  
12 forward there, probably several different paths forward  
13 that could be taken and looked at. But it comes down to  
14 trying to figure out how to frame that within the context  
15 of the permit decisions that we are making.

16 MR. KUTERBACH: This is John Kuterbach. Maybe to  
17 circle back to what we're trying to do here. You know,  
18 we've had a good discussion, but I think we're trying to  
19 drift into how do we solve the problem rather than what is  
20 the problem.

21 MR. THOMAS: Yeah, you're right.

22 MS. EDWARDS: We're very good at that.

23 MR. KUTERBACH: Yes.

24 MR. BARRON: Well to that point -- this is Bill. To  
25 that point, I think we've identified that the discrepancy

1 or the utilization of model versus monitoring is a problem.  
2 I think we've identified that while it may not be a  
3 problem, it's a desires -- it's an acceptable outcome or a  
4 desired outcome, at least from some parties, is to have the  
5 ability to move equipment on and off location without a  
6 two-year hiatus or any timeframe. I mean it should be not  
7 a timeframe issue. It should be an air quality issue. And  
8 I may be mixing metaphors there, but, to me, one does not  
9 necessarily translate to the other. It might. I just  
10 don't know. I think there's a -- I think one of the  
11 problems is, is that we are trying to, or requiring, or  
12 asking the industry to model on worst case, but recognize  
13 that the probability of operating in a worst-case scenario  
14 is out in your P-99.9 realm, almost like never happens.  
15 But yet converse to that, the industry wants the  
16 flexibility to have that in their permit. So I mean it's  
17 -- you know, some of the time it's be careful what you ask  
18 for, because you might get it or it might hold you to a  
19 point where you can't do anything. So I think there's got  
20 to be balance between those discussions. So -- and  
21 undercutting all of that continues to remain that we want  
22 to stay within the ambient air compliance, knowing that  
23 that will continue to change. I think, because that's part  
24 of what's happening now, is you're now under a one-hour  
25 standard whereas before you didn't have that.

1 UNIDENTIFIED MALE: Right.

2 MR. TURNER: Do we have a question from the audience?

3 MR. EVANS: Hi. This is Wally Evans with Hillcorp.  
4 It seems like the group is on the right track. You know,  
5 they're trying to figure out modeling versus monitoring and  
6 how to cope with this problem. But it almost seems like  
7 we're trying to reinvent a wheel here. I mean across the  
8 country, drill rigs come and go. How do they do it? How  
9 do they comply with the same ambient air quality standards  
10 as Alaska has to comply with? That would be what I would  
11 be looking at to try to get, you know, a starting point on  
12 how to solve what seems to be a difficult problem.

13 MR. BARRON: So let me -- let me rephrase that. This  
14 is Bill. Let me rephrase that and maybe capture it in a  
15 different mode. Are we also dealing with definitional  
16 standards of rigs as construction? Is that part of the  
17 issue? Is there a definitional issue around what is a  
18 drilling rig, what is the operation associated with that  
19 rig, and are other state agencies defining it differently  
20 that allows different operational models?

21 MR. KUTERBACH: And this is John. And as a corollary  
22 to that, I think that's a very good point. What are the  
23 conditions and what are the sizes that they're operating on  
24 in the other states? You know, where does the ambient air  
25 begin around those drill rigs? You know, are they in the

1 middle of private land somewhere or are they -- do they  
2 have kind of the tighter ambient air boundaries that we  
3 have on the North Slope or in Cook Inlet? And what are the  
4 sizes of the units involved? Are they significantly -- the  
5 same size, bigger, smaller? All those things have to  
6 factor into how they're regulated down South versus what  
7 would be appropriate for Alaska.

8 MR. BARRON: Yeah, this is Bill. I think there's some  
9 good points there. In terms of rig size, I'm sure the  
10 industry can get us some comparisons of rigs. I don't know  
11 that I understand the difference between private air and  
12 public air, but I'm sure there's a difference there  
13 somewhere. If you -- I'm not trying to be factious. I  
14 really don't understand how that defines the difference of  
15 if it's private land versus public land.

16 MR. KUTERBACH: Not private land versus -- necessarily  
17 versus public land. It's a matter of the ambient air  
18 quality boundary. This is John again. The ambient air  
19 quality boundary is where the general public has access.  
20 Okay? And as we discussed last time, if you had a larger  
21 area around the drill rigs where the public was excluded,  
22 it would be easier to comply, even using the tools that we  
23 currently have for modeling.

24 MR. BARRON: Yeah, that would be an interesting --  
25 that would be very interesting to see, because a lot of the

1 operations in the Lower 48 are fairly proximal to roads,  
2 and those are public access roads. So I would offer that  
3 there's probably a -- while there may be a definitional  
4 thing that we need to think about, or the industry needs to  
5 think about, in terms of what is public, right? As we  
6 talked last time, the irony was that somebody from ASRC on  
7 location had a Doyon rig running, the Doyon employees would  
8 not be public, but the ASRC employee would be general  
9 public, even though they were under contract by the same  
10 operator.

11 MR. KUTERBACH: No. If they were under contract by  
12 the same operator then they were all considered employees.

13 MR. BARRON: Oh, okay.

14 MR. KUTERBACH: It's only if it's different -- under  
15 different control.

16 MR. BARRON: Okay. Well that's interesting, because I  
17 heard that differently. I appreciate the clarification.  
18 So, I mean, those are some of the definitional things we  
19 might want to work out is how does that play into -- is  
20 that another knob for us to turn relative to the gentleman  
21 from Hillcorp's question about how do other regulatory  
22 regions handle this same problem? Because they have the  
23 same problem. I'm sure they do. It's just how they -- how  
24 are they managing it?

25 MR. THOMAS: Well this is Brad. Just to clarify or

1 respond to what you said, Bill. You said they have the  
2 same problem. I'm not sure it is a problem. They have --  
3 and I'm not even sure they have the same issue that we're  
4 talking about here, because in the Lower 48, for whatever  
5 reason, we're not finding where states, perhaps outside of  
6 California, does anything with drilling rigs. They  
7 apparently treat them as mobile sources, non-road engines,  
8 beyond the reach of the Stationary Source Permitting  
9 Program. And there's evidentially been no measured ambient  
10 air quality issues connected to drill rigs that we know of.  
11 I do know that, like, BLM has taken an interest in drill  
12 rigs on federal lands in the context of environmental  
13 impact statements. But state programs, we're just not  
14 finding where states are addressing drill rigs at a  
15 Stationary Source Permitting Program. And to respond to  
16 what Wally stated as well. As a result, I'm not sure that  
17 they're doing anything. I'm not sure that they're doing  
18 anything.

19 MR. BARRON: This is Bill. You know, that -- if  
20 that's the case, that is a really, really big piece of  
21 information, you know, from my perspective. I mean if we  
22 are singularly looking at this kind of equipment, uniquely  
23 to the rest of the United States, that's something that we  
24 need to ask ourselves. If we are, why? And there may be  
25 very good reason. Right? I'm not saying it may not be a



1 good reason, I mean, if we are. But we need to be able to  
2 answer that question as a state and recognize that there  
3 might be a very good reason we do so. Conversely, there  
4 might be an epiphany going ah-ha, why are we doing that?  
5 So I think that's one of the problems that -- or issues  
6 that needs to be -- that this group needs to resolve is  
7 why, and should we, if we are that unique?

8 MS. MARTIN: And I agree with that. And I just wanted  
9 to also say that we have started to.....

10 UNIDENTIFIED MALE: Who are you?

11 MS. MARTIN: Oh, sorry. Thank you. Nikki with AOGA.  
12 We have started to look at other states. And our operators  
13 have started to reach out to their colleagues in other  
14 states and say, you know, hey, how are these regulated  
15 there. And the response, as Brad says, has been so far,  
16 you know, they're not permitted as stationary sources. And  
17 that they're, you know, allowed to transport their rigs on  
18 and off. And so I think that is worth pursuing, but I  
19 don't -- I'm not sure that it helps develop our goal  
20 statement now. I think that could be a really great, you  
21 know, agenda item in a future meeting where we all come in  
22 and say, look, you've talked to DEC offices in all other --  
23 you know, in some other states, in Texas and North Dakota  
24 or wherever, and here's what they're doing. And we say  
25 here's what we found from our contractors and our

1 operators. And that would be really helpful to developing  
2 a solution, but I don't think that's helpful to developing  
3 the goal statement. But I've heard a lot of really great  
4 things that I think we are all on board with. You know,  
5 upholding, ambient air quality standard, we don't want to  
6 be in violation of the ambient air quality standards. And  
7 I think any goal statement has to include that. And what  
8 that means and what that looks like, I don't think we're  
9 going to be able to determine that today. But it also has  
10 to allow for a flexible, as Bill said, and streamlined  
11 approach. So that's my two cents. So I don't know.....

12 MR. MUNGER: Part of this is -- this is Mike Munger.

13 MS. EDWARDS: Go ahead, Mike.

14 MR. MUNGER: Brad alluded to, with the exception of  
15 California -- Brad, could you maybe elaborate a little bit  
16 what California does on drill rigs for air quality  
17 standards?

18 MR. THOMAS: What I know about California, I saw  
19 referenced in a 1998 letter, I think signed by John Stone  
20 from ADEC, referencing a California registration program  
21 for drill rigs. That's all I know about it.

22 MR. MUNGER: Okay.

23 MR. KUTERBACH: And this is John Kuterbach.

24 MR. MUNGER: Thank you.

25 MR. KUTERBACH: I looked into it a little bit. I

1 haven't gone in depth on the California program. But as  
2 you know, California has a little bit different structure  
3 for their air quality regulation. A lot of their quality  
4 is done by the local air pollution control districts. And  
5 so, for example, Ventura County Air Pollution Control  
6 District has the registration program, but then they have  
7 extra requirements. They don't permit them as stationary  
8 sources. You're right, Brad. But they do have extra  
9 requirements. The first one is, they have to hook up to  
10 highline power if at all possible. If it's not possible,  
11 they have to demonstrate that it's not possible. And then  
12 they have to use best available control technology on the  
13 engines. And if it's a new rig coming in, they have to be  
14 Tier IV engines. So it's quite stringent, some of the  
15 control requirements, that could be part of that type of  
16 registration program.

17 MR. THOMAS: That's an outgrowth. This is Brad.  
18 That's an outgrowth of the Clean Air Act, Section 209(e).  
19 California gets to do this with non-road engines thing, now  
20 right?

21 MR. KUTERBACH: No. I don't believe it is. Because I  
22 believe California is allowed to -- they're not  
23 establishing emission limits. All right? All they are,  
24 are usage standards that they have to use. And any state  
25 can use those type of standards. The best available

1 control technology, that would be -- that might be a  
2 stretch. I'm not sure exactly where that comes from.

3 MR. THOMAS: Okay.

4 MR. MUNGER: This is Mike Munger again. From your  
5 limited research, either Brad or John on this issue, are  
6 drill rigs in other oil and gas producing states, are they  
7 all consider mobile sources or stationary or is there a  
8 mish-mash?

9 MR. THOMAS: Probably all mobile would be my guess.

10 MR. KUTERBACH: I don't know. I haven't done the  
11 research into that.

12 MR. MUNGER: Okay.

13 MR. THOMAS: Yeah, if they were considered stationary,  
14 Mike, they would be roped into permitting program  
15 routinely, I would think, because -- because it would  
16 include the engines and the potential to emit, and you  
17 would exceed minor permitting thresholds, which these  
18 states have.

19 MR. MUNGER: Sure. Thank you.

20 MR. BARRON: Well this is Bill again. I think that's  
21 a piece that we really have to boil down on. You know,  
22 that could be just a definition that we need to get our  
23 arms around as a team and ask ourselves why are we -- why  
24 have we labeled it one versus the other and what's the pros  
25 and cons. I'm not trying to, at all, be judgmental and

1 lean toward any direction right now. I'm just trying to  
2 identify that that's an issue that we need to kind of  
3 figure out.

4 MR. THOMAS: And this is Brad. Bill, the issue that  
5 you just mentioned that we need to figure out, can you  
6 restate it?

7 MR. BARRON: Whether it's -- you know, is it mobile or  
8 is it stationary, the rigs? You have non-road engine  
9 versus -- I mean that whole definitional thing that we were  
10 just discussing.

11 MR. THOMAS: I don't -- this is Brad again. I don't  
12 -- in Alaska, I don't think there's any disagreement or  
13 dispute about whether we consider the rigs to have non-road  
14 engines. I think we pretty much unanimously agree they're  
15 all non-road engines. And that would be case, unless they  
16 stay in one spot for 12 months or more, which doesn't  
17 happen. So does that.....

18 MR. BARRON: So how does that -- then I'm getting  
19 confused. I'm easily confused. You know, if it's a non-  
20 road engine and it's not, and therefore it's a non-  
21 permanent source, and everybody else is classifying them as  
22 non-road mobile sources, then how did we end up where we  
23 are? I thought we were where we are is because we defined  
24 them differently.

25 MR. KUTERBACH: Well, Bill, this is John. I don't

1 know, first of all, that your statement that everybody else  
2 calls them mobile sources is true. We haven't done that  
3 research yet.

4 MR. BARRON: Supposition.

5 MR. KUTERBACH: We haven't done that research yet. We  
6 agree that the non-road engines are regulated as mobile  
7 sources under Title II of the Clean Air Act. Okay? Title  
8 II of the Clean Air Act does not regulate heaters, boilers,  
9 incinerators, any other kind of emission sources. So those  
10 are not regulated under the Clean Air Act as mobile  
11 sources. Now what we have with a drill rig is a  
12 conglomerations of non-road engines and these other types  
13 of sources. All right? So the Clean Air Act wouldn't  
14 regulate drilling rigs, this combination. It does regulate  
15 the non-road engines as far as the purchase and, you know,  
16 what you can buy for non-road engines, and what those have  
17 to meet, the various tiers. The Clean Air Act also may  
18 regulate the boilers and heaters on there through federal  
19 stationary source standards, new source performance  
20 standards. So they're actually a mixture of both mobile  
21 sources and stationary sources, sources regulated under  
22 Title II of the Clean Air Act and sources regulated under  
23 Title I of the Clean Air Act.

24 MR. BARRON: Okay. This is Bill again. Now I know  
25 why I'm totally confused. It seems to me the emissions

1 standards.....

2 MR. BROWER: It seems to me the emissions standards --  
3 this is Gordon Brower from the borough. If you make a  
4 determination on the definitions of what is a mobile source  
5 and not, and make it and define it, you know. A drill rig  
6 with all these components, it seems to me, that boiler is  
7 now a mobile source.

8 MR. BARRON: That's exactly -- this is Bill. That's  
9 why we're so confused, Gordon. Thank you. I mean that's  
10 kind of -- how do you have an (indiscernible) of equipment  
11 and part of it being stationary and part of it being mobile  
12 on something that moves? I mean that's -- to me that's --  
13 you and I are saying the same thing. To me that's a  
14 confusion.

15 MR. BROWER: It's housed under a drill rig. That's,  
16 you know.....

17 MR. KUTERBACH: Well this is John. It all goes back  
18 to how the Clean Air Act regulates their pollution. Okay?  
19 The Clean Air Act has a specific title under -- under the  
20 Clean Air Act, Title II regulates mobile sources. And it  
21 does not regulate boilers and heaters and incinerators and  
22 stuff that moves, moves around, just because it moves  
23 around. Otherwise, anybody who wanted to permit an  
24 incinerator would put it on the back of a truck. All  
25 right? Because then you could just move it around. It

1 would be a mobile source. There would be no rules for it.  
2 So what the Clean Air Act does is it regulates things that  
3 are, under Title I, things that the Clean Air Act defines  
4 as stationary sources. And those stationary sources are  
5 the types of things that are not regulated under Title II.  
6 Title II regulates basically the manufacturers of engines  
7 and, you know, the purchase of engines and that sort of  
8 thing. And it regulates them that way, not because they're  
9 mobile, but because it's easier to control those types of  
10 sources by regulating the manufacturer at the federal level  
11 rather than letting each state regulate the sources at the  
12 state level.

13 MR. THOMAS: So this is Brad. John, everything you  
14 said is absolutely true and I agree. But regarding  
15 treating the small boilers and heaters that you find on  
16 rigs as mobile, you're right, in the Clean Air Act that's  
17 -- they're considered stationary sources and they're  
18 handled that way. But in this context, I think we have the  
19 luxury of being able to do that, because so far there's no  
20 federal emissions standards that apply to temporary  
21 boilers. Heaters that small are below the thresholds for  
22 the federal standards. And when you add up the potential  
23 to emit from those heaters and boilers on the rigs, they  
24 just don't -- they just don't rise to the level of the  
25 Minor Source Permitting Program. So it seems that we have



1 the flexibility in this context to treat the boilers and  
2 heaters on the rigs, just like we do the engines, as  
3 mobile. So we could do it. I mean it might take a little  
4 bit of math to demonstrate that, but it seems like we could  
5 do it.

6 MR. BARRON: This is Bill. I think that's a very  
7 worthwhile exercise for this group to take on in trying to  
8 understand what that does and then what kind of options we  
9 have once we have that dataset.

10 MR. KUTERBACH: This is John. Brad, I'm a little bit  
11 confused, because one of the problems that you had said was  
12 the maintenance requirements. Were those for the non-road  
13 engines?

14 MR. THOMAS: No. The context was the boiler met,  
15 before the rules were revised, to include the temporary  
16 weather provisions. That's why it came up originally.

17 MR. BARRON: Okay. So that issue is no longer an  
18 issue then?

19 MR. THOMAS: It's not immediate.

20 MR. BARRON: Okay. Just because it's always fun to be  
21 the one that's confused.

22 MR. MUNGER: You can add me to the list, Bill.

23 MR. BARRON: Yeah, but you don't have a room full of  
24 people looking at you and laughing, Mike. But I'm used to  
25 that so I'm good with it. I still think that an issue that

1 Nikki brought up is still a valid issue for us to resolve.  
2 And that is owner versus operator and the distinction  
3 between who is responsible for the maintenance and the  
4 documentation and compliance of the equipment. And I still  
5 think that's really important. Maybe to a lesser degree  
6 today, but, you know, I'm trying to project in the future,  
7 you know, if we have some resource plays that take off, and  
8 we have an elevated activity level with new contractors,  
9 new drilling equipment, you know, new operators, I really  
10 think it's important for us to think, not to solve the  
11 problem today, but kind of project ourselves out a little  
12 bit and ask ourselves where do we think we might be in five  
13 to 10 years and think that one through relative to the  
14 morass that might take place with the resource plan.

15 MR. THOMAS: This is Brad. And I agree, Bill. If you'd  
16 go back to the question you were asking a moment ago. The  
17 boiler (indiscernible), before it had the temporary boiler  
18 language in it, it had very prescriptive maintenance,  
19 recordkeeping, reporting requirements.

20 MR. KUTERBACH: Right.

21 MR. THOMAS: So it was very in-your-face, if you want.  
22 It was there. It was huge. And when we saw the language  
23 in the draft permit, it was a bit alarming, to say the  
24 least. Not so anymore, because of the temporary boiler  
25 language. The EPA, you know, corrected that problem by

1 including the temporary boiler provision, so it made that  
2 go away. But there is still some recordkeeping issues that  
3 apply to the lessee if they're carrying the rigs and  
4 permits for the contractors. And that would be the  
5 maintenance records associated with the state's good air  
6 pollution control practice standards. So there's that.  
7 Not as huge in my mind, but it's still there.

8 MR. KUTERBACH: All right. Well this is John. I  
9 don't quite understand the issue. I guess I'm the confused  
10 one now.

11 UNIDENTIFIED MALE: It's all so clear to me.

12 MS. MARTIN: Again, I think that might be something  
13 where we just bring in that draft language.

14 MR. THOMAS: Yeah. And this -- this was -- Mike knows  
15 all the language. I mean if the lessee remains the  
16 permittee, if you will, this is one that we can resolve  
17 with just some language. It doesn't seem huge, but it's  
18 still an issue until that language is ironed out. But it's  
19 not as huge as those first two issues that we raised.

20 MS. EDWARDS: All right, I tried to write something  
21 down, which you guys can -- I'm going back to the goal  
22 statement again. So listening to everything and knowing  
23 that we have a whole lot of different sort of multiple  
24 issues that we would want to talk about, but trying to  
25 bring us back maybe to a little bit higher level, this is

1 what I wrote down on my piece of paper. And you can see  
2 I've got like 85 cross-outs on it, so it's definitely not  
3 pretty. But maybe the goal of the workgroup is to develop  
4 recommendations to streamline the air permitting process  
5 for temporary drill rigs with a particular focus on both  
6 operational flexibility and compliance with the standards,  
7 air quality standards. And maybe that's the broad piece.  
8 And that under that, there are a number of these issues  
9 that relate back to it that we need -- that we want to  
10 explore to try and see if we can figure out how to make  
11 this more streamlined, more flexible, and still  
12 environmentally sound.

13 UNIDENTIFIED MALE: That's a good goal statement.

14 MS. EDWARDS: I don't know. If it's too broad, that's  
15 okay. I just -- I'm just trying to figure out if there's  
16 something we can coalesce around so that we can -- and then  
17 -- because I think all of these are subparts of trying to  
18 get there. But that's just my suggestion as maybe trying  
19 to coalesce around a statement that we could work with. Or  
20 somebody may have a completely different idea.

21 MR. THOMAS: Alice, this is Brad. Alice, maybe a  
22 suggestion.

23 MS. EDWARDS: Do you want me to write it up?

24 MR. THOMAS: If you write that on the board, and then  
25 we can take a break and people can think about it and then

1 maybe comment on it after the break.

2 MR. BARRON: Mike, I'll expect you to read this and  
3 read it back to us.

4 MS. EDWARDS: Sorry, my handwriting is not that good.

5 MR. THOMAS: Take me off mute, Mike.

6 MS. EDWARDS: All the people on the phone, I'm writing  
7 furiously. Okay. Can you sort of read that?

8 UNIDENTIFIED MALE: Yeah, we can.

9 MS. EDWARDS: That's what I said. So the goal of the  
10 workgroup is to develop recommendations to streamline the  
11 air permitting process for temporary drill rigs with a  
12 particular focus on both operational flexibility and  
13 compliance with air quality standards.

14 MR. THOMAS: Do you want to take a break and then.....

15 MS. EDWARDS: Do you want to think about that?

16 UNIDENTIFIED MALE: Yeah. Let's take a break and  
17 noodle on it a little bit.

18 MS. EDWARDS: How long you guys want?

19 UNIDENTIFIED MALE: Four hours.

20 MR. THOMAS: You know, we've gone for an hour and 10  
21 minutes. I feel like we got a lot done.

22 UNIDENTIFIED MALE: How about 10 minutes?

23 MS. EDWARDS: Do you want to do 10 minutes now.....

24 UNIDENTIFIED MALE: Yeah, do 10.

25 MS. EDWARDS: .....and we'll come back and pick it up

1 again?

2 UNIDENTIFIED MALE: Yeah.

3 MS. EDWARDS: Did you guys catch that on the phone?  
4 We're going to take a quick 10-minute break. We'll be back  
5 at about 25 after.

6 THE REPORTER: We're off the record at 2:12 p.m.

7 THE REPORTER: Back on the record at 2:27 p.m.

8 MS. EDWARDS: Thanks, Teresa.

9 THE REPORTER: You're welcome.

10 MS. EDWARDS: Great. So we're back from break. Just  
11 a quick check in, especially for the folks on the phone.  
12 Have we had anyone join the call who didn't introduce  
13 themselves originally? Okay, thanks. I just wanted to do  
14 a quick check, because I wouldn't know you're there if  
15 didn't sign in. We had a couple people join the room.  
16 Gordon Brower from the borough joined us partway through,  
17 and I think we mentioned that. And I think Ann Mason is  
18 here as well. Do we have anybody else who joined, after we  
19 did introductions, in the room? Okay. Thanks for that.  
20 So we're back from break. Where do you guys want to go  
21 next? Do you want to pick apart this or do you want to  
22 start wordsmithing or do you want to go a different  
23 direction or what do you guys think?

24 MS. MARTIN: I think we go ahead with discussing the  
25 goal statement if everyone else supports that.

1 MR. THOMAS: Yeah, let's work to finalize the goals  
2 statement. That seems like a good idea.

3 MS. EDWARDS: Okay.

4 MS. MARTIN: I think this is a really, really well  
5 written statement. And I'm not going to pick it apart, I  
6 promise.

7 MS. EDWARDS: Well you're welcome to.

8 MS. MARTIN: This is Nikki with AOGA, for the record.  
9 But I think we can -- I think it's general enough to cover  
10 all the issues we've discussed. But I think it might be  
11 worth considering listing some of those issues or adding  
12 something that says including, you know, initially looking  
13 at, and then start listing some of these bigger topics  
14 we've talked about like modeling versus monitoring, the  
15 definition of temporary, the definition of non-road  
16 activities. And I'm hesitant to say that, because I don't  
17 want to limit what it is we're looking at, but I think it  
18 could help provide the roadmap for our future meetings.  
19 So, you know, we pick a day and say we're talking about  
20 non-road definition or activities for this section of time,  
21 and we stay away from talking about modeling, or vice  
22 versa. I know they kind of go back and forth. But I think  
23 that would be helpful to provide a path for us to go  
24 through this process. And then I think also just adding --  
25 let's see, develop informed recommendations. I think that

1 would that help. Yes, I am wordsmithing.

2 MS. EDWARDS: That's all right.

3 MR. BARRON: But now we've got to be informed.

4 MS. MARTIN: Yeah. We have to be informed based on  
5 the list below. And then instead of temporary, you know,  
6 maybe that's something we need to explore, but I think we  
7 were thinking transportable drill rigs.....

8 MS. EDWARDS: Transportable?

9 MS. MARTIN: .....is more the category that it  
10 encompasses.

11 UNIDENTIFIED MALE: That wasn't my word, by the way.

12 MR. BROWER: It seems like putting transportable would  
13 still kind of lead into just being transportable, but it  
14 could still be considered -- I don't know. I think we were  
15 looking at definitions here and.....

16 MS. EDWARDS: Do we need the modifier or is it just  
17 drill rig? Can we have drill rigs in general? I don't  
18 know if we have a distinction there that we need to make.

19 MR. KUTERBACH: Well this is John. The -- and that's  
20 -- well I want to get kind of a little more definition  
21 around transportable versus temporary. What we're talking  
22 about is drill rigs that are designed to move and that  
23 actually do move. Correct? So they're not just designed  
24 to move and they're not just temporary, they're kind of  
25 both. They're not.....



1 MR. THOMAS: Let me just add. There's no drill rigs  
2 that don't move, are there?

3 UNIDENTIFIED MALE: The Liberty rig.

4 MR. THOMAS: Yeah, one.

5 MS. EDWARDS: Just one.

6 MR. THOMAS: The Liberty rig? That doesn't exist  
7 though, right?

8 UNIDENTIFIED MALE: Yeah. They're not operating it.

9 UNIDENTIFIED MALE: It's non-operating.

10 (Indiscernible -- multiple speakers at the same time.)

11 MR. KUTERBACH: How long would they stay at a  
12 particular site? You could let them set there for 10 years  
13 on the same -- I know they don't. I know they don't. What  
14 I'm saying is what's the length of time -- what's the  
15 maximum length of time a rig may stay at a site?

16 MR. THOMAS: If you define site as a well.....

17 MR. KUTERBACH: No, I don't define site as a well.

18 MR. THOMAS: Okay.

19 MR. KUTERBACH: I define site as a pad, at this point.

20 MR. THOMAS: In my experience in exploration  
21 production, which is five and a half years long, it's not  
22 been more than that threshold you're talking about, two --  
23 you're probably thinking of, in fact, two years. I've not  
24 seen them stand on location for that long. It's always  
25 less than that.

1 MR. KUTERBACH: Well we have drilling operators in the  
2 room here. Do we have any -- what's the maximum length of  
3 time that a rig may stay on a pad?

4 MR. WILSON: I say this day and age, not very long.  
5 We're moving rigs sometimes a few days to weeks to months,  
6 six months. It's not like it was in the older days when  
7 you had it on a pad and you get (indiscernible) drill up  
8 the pad before you can move this (indiscernible).

9 MS. EDWARDS: So for those of you on the phone, the  
10 answer to that question was weeks -- days to weeks to  
11 months, maybe six months is more typical for a duration of  
12 a rig on a pad these days.

13 MR. WILSON: Correct.

14 MR. BARRON: Yeah, this is Bill. Let's make sure we  
15 don't cloud ourselves with where we are today and not think  
16 about where we might be tomorrow. I mean if we think about  
17 new discoveries, you know, a pioneer kind of operation,  
18 what Repsol (ph) has come out publicly and said, I mean  
19 those could be brand new developments. They could be back  
20 to where we were Prudhoe, Kaparuk, 20 years ago. And let's  
21 also not forget we've got Cook Inlet. And I don't know how  
22 that rolls into the dialogue, but some of those platform  
23 rigs, and I know Hillcorp is doing some modifications on  
24 that equipment, but some of those platform rigs have been  
25 on those platforms since the day they were set. So let's

1 -- we've got to keep that in mind. I mean there is that --  
2 there is that spectrum that has to be reviewed.

3 MR. KUTERBACH: So in -- this is John. In the context  
4 of this workgroup, what do the workgroup members want to  
5 handle? Which drill rigs do we want to handle? Do we want  
6 to handle the permanent -- permanently placed rigs that are  
7 on platforms in this context?

8 MR. THOMAS: Are they -- this is Brad. If they're  
9 permanently placed on platforms are they non-road engines  
10 or no?

11 MS. KAUFMAN: No, they're part of the Title 5 permit  
12 for facility.

13 MR. THOMAS: Right.

14 MS. KAUFMAN: So then they're not -- I mean to me they  
15 would not be transportable. They would not fit into the  
16 scope.

17 MR. THOMAS: Okay. So we would not cover those.

18 MR. EVANS: Well but I think -- this is Wally with  
19 Hillcorp. I think what you would end up doing is just like  
20 you guys mentioned earlier, is if you could demonstrate  
21 that they were non-operational for the time that they were  
22 sitting idle, you know, disconnected from the fuel supply,  
23 whatever, to the satisfaction, then you could include them  
24 in this argument.

25 MR. KUTERBACH: Well, again, I'm bringing it back to

1 the workgroup members. This is John. What do we want to  
2 be able to handle in this? Because, you know, the  
3 universe of sources that we deal with is going to define  
4 the amount of work we have to do.

5 MR. THOMAS: This is Brad. Obviously, you know, the  
6 easy things to deal with are the transportable drill rigs  
7 that sit on a pad for less than two years. So, you know,  
8 we could tackle that one first. For more of the extended  
9 development drilling, where the rig may conceivably sit on  
10 a pad for more than two years, we might handle that second.  
11 Because it might be a little more -- there might be a few  
12 more issues to work through. For the types of rigs that  
13 you're talking about that they're permanently located on a  
14 platform, that's a new -- that's a new thing to me. So  
15 we.....

16 MR. EVANS: Well the difference is also logistics of  
17 the (indiscernible) rig on a platform is different than the  
18 logistics of putting a rig on pads. You know, you don't  
19 move the rigs on platforms. If you can leave it there  
20 until they can figure out where they're going with it next,  
21 you just let it sit. So you don't just wheel it off on a  
22 trailer.

23 MR. THOMAS: So perhaps can we handle that as a third  
24 category?

25 MR. EVANS: Possibly.

1 MR. THOMAS: So it seems like a step-wise way to  
2 handle it.

3 MR. BARRON: Yeah. I think that's a fine approach  
4 having, you know, and work our way through it and establish  
5 the priorities of which one we tackle first and second and  
6 third. I think it would be beneficial for us to at least  
7 put them on the list and work our way through it.

8 MR. KUTERBACH: Okay. And this is John again. So  
9 then does the word transportable add anything to this goal  
10 statement?

11 MULTIPLE SPEAKERS: No.

12 MS. EDWARDS: No.

13 MR. KUTERBACH: So we're back to temporary?

14 MS. EDWARDS: No, just the drill rigs.

15 MR. KUTERBACH: No, just drill rigs.

16 MR. MUNGER: This is Mike Munger. For clarification,  
17 for at least my end of the world here, since we do have two  
18 jackup rigs operating in the Cook Inlet, will this  
19 encompass those or is that a completely different category,  
20 too? Don't everybody speak up at once.

21 MR. KUTERBACH: Well this is -- this is John  
22 Kuterbach. Neither of those rigs are having any  
23 difficulties with their operation in this -- I mean there's  
24 nothing.....

25 MR. MUNGER: Compliance issues?

1 MR. KUTERBACH: Right.

2 MR. MUNGER: Okay.

3 MR. KUTERBACH: There's nothing in our regulations  
4 that's causing them any difficulties.

5 MR. MUNGER: Okay.

6 MR. KUTERBACH: So I'd rather not deal with those  
7 specifically within the context of this workgroup, if  
8 that's (indiscernible -- interrupted).

9 MR. MUNGER: In a little more specificity along the  
10 lines of the majority of Cook Inlet platforms now, now I  
11 haven't been on all those recently, but there's --  
12 according to my information, and there's a representative  
13 from Hillcorp there, maybe they can elaborate a little bit,  
14 but they just undertook a project in the last few years and  
15 removed the majority of six rigs on those platforms with  
16 the anticipation that they'll be using mobile rigs, moving  
17 from platform to platform, in the future. Now why that  
18 doesn't encompass all the rigs out there, XTO still has  
19 fixed rigs on their platforms, two platforms, and I think  
20 there's a couple others, I think the majority of Cook Inlet  
21 rigs, for Hillcorp anyway, may be of a mobile nature in the  
22 future. I may be off-base and Wally can elaborate on that.

23 MS. KAUFMAN: This is Kate Kaufman. We have two drill  
24 rigs on two platforms, which have been there since they  
25 were installed, and they will remain. There aren't any

1 immediate plans right now for bringing a transportable rig,  
2 but that may be a possibility in the future.

3 MR. MUNGER: Right. One is the (indiscernible), one  
4 in -- some other one, but the majority of rigs on the now  
5 Hillcorp platforms, I believe, have been removed. Is that  
6 correct?

7 MS. KAUFMAN: Yes.

8 UNIDENTIFIED MALE: Right.

9 MR. MUNGER: Okay.

10 UNIDENTIFIED FEMALE: So can I.....

11 MR. DAMIANA: This is Tom Damiana. I'd just like to  
12 add that, you know, neither of the jackup drill rigs have  
13 had to deal with the new standards, which -- so we don't  
14 know what that compliance situation would look like. And  
15 if the mission statement has to do with streamlining the  
16 regulatory process, the jackup rigs are far from a  
17 streamlined process considering, you know, the short time  
18 that they would be on site. They have to go through a full  
19 minor permit with, you know, a full suite of modeling.

20 MR. THOMAS: This is Brad. I concur with Tom. I've  
21 heard some feedback from somebody who has one of the jackup  
22 rigs. And they're concerned about their inability to use  
23 the Minor General Permit, for example, so they want to take  
24 advantage of a streamlined process. So perhaps we could  
25 catch those as a fourth category.

1 MS. EDWARDS: Well I guess my -- this is my -- this is  
2 Alice. I guess my question is are the issues that we've  
3 been talking about and that have been raised, the more  
4 specific issues, are they primarily -- they seem -- I don't  
5 know. I guess my question is we've got these different  
6 categories of rigs. I clearly understand how some of the  
7 issues that we've talking about apply to the rigs that are  
8 actually transporting and moving around on a regular basis.  
9 I don't know how many of these issues are problems, per se,  
10 for either the fixed rigs that are, you know, staying in  
11 place, or is the Minor General Permit an issue, are those  
12 exploratory rigs an issue, the jackup rigs like we just  
13 discussed. And I guess my question was -- I mean I feel  
14 like we're broadening this and capturing more rigs than I  
15 think I had originally envisioned, but -- and that's fine  
16 if that's where the group wants to go, and we perceive that  
17 they have -- they have issues that need resolving. I'm  
18 just -- was wondering how many of these issues truly  
19 translate -- that were specific issues, truly translate  
20 over to these other categories of rigs? I understand the  
21 desire to make sure that all the rigs have a reasonable,  
22 streamlined approach for permitting that works, but I just  
23 don't know how many of these other categories really are  
24 having significant issues either getting their permits or  
25 complying with their permits or complying with the



1 standards when they're doing this.

2 MR. THOMAS: Well this is Brad. In the case of the  
3 jackup rigs in (indiscernible) waters, which is, you know,  
4 within the northern region of Cook Inlet, they have the --  
5 they have the same regulatory program as the rigs on shore.  
6 The only difference between the two is that the rigs -- the  
7 jackups are in the water. The ones on land are not. But  
8 they have the same compliance, permitting programs,  
9 structural issues. If they don't have them now, they will.  
10 And where they're deployed, I don't think when you look at  
11 a rig on a pad on the North Slope and how it's operated and  
12 how long it stays there and moves, I think a jackup is  
13 pretty similar in, you know, how long it goes out there,  
14 stays, and then moves. Is that -- that's been my  
15 experience.

16 UNIDENTIFIED MALE: (Indiscernible -- away from  
17 microphone) out there quite a bit. They take them off  
18 (indiscernible -- away from microphone).

19 MR. THOMAS: So what we.....

20 MR. KUTERBACH: This is John. The difference with the  
21 jackup rig is they're not going to a pad. All right? And  
22 so they move to their various locations, but it's not --  
23 there are differences where you're not having them come  
24 back to the same location.

25 MR. THOMAS: That's true.

1 MR. BARRON: Not true.

2 MR. THOMAS: Not true?

3 MR. BARRON: Not true.

4 MR. THOMAS: Okay.

5 MR. BARRON: They can come back to essentially -- in  
6 fact, the most recent drilling by Fury came back to the  
7 exact same location and reentered the temporarily-abandoned  
8 wellbore to reenter and drill out from one drilling season  
9 to the next. So eight months later, they came back to the  
10 exact same location, literally. So I mean I think we --  
11 however, you know, back to the definition of general  
12 public, I would offer that general public is fairly limited  
13 in their accessibility to that jackup in the inlet. So  
14 that may fall into a whole other definitional structure.

15 UNIDENTIFIED MALE: Well -- and we do allow for that  
16 in modeling with the.....

17 MR. BARRON: So, you know, can we think about the  
18 highest priority and the most -- where all of us are trying  
19 to figure out the most bang for the buck is probably not  
20 fixed offshore facilities and probably not jackups. But if  
21 we can work our way through on-land drilling rigs, and I  
22 think -- I think go ahead and classify them as  
23 transportable, I mean we're back to adding the word back  
24 in, and work our way through that. I mean if we -- if we  
25 kind of narrow it down, I mean that's not a whole lot of

1 narrowing. We're talking onshore transportable drilling  
2 equipment. That will cover, what, 95 percent of the  
3 problems that we're talking about? I mean that would only  
4 end up with Liberty, if it ever gets put back together,  
5 fixed-platform installations.

6 MR. EVANS: This is Wally with Hillcorp. You know,  
7 for offshore, like Kate was saying, we are bringing -- we  
8 are mobilizing sources that move from platform to platform.  
9 And I can see the same problem with offshore as onshore,  
10 when the 24-month rule was in effect, where we can't bring  
11 it back on. You know? Because, typically, the drill rigs  
12 will stay for a drilling season, which is a summer, and  
13 then move to another platform for a summer, but they may  
14 want to come back, you know, within a reasonable time. Now  
15 the fixed ones are different. But like Kate said, we only  
16 have two of those.

17 MR. BARRON: Well then, okay, then let's just take the  
18 word onshore and just take -- put it back in as  
19 transportable.

20 MR. EVANS: Right.

21 MR. BARRON: Because I would offer that you guys can  
22 work year round on a platform. You're not -- you don't  
23 have a drilling window of summer months only.

24 MR. EVANS: Right. Correct. Right.

25 MR. BARRON: At least you used not to. So I guess

1 we're back to transportable drilling rigs?

2 MS. MARTIN: Before.....

3 MR. BARRON: Before you add it in, Wade?

4 MS. MARTIN: Yes. This is Nikki with AOGA. Before  
5 you add it back in, taking into consideration my seat as  
6 representing the industry as a whole and not just AOGA  
7 membership, I don't see them here today, but somebody who's  
8 been here in the past on behalf of Fury and Buccaneer has  
9 presented concerns to me about drill rigs specifically in  
10 the Minor General Permit Program. And I know, you know,  
11 their hope was that that would be compassed. And I think  
12 when we talked in the first meeting that making sure that  
13 Cook Inlet concerns were addressed, and I'm not proposing  
14 how it happens or what that looks like, you know, we were  
15 including not only the Hillcorps but also the jackup drill  
16 rigs. And so I know that they've had some concerns with  
17 trying to determine what sources should be included under  
18 Minor General Permit on their jackup rig. And then also  
19 some modeling requirements that, you know, they were just  
20 unclear of the definition for modeling requirements. So I  
21 don't want to -- you know, I don't want to make a.....

22 MR. BARRON: No, no, no. I.....

23 MS. MARTIN: .....decision right now to take that  
24 completely off the table without.....

25 MR. BARRON: No. This is Bill. Ironically, I think

1 by saying transportable, they clearly land in the bucket.

2 MS. MARTIN: Okay.

3 MR. BARRON: Because by definition, they're a  
4 transportable drilling rig. As long as we take onshore --  
5 and, you know, because we talked about just having it for  
6 onshore, if we take the word onshore off and go back to  
7 transportable drilling rigs, in my mind, they clearly --  
8 they're almost -- they're a poster child for the definition  
9 of transportable. They're just not on wheels. So I think  
10 they fit within the definition.

11 MS. MARTIN: Okay. I just want to clarify.

12 MR. BARRON: No, that -- what does the rest of the  
13 team think?

14 MR. THOMAS: I agree. One thing I wanted to make sure  
15 that -- I'll say this then seek concurrence. But what  
16 we're talking about is a program that addresses drill rigs  
17 which are largely non-road engines. So if all the  
18 equipment -- if all the rig categories we're talking about,  
19 if everybody agrees that those are non-road engines because  
20 they move around, then we can do that. We can translate  
21 the solutions to the onshore problem to the offshore. So  
22 that's what I throw out there, because I want to hear  
23 John's feedback.

24 MR. KUTERBACH: Well not all drill rigs are non-road  
25 engines.

1 MR. THOMAS: Well when we're talking about the  
2 jackups, that's what I'm talking about specifically. The  
3 ones that are permanently affixed to a platform and don't  
4 move. That's what I'm talking about.

5 UNIDENTIFIED MALE: No, no. Wally, would you like to  
6 speak to that point?

7 MR. EVANS: Go ahead.

8 UNIDENTIFIED MALE: Hillcorp has a turbine-driven rig  
9 that's transportable, or will be transportable, but they  
10 haven't mobilized it yet.

11 MR. THOMAS: I didn't know that.

12 MR. KUTERBACH: This is John. I don't see any reason  
13 why adding transportable adds anything to the goal  
14 statement.

15 MR. BROWER: You know, a drill rig, by definition,  
16 should just be a drill rig. It's designed to be temporary  
17 until production is there, and you go back and rework the  
18 well at some point.

19 MR. KUTERBACH: Yeah. I mean if it's a permanent  
20 drill rig then it should be permitted as a stationary  
21 source, and we shouldn't have a special process anyway. So  
22 I don't think it's really going to add any difference to  
23 our goal statement. That's my vote.

24 MS. MARTIN: I concur.

25 UNIDENTIFIED MALE: I think that's fine.

1 MR. THOMAS: I'm good.

2 MR. KUTERBACH: We can come to.....

3 MS. MARTIN: Either (indiscernible) I added that in.

4 MS. EDWARDS: Okay. What else have we got?

5 MR. BARRON: I'd like to talk about the word  
6 streamlined. I don't -- in my mind, I don't know that I'm  
7 -- if this team is trying to streamline -- while that may  
8 be an end result, to me, we're trying to modify, refine,  
9 optimize, clarify, something.....

10 MS. EDWARDS: Pick your word. Improve?

11 MR. BARRON: Yeah, improve. But to me, it's not  
12 streamlined.

13 MR. MUNGER: How about clarify?

14 MR. BROWER: How about we're trying to make it  
15 predictable?

16 MS. EDWARDS: Say that again. Was that Mike?

17 MR. KUTERBACH: Mike, what did you say?

18 MR. MUNGER: Possibly clarify?

19 MR. KUTERBACH: Clarify works.

20 MR. BARRON: Gordon mentioned predictable.

21 MR. KUTERBACH: Predictable.

22 MR. THOMAS: This is Brad. What about develop  
23 recommendations -- develop informed recommendations to,  
24 pick your word, the regulatory process for drill rigs,  
25 rather than have permitting?

1 MR. BARRON: No. That opens us up to all sorts of  
2 issues that could involve AOGCC and.....

3 MR. THOMAS: Well air regulatory process then.

4 MR. BARRON: Okay.

5 MR. THOMAS: Air regulatory process -- to replace the  
6 word permitting with regulatory.

7 MR. KUTERBACH: Okay. I don't have a problem with  
8 that. This is John.

9 UNIDENTIFIED MALE: Do you have a problem with  
10 changing permitting to regulatory?

11 UNIDENTIFIED MALE: Permitting to regulatory. I think  
12 that's fine.

13 MR. KUTERBACH: All right.

14 MR. THOMAS: Does that -- does that -- and the word  
15 streamlined, does that make sense to be there in that case?

16 MR. BARRON: To me, streamlined still doesn't fit.

17 MR. THOMAS: Okay.

18 MR. BARRON: I mean because I'm not -- I'm not cutting  
19 any time off. To me, streamlining is you're cutting time  
20 off of a process. And that's not, I don't think, the goal  
21 here. I mean.....

22 MR. THOMAS: That's true.

23 MR. BARRON: If the goal was the cut time off the  
24 process, you know, I'd be asking you guys well why are you  
25 permitting the way you are? Right? If it's - if it's a



1 matter of streamlining, it's change out your darned engines  
2 regardless of cost. Right? And then you've really  
3 streamlined. I don't think that's the -- do you see where  
4 I'm going with that? I mean to me, we're trying to --  
5 recommendations for predictable or clarify or.....

6 MR. BROWER: Just recommendations.....

7 MR. KUTERBACH: This is John. I suggest we use the  
8 word improve. I think that covers every possible  
9 configuration that you have of changing, streamlining,  
10 modifying....

11 MR. BROWER: Well I think you want to develop a  
12 recommendation to provide for a predictable air quality  
13 regulatory process.

14 MR. THOMAS: Well, Gordon, this is Brad. The word  
15 predictable is a very broad word. And it could be  
16 predictable that their regulatory process for drill rigs is  
17 a process that results in no permits for drill rigs,  
18 predictably. And that's not an outcome I think we want.  
19 The word improve is satisfactory to me.

20 MR. KUTERBACH: Mike, what do you think?

21 MR. MUNGER: I try not to.

22 MR. KUTERBACH: That's why you're on the team.

23 MS. EDWARDS: Mike, do want us to read the statement  
24 again as it is right now?

25 MR. MUNGER: Please.

1 MS. EDWARDS: Okay.

2 MR. MUNGER: Yeah. There's been terms being going all  
3 over the place here a little bit.

4 MS. EDWARDS: Yeah. So the goal of the workgroup is  
5 to developed informed recommendations to improve the air  
6 regulatory process for drill rigs with a particular focus  
7 on both operational flexibility and compliance with the air  
8 quality standards. And then we want to include some  
9 additional language toward the end about some of the  
10 specific areas we want to explore. And we haven't quite  
11 figured out what that wording is yet, but that's the  
12 statement at the moment.

13 MR. MUNGER: Does the word improve, could that be  
14 taken as -- you know, and that may well be the case, but  
15 I'd be remiss if I didn't point it out, but does that point  
16 toward they're currently substandard? When you're trying  
17 to improve something, well why are you trying to improve  
18 it? Because, you know -- so I don't know if I'd go with  
19 the word improved, but I -- frankly, I don't have any  
20 recommendation to -- for a replacement there either.

21 MR. BROWER: That's a good question, I think. I mean  
22 is this the -- have we been using the right structure for  
23 this permitting? I mean it goes back to some of the  
24 questions related to what is Wyoming doing, what is  
25 California doing. And it's an altogether -- an alternative

1 structure then so you don't have to reinvent the wheel some  
2 more.

3 MR. BARRON: But to that regard -- this is Bill. I  
4 think you're right. But to me, that is encompassed in  
5 improved, so.

6 MR. EVANS: And this is Wally. I think that goes back  
7 to what Bill had said a couple of meetings ago that what  
8 was good 20 years ago may not -- may have been great back  
9 then, but we're not improving, we're changing with the  
10 times. So things have changes. The NAAQS have changed.  
11 The conditions have changed. So now we've got to change.  
12 You know, so improved doesn't necessarily mean it's broken.  
13 It just means it's different today than it was when it was  
14 developed.

15 MR. THOMAS: I can certainly land on improve.

16 MS. MARTIN: I can, too.

17 MR. THOMAS: Same here.

18 MR. TURNER: We're seeing a group of nodding heads in  
19 improve.

20 (Pause.)

21 MS. EDWARDS: I'm thinking. So other thoughts on  
22 this? I realize we probably need to wordsmith the ending  
23 here a little bit. But I was thinking about Gordon's point  
24 on predictability. And I'm wondering if -- I mean I have  
25 yet to find -- I could be wrong. You folks can tell me if

1 I'm way off base. Typically, you guys are looking for some  
2 sort of predictability as well. So I don't think that that  
3 was a bad thought at all to be thinking about. I don't  
4 know if we wanted to include that concept in here or maybe  
5 in -- below. But, you know, because you could look at  
6 particular focus on operational predictability, operational  
7 flexibility, compliance. I mean you could add it in to  
8 there.

9 MR. BARRON: I think -- I think that would be fine.  
10 You know, take out both and put in predictability.

11 MR. THOMAS: That's appropriate. I mean because  
12 predictability is pretty central to a regulatory process.

13 MS. EDWARDS: I mean, typically, I hear that a lot. I  
14 mean you guys want to have predictable processes. And  
15 clearly the point of everybody getting together to work on  
16 an issue like this is to see if we can find commonalities  
17 that allow for a more predictable process for everybody.

18 MR. THOMAS: So the word would be predictability,  
19 comma.

20 UNIDENTIFIED MALE: Comma.

21 MS. EDWARDS: Our scribe has failed.

22 UNIDENTIFIED MALE: You can wordsmith it later.

23 MR. THOMAS: That goal statement looks good to me.

24 MR. BARRON: So let's read it one more time for Mike.

25 MS. EDWARDS: So, Mike, here's what we've got right

1 now. The goal of the workgroup is to develop informed  
2 recommendations to improve the air regulatory process for  
3 drill rigs with a particular focus on predictability,  
4 operational flexibility, and compliance with the air  
5 quality standards.

6 MR. MUNGER: I'm fine with that.

7 MS. EDWARDS: Okay. Excellent work, everybody.

8 UNIDENTIFIED MALE: Right on time.

9 MR. THOMAS: I know. I was just going to say that.

10 MS. EDWARDS: And right on time. So I wanted to come  
11 back to Nikki's comment that we should add something that  
12 sort of outlines some of the areas that we wanted to  
13 explore and whether we want to -- I mean we can add it as,  
14 you know, onto this goal statement. But how do we want to  
15 frame that? Because I agree with you that it would be nice  
16 to lay some of these things out, but I also don't -- like  
17 you said, I don't want to limit our -- you know, we need to  
18 have some scope limitation for ourselves, I think, but I  
19 also don't want it to be perceived that those are the only  
20 things that we could potentially look at if -- as we move  
21 forward if we find that something leads us in a particular  
22 direction or another that we, as a group, feel is important  
23 to explore.

24 MR. BARRON: The classic line, including, but not  
25 limited to.

1 MS. MARTIN: Right. Or -- this is Nikki, something,  
2 you know, initially the workgroup will look at or address  
3 the following. Because, you know, undoubtedly, looking at  
4 any one of these categories is probably going to lead us to  
5 looking at a whole host of other issues we had not  
6 anticipated. Maybe not a whole host. Another issue.

7 MR. MUNGER: So is the suggestion that we add to the  
8 goal statement or try to put more specificity in the goal  
9 outlines?

10 MS. EDWARDS: Well that's the question we're kind of  
11 working through.

12 MR. MUNGER: That's what we're working on right now?

13 MS. EDWARDS: Whether or not we should add.....

14 MR. MUNGER: My suggestion is we leave the goal  
15 statement as is and -- because that encompasses a really  
16 broad range. And, frankly, I think if we start putting in  
17 too much specificity on that goal statement, it's, frankly,  
18 a little bit limiting.

19 MS. EDWARDS: Okay.

20 MR. THOMAS: Was that Mike speaking?

21 MS. EDWARDS: Yes.

22 MR. MUNGER: Yes, it was. I apologize.

23 MR. THOMAS: Well this is Brad. I think I agree with  
24 Mike. The goal statement is the mission. And then we  
25 spend our time now developing tactics so we can capture

1 those at a different place, if you will.

2 MS. MARTIN: The approach -- the approach -- a more  
3 detailed approach to.....

4 MR. THOMAS: Yeah. Well maybe we can call these the  
5 strategic items and -- it's a window washer -- the  
6 strategic items and, you know, we identify strategic items  
7 then we can list the tactics under each one. But that.....

8 MR. MUNGER: As the representative for AOGA, and I  
9 apologize for forgetting your name, but as you were  
10 speaking to this in saying that, you know, that one thing  
11 could easily lead to another, and that's why I'm a little  
12 hesitant about putting any more in the goal statement,  
13 because I believe you're correct there. And one thing will  
14 lead to another, and lead to another, and lead to another.  
15 And so to kind of put -- try to put sidebars on that right  
16 now, I think would be a little premature. And so that's  
17 why I'm advocating for kind of leaving the goal statement  
18 as we've just hammered out.

19 MS. MARTIN: And this is Nikki. And I agree with  
20 that. I certainly don't want to limit what it is we're  
21 looking at or all the -- you know, especially, we're  
22 getting into what's the definition of non-road engine, but  
23 I don't want it limited to that level of specificity, but I  
24 think it would be productive if we could layout some sort  
25 of roadmap. Because I agree that the mission statement or

1 the goal statement, it's good and it provides enough  
2 flexibility and it's broad enough to encompass all the  
3 issues, but it doesn't necessarily provide a structure for  
4 us to start laying out how we achieve the goal. So I guess  
5 my suggestion was more of how are we going to start  
6 addressing these things. Maybe identifying some of the  
7 topics?

8 MR. BARRON: Yeah, this is Bill. In listening to the  
9 dialogue, maybe if we have a -- I think everybody is right.  
10 I think keeping the mission statement, you know, succinct  
11 and crisp is a really good idea. And now maybe what we  
12 need is a section that, for lack of a better term, you  
13 know, strategic topics.

14 MR. MUNGER: Strategic plan. Yeah, something like  
15 that.

16 MR. BARRON: Yeah. If you've got strategic topics and  
17 then you could have a plan of each one of those topics.

18 MR. MUNGER: Right. Yeah.

19 MR. BARRON: You know, then we kind of layout -- I  
20 mean we're building a framework for the dialogue. So, you  
21 know, whatever those strategic topics are, let's try and  
22 get those listed.

23 MS. EDWARDS: All right. Do you want me to -- can I  
24 erase this? Has everybody.....

25 UNIDENTIFIED MALE: Has our scriber adequately caught



1 it?

2 MS. EDWARDS: I'm sure it's in the transcription. And  
3 then we could start -- so we can use the board a little  
4 bit, because I think it helps sometimes to be able to  
5 visually see stuff.

6 UNIDENTIFIED MALE: Okay. We have no objectives on  
7 the board. We're done.

8 MS. EDWARDS: And we can laugh at you, Tom, as you  
9 scribe. So just write strategic topics up there and we'll  
10 work with that for now.

11 MR. BARRON: Same topics?

12 MS. EDWARDS: Yes.

13 MR. THOMAS: Same topics.

14 MS. EDWARDS: So what are the -- so I kind of see this  
15 as sort of what are the -- right now we've got a list of  
16 issues that we need to explore further. I've heard we need  
17 to explore sort of the -- well there's the -- at one level,  
18 there's the definition issue. Sort of the approach -- I  
19 can't think of the right -- I haven't quite figured out  
20 what the right word is in my brain, but. So you have this  
21 sort of definition issue about what's happening in Alaska,  
22 what other states are doing, sort of what are the various  
23 regulatory approaches that exist for drill rigs both in  
24 here and in other places to see if -- exploring other  
25 regulatory approaches. So that's sort of -- that's the

1 definition piece. I also heard -- I mean we obviously have  
2 a modeling issue that we need to explore. And, you know,  
3 how to -- which sort of comes back to how do you  
4 demonstrate compliance. I mean how do we determine  
5 compliance, with whatever approach we're using, with the  
6 air quality standards? What else have we talked about?

7 MR. BARRON: I think another one is, and again I'm  
8 going to screw it up, so we'll just say that up front, is  
9 this whole idea of bundling temporary sources with  
10 permanent sources and how they're bundled together or not  
11 bundled. I think there needs to be some work around that.  
12 Stationary sources on mobile equipment, are they really  
13 stationary or are they mobile? And is there thresholds  
14 that we need to establish or look at? Is that making any  
15 sense?

16 MR. THOMAS: It does. It does.

17 MS. EDWARDS: Uh-huh (affirmative). Yeah.

18 MR. THOMAS: And I think all we're talking about is  
19 heaters and boilers and engines, right? That's.....

20 UNIDENTIFIED FEMALE: Yes.

21 MR. THOMAS: Because the heaters and boilers just have  
22 a different -- they're in a different category than the  
23 non-road engines. So it's can we -- how do we put those  
24 together?

25 MR. BARRON: Yeah. How do we bundle that

1 intelligently?

2 MR. KUTERBACH: This is John. A couple of things that  
3 I thought of that we haven't talked about yet is the public  
4 input, which is accomplished now through the Permitting  
5 Program. But if we move, in some ways, away from that, we  
6 want to make sure we address that aspect of it. Another  
7 thing would be if there's any mechanical or control  
8 equipment solutions that could contribute to improvement.

9 MR. THOMAS: Just for the sake of getting it out  
10 there, John, and this is Brad. When you say control  
11 equipment can you list some categories of what you're  
12 thinking regarding control equipment? I mean, you know,  
13 what comes to mind, obviously, is things like SCR, you  
14 know, select-catalytic reduction, but do you have other  
15 things in mind?

16 MR. KUTERBACH: I don't have anything in -- specific.  
17 I'm not aiming toward anything. I'm just trying to get  
18 categories of topics that we ought to discuss as part of  
19 our development of the solution.

20 MR. THOMAS: Okay.

21 MR. BARRON: You know, and I -- you know, maybe it's  
22 control equipment/equipment modification. It may be part  
23 of that answer is engine chain-outs or -- and just as a  
24 broad category. Do we need a category of compliance with  
25 air standards? I mean do we -- we always have to do a loop

1 back on are we in compliance with requirements.

2 MS. EDWARDS: Well and that's why I put how to  
3 determine compliance, because we have this  
4 modeling/monitoring question which has been raised. But  
5 when you look at -- you know, if you look at modeling and  
6 you think about what are we going to model and what will  
7 work and what won't work, and then you start feeding in  
8 well -- then you start thinking about well what kind of  
9 controls are there.....

10 MR. BARRON: Okay.

11 MS. EDWARDS: .....the ambient boundary issue, the --  
12 is the model performing appropriately issue, the, you know,  
13 are restriction -- you know, is restricted operations  
14 something that might work? Are there other ways to look at  
15 operation in a way that would allow us to permit if we were  
16 going to stay in a permitting world? You know, what -- I  
17 think there's all sorts of things that feed into that, but  
18 it's all about how we ultimately determine whether there's  
19 compliance or not. So there's a lot wrapped up in there.

20 UNIDENTIFIED MALE: Okay. That's fine.

21 MS. EDWARDS: And I don't know how to deal with that.  
22 But I think we have to have some -- we have to have some --  
23 as John said, it's sort of like if we don't look at control  
24 equipment, we're missing part of the equation that could be  
25 part of a solution. Because it might be that, for some

1 things, maybe it's figuring out a way to upgrade the  
2 equipment might be a solution, but it depends on how it's  
3 approached. It might be that looking at how the -- you  
4 know, we draw the boundaries of the pads or the -- for the  
5 leases or whatever, might be an approach that might help  
6 alleviate some of the compliance modeling concerns. So  
7 there's, I think, a number of different directions that we  
8 could go on in several of these topics. If we wanted.....

9 MR. MUNGER: This is Mike again.

10 MS. EDWARDS: Go ahead, Mike.

11 MR. MUNGER: John, you mentioned earlier that you had  
12 concern on the public component on this. Could you  
13 elaborate on that a little bit?

14 MR. KUTERBACH: Yeah, this is John. The reason why I  
15 suggested that it's a topic that we need to discuss is some  
16 of the solutions, or some of the information that we've  
17 had, is how other states regulate or don't regulate  
18 drilling operations. And if we were to move to those other  
19 types of state approaches -- for instance, suppose we  
20 decided we didn't need to regulate drill rigs through the  
21 program, all we needed was a registration program. Well  
22 what we'd be losing out of our permitting program is the  
23 opportunity for public review and comment. And how do we  
24 address that change? Do we just ignore it? Do we provide  
25 some way for the public to have input? It's something that

1 I feel we need to discuss as part of the workgroup in  
2 developing a solution.

3 MR. MUNGER: Is there -- have you ever been involved  
4 -- this is Mike again. Are you aware, John, or been  
5 involved in any process before where the State has, say,  
6 dropped an air quality regulation and went into a  
7 permitting program or anything similar to that before to --  
8 for an example of how this was handled before?

9 MR. KUTERBACH: Nothing comes to mind immediately, but  
10 I'm sure if I waded back through my 20 years, I'd find  
11 something.

12 MR. MUNGER: I would image there's somewhere in the  
13 DEC -- this is Mike again, in the DEC regs where we've --  
14 in my previous work with the State where we've, oh,  
15 modified reg. And if they're still existing regs then you  
16 go through the reg process as, you know, you're well aware.  
17 But when you drop regs, I don't know if there is a public  
18 process. I'm sure there's probably an example somewhere in  
19 the history of the DEC, at least.

20 MR. KUTERBACH: Oh, yes. This is John again. Yeah,  
21 for the change that we make, as does the regs, if we have  
22 to change our regulations to get rid of something, that  
23 would go through a public process. I guess what I was more  
24 concerned about was the ultimate end result. Right now  
25 when, for instance, the jackup rigs had their permit, we

1 had a public process whereby we could get public comment on  
2 that permitting. If we change the process, the change in  
3 the process would get public comment. But it may change it  
4 to a process where there won't be individual public comment  
5 on operations. And I think that's something that we ought  
6 to discuss as part of the workgroup is, is that something  
7 that's acceptable? Is that something we should address?  
8 If we go -- you know, and this is way down the road, and I  
9 don't even know that we're going to go there and have it,  
10 but it's just one of the strategic topics I think we should  
11 be aware of when we're kind of discussing the resolution of  
12 the issues.

13 MR. BROWER: You know, the -- that's a good point. I  
14 often worry about where the borough's input will be  
15 refocused. Where would my comments be better served in a  
16 changing climate all the time? Our example, in the  
17 borough, for 40 some years, anything that went on in Point  
18 Thompson, (indiscernible) Springs, some other parts of the  
19 borough, were only -- any -- if you want to do anything in  
20 these parts, it required a public hearing. Your  
21 application always required a public hearing. It took 40  
22 years to change that. And we're now readapting to a new  
23 permitting climate and streamlining and optimizing how we  
24 best work in these types of changes. So, you know, a lot  
25 of times we -- we have to be able to adapt to the changing

1 -- and that's what we're doing in the borough. I mean the  
2 -- right now things in Point Thompson are in a -- it  
3 mirrors what goes on in the rest of the Prudhoe Bay and  
4 other areas. It's nowhere -- you know, if you want to put  
5 a bathroom up, you have a public hearing. If you want to  
6 put a drill rig, you have a public hearing.

7 MR. THOMAS: Gordon, this is Brad. Those are borough  
8 requirements?

9 MR. BROWER: Those were borough requirements.

10 MR. THOMAS: They were borough requirements?

11 MR. BROWER: They -- it was written hardwired into  
12 Title 19. And we finally made those changes with an  
13 operator wanting to develop over there.

14 MS. CASTANO: Just a quick comment. This is Alejandra  
15 Castano with BP. I'm not suggesting that we go the general  
16 permit route, but I've seen other states, when they do  
17 develop a general permit that is a more streamlined version  
18 of a permitting system they currently have, the general  
19 permit itself does go through a public comment process. So  
20 that's also something that we could look at as well.

21 MS. EDWARDS: And it's what -- that's the way our  
22 current general permit works, I believe. If we change  
23 that, it goes out to public comment.

24 UNIDENTIFIED MALE: But not the individual application  
25 to the general permitted individual sites.



1 MS. EDWARDS: Right.

2 MR. BARRON: Which -- this is Bill. Which actually  
3 might work well, because what we're talking about is being  
4 able to move a piece of equipment from site to site to  
5 site, so it wouldn't be site specific.

6 MS. EDWARDS: Right.

7 MR. BARRON: So that tends to fit a little bit in the  
8 model that we're trying to get our arms around.

9 MS. EDWARDS: Right. And I think when we've talked --  
10 and when we talked about this at, I don't remember which  
11 meeting we talked about the minor general permit, but we  
12 did talk about it briefly. Which, of course, the minor  
13 general permit was designed, you know, because of the way  
14 we model and do -- you know, put everything together was we  
15 modeled a particular scenario to demonstrate compliance.  
16 And so people that fit within that, those assumptions, can  
17 use that minor general permit. It just hasn't fit for  
18 every type of operation that's going on out there.

19 MR. BARRON: Any other topics that anybody can think  
20 about?

21 MR. BROWER: Is there still an issue about this --  
22 you've talked about 24 months of not -- when you're  
23 returning to a stationary air permit source, if they -- if  
24 we had a different type of permitting climate would it  
25 still kick in the increment -- to protect the increment

1 from a stationary source from a temporary source?

2 MR. KUTERBACH: Well actually that's a good point and  
3 maybe that's something that we have to talk about as part  
4 of the solution is how we manage the -- or how we prevent  
5 the deterioration of air quality with respect to the  
6 increment. Because, I mean, yes and no. I mean you could  
7 structure it either way.

8 MR. BROWER: I've just heard concerns about a drill  
9 rig not being able to return to work to a particular site.  
10 And you've have a determination made and you've got 24  
11 months before you can come back, or something to that  
12 effect.

13 MR. KUTERBACH: Well and -- yeah, you weren't here at  
14 the -- this is John. You weren't here at the very  
15 beginning of the meeting where we actually addressed that a  
16 little bit. That's not -- that was one proposal in one  
17 permit that has not been finalized yet. But it does raise  
18 a very good question, which is how constant can the  
19 activity be at a site where -- with things continually  
20 returning to it, before it becomes a permanent degradation  
21 of air quality there versus a temporary degradation. In  
22 other words, if the same guy comes back every day and does  
23 the same thing, that's more or less a permanent operation,  
24 even though he leaves every night.

25 MR. TURNER: This is Tom. Looking through my notes,

1 one comment was owner versus operations or lessor versus  
2 the lessee.

3 MS. EDWARDS: Well my -- I guess my question -- I was  
4 thinking about that, too, because I know it's an issue.  
5 And it could be in the context of our current structure  
6 that we could deal with that by working together on permit  
7 language. But that, depending on where this goes, that  
8 might or might not be what needs to happen. So do we want  
9 to capture that idea for now or do we want to wait and pick  
10 it up depending upon where this evolves to?

11 MR. BARRON: Yeah, this is Bill. I think we ought to  
12 put it in as a strategic topic. And if it's something that  
13 we can resolve quickly, then good on us. If not, then it's  
14 still out there and we've captured it. But I think what I  
15 was hearing is, you know, the industry representatives  
16 brought that issue up several times. So I mean I don't  
17 want to not capture it, because it's been brought up  
18 several times. I think you're right.

19 MR. THOMAS: This is Brad. I just spoke with Randy,  
20 and so I'll ask the question now so everybody can hear the  
21 question that I asked him. You know, I wonder if it's  
22 strategically a good idea to develop a picture of how rigs  
23 are actually deployed, how they're actually used, so people  
24 get a sense of how often they visit a site, how often a  
25 site is left unoccupied by a rig. I mean would that be

1 helpful to bring that information to the table to show,  
2 typically, in different fields this is how rigs are  
3 deployed, so that we know, typically, you know, what we're  
4 regulating? You know, because, John, you expressed concern  
5 about, you know, clustering of rigs or high-density  
6 activity of rigs. So would it be helpful to present a  
7 historical record, really, of how rigs have been deployed  
8 in different fields?

9 MR. KUTERBACH: This is John. So, Brad, that would be  
10 something that you'd be kind of agreeing to operate that  
11 way in the future in perpetuity?

12 MR. THOMAS: No, no, no. It would just so people --  
13 everybody understands how is it is deployed in Alaska  
14 typically.

15 MR. KUTERBACH: At this point in time?

16 MR. THOMAS: Historically. It would be based on  
17 historically. It would be based on, you know, looking  
18 back. Would that be helpful, I wonder? And that's the  
19 question I asked Randy a second ago.

20 MR. KUTERBACH: Well I don't think it's a strategic  
21 topic.

22 MR. THOMAS: It's not -- it's not a topic that we have  
23 to work, but it's a fact that could be brought to bear on  
24 some concerns.

25 MR. MUNGER: This is Mike. I would appreciate that

1 information myself, Tom.

2 MR. THOMAS: Yeah, this is Bill. I think a tangent  
3 off of that, that would be beneficial, would be some sort  
4 of dialogue from the industry in terms of what kind of rigs  
5 are available. What are we -- are we talking, you know,  
6 just class of rigs. I mean you've got your big rotary  
7 rigs. You've got your small work-over rigs. You've got  
8 coil-tubing rigs. I mean just sort of a breakdown of the  
9 class -- the stuff that Hillcorp was trying to get on their  
10 platforms. You know, how do we -- how do we capture what  
11 kind of rig, what kind of capacities, what kind of  
12 emissions, just in -- what kind of equipment? And I think  
13 that would be valuable, because -- I mean to along with the  
14 idea of how do things come and go? Because you can have  
15 more than one rig on a pad. If you think in general terms  
16 of having a drilling rig and a work-over rig and a coil  
17 rig, in concept, you could have all three of those at one  
18 location. I mean it's highly unusual, but, I mean, you  
19 could. So I think the dialogue is valuable in terms of how  
20 do you -- because, to me, that gets into the  
21 modeling/monitoring and the increment kind of discussion.

22 UNIDENTIFIED MALE: Rig compilations?

23 MR. TURNER: I don't know what the -- I don't know  
24 where it would be under strategic topics.

25 MR. THOMAS: It wouldn't be.....

1 MS. EDWARDS: It's more of a background, another  
2 background piece.

3 MR. BARRON: So have we moved into defining what  
4 background information we need to collect?

5 MS. MARTIN: This is Nikki. I think you have control  
6 equipment and modifications up there. I think it's fine to  
7 have a topic that's, you know, broader than equipment,  
8 looking at what equipment we use now, you know. Maybe that  
9 discussion is part of using the illustration of what drill  
10 rigs have looked like historically and how they're used. I  
11 think people have said that would be helpful. But I think  
12 equipment itself.....

13 MR. THOMAS: Well that's -- does that go along with  
14 what Bill was saying?

15 UNIDENTIFIED MALE: Yeah, it does. It does. Yeah.

16 MS. MARTIN: I'm just trying to encompass everything  
17 Bill said and (indiscernible -- interrupted).

18 MR. BARRON: I mean that kind of fits with what I was  
19 talking about, which you mentioned and Mike said would be  
20 valuable for him. I mean, again, whether it's background  
21 or a topic, I think it's something that we need to -- and I  
22 think it's important for the public to understand. You  
23 know, especially when you start to get into transcription  
24 and people start reading this on the website, you know, a  
25 rig is not a rig. I mean I think people need to have that

1 appreciation.

2 MS. EDWARDS: Other sorts of strategic topics that we  
3 might want to look at? I was trying to think back a couple  
4 meetings and some of the things that we've talked about and  
5 whether we've captured all of those ideas, since we've kind  
6 of gone down this trail a couple times.

7 MR. BROWER: In the operation of a drill rig, on how  
8 it's used, would it be important to note if there are  
9 certain procedural differences as they're putting them  
10 together? Like, certainly, I think there's a ramp-up of  
11 power sources as you get going, especially when you're  
12 getting ready to spud. And once you spud, there's a  
13 certain time that you get to bottom hole depth and  
14 threshold (indiscernible) and that kind of stuff that --  
15 that uses a certain amount of energy versus the other --  
16 you know, you can have 20 days before you spud, if that's  
17 important information to -- because some of the things that  
18 I've heard is you turn everything on and that's what you  
19 try to permit at, the extreme source.

20 MR. KUTERBACH: Yeah, that's what people have been  
21 applying for, certainly.

22 MS. EDWARDS: So one of the things that I was -- I was  
23 thinking back to one of our early discussions, was also  
24 this concept, and maybe it's coming back to just  
25 determining compliance and maybe it doesn't need its own

1 thought, but I was thinking back to the public and the  
2 public input and the concept of areas near communities or  
3 how do you deal with prox -- do we need to talk about  
4 proximity to any -- we've got ambient -- we have ambient  
5 air in the context of the ambient air that's maybe not  
6 readily accessible to people, but still is technically  
7 maybe ambient air. But then we've also got the issue of  
8 sort of proximity to, you know, where people really are  
9 living and recreating and, you know, subsistence and that  
10 sort of thing. And I'm just wondering if there's something  
11 we need to think about or capture, topic wise, maybe that  
12 relates to public input, but sort of the potential or how  
13 do you deal with the community-based aspect of this where  
14 we're -- when we're in proximity to communities.

15 MR. THOMAS: This is Brad. Perhaps that could be  
16 captured under the heading ambient air boundaries. Because  
17 if our mission is to protect ambient air quality standards,  
18 and we do it at the boundary, does that not address.....

19 MS. EDWARDS: It should address it. I'm not -- I'm  
20 just -- but I'm thinking in the context of public, maybe,  
21 perception and.....

22 MR. THOMAS: Well.....

23 MS. EDWARDS: Because we always -- I mean when we  
24 permit, we -- or when we're trying to do this, we're trying  
25 to maintain compliance with the ambient air quality



1 standards so that should be protective of public health.  
2 But yet we have -- when we work in proximity to residences,  
3 homes, villages, communities, we expect more scrutiny of  
4 those sources, I think, than when we're in more remote  
5 locations. I think it's reasonable that we would expect  
6 the public to be more concerned with development that they  
7 are -- that is closer to them. So I just -- I didn't know  
8 if there's a way to -- or if we need to capture that kind  
9 of concept in what we're looking at from a topic  
10 perspective. And I remember Gordon talking about  
11 cumulative impacts and being -- you know, what does it mean  
12 when these rigs come -- you know, are in proximity to these  
13 communities, especially on the Slope. But this could also  
14 be true in Cook Inlet or in other parts of the state  
15 depending on where drilling occurs. It's more of a public  
16 aspect, but I just -- if we build a system that maintains  
17 the ambient air quality standards, we should be -- we're  
18 doing our job, but we also have to be able to ensure that  
19 the public feels like they understand that, I guess.

20 MR. BARRON: Yeah, this is Bill. Isn't that a subset  
21 of public input?

22 MR. BROWER: Wouldn't the drilling operation that  
23 you're permitting be a component of an exploration plan  
24 that went through some public process? It's just a  
25 component of an exploration plan or a plan of development.

1 MR. THOMAS: This is Brad. Gordon, in some cases, but  
2 not always. In most of the cases we're talking about, in  
3 this context, we're talking about infield drilling, you  
4 know, the more routine drilling, in a developed field.

5 MR. BARRON: This is Bill. That should still be  
6 identified in your plan of development, which is -- which  
7 is.....

8 MR. THOMAS: Oh, absolutely.

9 MR. BARRON: Which is reviewed and by PA every year.  
10 So, I mean, if you're coming on to a new site -- or coming  
11 back to a location within that PA, you're going to say  
12 you're going to do work-overs or drill wells, that should  
13 be part of your POD, which is -- goes through a public  
14 process.

15 MR. THOMAS: And that's important to look at.

16 MR. KUTERBACH: I have one strategic topic that I kind  
17 of hesitate to bring up, but -- and that would do with the  
18 funding on the implementation of whatever result that we  
19 have. How would it be funded? Because right now, our work  
20 -- regulatory work is funded through fees.

21 MR. THOMAS: This is Brad. Do you have, in your  
22 regulations, a time and materials category to which that  
23 could be built or would one have to be created?

24 MR. KUTERBACH: We have, under our statutes, fees for  
25 permits. Okay? And so we can charge for permitting work.

1 At the -- but the overall funding, if we come up with a  
2 different regulatory scheme on how we're going to regulate  
3 these sources, the funding has to be there for us to be  
4 able to discharge our responsibilities under that other  
5 regulatory scheme.

6 MR. THOMAS: So is there no regulatory authority or  
7 statutory authority right now to do it? I mean I'm trying  
8 to get at.....

9 MR. KUTERBACH: I don't know what our regulatory  
10 scheme is going to be. So if we have permits that allow me  
11 to charge fees, then yes. If we have some other regulatory  
12 scheme that doesn't fall under that statute, maybe not.

13 MR. THOMAS: That's a strategic item, right?

14 MS. MARTIN: Probably one for later (indiscernible).

15 MR. BROWER: Yeah. None of our fees in the borough go  
16 toward cost recovery or for our portion of being able to go  
17 out there and do an enforcement action. All those are  
18 legislatively -- we go out and fight for our budget, what  
19 are we going to need to operate for that season, and go  
20 through the budget cycle for -- and I've always tried to  
21 advocate for that we need to be able to funnel our fees so  
22 we can do more things with them, but (indiscernible) is  
23 just that way. And all our other fees go into a general  
24 fund, and we fight for a budget. And.....

25 MS. EDWARDS: Well, Chris, we get through the

1 legislature for our budget is well, but we have particular  
2 revenue sources that were under statute.....

3 MR. MUNGER: This is Mike. John, isn't that more of a  
4 question, and I'm just -- and I don't have the answer here,  
5 but isn't that more of a question for the Department of  
6 Law? Or, you know, if, in fact, we go into another  
7 regulatory process between the DEC and the Department of  
8 Law to determine that and not so much the workgroup?

9 MR. KUTERBACH: Yeah. This is John. Yeah, I think --  
10 I think ultimately we would have to involve the Department  
11 of Law and come up with the solution on that. However, I  
12 think it's valuable for the workgroup to consider how their  
13 recommendations would be funded. And perhaps even  
14 including recommendations on how to change the funding,  
15 which would be informed by the Department of Law input.  
16 But I still think it's something that's useful for the  
17 workgroup to touch on in its recommendations.

18 MR. THOMAS: This is Brad. I think, Alice, you're  
19 right. That is an appropriate strategic topic, but one  
20 that we would tackle at the end.

21 MS. EDWARDS: Right. Once we have an idea of where  
22 we're headed then we would know whether this is really an  
23 issue that we need to tackle or not. But I think -- I  
24 don't know that we would have to come up with the ultimate  
25 solution to the funding, but the funding -- or the

1 implement -- how we would deal with implementation costs.  
2 But I think if we develop something that we clearly don't  
3 have the revenue to implement then that would be something  
4 we would want this group to be able to consider.

5 MR. THOMAS: Right. Right.

6 MR. BARRON: And Gordon and I will take copious notes  
7 on how we can increase our revenue stream.

8 MR. THOMAS: So this is Brad again. So under the  
9 bullet, the second bullet, I'm not sure if that's the  
10 second or the third, how to determine compliance. We might  
11 want to put, under that bullet, the ambient air boundary,  
12 because that's relevant. We do want to be clear on what  
13 the ambient air boundary is, because in different locations  
14 in the state, it's different. You know, it's off the pad  
15 on the Slope; it's on the pad in Cook Inlet, for example.  
16 So we want to tackle that.

17 MR. KUTERBACH: All right. This is John. I have one  
18 other item for discussion as far as a strategic topic. And  
19 that would be to discuss -- and I'm not sure whether this  
20 is a strategic topic or a boundary value for our  
21 recommendations, but that our final solution may need to be  
22 approved by the EPA if it changes our SIP. And it  
23 certainly has to be legally defensible, whatever we come up  
24 with. So maybe that's criteria on the solution rather than  
25 a strategic topic for discussion.

1 MS. EDWARDS: Yeah. And Brad had brought up  
2 guardrails that, you know, when we talked about the agenda.  
3 But when we got our emails about the agenda, I think, you  
4 know, for us those are sort of two of our generalized  
5 guardrails that we have. And, you know, as we go through  
6 some of these topics, you know, we may come back to, okay,  
7 well here's sort of how the Clean Air Act would work with  
8 guard two. You know, modeling may have certain  
9 requirements or they may -- so when we look back at trying  
10 to be approvable by EPA, we may end up trying to work  
11 through certain interpretations on various issues where  
12 we're trying to figure out what we can and can't control,  
13 what would be defensible, what, you know, meets  
14 requirements, what might not. And I didn't want to limit  
15 us to getting real specific today on all those guardrails.  
16 But, of course, those are sort of -- aside from, you know,  
17 dealing with how do we maintain compliance with the  
18 standards, which is, of course, important to us for many  
19 reasons, clean public health, you know, we do sort of have  
20 this guardrail that whatever we come up with, if we change  
21 our SIP, we change our State Implementation Plan, or  
22 however we're doing business, and we have -- we may need to  
23 get that approved. And if we need to get that approved by  
24 EPA then we'll need to be taking that into consideration.  
25 And we've got folks at EPA that are willing to be resources

1 for us so that we can ask them those questions as we go  
2 along as well. John says it's time for a break. Do you  
3 guys feel like you need another break?

4 UNIDENTIFIED MALE: Yes.

5 MS. EDWARDS: We are getting kind of quiet.

6 UNIDENTIFIED MALE: (Indiscernible -- away from  
7 microphone.)

8 MS. EDWARDS: Yeah. Why don't we do that? Why don't  
9 we take another 10-minute break, and we'll come back and  
10 we'll -- either we can circle back on the strategic topics,  
11 and then maybe we can start talking about maybe how we want  
12 to -- how we want to tackle this, as far as moving forward.

13 UNIDENTIFIED MALE: Okay. Good.

14 MS. EDWARDS: Okay. So for all of you on the phone,  
15 about 10 minutes, which should put us around, oh, I don't  
16 know, 10 'til or so by my watch.

17 UNIDENTIFIED MALE: Ten 'til would be good.

18 THE REPORTER: Okay. Off the record at 3:40 p.m.

19 THE REPORTER: Back on the record at 3:53 p.m.

20 MS. EDWARDS: Thanks. So coming back, I want to  
21 circle back one more time on sort of our strategic topics.  
22 And I mean we can -- if we need to add to this later, we  
23 probably can. I don't see why we would have to limit  
24 ourselves. But is there anything that anybody thought of  
25 during the break that we've missed that we want to include

1 at this point? Because what I'm thinking is, if we're okay  
2 with this list, we should figure out what we want to do for  
3 the next -- you know, what we can start doing in regards to  
4 any -- well I don't know if we want to take on all of them  
5 or if we want prioritize a couple and figure out what we  
6 want to work on first, or if we want to get some ideas on  
7 what we need to do to, to sort of flush out some of these  
8 to get the right people working on looking at them and  
9 bringing information back to us.

10 MR. THOMAS: Well this is Brad. It comes to mind, at  
11 some point, as we work through the list, we will have to  
12 cross the bridge of permitting or not permitting, you know,  
13 registration or not registration, the regulatory vehicle.  
14 Is that a strategic item or is that a conclusion?

15 MS. MARTIN: I thought that could be captured -- this  
16 is Nikki. I thought that could be captured in how to  
17 determine -- I mean compliance, so at the end of the day,  
18 you're still trying to comply with the ambient air  
19 standards.

20 MS. EDWARDS: I guess I understand where you're going  
21 to, Brad. I don't -- it may be more of a -- I mean it may  
22 be this is the solution that we come to or this is the  
23 recommendation. It may be that, in some cases, maybe it --  
24 I mean it might be different depending -- we might come up  
25 with more than one option. So I don't know. I'm afraid if



1 we put it a -- I was thinking in terms of the way Nikki was  
2 laying this out about how this might help drive the next  
3 meetings. And I think that a lot of this stuff, we might  
4 need to explore before we actually got to that final -- to  
5 that kind of a -- sort of calling that kind of a question.  
6 I don't know. That's my -- just my topic.....

7 MR. THOMAS: It does feel like more of a crescendo,  
8 you know, an end point, rather than something that we work  
9 as one of these.....

10 MS. EDWARDS: It's sort of like if we put it at the  
11 top of the list and we worked it first.....

12 MR. THOMAS: We wouldn't do that. Yeah.

13 MS. EDWARDS: .....I don't see -- I think we would  
14 miss -- I think we would miss a whole bunch of stuff.

15 MR. THOMAS: Right.

16 MR. BROWER: It seems to me that you identify problems  
17 and issues relating to the current permitting climate and  
18 you look at making a determination on what are we actually  
19 doing? Is this -- are we permitting a stationary source or  
20 are we permitting a mobile, transportable piece of  
21 equipment with all of its, you know, housing units and --  
22 what you label it is probably going to dictate how you're  
23 going to permit it or certify it or register it.

24 MR. THOMAS: I agree. And just to be clear, Nikki, on  
25 that bullet, how to determine compliance, I interpret that

1 as how to determine compliance with the air quality  
2 standards, right?

3 UNIDENTIFIED MALE: Yeah.

4 MS. MARTIN: Right.

5 MS. EDWARDS: I'll even put it up there. Green,  
6 right? In green?

7 MR. TURNER: Right.

8 MS. EDWARDS: That's my shorthand for standards.

9 UNIDENTIFIED MALE: And that includes.....

10 MS. EDWARDS: Increments are already up there. So I  
11 don't know.

12 MR. THOMAS: That's okay. We can leave it off.  
13 It's.....

14 MS. EDWARDS: I was thinking maybe we could tackle  
15 some other things first. I mean I think we need to gather  
16 some information first, perhaps, to get to that point.

17 MR. THOMAS: Maybe we could prioritize these.

18 MR. KUTERBACH: Well this -- this is John. Maybe our  
19 next step now, for the next -- whatever time we have left  
20 here, would be to take a look at the strategic topics and  
21 see which ones we want to explore for the next meeting.

22 MR. THOMAS: Agreed.

23 MS. MARTIN: I agree.

24 MR. KUTERBACH: Good.

25 MS. EDWARDS: So what do you -- so Mike's at a

1 disadvantage, because he, hopefully, has written down his  
2 list, but doesn't have the list on the board to stare at  
3 and ponder so.

4 MR. MUNGER: Yeah. If you could go through it again,  
5 I'd appreciate it.

6 MS. EDWARDS: Okay. So we sort of -- the list we  
7 have, and, of course, this is going to -- they may not be  
8 worded quite as eloquently as people explained them, but we  
9 have sort of this definitions, you know, what definitions  
10 are there for the mobile, the stationary, the owner versus  
11 operator, those sorts of definitions. What other states  
12 are doing from a regulatory approach or non-regulatory  
13 approach. We have this topic about how to determine  
14 compliance with the NAAQS or increments. So there we have  
15 things like modeling, monitoring, the ambient air boundary  
16 issues. We had a topic on sort of this concept of the  
17 stationary -- as Gordon just said, you know, sort of how do  
18 these drill rigs come together as a combination of both  
19 sort of the stationary types of devices and the non-road  
20 devices. We had a topic on public input and sort of  
21 community issues, and how where we go may influence or  
22 change how the public has -- the process from -- if we  
23 change our process, how does that change people's  
24 opportunity to provide input and how might we consider  
25 that. We had a category, which we, I think, broadened to

1 more equipment. So things like what is the current  
2 equipment and how does it operate? What are -- what types  
3 of controls are out there? What kinds of modifications or  
4 upgrades are available? How are they operated? And in the  
5 category of equipment, we might even think about  
6 operational practices or best management practices. There  
7 are operational kinds of things as well as, you know, sort  
8 of more physical control kinds of things. And I would put  
9 the engine tiers in that category, too. If people want to  
10 understand the engine tiers better, we could look at that  
11 -- explore that as well. We had the owner versus operator  
12 topic, which dealt with the, you know, sort of in the  
13 current structure of the permitting where they've had some  
14 -- there's been some concerns about proposals of how you  
15 deal with the operators coming -- contract operators on the  
16 pads and how that integrates into the permits that exist  
17 for the lessees. And then John had raised the, you know,  
18 overall, in the end if we do something dramatically  
19 different than the way the program is implemented now,  
20 maybe it's not a permanent program anymore, do we have the  
21 fund -- you know, there's a fund -- maybe a funding hook  
22 there that we might want to look at toward the end,  
23 depending on sort of where the recommendations seem to be  
24 going and whether or not there's a funding mechanism  
25 already setup in state statute to implement that or whether

1 we'd be having to look at budget issues or things like  
2 that. So that was sort of the list.

3 MR. MUNGER: Okay.

4 MR. THOMAS: So this is Brad. A question for Bill.  
5 The first bullet point up there is definitions. Is that  
6 captured by the other bullet points? I mean if we address  
7 each of the other bullet points in turn would we address  
8 your concern with definitions? Do we need to have a  
9 separate category?

10 MR. BARRON: This is Bill. I'm not sure. Because at  
11 the break, that's one of the things the representative of  
12 Hillcorp and I were talking about is if we continue to  
13 stumble into definitional quagmire, and, you know, the  
14 words that I use for, say, construction are not necessarily  
15 the same that somebody else would deem is construction. So  
16 I don't know if it's a single item or as we go through the  
17 subsequent topics that we probably need to stop and make  
18 sure whatever we are talking about on the day, we get  
19 grounded on what the definitions are of that subtopic.

20 MR. THOMAS: So it is a subtopic then (indiscernible  
21 -- interrupted).

22 MR. BARRON: I think it might be, yeah.

23 MR. THOMAS: Yeah.

24 MR. BARRON: Right? Because that's my concern is I  
25 think we're going to get kind of all beetle-juiced out

1 again on what does that really mean.

2 MS. EDWARDS: I would note that we did try, in the  
3 binders that we gave the workgroup members, to at least put  
4 some of the regulatory definitions that we currently use in  
5 there.....

6 MR. BARRON: Well that -- this is Bill.

7 MS. EDWARDS: Which is helpful, but I know -- I know  
8 some of us haven't internalized all those definitions yet,  
9 because they're just words on paper for us. But at least  
10 we have some references that we can use. And I think it's  
11 a good point that we need to understand -- that everybody's  
12 on the same page in understanding what we're saying as we  
13 go along.

14 MR. BARRON: Well that gets real critical, especially  
15 as I'm currently reading some of the like non-road engine  
16 or the stationary source. And stationary source is  
17 referenced as an AAC. And then it's in Alaska statute.  
18 And then it goes to a CFR. And it's one tied to another,  
19 tied to another, and I finally get to the bottom, and it  
20 says go back to 990. And I went, wait a minute, that's  
21 full circle. And so I mean that's kind of why I think it's  
22 a subset that I think we have to readdress almost every  
23 time so that we don't lose track of where we are.

24 MS. EDWARDS: So maybe one of the things we should  
25 think when we're bringing ideas back to the workgroup or to

1 work on, things at the next meeting and subsequent  
2 meetings, is when we're tackling one of these issues and we  
3 know that we -- that we're clear that when we're using our  
4 technical jargon or, you know, some of these terms that we  
5 are real clear about what we're bringing to the table in  
6 that regard.

7 MR. BARRON: That would be very beneficial to me.

8 MS. EDWARDS: Okay. So that being said, if we put  
9 definitions in as sort of an ongoing educational effort for  
10 all of us, to make sure we're all on the same page, then  
11 what do we think we want to tackle or start tackling first?

12 MR. THOMAS: Those first two bullets. If the  
13 definitions goes away, then it would be the other state's  
14 regulatory approach and then how to determine compliance  
15 with the NAAQS. That seems like two good starting points.

16 MS. EDWARDS: And then, I guess, then we get back to  
17 -- okay. So two things I'm thinking about. One, we've got  
18 to figure out sort of what we can all kind of contribute to  
19 that conversation. But then we also need to figure out how  
20 much time do we think it's going to take to pull that kind  
21 of information together, because that may drive when we can  
22 have our next discussion. If we can't pull it together in,  
23 you know, four weeks or -- you know, it may be we need more  
24 time. I don't know. We've had several meetings close  
25 together here, so I know we need a little more time between

1 now and the next meeting in order to actually develop some  
2 of this information and bring it back to the group.

3 MR. THOMAS: Well to develop -- this is Brad. To  
4 develop the other states' regulatory approaches, we could  
5 just dedicate somebody to calling state agencies to find  
6 out. You know, there's 49 other states. Would you do  
7 that, Tom? Is that.....

8 MR. TURNER: Well there's a couple -- this is Tom. I  
9 mean, yes, we certainly can start calling all the other  
10 agencies and start finding out how they do their approaches  
11 and follow up that way. But like everything else, it's who  
12 you talk to on the phone, what's going on. It might be  
13 useful to do a third-party contract and have a contractor  
14 actually come back and say this is how drill rigs are  
15 regulated across the states, in addition to additional  
16 information that staff can pull in or the industry itself  
17 knows about. So it would be -- yeah, it's sometimes nice  
18 to have that third-party this is how it's done. And we'll  
19 certainly start making phone calls when we get back. We'll  
20 get it from an agency perspective, and then you have  
21 someone do a comprehensive approach so that you have not --  
22 they won't miss items or they don't interpret the items.

23 MR. KUTERBACH: This is John. What we can do  
24 immediately, putting the contract aside for a second, is we  
25 can contact our other agencies, EPA and some of the



1 organizations, WestStar, NACCA, and see if.....

2 MS. EDWARDS: And NARC.

3 MR. KUTERBACH: .....and NARC, and see if any of those  
4 have compiled this sort of information, all right, they've  
5 done comparisons. And so that would be a good starting  
6 point. And we can make individual contacts with not all 50  
7 states, but at least several of the states where we  
8 know.....

9 MS. EDWARDS: There's oil and gas.

10 MR. KUTERBACH: .....there's oil and gas and drilling  
11 and it's been addressed in some way. So, you know, contact  
12 Wyoming, California.....

13 MS. EDWARDS: Colorado.

14 MR. KUTERBACH: .....and Colorado.....

15 MS. EDWARDS: New Mexico.

16 MR. KUTERBACH: Some of those.....

17 UNIDENTIFIED MALE: North Dakota.

18 MR. THOMAS: Let's talk about how we can do that as  
19 well, because like Tom mentioned, you know, it's -- the who  
20 you talk to piece is pretty important. So the more you  
21 talk to, the better information you're going to get. So  
22 we'll talk separately about engaging that for ourselves  
23 just so we have more information on the table. Because you  
24 guys will probably talk to different people than.....

25 MR. KUTERBACH: Now I think one of the things, in

1 order for us to really understand the other states', is we  
2 want to get is a good understanding of what -- not only  
3 what they do as far as air quality regulations are, but is  
4 there some other requirement or regulation that's having  
5 the effect of air quality, but they're doing it some other  
6 way. For instance, if you have a requirement that you run  
7 on electric -- highline electric power when you can, that  
8 would have an effect on air quality, but it may not be an  
9 air quality regulation. It might be some other community  
10 regulation. They also have -- I don't know whether it is  
11 just at the state level that the regulations would be. I  
12 know California has air quality control districts, which is  
13 a small -- like a super-county type of approach, or whether  
14 they have county requirements which limit what they can do.  
15 Also with this, which -- and I think, Brad, the industry  
16 folks may be most useful for is getting a good idea of what  
17 the equipment inventory is.

18 MS. EDWARDS: What kinds of equipment are operated in  
19 those states?

20 MR. KUTERBACH: You know, what is a typical drill rig?  
21 How big is it? What's -- you know, how long does it  
22 operated at a location? Does it operate close to other  
23 operations -- you know, basically how things operate so  
24 that we can understand the regulatory scheme of another  
25 state in the context of what they're regulating.

1 MR. BARRON: So that -- so that implies that we also  
2 need to have that same information for the drilling  
3 equipment that we currently have so that we can make sure  
4 that we can compare and contrast.

5 MS. KANADY: So that's currently in the permit  
6 applications (indiscernible -- away from microphone).

7 MR. BARRON: I think that would be reasonable, yeah.

8 MS. KANADY: So that (indiscernible -- away from  
9 microphone).

10 MR. BARRON: Yeah, we can pull the permit  
11 applications.

12 MS. EDWARDS: Because it would be -- because when we  
13 compare and contrast, for example, a lot of times we're  
14 located -- not universally, but we have drill rigs --  
15 obviously, we have drill rigs that are isolated in  
16 operating -- exploratory drill rigs that are out there and  
17 operating in a more isolated setting, but we have a lot of  
18 them that are on major sources. That may not be as much of  
19 the case in the Lower 48. They may be more dispersed. So  
20 I think that's a context we need to think about, you know,  
21 when we start comparing and contrasting. And that was one  
22 of the things I was thinking about is that, you know, a lot  
23 of our issues are stemming from the fact that we're --  
24 we've got them combined with these other major sources.  
25 And that may not be the way the world works down there. It

1 may be in some instances, but it may not. And I don't  
2 know. So some states may be closer to the kind of  
3 practical implementation as Alaska, and others may be  
4 different. It may be a much more dispersed network of  
5 drill rigs that aren't really -- you know, that they're  
6 just -- they're out in the basin and may not be as  
7 collocated with other types of facilities. I don't -- I  
8 don't know that, but I think that could be.

9 MR. BROWER: I think it's important to identify those,  
10 because it may lead to the type of permitting structure you  
11 want to have. You know? You permit them separate from  
12 this. Just because it's collocated together, you have to  
13 include them. Maybe they -- or we look at this drill rig  
14 and that's it and not the other stuff.

15 MS. EDWARDS: Right. So if you think about what --  
16 you know, I think John's point is when you look at another  
17 state's program, you have to think about it in the context  
18 of their -- sort of their oil and gas -- the structure of  
19 their oil and gas development in their state.

20 MR. THOMAS: So with the brain trust we have in the  
21 room can we identify the state that we'll look at? I mean  
22 we don't want to -- like you said, we don't want to call  
23 all 49 other states. We can probably identify where  
24 there's a, you know, sizable amount of drilling going on.  
25 You know, we can say North Dakota, probably New York, Ohio,

1 Pennsylvania.....

2 MR. BARRON: Do we really want to do the gas drilling?

3 UNIDENTIFIED MALE: Why not?

4 MR. THOMAS: Well there's gas drilling in the inlet,  
5 right?

6 UNIDENTIFIED MALE: I mean it -- well I guarantee you,  
7 that bit doesn't know the difference between a gas zone and  
8 an oil zone.

9 UNIDENTIFIED FEMALE: Yeah, it's the same.

10 MR. KUTERBACH: Yeah. Those are awful small rigs.

11 MR. PETERS: Some of them are very -- actually, some  
12 of them are very large rigs.

13 UNIDENTIFIED MALE: Absolutely.

14 MR. PETERS: You know, even the Shell rigs in Texas  
15 tend to be very big.

16 UNIDENTIFIED MALE: Okay. I believe you in Texas. I  
17 know the Marshalla (ph) Shell rigs, at least the ones that  
18 I've seen, weren't all that big.

19 MS. KAUFMAN: Well we can look into it, get some  
20 information, and see if it's worth exploration.

21 MS. EDWARDS: So we've got North Dakota -- so you were  
22 saying North Dakota, New York, Ohio, Pennsylvania,  
23 Texas.....

24 MR. THOMAS: California, Colorado, and Wyoming.

25 UNIDENTIFIED MALE: California, Colorado, Wyoming.

1 MS. EDWARDS: I don't know about New Mexico or  
2 Montana.

3 UNIDENTIFIED MALE: Oklahoma.

4 UNIDENTIFIED MALE: Jeez, we're going to call all 49  
5 states anyway.

6 UNIDENTIFIED MALE: So I've got North Dakota, Ohio,  
7 Pennsylvania, Texas, Colorado, Wyoming.....

8 UNIDENTIFIED FEMALE: Louisiana.

9 UNIDENTIFIED MALE: Louisiana is a pretty good one,  
10 too.

11 UNIDENTIFIED FEMALE: California.

12 MR. THOMAS: California, Louisiana.....

13 UNIDENTIFIED MALE: Oklahoma.

14 MR. THOMAS: ....Oklahoma. South Dakota?

15 UNIDENTIFIED MALE: No.

16 MS. EDWARDS: Not so much. New Mexico has some.

17 MR. THOMAS: South Dakota is still crying over that,  
18 but probably not worthwhile.

19 UNIDENTIFIED MALE: New Mexico.

20 UNIDENTIFIED MALE: They might get mad.

21 MR. THOMAS: Two, four, six, eight -- that's 10 states  
22 I've got.

23 MS. EDWARDS: Well I've got more than that so read  
24 your list.

25 MR. THOMAS: I've got North Dakota, Ohio,

1 Pennsylvania, Texas, Colorado, Wyoming, California,  
2 Louisiana, Oklahoma, and New Mexico.

3 MS. MARTIN: New York.

4 MR. THOMAS: New York.

5 MS. MARTIN: I think somebody said New York.

6 MR. THOMAS: Oh, I forgot New York. Yeah.

7 MS. EDWARDS: Do we have Montana?

8 MR. THOMAS: Do they drill in Montana?

9 UNIDENTIFIED MALE: Eastern.

10 MS. EDWARDS: Eastern Montana.

11 MR. THOMAS: I'll put that, Montana. That's 12.

12 MS. MARTIN: I think that's a good start.

13 MS. EDWARDS: I think that's plenty. Don't you guys  
14 think that's plenty?

15 UNIDENTIFIED FEMALE: Yes.

16 MR. THOMAS: That would be helpful.

17 MS. EDWARDS: And then do we -- okay. So you went  
18 through -- John, I think, mentioned a bunch of things that  
19 we should, and hopefully we've captured that, well  
20 obviously we've captured it. We've got a transcriptionist.  
21 But do we want to walk through what sorts of information?  
22 So want to know -- we need to know sort of what their  
23 regulatory -- or what sort of regulatory framework they  
24 use, if any. It would be -- and then John was mentioning  
25 we need to know sort of how their equipment and development

1 compares to our typical development.

2 MR. BARRON: So I -- let me back everybody up just a  
3 minute. Baker Hughes web app is kind of a cool thing to  
4 look at. So I'm looking at an application that -- from  
5 Baker Hughes, that talks about current rigs that are  
6 actively drilling. And the areas of interest look like  
7 Pennsylvania, West Virginia, Louisiana, Texas, Oklahoma,  
8 Kansas, Colorado, Wyoming, and North Dakota. That would be  
9 probably a 90 percent cut of all the rigs currently  
10 operating in the Lower 48.

11 MR. THOMAS: So that -- that would only add two to our  
12 list.

13 MR. BARRON: So it did add?

14 MR. THOMAS: It added West Virginia and Kansas.

15 UNIDENTIFIED MALE: And Kansas.

16 MR. BARRON: And Kansas has got just a smidgeon. So I  
17 mean if you wanted to -- no, Kansas has actually got a fair  
18 portion.

19 MR. THOMAS: So we can try to hit all 14.

20 MR. BARRON: So I'm just, as a reality check, just  
21 real quick. Montana has almost got none. So if Montana  
22 was on the list, you could probably cut them off.

23 MR. THOMAS: I'm okay with that.

24 MS. EDWARDS: Yeah. I just don't know if they've got  
25 any regulatory program in Montana or not. I would think



1 that's the same basin that moves into North Dakota.

2 MR. BARRON: It is. It is.

3 UNIDENTIFIED MALE: And not one rig running in South  
4 Dakota.

5 MR. BARRON: Just throw it out there.

6 UNIDENTIFIED MALE: One on the border.

7 MS. EDWARDS: Okay. So we would want to understand  
8 their regulatory framework that they use, the types of  
9 equipment that they use, and how the developments are kind  
10 of laid out in comparison -- so that we can compare it to  
11 our own. What else did we -- what else did you have?

12 MR. THOMAS: Are there other regulations that impact  
13 air emissions?

14 MS. EDWARDS: Oh, right.

15 MS. MARTIN: Would that be under regulatory framework?

16 MR. THOMAS: Well the regulatory framework would be  
17 the air regulatory framework.

18 MS. EDWARDS: Yeah. I think it's good to make that  
19 distinction.

20 MS. MARTIN: All right.

21 MS. EDWARDS: Because they may have things through  
22 either their leases or.....

23 MR. KUTERBACH: Just if there are any other  
24 requirements.

25 MS. EDWARDS: .....or other oil and gas commissions or

1 cities or whatever.

2 MS. MARTIN: That are related to the drill rigs.

3 UNIDENTIFIED MALE: How do they determine ambient  
4 boundary.

5 MR. THOMAS: Yeah. And then is.....

6 MR. KUTERBACH: Well they may not determine ambient  
7 boundaries, but kind of locations of where they are. Is it  
8 -- I don't know, how close do they operate to property  
9 boundaries, that sort of thing.

10 MS. EDWARDS: If we can figure that out.

11 MR. THOMAS: We can probably just get a map of the  
12 fields, right? I mean if you got a map of the fields that  
13 are being worked.....

14 MR. KUTERBACH: But you're not going to know where the  
15 property boundaries are.

16 MS. MARTIN: You have to understand land ownership in  
17 the area.

18 MR. THOMAS: Yeah. And that's pretty hard.....

19 UNIDENTIFIED MALE: Yeah, it is.

20 MR. KUTERBACH: But why are we asking about property  
21 boundaries again? Help me out here.

22 MR. THOMAS: Ambient air.

23 UNIDENTIFIED MALE: To talk about ambient air.

24 MR. BARRON: But again, property boundaries relative  
25 to public access or.....

1 MS. EDWARDS: Right. Because if they're on private  
2 lands then they're not necessary publicly accessible  
3 so.....

4 MR. BARRON: But if they're right next to a road,  
5 they're publicly.....

6 MR. KUTERBACH: That would be a public -- yes.

7 MR. BARRON: Okay. So I was -- so we would need to  
8 know the definition again.

9 MR. THOMAS: So we would need to know about it.

10 UNIDENTIFIED MALE: (Indiscernible) on private lands,  
11 it restricts the public access in some format, like on the  
12 North Slope where snow machines may be (indiscernible --  
13 interrupted).

14 MR. KUTERBACH: I mean, typically, how big is a pad on  
15 the North Slope?

16 MR. WILLIAMS: I mean it -- and that's why we need to  
17 go through it, because Prudhoe pads are huge and Alpine  
18 pads are really small.

19 MR. KUTERBACH: Well how small are Alpine pads?

20 MR. WILLIAMS: Well there's 100 acres of gravel out  
21 there, so -- and there's -- well about maybe, I don't know,  
22 10 acres, probably about 10 acres.

23 MR. BROWER: Is that development drilling or  
24 exploration drilling?

25 MR. BARRON: That's -- that's development drilling.

1 UNIDENTIFIED MALE: Per pad?

2 MR. WILLIAMS: Yeah, 10 acres per pad. Yeah, I can  
3 bring that back next month, acreages for Alpine pads versus  
4 Kaparuk pads. We have a PowerPoint slide on that.

5 MR. DAMIANA: This is Tom Damiana. I believe that the  
6 issue of private land is only applicable if they restrict  
7 the owner of that land from the use of that land while the  
8 rig is in place, right?

9 MS. EDWARDS: That could be.

10 MR. KUTERBACH: The owner of the -- no. The owner of  
11 the land can enter on his land. He's not the general  
12 public.....

13 MR. DAMIANA: He's still -- he's still public.....

14 MR. KUTERBACH: He's not the general public on his own  
15 land.

16 MR. DAMIANA: .....respect to the source, which is the  
17 drill rig, right, unless he owns the drill rig.

18 MR. THOMAS: No, Tom. What John is saying is that if  
19 he's the landowner, he's not the general public. It's his  
20 land.

21 MR. KUTERBACH: If he leases the land to them and  
22 says, you know, I'm leasing this area, but generally they  
23 -- the landowner still has access to his own land.

24 MR. DAMIANA: I don't -- I think that's different in  
25 how you guys handled it on the Cosmopolitan project.

1 MS. EDWARDS: Well I guess the point we're -- I guess  
2 the point we're trying to make here is whether or not any  
3 other states have addressed sort of boundary-related  
4 issues.

5 UNIDENTIFIED MALE: Or ambient air.

6 MS. EDWARDS: Or ambient air boundary kinds of issues,  
7 because it may be that the structure of their programs  
8 doesn't lead them down that path. Other things we need to  
9 be looking for in the other states?

10 MR. THOMAS: Bill, that Baker Hughes app that you were  
11 just talking about -- this is Brad, does it just give the  
12 gross number of rigs operating on a state level or does it  
13 give in on a field level?

14 MR. BARRON: The app that I'm looking at only gives it  
15 -- I mean I can -- it gives me a pictorial. I think you  
16 can get on a real -- you know, on a real computer, probably  
17 down to the field level, but this just gives me pinpoints  
18 by state.

19 MR. THOMAS: Okay.

20 MR. BARRON: And it doesn't allow me to drill down by  
21 state, how many per state, at least in the app. And it  
22 gives me U.S., Canada, and International in terms of total.  
23 Let me show you. That's what I'm looking at.

24 MR. THOMAS: Oh, wow. So on a bigger monitor, you  
25 could probably see it in finer detail.

1 MR. BARRON: It may be. Well I mean it -- there's  
2 (indiscernible) basin.

3 MR. THOMAS: There you go. Okay.

4 MR. BARRON: All right, so.....

5 MR. THOMAS: Does it show the Slope?

6 MR. BARRON: There's that sweep right there is  
7 Eagleford.

8 MR. THOMAS: Yeah. And all the blue dots are drill  
9 rigs?

10 MR. BARRON: Oil wells are red -- or gas wells are  
11 green -- or injection wells.

12 MR. THOMAS: Okay. So that's not drill rigs?

13 MR. BARRON: That's rigs.

14 MR. THOMAS: Oh, okay.

15 MR. BARRON: Well rigs associated with oil, rigs  
16 associated with gas.....

17 MR. THOMAS: Okay. Okay.

18 MR. BARRON: .....and there's the Slope.

19 MR. THOMAS: Yeah. Quite bit of difference.

20 MR. BROWER: We have three drill rigs?

21 MR. BARRON: It looks like there's four.

22 MS. EDWARDS: Here's another question. And maybe this  
23 is -- if we're on our side if we're talking to the  
24 regulatory folks would be whether or not they're having any  
25 similar issues.

1 MR. BROWER: Oh yeah, yeah. Or concerns.

2 MS. EDWARDS: Or concerns.

3 UNIDENTIFIED MALE: I would ask them how they're  
4 (indiscernible -- away from microphone and interrupted).

5 MS. EDWARDS: I mean I know we may have a different  
6 structure, but they may be modeling issues, too. They may  
7 be having -- I mean I assume they're having modeling  
8 issues, too. But, you know, there might be -- you know, it  
9 might be worth knowing whether or not -- maybe they haven't  
10 -- are those -- you know, if we're talking to state  
11 contacts maybe we want to find out whether they've -- if  
12 these programs reflect new standards.

13 MR. BROWER: Would it be appropriate maybe to get one  
14 case study from each one on how their applicant is to file  
15 a product?

16 MR. KUTERBACH: That would be a good thing to get.

17 MS. EDWARDS: It takes some time.

18 MR. KUTERBACH: I don't know if we're going to get it  
19 by the next meeting, though. That would be really good to  
20 get.

21 MS. MARTIN: Maybe there's -- you know, after the next  
22 meeting and, of course, on all the -- sorry, this is Nikki,  
23 preliminary information, there's a couple of states that we  
24 might find some things interesting enough that you go on to  
25 the case study.

1 MS. EDWARDS: Okay. That might be a good approach.

2 MR. THOMAS: So that said, that's a good way to  
3 develop the information regarding other states. This is  
4 Brad. But we would also -- would you want to bring the  
5 next meeting and we do -- can we can bring to the next  
6 meeting a description of how we do it in Alaska, complete  
7 with equipment inventory and so on?

8 MS. EDWARDS: Sure.

9 MR. THOMAS: Okay, we can do that.

10 MR. WILLIAMS: And pad sizes.

11 MR. THOMAS: Okay.

12 UNIDENTIFIED MALE: And what?

13 MR. WILLIAMS: Pad sizes.

14 UNIDENTIFIED MALE: From Prudhoe to Alpine. Thank  
15 you.

16 MR. THOMAS: So when we develop or present how it's  
17 done in Alaska, the specifics, we would present our rig  
18 counts by field, typically, rig inventories including tier  
19 level of engines, types of rigs. That's what I've got.  
20 Anything else?

21 MR. BARRON: I don't know that we can do it. This is  
22 Bill. But again, I'm looking at the Eagleford map. It  
23 would be interesting to see density of rigs per square mile  
24 or some sort of comparison, not just because it's on a pad,  
25 but how many -- you know, just the density kind of



1 calculation, if that could be available.

2 MS. MARTIN: Would this be the appropriate time, this  
3 is Nikki, for you to give the illustration of, you know,  
4 how often your drill rig is there, how often it's moving,  
5 what it looks like?

6 MR. THOMAS: Can we do that by the next meeting?

7 MR. WILLIAMS: Sure, a rig schedule.

8 (Indiscernible -- multiple speakers at the same time.)

9 MR. THOMAS: Okay, there you go.

10 MS. EDWARDS: So it sounds like a chunk of work to do.

11 MR. THOMAS: Yeah.

12 MS. EDWARDS: Yeah.

13 MR. THOMAS: You know, this is Brad. In presenting  
14 this information, you know, we're presenting really facts,  
15 if you will, we've uncovered. So I don't expect there's  
16 going to be a lot of dialogue, debates in the meeting, and  
17 we'll get through this probably fairly quickly, maybe a  
18 couple of hours. So then we could use the last part of the  
19 meeting to talk about the second bullet, how to demonstrate  
20 compliance with the air quality standards.

21 MS. EDWARDS: So at the next meeting, we would go  
22 through the collected information on other state programs  
23 and figure out whether there's any we want to explore  
24 further or, you know, just maybe discuss ideas that might  
25 appear to be transferrable to our situation. And then,

1 Brad, what were you saying? So then -- and then try to --  
2 so take some time to setup what we would do -- we would  
3 need some time to setup for the next meeting, subsequent  
4 meeting. And do sort of a similar thing to try and figure  
5 out what we need to bring to the -- or do you want to start  
6 into the.....

7 MR. THOMAS: Getting into the how to determine  
8 compliance with the air quality standards seems pretty  
9 fundamental to everything else we talk about. So the  
10 sooner we get into that, it seems like, the better.

11 MS. EDWARDS: So do you want to have a discussion more  
12 like this about what we need to go do or do you want to be  
13 bringing stuff back to start -- I mean do you want to work  
14 on that piece as well coming into the next meeting? I  
15 guess that's what I'm trying to figure out. Are we having  
16 -- are we going to start initiating the discussion,  
17 bringing information forward to initiate the discussion or  
18 are we going to lay the framework for gathering the  
19 different pieces of information we want to bring on that?

20 MR. THOMAS: Is it too soon to do that now?

21 MS. EDWARDS: I mean we could start working on just  
22 wondering resource and people wise if we -- if we're  
23 gathering all this state information, do we also have the  
24 resources to, amongst ourselves, to start developing that  
25 information as well so that we could start on that topic,

1 or do we want to frame that topic at the next -- more at  
2 the next meeting?

3 MS. MARTIN: This is Nikki. I think that's going to  
4 be a very substantive topic that's going to take the entire  
5 breadth of a meeting. And while I understand, you know,  
6 that we want to get into this as much as possible, as soon  
7 as possible, maybe we could start to get into it, but maybe  
8 that would be more fruitful as a framework discussion at  
9 the end of the next meeting. I don't know. I just feel  
10 like well we've outlined the information we're finding from  
11 these 14, 16 states will be a lot to cover and bring. And  
12 maybe it's that we find that there's nothing and so it's a  
13 short conversation. But, I don't know, that's just my --  
14 (indiscernible) make the meeting, which I also don't want  
15 to do.

16 MR. THOMAS: Well this is Brad speaking again. We  
17 have until December, right? We want to conclude our  
18 efforts by the end of the year?

19 MS. EDWARDS: I think our -- we had originally said  
20 that we wanted to try and get this accomplished between now  
21 and the end of the year.

22 MR. THOMAS: So next month is August. And if we don't  
23 start the conversation with the NAAQS until September,  
24 we're -- we're getting close, very close.

25 MS. EDWARDS: I know.

1 MR. THOMAS: But -- and it is pretty fundamental  
2 through the whole issue so that's why I wanted to get into  
3 it sooner rather than later. That said, I'm a pretty  
4 simple guy so I'm looking for feedback from, you know, the  
5 other members here regarding what do you guys think ought  
6 to be brought to the table to nail that issue? Because, to  
7 me, demonstrating compliance with the NAAQS, you know, the  
8 threshold is we have to, whatever we do, make sure that we  
9 have reasonable assurance that the NAAQS is protected.

10 MR. BARRON: How about -- you know, this is Bill. If  
11 we get through the other states and clearly understand what  
12 they're doing, and then begin to frame the second bullet,  
13 and then time dependent, start getting into it if we've got  
14 time. But at least frame it. I think that could be a  
15 pretty robust meeting in its own regard.

16 MR. THOMAS: Okay. Okay. Is there anything in  
17 advance that we could bring in preparation for it, that  
18 you're thinking?

19 MS. EDWARDS: Do we want, do we need, a background  
20 piece? And I'm saying this on the technical side from a  
21 modeling/monitoring perspective where maybe we can get some  
22 technical background on the types of, I don't know,  
23 (indiscernible)? I don't know. John, what do you think?  
24 I mean to me that's sort of a different group of people in  
25 our shop. But I'm wondering if there's a background piece

1 on the modeling/monitoring piece that might be useful to  
2 start framing -- help frame that discussion? I mean we've  
3 got your information that you've presented, you know, to  
4 some extent. I mean this could -- that could end up being  
5 a very -- I mean the modeling/monitoring aspects of that  
6 could be really -- I mean it could be -- it's a pretty  
7 technical topic. I mean it could be something where we  
8 want to set some technical people up to work on some stuff  
9 and then bring it back to us. I don't know. But at least  
10 options or ideas or, you know, that sort of thing on what  
11 might -- what we have and what we might want or, you know,  
12 where else would we go with that.

13 MR. BARRON: Let me -- let me ask a tangential  
14 question. This is Bill. Is the discussion around -- and  
15 this is kind of for Gordon and I. Is the question really  
16 around NAAQS and the modeling/monitoring, is that a subset  
17 of establishing the stationary equipment on mobile  
18 equipment?

19 MR. THOMAS: No.

20 MR. KUTERBACH: Even mobile equipment has to comply  
21 with the NAAQS.

22 MR. BARRON: Okay. Okay. I was just trying to make  
23 sure we didn't get the cart before the horse routine.  
24 Because if we could establish what we were trying to  
25 include in the model, that would help us establish what

1 model we had to run. Do you see what I'm saying?

2 MR. BROWER: I think the earlier question I had was  
3 can a mobile NAAQS affect a stationary NAAQS?

4 MR. KUTERBACH: Well this is John. There's really  
5 only NAAQS. It's the value that's in the air. Okay?

6 MR. BROWER: Probably the increment, I guess, is.....

7 MR. KUTERBACH: Okay. So as far as the increment  
8 goes, yes, everything after the baseline, everything that  
9 happens after the baseline date either increases or  
10 decreases the increment that you have available. You  
11 shutdown sources, that increases the increment you have  
12 available. You put in new sources, that decreases the  
13 increment you have available. You have less traffic, it  
14 increases the increment available. You have more traffic,  
15 it decreases the increment available. All right? So  
16 everything that impacts the air has an effect on whether  
17 you comply with the NAAQS and whether or not you've  
18 consumed the increment. Okay? So there's really no  
19 different stationary versus mobile sources as far as the  
20 impact on the ambient air. The question, though, is when  
21 do you check it and how do you regulate it? Okay? Which  
22 kind of -- which is different between stationary sources  
23 and mobile sources. Mobile sources can be regulated by  
24 having requirements of how they can be used and what fuel  
25 they can use and how often they have to be inspected.

1 There's requirements that way to keep them -- to regulate  
2 the mobile sources, and it's done with a broader area  
3 modeling to show that that's going to -- usually it's done  
4 in places that have bad air. And so it shows how they can  
5 improve the air quality through those mechanisms. So I  
6 guess, Gordon, the answer to your question is there's  
7 really no difference between mobile and stationary with  
8 respect to the NAAQS. They don't have to comply.

9 MR. BROWER: I'm still kind of stuck on why we would  
10 think about -- and I think it was answered earlier about  
11 this 24-month interval.

12 MR. KUTERBACH: Well that's the increment. And really  
13 the only reason we have the 24-month increment is to give  
14 people an exemption from increment. All right? So if  
15 you're going to degrade air quality for only a short period  
16 of time and then air quality goes back, we don't -- we  
17 don't count that toward the increment. All right? But if  
18 you're going to degrade air quality and it stays more or  
19 less permanent then that is counted against the increment.  
20 So that's the only reason we have the 24-month is to give  
21 an exemption, not -- it's not adding anything extra.

22 MS. EDWARDS: So I guess, Brad, coming back to your  
23 question a little bit is I'm just wondering -- I mean in  
24 the context of our current approach, I mean we have real  
25 specific federal guidelines that we use for modeling and

1 there's things that we have to do when we look at  
2 monitoring in lieu of modeling or in truing-up models and  
3 things like that. And I guess my question is, in the  
4 context of where we're headed right now, do you want to  
5 have some background on -- I mean would it be helpful for  
6 the group to have some technical -- I mean in framing the  
7 discussion, if that's what we can do at the next meeting,  
8 would it be helpful to have a little bit more technical  
9 background, knowing that this is a very technical issue, on  
10 sort of how that works or what those requirements are?  
11 Because there are paths to doing monitoring in lieu of  
12 modeling, but there's a very -- the EPA has some very  
13 specific guidelines in the federal requirements about how  
14 you go about doing that.

15 MR. THOMAS: For me, no, Alice.

16 MS. EDWARDS: I mean I think you probably know those  
17 things, but I know that probably not everybody at the table  
18 does.

19 MR. BARRON: This is Bill. It would certainly help  
20 me. I mean.....

21 MS. EDWARDS: And I don't know if we need -- I mean  
22 we've talked about some of the basic issues and, you know,  
23 why -- the problems that you've been having modeling  
24 compliance and things like that and the desire to use  
25 monitoring. And I just wonder if we need to go back and



1 talk about that technical framework a little bit more about  
2 what EPA is typically, in their guidance and requirements,  
3 what we look at when we deal with that.

4 MR. THOMAS: Yeah. In talking through this, I'm  
5 coming around to your way of thinking in that in the next  
6 meeting we work through what we find out regarding other  
7 states and what that means to us. And then we get to how  
8 we demonstrate compliance with the ambient air quality  
9 standards with the goal of framing it up, figuring out how  
10 to talk about it in the next meeting.

11 MS. EDWARDS: Okay.

12 MR. THOMAS: So that's -- so I made a note to myself  
13 to come with some ideas.

14 MS. EDWARDS: Yeah. Because I think that there's a  
15 couple different ways we could tackle this. Because this,  
16 to me, can be really technical. And we may want to come up  
17 with a specific approach to get the right people working on  
18 it who understand all of those really highly technical  
19 issues, and then they can get -- they can get past that  
20 initial background and into actual solutions probably  
21 faster than if we try to tackle them at this table.

22 MR. THOMAS: Okay.

23 MR. KUTERBACH: This is John. We don't have to do all  
24 the work here at these meetings. You know? It doesn't  
25 have to all come back here and we work on it. We can have

1 subcommittees working on stuff and reporting back to the  
2 group in, you know, the interim.

3 MR. THOMAS: Okay.

4 MR. KUTERBACH: So I think that's what we'll do is cue  
5 that sort of work up at the next meeting.

6 MS. EDWARDS: Okay. I think that, to me, makes a lot  
7 of sense. Just because, I think, we will struggle through  
8 bringing us all up to a level where we can all talk about  
9 it. And it think some of it is so nuanced and technical,  
10 but if we could just let the technical folks duke it out,  
11 so to speak, they may be able to come up with creative  
12 options to looking at some of these things and how things  
13 fit together that that would take us a long time to get to  
14 if we worked them at the table. So I think framing it,  
15 that sounds like a good idea for the next meeting. So when  
16 do we want -- we don't have John in the room now. He  
17 stepped out for a minute. But let's think in terms of  
18 timing. So a month out is essentially the first full week  
19 of August.

20 MR. THOMAS: The week of the 5th.

21 MS. EDWARDS: The week of the 5th. Do we think we can  
22 pull this stuff together in that amount of time? It seems  
23 pretty short. But I will say, for myself, I'm going to be  
24 gone the week of the 12th and half of the week of the 19th.

25 MR. BARRON: Yeah. I'll be gone the week of the 12th.

1 UNIDENTIFIED MALE: (Indiscernible) of the month is  
2 going to be tough.

3 MR. BARRON: So I think.....

4 MS. MARTIN: Oh, go ahead. Sorry.

5 MR. BARRON: Go.

6 MS. MARTIN: I was just going to say maybe later that  
7 week.

8 MR. THOMAS: The week of the 5th (indiscernible).

9 MS. MARTIN: And I'm just going to mention at this  
10 time that I actually will no longer be part of the  
11 workgroup, because I'm moving out of state, but.....

12 UNIDENTIFIED MALE: No excuses.

13 MS. MARTIN: .....Alejandra will be filling in as the  
14 alternate until they designate.

15 MR. THOMAS: So you'll call in by phone?

16 MS. MARTIN: Yeah, sure, from the road. I should be  
17 in Oklahoma by that point.

18 MR. BARRON: Well you can give us a rig count on the  
19 way.

20 MS. MARTIN: Yeah.

21 MR. BARRON: You're going to be our Oklahoma contact  
22 on how they do it.

23 MS. EDWARDS: So it sounds like we have got a couple  
24 of options. If we want to stick with a month, which I  
25 think will be challenging.....

1 UNIDENTIFIED MALE: Very.

2 MS. EDWARDS: But if we want to stick with a month,  
3 that week -- we could look at that week of the 5th, maybe  
4 toward the end of the week, but I would think, you know,  
5 Wednesday, the 7th or the 8th.

6 MR. THOMAS: Yeah, the 8th is better.

7 MR. BARRON: Okay. Let's call it the 8th. I'm good  
8 with the 8th.

9 UNIDENTIFIED FEMALE: Same here.

10 MS. EDWARDS: Okay. And because it's that or we  
11 probably could go six weeks out and look at maybe the 22nd  
12 or the 23rd. That would be the other alternative I see.  
13 Although I could not be here for the meeting, too, if.....

14 UNIDENTIFIED MALE: We don't want that. That won't  
15 work.

16 MR. TURNER: Four weeks would be tough to get a lot of  
17 information, calling states in the middle of the summer  
18 with their leave, their vacation times, contacting people.  
19 Six weeks would give more opportunity to get more correct  
20 information.

21 MR. THOMAS: So are you suggesting we meet the week of  
22 the 19th?

23 MR. TURNER: Yes.

24 MR. THOMAS: I guess I'm okay with that. We would --  
25 I wouldn't want to push -- well I guess I'm okay with that,

1 Tom. If we want to meet the week of the 19th, that's good  
2 with me.

3 MS. EDWARDS: What's your week of the 19th look like,  
4 John?

5 MR. KUTERBACH: Aren't you out that week?

6 MS. EDWARDS: Half that week.

7 MR. THOMAS: Doesn't school start that week?

8 MR. KUTERBACH: I can probably do something that week.

9 MR. THOMAS: Because school starts that week, that  
10 means I'll definitely be here.

11 MS. EDWARDS: I'm coming home on the 21st.

12 MR. EVANS: (Indiscernible -- away from microphone.)

13 MR. KUTERBACH: You're going to come home and go  
14 straight to this?

15 MS. EDWARDS: Well it's that or come here and then  
16 leave the next day.

17 MR. KUTERBACH: Or we push it back, otherwise it would  
18 be the 1st of August (indiscernible -- interrupted).

19 MS. EDWARDS: The 8th of August.

20 MR. KUTERBACH: .....which.....

21 UNIDENTIFIED MALE: No, I can't do the 8th.

22 MR. KUTERBACH: Okay.

23 UNIDENTIFIED MALE: I'm out.

24 MR. TURNER: Can we do it the first part of that  
25 following week when you come back?

1 MR. THOMAS: You're talking like the 19th?

2 MR. KUTERBACH: No, she comes back on the 21st.

3 MS. EDWARDS: I come back on the 21st so I could do it  
4 the 22nd or the 23rd, that week.

5 MR. TURNER: Or the following Monday or Tuesday?

6 UNIDENTIFIED MALE: The 22nd works for me.

7 MR. BARRON: Let's not push it past the 22nd. I mean  
8 my concern is that, again, keeping mind we're trying to get  
9 this thing done by the end of the year, that kind of pushes  
10 us way out in time.

11 MS. EDWARDS: So the 22nd then? Gordon, how does that  
12 look for you?

13 MR. BROWER: I think the 22nd can work.

14 MS. EDWARDS: Okay.

15 MR. BROWER: August 22nd?

16 MS. EDWARDS: Yeah. Mike, are you on the phone still?

17 MR. MUNGER: Yes, I am.

18 MS. EDWARDS: How does August 22nd look for you?

19 MR. MUNGER: That should work for me. I've got a few  
20 things. I may be back in D.C. right then, but I'll be sure  
21 to let you know pretty soon.

22 MS. EDWARDS: Okay. Okay. So if we shoot for August  
23 22nd, that gives us six weeks. And we can pull together as  
24 much information as we can from the other states. We can  
25 start trying to bring -- you know, we can come to the

1 meeting with some ideas on how to setup the modeling -- you  
2 know, sort of the compliance -- or determine compliance  
3 with the NAAQS piece as well. And maybe come up with some  
4 approaches or ideas on how to tackle that one. We've got  
5 our list of states. We've got our list of questions. How  
6 do we want to present that information? Do we just want to  
7 go state by state and we can report out from each site on  
8 sort of what we found for those states or do you want to  
9 try and orchestrate it a little bit in advance?

10 MR. THOMAS: State by state. And then what each of us  
11 finds, we'll just bring to bear on that state.

12 MR. BARRON: That will work.

13 MS. EDWARDS: Okay.

14 MR. THOMAS: Now for the presentation of what goes on  
15 in Alaska that may be a presentation.

16 MS. EDWARDS: Oh, that could be a presentation.

17 MR. THOMAS: Yeah.

18 MS. EDWARDS: Absolutely. And I was going to say, if  
19 you have notes or something on each state that you want to  
20 use, bullet notes or something that you want to use, if you  
21 want to -- you know, if we have them early enough, we might  
22 be able to make a consolidated list of what was found if we  
23 get them in advance. Otherwise, maybe we can come with  
24 some sort of cheat sheet of notes.

25 MR. KUTERBACH: It would be worthwhile for us to be

1 able to setup either a web meeting or something so that  
2 people on the phone can see the stuff that we've got.

3 MS. EDWARDS: Good idea.

4 UNIDENTIFIED MALE: So we need a room with a DAV?

5 MR. THOMAS: So, Jim, that room we used last time was  
6 pretty good, wasn't it?

7 MR. SHINE: Yeah.

8 MS. EDWARDS: And, Jim, can you check on room  
9 availability? And then if we have a problem here, we can  
10 look further locations.

11 MR. SHINE: Yep.

12 MS. EDWARDS: Are there logistics or things we want to  
13 consider?

14 MR. TURNER: There may be a need to coordinate with  
15 different parties about what subjects are -- prior to the  
16 meeting, to organize how it's going to be presented.

17 MR. THOMAS: We can, yeah.

18 MR. TURNER: And that would be a subcommittee, just  
19 calling people, how are you going to do it, what's going to  
20 happen, for the logistics of it.

21 MS. EDWARDS: Okay. Somebody will have to take that  
22 on, because I'm not going to be here for like a week and a  
23 half before. But we should be doing it a couple of weeks  
24 out, so.

25 MR. TURNER: Because the last couple of times of



1 putting together, things come in the day of. And going to  
2 the website, if we get earlier, we can put it on the  
3 website, give it out to -- the website has been useful for  
4 people to go to, I'm assuming. And all the subject matter  
5 is there. And so we can put things onto the website as we  
6 get it. So if it comes in advance, we can always put that  
7 on the website. And if I'm not seeing stuff, I may give  
8 people a call and try to see what's up.

9 MS. EDWARDS: Okay. Very good. So just -- so I think  
10 we're good for the next meeting? So just a reminder, if  
11 you have any edits on the notes from the last meeting,  
12 please send them to Tom, and Jim can work on incorporating  
13 them.

14 MR. SHINE: You can just send them to me.

15 MS. EDWARDS: Tom or Jim, or send them to either.....

16 MR. TURNER: Actually send them to -- I'm going to be  
17 out so send them to Jim Shine for any edits to the minutes  
18 for the workgroup. And if you can consolidate those  
19 minutes and then send them to our staff, we can post it.

20 MS. EDWARDS: And we'll get it updated. And if we  
21 could get those this week, that would be great.

22 MR. TURNER: Excuse me. Jeanne, do you just want them  
23 directly to you?

24 MS. SWARTZ: Yeah, that would be so much easier.

25 MR. TURNER: Okay. So we'll send out a note to all

1 the workgroup members that the edits to the minutes, Jeanne  
2 sent an earlier email out to everybody, just send them to  
3 Jeanne Swart at the state. And she'll make all the edits  
4 and make sure it gets posted on the web page. Thank you.

5 UNIDENTIFIED MALE: Do you still want us to cc you?

6 MS. EDWARDS: Yeah, that would be great.

7 MR. TURNER: Just cc Jim and I.

8 UNIDENTIFIED MALE: Okay.

9 MS. EDWARDS: That would be great. Are there any  
10 other action items that I missed? I think we covered a lot  
11 of ground today, so I appreciate everybody's hard work.

12 UNIDENTIFIED MALE: It was a good meeting.

13 MS. EDWARDS: Excellent. Well unless there's anything  
14 else, I think let's call it good 10 minutes early.

15 MR. THOMAS: Good job.

16 THE REPORTER: Off the record at 4:50 p.m.

17 (End of proceeding.)

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TRANSCRIBER'S CERTIFICATE

I, Gloria Schein, hereby certify that the foregoing pages numbered 3 through 138 are a true, accurate and complete transcript of the Global Drill Rig Policy workgroup meeting of July 9, 2013, transcribed by me from a copy of the digital sound recording to the best of my knowledge and ability.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Gloria Schein