

COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION

IN RE: PIPELINE INFRASTRUCTURE TASK FORCE

BEFORE: JOHN QUIGLEY, Chairman
Terry Bossert, Dave Callahan, William Sieb,
Keith Coyle, Fredrick Dalena, Denise
Binley, Dan Devlin, Michael DiMatteo, Joe
Fink, Alan Brinser, Anthony Gallagher,
Nicholas Geanopulos, Mark Gutshall, Lauren
Parker, David Hanobic, Mike Helbing, Walt
Hufford, Cindy Ivey, Cristina Jorge
Schwartz, Don Kiel, David Messersmith,
Marvin Meteer, Duane Peters, Mark Reeves,
Leo Bagley, David Smith, Michael Smith,
Steve Tambini, Justin Trettle, Davitt
Woodwell, Gladys Brown, Joseph McGinn,
Representative William Keller

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CHAIRMAN QUIGLEY:

Good afternoon, everyone. Welcome.
Thank you for coming to today's meeting of the
Governor's Pipeline Infrastructure Task Force. My
name is John Quigley, I'm the Secretary of DEP and
you're stuck with me as the Chairman. I'd like to
start us off with introductions, so if we can just go
around the room for the members of the Task Force to
introduce themselves, please. Terry.

MR. BOSSERT:

Terry Bossert, Range Resources.

MR. CALLAHAN:

Dave Callahan, MarkWest Energy Partners.

MR. SEIB:

Bill Seib, chief of regulatory for the
Baltimore District Corps of Engineers. I don't know
if there's any ---.

MR. COYLE:

Keith Coyle, Van, Ness, Feldman.

MR. DALENA:

Fred Dalena, EQT Corp.

MS. BRINLEY:

Denise Brinley, Department of Community

1 and Economic Development.

2 MR. DEVLIN:

3 Dan Devlin, DCNR.

4 MR. DIMATTEO:

5 Michael DiMatteo, Pennsylvania Game
6 Commission.

7 MR. FINK:

8 Joe Fink, CONE Gathering.

9 MR. BRINSER:

10 Alan Brinser, Pennsylvania Emergency
11 Management Agency.

12 MR. GALLAGHER:

13 Anthony Gallagher, Steamfitters Local
14 420.

15 MR. GEANOPULOS:

16 Nick Geanopulos, Geanopulos
17 representations.

18 MR. GUTSHALL:

19 Mark Gutshall, Land Studies.

20 MS. PARKER:

21 Lauren Parker, Civil and Environmental
22 Consultants.

23 MR. HANOBIC:

24 David Hanobic, Federal Energy Regulatory
25 Commission.

1 MR. HELBING:

2 Mike Helbing, Penn Future.

3 MR. HUFFORD:

4 Walt Hufford with Talisman.

5 MS. IVEY:

6 Cindy Ivey with Williams.

7 MS. SCHWARTZ:

8 Cristina Jorge Schwartz, Apex Companies.

9 MR. KIEL:

10 Don Kiel, Seat of Council of
11 Governments.

12 MR. MESSERSMITH:

13 Dave Messersmith, Penn State Extension,
14 Penn State University.

15 MR. METEER:

16 Marvin Meteer, Wyalusing Township,
17 Bradford County.

18 MR. PETERS:

19 Duane Peters, ACEC.

20 MR. REEVES:

21 Mark Reeves, Shell.

22 MR. BAGLEY

23 Leo Bagley, PennDOT.

24 MR. SMITH:

25 David Smith, Pennsylvania Turnpike

1 Commission.

2 MR. M. SMITH:

3 Michael Smith, the --- excuse me.

4 Pennsylvania Department of Agriculture.

5 MR. TAMBINI:

6 Steve Tambini, Delaware River Basin

7 Commission.

8 MR. TRETTLER:

9 Justin Trettle, Rice Energy.

10 MR. WOODWELL:

11 Davitt Woodwell, Pennsylvania

12 Environmental Council.

13 CHAIRMAN:

14 And Madam Chair.

15 MS. BROWN:

16 Gladys Brown, Pennsylvania Public

17 Utility Commission.

18 CHAIRMAN:

19 And we have one more Task Force member.

20 MR. MCGINN:

21 Joe McGinn, Sunoco Logistics.

22 CHAIRMAN:

23 Thank you, Joe, appreciate it. All

24 right. Again, thank you all for coming, really

25 appreciate everybody's continued investment of time

1 and energy in this effort. It's incredibly important,
2 and as I'll talk about in a minute, even more so. I
3 just want to first draw your attention to what's on
4 the screen, our calendar going forward. I just want
5 to make sure that folks understand where we're at in
6 terms of the process. This meeting today will be one
7 of the last that we have actual substantive
8 presentations.

9 November 2nd, Monday, November 2nd, is
10 the deadline for all workgroup reports to be sent to
11 Karyn Yordy of my staff. Then we will, with normal
12 sufficiency and rapidity turn around a draft for the
13 Task Force and Workgroup members just five days later
14 on Friday, November 6th. On Saturday, November 14th
15 we will begin --- we will have the announcement of the
16 public comment period in the Pennsylvania Bulletin.
17 That period will open on November 14th.

18 On Wednesday, November 18th, we will
19 have a meeting to discuss the draft report. So
20 hopefully folks will be able to speed read once we get
21 the draft report out. Monday, December 14th, the
22 public comment period will close. January 4, the
23 final draft will be sent to the Task Force and
24 Workgroup members for their review.

25 We'll meet finally on January 13th to

1 discuss the final draft. And then early in February
2 present the Final Report to the Governor. So we are
3 certainly entering the lightning round now, and just
4 want to make sure that folks have these dates in mind
5 as we go forward. The actual effort here in the
6 meetings will change in complexity and depth once we
7 have a draft in front of us for some work.

8 Just in terms of my report, just very
9 quickly, I want to maybe underscore the importance of
10 our work together both as a Task Force and the members
11 of the Workgroup. If you're following the headlines
12 at all, you know that there is continued public angst
13 and in some localities continued public protest around
14 pipeline development. And we continue to be in a low-
15 price regime. The gas industry got together this week
16 and there was quite a bit of discussion about the
17 necessity of this infrastructure build-out to overcome
18 the low-price regime. So the work that we are doing
19 here is very important in real time, and our ability
20 to turn a quality document over to the Governor in
21 February I think will put us in a really good position
22 to be effective.

23 The ambition here is once we have our
24 Final Report we intend that it not gather dust, that
25 it be translated into action, whether that be

1 voluntary or other policy or other measures that the
2 Commonwealth will take to, again, facilitate the
3 development, provide predictability of this
4 infrastructure build out and reduce community
5 environmental impacts at this same time. So it's ---
6 our work is incredibly timely and I think ever more
7 important for the Commonwealth. So I, again, want to
8 thank you for all of that.

9 I want to get right into the reports of
10 the Workgroup chairs, so in no --- everyone's number
11 one in our hearts, so please don't take offense
12 regardless of the order here. We're going to start
13 with Mike Smith from Agriculture.

14 MR. M. SMITH:

15 Thank you, Mr. Secretary. I too will
16 try to be brief. Since our last meeting, at which
17 time we had one presentation from Jim Gardner from the
18 Susquehanna County Conversation District, much of what
19 he said there was a particular interest to the
20 agricultural field, so we invited him to give a
21 presentation to our Workgroup. That took place about
22 three weeks ago. Good discussion in the wake of that
23 presentation.

24 We also yesterday had the opportunity to
25 meet with the DEP's internal working group. I brought

1 with me Doug Wolfgang who is our director of farmland
2 preservation. That's one particular issue that's come
3 up as a need to address for which we'll likely have a
4 recommendation. So we got to talk about those issues.
5 During that conversation, there was also some
6 discussion about the impact in particular to organic
7 farmers given the limitations and restrictions on
8 certain production practices.

9 Aside from that, generally just
10 redoubling our research mode, looking at what other
11 states have done, looking at best practices, looking
12 at information resources that we might replicate here
13 in Pennsylvania to serve as a resource to land owners.
14 And we're in the process of scheduling our next
15 meeting for the end of this month. Thank you.

16 CHAIRMAN:

17 Next, Conversation of Natural Resources,
18 Dan Devlin.

19 MR. DEVLIN:

20 Thank you, Mr. Secretary. Well, our
21 group continues to meet every two weeks. We have very
22 good participation. So far all our meetings have been
23 by conference call, and we do have a rather large
24 group, so some of that discussion's kind of awkward at
25 times, but we're plowing through it. We continue to

1 use our share point site as a place where we all can
2 get together and put down material. We've been
3 populating it, still continue to populate it with
4 information and references for the Committee's use.
5 We are just now starting to draft BMP's
6 recommendations using the template. We are cognizant
7 of the timeline, so we will work on recommendations,
8 BMPs for the next two weeks. We'll have a check in at
9 the two-week mark, then we'll continue on BMPs and
10 recommendations for the next two weeks. Then we'll
11 have a face-to-face meeting in about a month, and
12 that'll leave us about --- and we'll refine our BMPs
13 at that time, and that'll leave us about two weeks to
14 refine our report that we'll submit on November 2nd.
15 So that's where we're at.

16 CHAIRMAN:

17 Great. Thank you, Dan. The County
18 Government Committee is --- the Chair, Commissioner
19 Kathi Cozzone, is not able to attend this morning's
20 meeting --- or this afternoon's meeting. She did
21 contact my office earlier today just to report that
22 her Workgroup is making good progress. They're
23 working very hard so we're looking forward to a
24 continued effort from the County Government Committee.
25 We'll go to Emergency Preparedness next,

1 Rick Flinn's designation. Go ahead.

2 MR. BRINSER:

3 Good afternoon, Mr. Secretary. I'm Alan
4 Brinser with the Pennsylvania Emergency Management.
5 I'm the Chief of Technological Hazards Division
6 standing in for the Director today. We're pleased,
7 we've had two conference calls during that time. On
8 our second conference call, we fleshed out the
9 beginning of what we considered a draft report. Many
10 in the group felt that there's been a lot of work done
11 in this area.

12 We used the Marcellus Advisory Committee
13 report as a template, which was very helpful advice
14 from the Secretary. We felt that we don't need to so
15 much as reinvent the wheel because so many things have
16 been done, which we're also pleased that you've
17 allowed for a speaker to come today, PHMSA is
18 represented there today. Mr. Keiger was one of the
19 people, among others, who recommended that we have
20 PHMSA speak and I think that'll be a very worthwhile
21 presentation for all of us.

22 With that said, we also took the
23 recommendation to add a representative from the State
24 Fire Academy to our working group. The representative
25 they'll be sending will help us to validate the plans,

1 to correct, add or whatever may need to be adjusted in
2 our recommendations and best practices. But our next
3 meeting is a face-to-face meeting at PEMA on October
4 7th where we hope to finalize the report or get it
5 close to final and work from there. Thank you, Mr.
6 Secretary.

7 CHAIRMAN:

8 Great. Thank you, Alan. Next,
9 Environmental Protection, Hayley Jeffords.

10 MS. JEFFORDS:

11 Thank you. To date we have had four
12 conference calls and two face-to-face meetings. One
13 of those face-to-face meetings was also a field trip
14 to Towanda, Pennsylvania where we were able to tour
15 some pipeline sites, some that had been completed only
16 nine months prior to us visiting the site and some
17 that were under active construction.

18 That day we also had some presentations
19 from our Workgroup members, Will Radcliffe and Lauren
20 Parker, over the permitting processes that the
21 Pipeline companies must go through in order to begin
22 development. And that was very helpful so that we can
23 --- as part our call is to look for opportunities to
24 make that process more efficient. So I know our
25 Workgroup appreciated that.

1 We recently had a face-to-face meeting
2 where we started to really flesh out some of our BMPs
3 and recommendations, getting into active discussions
4 and trying to refine those recommendations. We are in
5 the process of trying to firm up our second --- our
6 third face-to-face meeting coming up in mid-October so
7 that we can really go through all the BMPs we have,
8 because as you can imagine, environmental protection
9 and permitting process planning are very, very broad
10 topics.

11 So we have a quite a big task ahead of
12 us, but we have a lot of great suggestions already
13 down, pen to paper, and now we're just in the process
14 of going through them one by one, discussing them as a
15 group and getting feedback, making sure that we have
16 support for all of our BMPs. So our final report,
17 we're hoping to have by the last Pipeline
18 Infrastructure meeting, we're going to meet before
19 then to really just refine the grammar and the
20 phrasing and the format. And by November 2nd we'll
21 have our draft report done.

22 CHAIRMAN:

23 All right. Great. Thanks, Hayley.
24 Historical, Cultural and Tribal Workgroups, Serena
25 Bellew.

1 MS. BELLEW:

2 Good afternoon. We have also had
3 several meetings and phone --- well, in person and
4 over the phone. We are continuing to work on our
5 fairly wide topic, as well. We've decided to have a
6 separate sort of conversation about the tribal issues
7 because of that being more geared towards a Federal
8 responsibility than a State responsibility, but we
9 will still have some recommendations for the Governor
10 regarding how he could interact with tribes that are
11 associated with Pennsylvania.

12 We have several draft recommendations in
13 the works, we're having another meeting tomorrow. And
14 we're looking at, also, other areas within the natural
15 gas industry, specifically there's an industry and
16 community, I suppose, organization that the Secretary
17 is familiar with. It was called GAP and now it is
18 called LEAP, and we're going to be looking at some of
19 their developed best practices, which is specifically
20 for natural gas drilling, but also I think we can
21 adapt it to cultural resource issues for pipelines as
22 well.

23 And I will likely be reaching out to the
24 chairs of the --- specifically the public
25 participation and the natural resources workgroups,

1 because I believe that we're going to have some very
2 similar recommendations, and I just want to see that
3 we're --- how we're overlapping and make sure that
4 we're saying the same thing in the same way. That is
5 the plan for now.

6 CHAIRMAN:

7 All right. Thanks, Serena. Next, Local
8 government, Marvin Meteer.

9 MR. METEER:

10 Thank you, Mr. Secretary. We had a
11 face-to-face meeting last Thursday. In prior
12 conference calls, we had focused in on three general
13 areas of communications, impacts on our roads and the
14 regulation of service facilities. Last week in our
15 face-to-face meeting we reviewed drafts of
16 recommendations dealing with those three general
17 areas. In dealing with communications, we recognize
18 that that is a two-way process. But it's probably one
19 of the items that our members are most adamant about
20 is maintaining that communication from the pipeline
21 companies to the municipalities.

22 Impacts on local roads is an item that
23 we've been dealing with from the very beginning of
24 this process and likewise, with the regulations of
25 surface facilities and recognition of surface

1 facilities, many municipalities are able to deal with
2 that through their zoning ordinances and local
3 ordinances. But we also have to recognize that there
4 are many municipalities throughout the Commonwealth
5 that don't have zoning. So there is an attempt here
6 to cover this issue for all municipalities throughout
7 the Commonwealth.

8 And finally, we are looking at
9 developing a checklist for municipalities that would
10 be effective in all of these areas. Our members of
11 our Workgroup have been enthusiastic. We had most of
12 our members at our face-to-face meeting last week.
13 Those who were not able to be there did join us by
14 phone, and we had what I would consider very good
15 participation. Thank you.

16 CHAIRMAN:

17 Thank you, Marvin. Next, Natural Gas
18 End Use, Sarah Battisti.

19 MS. BATTISTI:

20 Thank you, Secretary. We held our
21 second meeting in Philadelphia a few weeks back where
22 we had a presentation from UGI on their Get Gas
23 initiative, which was very helpful in explaining to us
24 how they develop and build out their pipeline
25 infrastructure from a utility standpoint. We also had

1 a presentation from Terry Fitzpatrick from the Energy
2 Association, which was equally helpful in talking to
3 us broadly about what his group represents, the
4 utilities around and how they build out their
5 infrastructure.

6 Our next meeting is in Pittsburgh at the
7 Allegheny Conference, where we hope to have further
8 conversations and actually start to discuss our list
9 of BMPs, which we have established and are ready to
10 talk about, and obviously, working with the timeline
11 that we have to have a serious conversation about
12 that. So that's where we stand.

13 CHAIRMAN:

14 Great. Thanks, Sarah. Next, Pipeline
15 Safety and Integrity, Madam Chair.

16 MS. BROWN:

17 Thank you. Since our last Task Force
18 meeting, our Workgroup has met several times, taking
19 advantage of the fact that the PUC had a gas safety
20 seminar in Penn State a couple weeks of go. So we
21 took advantage of that location. We knew some of our
22 Workgroup members as well as some of the Task Force
23 members would be in attendance there, so we had a
24 face-to-face with an opportunity for people to call
25 in. And then also we have a meeting this morning,

1 which was a face-to-face, discussing many issues.

2 One of the issues that we were
3 discussing in detail is on mapping, so with that, we
4 did invite Bill Keiger from PA One Call to come in and
5 give us a presentation, which was very helpful and we
6 had a lengthy discussion on that. Some of our other
7 issues that we're hashing out, of course, is defining
8 the gathering lines and whether they go from the well
9 pad to transmission, as well as regulating class one
10 gathering lines, making them equal to class two
11 gathering lines, pipeline integrity, of course, for
12 all class locations.

13 Some of the other things that we're
14 discussing, but we haven't gotten into detailed
15 discussions today, but we've mentioned public
16 emergency preparedness and public awareness, and we
17 know that we need to also reach out to the other
18 Workgroups that may be working on some of these
19 overlapping issues. Our next meeting will be
20 September 30th.

21 CHAIRMAN:

22 Thank you. Next, Public Participation,
23 Cindy Ivey.

24 MS. IVEY:

25 Good afternoon. We've had --- oh,

1 excuse me. We've had four meetings to date, we had
2 one earlier today. We have set all of our meetings
3 for the rest of October and continue to be a mix of
4 face-to-face and telephone conference calls. We are
5 discussing quite a lot and researching what already
6 exists in the realm of public participation and public
7 awareness as well as discussing recommendations
8 related to some sort of central website for
9 information or a portal that might be organized by
10 stakeholders, including landowners, local officials,
11 environmental groups in helping educate the maze of
12 processes associated with pipeline development.

13 We're also working on some basic
14 principles for stakeholder engagement for pipeline
15 companies. This would be based on the template of
16 INGAA's commitment to landowners. We're also
17 discussing how to go about maybe earlier and more
18 transparent notification of permit applications and
19 just continuing to enhance and augment really what
20 already exists in continuing our research in that
21 area.

22 CHAIRMAN:

23 Great. Thank you, Cindy. Next, Siting
24 and Routing, Leo Bagley.

25 MR. BAGLEY:

1 Thank you, Secretary. Over the past
2 month we have some in-person meetings, conference call
3 meetings. We did a site visit to Lycoming County
4 hosted by Lycoming County Planning Commission where we
5 went to a site hosted by Anadarko where we saw
6 pipelines, pad sites and Permian basins, compression
7 stations and saw the mitigations and good practices
8 which we observed on the sites themselves. We had an
9 in-person meeting a couple of weeks ago, started
10 discussing some BMPs. We will start circulating our
11 first draft of BMPs by the end of this week, early
12 next week. We are on schedule for an October 21st in-
13 person meeting again in Harrisburg. And we will have
14 a draft for you November 2nd.

15 CHAIRMAN:

16 Thank you, Leo. And finally, last by
17 certainly not least, Workforce and Economic
18 Development, Dave Sweet.

19 MR. SWEET:

20 Thank you, Mr. Secretary. We have met
21 three times since the last meeting of this larger
22 group. Those meetings have been by telephone. Our
23 Workgroup has been divided, first, into two Workforce
24 and Economic Development and then secondly, even
25 further sliced between three different workgroups

1 within those categories. And there's been a lot of
2 effort and research and really centralized data
3 maintenance that's resulted from that work.

4 We've met with the INDUCE Committee
5 chair, had a wonderful meeting and discussed how there
6 was some overlap between our two groups. And I know
7 some of the members of our committee have been even
8 attending and participating the INDUCE meetings as
9 well, since it was perceived early on by our economic
10 development group that the real key here was the
11 INDUCE opportunities that were going to be made
12 available. And we hope we'll expand dramatically.

13 We'll have an in-person meeting
14 scheduled next week. At that time we hope to begin to
15 develop recommendations and try to put pen to paper
16 and get some bullet points together for review. And I
17 guess final point, I think we're going to block out a
18 conference room for all day Sunday, November 1st, and
19 I've already ordered coffee for that evening for the
20 inevitable all-nighter that I think not only my group,
21 but many others may well participate in to make sure
22 to meet your deadline. Thank you.

23 CHAIRMAN:

24 Thank you, Dave. And just tremendous
25 work, folks. Deeply appreciate everybody's

1 involvement and energy and commitment to this. And
2 tolerance of ambiguity in some cases, but it's really
3 great work. I want to get right into the
4 presentations today. We will have four great
5 presentations. The first two before break, we will
6 hear from Jeff Logan of the Bravo Group who
7 volunteered to educate us about industry, best
8 management practices and current, kind of the state of
9 the art from the industry perspective.

10 He will be followed by Nels Johnson of
11 The Nature Conservancy, an individual who I've known
12 for a long time who has done nationally and indeed
13 internationally significant work on the impacts of
14 energy development on the natural world and how to
15 avoid and minimize some of those impacts. So we'll
16 start with these two and we'll introduce the other two
17 after the break. But without any further ado, Jeff
18 Logan.

19 MR. LOGAN:

20 Hi, good afternoon. Thank you,
21 Secretary Quigley. And Karyn, if you can get me ---
22 great. Well, thanks again for the opportunity to
23 present today. When Secretary Quigley asked that I
24 present and talk about pipeline exemplary practices,
25 best management practices, leading management

1 practices, I decided to reach out to lots of parties
2 to better understand what are leading best management
3 practices, whether they're in place now or if they are
4 aspirational leading practices, things we may not have
5 in place now, but what can we do to make pipelines
6 more environmentally safe, safe to our communities and
7 at the same time without constricting economic
8 development.

9 Before I get started, I just want to
10 thank some of the people that shared their time with
11 me to help me better understand what is a best
12 management practice when it comes to pipelines so that
13 I can better understand before I tried to be
14 understood what I'm going to share with you today.
15 I'd like to thank starting with Davitt Woodwell, John
16 Walliser from PEC, Liz Johnson PA Natural Conservancy,
17 Sarah Battisti Southwest Energy, Dave Callahan
18 MarkWest, Commissioner Pam Witmer PUC, Nels Johnson
19 Nature Conservancy. Not direct conversation, Nels,
20 but by watching a really interesting video that you
21 put on with Davitt and the Secretary not too long ago.
22 Very informative.

23 Patrick Henderson MSC, Mike Helbing from
24 Penn Future, Mark Brownstein from Environmental
25 Defense Fund and also my dear friends and colleagues

1 from DEP for their patience in answering environmental
2 science questions to a business guy, such as myself.
3 And finally with great thanks to Karyn Yordy who
4 coordinates all these for all of us. Thank you,
5 Karyn.

6 Okay. Now, Pennsylvania currently lacks
7 sufficient distribution to move all our natural gas
8 transport to market. Over the next ten years, 20,000
9 to 30,000 miles of pipeline will be placed in the
10 ground across Pennsylvania. With 2,5631
11 municipalities, 17 million acres of forest out of the
12 27 million acres of land in Pennsylvania, this
13 Commonwealth-wide infrastructure build-out poses major
14 considerations for communities and the environment. I
15 think we'll all agree to that.

16 Just to reiterate the goal of why we're
17 here, to develop a set of leading management practices
18 that will be embraced by industry as part of the
19 pipeline planning phase that will minimize or mitigate
20 negative impacts to our communities and environments.
21 Typically, regulations take two years. We don't have
22 two years, and that's why this group is together.
23 We're seeking to --- on this expedited timeline, to
24 come up with some recommendations to the Governor that
25 can be embraced by industry, that can be embraced by

1 the environmental community that we can agree on to
2 move forward. I moved through that.

3 So what do pipelines represent? To
4 some, pipelines represent economic prosperity and
5 growth, to others, extended dependence on fossil
6 fuels. We have differing opinions on what those
7 pipelines represent to us. You know, as we drive the
8 economy forward, we need to do so in an
9 environmentally sustainable way. But the focus of
10 this presentation --- and we have an hour and we'll
11 try not to take an hour. I'm joined with me by Adam
12 Pope who is our energy practice lead at the Bravo
13 Group. We're going to touch on three main points.

14 Pipeline 101, I'm just going to take a
15 couple minutes to clarify various terms that we hear
16 associated with pipelines so we're clear. Second, I
17 got to focus in on gathering lines. That seems to be
18 where most of the concern resided as I talked to
19 business, industry and communities and the
20 environmental communities also.

21 And then finally community engagement
22 and communications. This component is super
23 important, you have the science part, but the way in
24 which we communicate with each other --- this, by the
25 way, I think is one of the best management practices

1 there are. We have to be at the table together,
2 having disparate views, but bringing those together to
3 come up with a solution is clearly a best management
4 practice.

5 So starting with pipelines, pipeline
6 101. And please bear with me for those of you that
7 know this inside and out, I just want to clarify some
8 terms. So we have gathering lines, and I think heard
9 from, I think the PUC, they're working on some
10 clarification on defining what gathering lines are
11 with regard to safety and so forth. So I didn't feel
12 that far --- I don't feel that off the mark when I was
13 trying to define were is this short definition of a
14 gathering line, because it doesn't seem to exist.

15 But in any case, for discussion
16 purposes, gathering lines go from about the well head
17 to a production facility. Transmission lines, from a
18 production facility on to --- into as to interstate or
19 intrastate transmission. And finally, distribution is
20 what's coming to your home, typically, or business
21 regulated by the PUC. Those are the three main
22 categories.

23 Now, here's a graphic that will depict
24 that. You know, many --- you'll hear a term, well,
25 which line is the midstream line. Because a lot of

1 people --- we have a midstream industry, where does
2 midstream start and stop. Just for general purposes,
3 midstream really is the transportation from ---
4 includes gathering transportation --- or gathering
5 transmission and also the associated equipment moving
6 that gas throughout the system. Pipelines, according
7 to the Pipeline and Hazardous Material Safety
8 Administration, are regarded as one of the most safest
9 and efficient manners of transportation of natural gas
10 and oils. But there's not --- certainly there are
11 pros and cons to that.

12 There was just a recent article in the
13 Wall Street Journal that talked about the four main
14 ways to transport these things, pipelines, boats,
15 truck and train, and there is no one solution that has
16 no cons with it. I mean, there are tradeoffs all
17 along on the way here, and so pipelines certainly
18 don't --- there are benefits, but certainly there are
19 concerns.

20 So I'd like to start with gathering
21 lines and who regulates gathering lines, what are the
22 characteristics of a gathering line, 8 to 30 inches in
23 diameter, 3 to 5 feet below the surface, sometimes
24 deeper. Typical right-of-way is 50 to 75 feet. And,
25 Nels, you may correct me on that when you come up, but

1 that's the information I got. And finally, they're
2 classified by a class one, two, three or four
3 classification. And that's a classification that has
4 nothing to do with going --- what's underground, it
5 has everything to do with what's occurring up on the
6 surface within a mile distance, how many homes,
7 buildings and so forth are --- what's the population
8 density over that pipeline.

9 Class two, three and four are overseen
10 and very regulated from a safety standpoint. There is
11 a concern that class one, which most of them are, are
12 unregulated. But I think you'll find from industry,
13 when it comes to a class one pipeline, that most of
14 those are put in with the idea of added safety without
15 the minimum --- not making the minimum requirement the
16 maximum effort. Typically, those are installed under
17 the provisions of a class two or three in the event of
18 future development, so they don't have to reduce the
19 pressure of gas or tear the doggone line up and then
20 put a higher class of pipeline in.

21 Regulating agencies. So we have FERC
22 which typically regulates the transmission lines,
23 interstate and intrastate. We have the Pipeline and
24 Hazardous Materials Safety Administration with safety
25 standards for all natural gas pipelines, including

1 gathering lines class one through four. The Army
2 Corps of Engineers, waterways and wetlands, they also
3 oversee gathering lines. Department of Environmental
4 Protection oversees gathering lines. And gathering
5 lines have to comply with all the environmental
6 conditions that are required of a transmission line.
7 Even though it's maybe on a private property, it still
8 has to comply with DEP's rule and regs. And that
9 would fall under, also, County Conservation Districts
10 and PHMC. And we can't forget about NMBI (sic). NMBI
11 also applies for any disturbance of land over, I
12 think, it's five acres. Do I see a nod, five acres
13 for NMBI. I'm sorry, PNDI. Okay. Thank you, sorry.

14 Okay. So why are gathering lines such a
15 challenge to consolidate, co-locate, compared to a
16 regular transmission line. And a lot of it has to do
17 with the fragmentation --- the fragmented aspect of
18 where the wells are located. In the United States
19 natural resources are owned by landowners, private
20 citizens. So there's --- they have rights to do with
21 they want to do on their land and who they want to
22 sell their mineral rights to. And I think the
23 gathering lines, the way we see that spider web of
24 lines, is a bit of a reflection of that.

25 Industry has to negotiate with

1 individual landowners if they're going to cross their
2 land to put in a pipeline, a gathering line. There
3 are no --- there's no eminent domain associated with a
4 gathering line, which makes a challenge. I mean, I
5 think we would love to see co-location as much as
6 possible with gathering lines, but it's very, very
7 challenging when you have this engagement the way it's
8 set up where industry has to negotiate individually
9 with property owners.

10 So, a best management practice, I think
11 from what I'm hearing, would be better education on
12 the part of --- for local government to work with
13 property owners as to what may be the best way to site
14 pipelines on their properties. Again, they have to
15 get landowner right-of-way approval, there are often
16 permitting issues that will change the direction of
17 those gathering lines. And so while it may look like,
18 on a map, there's no rhyme or reason to it, oftentimes
19 it's just a reflection of all the different
20 negotiations that are required to put in that line.
21 So better education would be a best management
22 practice, better working with local government with
23 local landowners to see if they can come up with a
24 smart planning process.

25 I think better planning would certainly

1 be in the interest of everybody. And I'd like to ---
2 and part of that, we've heard with regard to PNDI, as
3 you're trying to come up with a strategic plan on
4 where to locate a pipeline, one aspect that makes it a
5 challenge is you don't have all the information
6 associated with where is there an endangered species.
7 If that information was being provided upfront,
8 industry tells me they would have an easier time and
9 more effective time planning out, laying out a
10 pipeline. I know there are a lot of reasons why we
11 don't share that information upfront. But it is a bit
12 like when you play Battleship, you know, you say that
13 E4 is it a hit or isn't it. It does kind of protract
14 the process of trying to locate those pipelines.

15 A gathering line leading management
16 practice, sized and sited for future community growth
17 is certainly a leading management practice. And as
18 pipeline companies work with local government, where
19 is the growth going to be, sizing those pipelines from
20 a class one to a class three upfront is certainly a
21 leading management practice.

22 The mitigation of forest fragmentation.
23 Obviously, Route 80 is a classic example of forest
24 swath --- just a giant swath through the middle of the
25 forest that breaks up the habitat, not something that

1 we want to see with pipelines if we can avoid it. But
2 we see it all the time, whether it's a fire cut on the
3 woods for eliminating a chance of wildfires to
4 highways. If there are ways to accommodate the local
5 habitat to allow that migration across those rights-
6 of-ways, that's certainly a leading management
7 practice to look for.

8 Co-location is also of interest but,
9 again, a challenge on gathering lines, less so with
10 transmission lines. Capacity sharing, fascinating
11 concept, one pipe accommodating many companies on a
12 metered base. Terrific idea, the one challenge there
13 is when you are metering a capacity-based pipeline
14 like that now you're going to fall into the PUC as a
15 utility, and they are other --- there are many
16 considerations certainly on that front. And we talked
17 about PNDI.

18 Gathering line construction leading
19 management practices. Soil segregation, when you're
20 stripping that topsoil, making sure that's segregated
21 in a way that after the pipeline is installed you're
22 covering everything up. You're putting that native
23 topsoil and hopefully native seeds and ground cover
24 back over that pipeline to make that come back
25 hopefully the next season the way it was before it was

1 disturbed.

2 Edge planting, we heard about edge
3 planting last month, a terrific BMP. Habitat
4 enhancement, equipment cleaning. As backhoes and
5 everything move from a right-of-way into different
6 areas, cleaning those off so they're not bringing in
7 plants and invasive species into that right-of-way
8 that then will have to be dealt with in the future.

9 Gathering line maintenance best
10 management practices. Documentation, one of the
11 biggest challenge with gathering lines, existing
12 gathering lines, is where are they. A lot of them
13 we've --- the State's been in this business for 100
14 years, and in many cases we don't know where these
15 gathering lines are, a lot of times we don't know
16 where conventional wells are. So to the degree that
17 we can keep proper documentation on where these lines
18 are being placed as they're being placed and providing
19 that information to local government so that they're
20 aware of it from a first responders standpoint to
21 maintenance, being able to monitor invasive species.
22 Having that information is critically important, GIS
23 capabilities and so forth, but --- and then ongoing
24 maintenance of those lines.

25 There's a whole lifecycle concept to

1 this, what happens 50 years from now or 100 years from
2 now with that pipeline after its life expectancy, and
3 I just couldn't get my head around that one. So I
4 don't know. I'm sure there's some more discussion on
5 total lifecycle, whether you pull it out of the ground
6 or plug it some way, but I just kind of left that one
7 open. But that was a comment that I had heard from
8 some.

9 Gathering line safety best management
10 practices. PA One Call, you're familiar with PA One
11 Call being able to provide the GIS locations where the
12 pipelines are so that in the event that anybody wants
13 to dig that we don't puncture a line. That's always a
14 threat. You know, we had heard about best management
15 practices of aligning lines next to roads. There's
16 always a chance of a backhoe digging these things up,
17 so PA One Call is certainly a best management practice
18 from a safety standpoint.

19 Standardized markings, so that anywhere
20 in the state there's standardized markings for a
21 location of these gathering lines, is something that
22 certainly should be explored. Consistent
23 communications with local stakeholders, not only
24 preconstruction, during construction, but also post-
25 construction in that ongoing maintenance. And then

1 finally, annual training exercises with first
2 responders in the communities.

3 So those are some ideas that we've
4 heard. The Workgroups are certainly putting together
5 similar best management practice ideas to forward up
6 to the Secretary. At this point, I'd like to
7 introduce Adam Pope. Adam is also with Bravo Group.
8 Adam's in charge of our energy practices and works
9 very closely with a number of the midstream companies,
10 energy companies, on specifically community engagement
11 and communications, and he can share with you some of
12 those successes as a best management practice. Thank
13 you.

14 MR. POPE:

15 Thanks, Jeff. As Jeff said, I run Bravo
16 Group's energy practice and we are currently advising
17 on several of the largest pipeline infrastructure
18 projects going on in the State and in the Northeast
19 right now. So we recommend, as a BMP, developing a
20 strong, robust community engagement and stakeholder
21 engagement plan. And this way that ensures that your
22 project's built on time and on budget. I know
23 companies can never be completely transparent, project
24 details change daily, but we feel you should try to be
25 as transparent as possible when and wherever it is

1 possible.

2 As I said, strong communications and
3 outreach plan is vital because we feel that
4 interacting with those communities, they need to know
5 your companies values, they need to know the benefits
6 of the project. And a lot of times, as many of you
7 know, those individuals that are having the most
8 frequent contact with the community and with
9 landowners are oftentimes third party right-of-way
10 agents, acquisition agents. So it's very important
11 that not only your target audience, but also those
12 representing your company out in the field know your
13 company's values, you know, who your company is and
14 then obviously the project details and the importance
15 of the project.

16 So this is just a kind of who's who of
17 who your target audience really is out there. And it
18 ranges everywhere from elected officials to NGOs,
19 landowners and impacted members of the community,
20 academia. You know, everyone and everything in
21 between. And I can't stress enough, you know, the
22 importance of County, Township and Borough
23 supervisors, they truly can be your biggest advocate
24 in the community. And they can also be your biggest
25 hindrance to getting that project built. So looking

1 at this list, now you kind of know who your target
2 audience is and who those groups are.

3 Now, how do you figure out how they feel
4 about natural gas development, pipeline development,
5 your company and your project? And the answer to that
6 is, you know, research. And Bravo Group, we recommend
7 doing in depth research. And what this allows is,
8 one, it serves as your foundation for your outreach
9 communications plan moving forward. It will be the
10 backbone of your messaging framework but also, you
11 know, we feel that research is listening.

12 And why is it so important to listen is
13 because when you conduct quantitative and qualitative
14 research you identify who your target audiences are in
15 the community and the corridor, what their concerns
16 are, it allows you to test messaging and your creative
17 developments, your info graphics, your commercials,
18 things like that, your creative treatments. And it
19 also gives you baseline perceptions about your
20 company, the project and the industry as a whole.

21 So you'll be able to tell what really
22 resonates with those target audiences. Is it the jobs
23 and economic growth associated with natural gas
24 development and pipeline development, is it lower
25 energy prices, is it furthering ourselves towards

1 energy security. You're able to test what really
2 resonates with those target audiences.

3 Moving into advocacy, two simple phrases
4 that I like to use in terms of advocacy, it should be
5 early and it should be often. And education,
6 continuous communication are key really to alleviating
7 project concerns. And this also allows you face time
8 and time to really stress that your company's a true
9 partner in the community. And the investments both
10 from a financial side and on the project side of it,
11 but also those community investments that you're
12 making, those sponsorships, you know, those need to be
13 heard so that your stakeholders can share that news
14 with their neighbors.

15 Continuing on, still under this kind of
16 advocacy umbrella is environmental considerations.
17 You know, companies are doing a lot in the
18 environmental space in terms of their projects and
19 educating all parties on environmental safety
20 considerations that are being taken by your company is
21 important so they understand the steps that you are
22 taking. And really, you know, we feel that education
23 equals advocacy.

24 A very big stakeholder component of
25 these projects, obviously, is government relations.

1 Like all other stakeholders, engagement with elected
2 officials should be early and it should be often. And
3 it needs to go above and beyond the walls of the
4 capital and the walls of D.C. The district offices
5 are equally, if not more, important because if a
6 landowner or Borough official has an issue with that
7 project or that company, chances are they're going to
8 go to that District office first and foremost. So
9 educating those District Office staff members is key
10 to these projects. And, you know, in all my time of
11 doing stakeholder engagement, outreach engagement for
12 natural gas industry I've never once has an elected
13 official tell me that they're being updated too often.

14 Still sticking with government
15 relations, you know, not everybody understands all the
16 nuances to pipeline development, so take the time to
17 truly educate elected officials not only on the
18 industry as a whole, but on how your company builds
19 pipelines and your construction process. And share
20 good news, share milestones but also try to keep
21 particularly District Offices informed of when you're
22 shutting down a road, when you're moving in equipment
23 in, when you're moving equipment out. Those kind of
24 proactive measures really go a long way with staff
25 members in alleviating problems down the road.

1 Media relations, the one group --- the
2 one stakeholder group, that we've all kind of been the
3 most hesitant to truly engage. But you need to know
4 both who your advocates are and, you know, who are the
5 people that aren't truly in favor of the project just
6 yet. So you need to know who they are, and working
7 with the media is a big component of that. You need
8 to identify trusted sources out in the community that
9 can speak credibly about your project.

10 Having those third-party advocates out
11 there talking about your project goes a long way. And
12 I think really in terms of early and often engagement
13 of the media and how it can work in your favor, you
14 know, was really made evident over the last several
15 months. But truly last week, as you saw, the positive
16 media attention shown towards what's being done in
17 Marcus Hook and around Sunoco Logistics and the revamp
18 of that area since the refinery shut down in 2011.

19 Media is also you need to build
20 relationships, you need to meet face-to-face with
21 reporters in terms of a crisis, and unfortunately,
22 they do have it from time to time. You need to
23 identify a company spokesperson who can speak about
24 the project and about the incident. And, you know,
25 proactive pitch, get ahead of project milestones and

1 times of disruptions, so that when that reporter hears
2 something in the community, they come directly to you
3 to discuss it and get a quote from you. And as
4 always, with any type of media, moderate measure and
5 be prepared to pivot quickly at times.

6 Digital and social, if you're not
7 operating on digital and social, you should be because
8 all interested parties in natural gas and pipeline
9 development are. So you need to understand who's
10 talking about your project and on what channels. You
11 need to create digestible, easily understood content
12 and move away from industry jargon. Create content
13 that motivates and educates, distribute that content
14 through target audiences on the channels that they're
15 on, that's a big thing. And that's one of the things,
16 you know, going back to the research that we pinpoint
17 is what channels, what social medial channels do
18 people in the community listen to, or is it just do
19 they follow traditional media so you know how to reach
20 those people.

21 Engage, seek out opportunities to have
22 conversations about the project. Mobilize or rally
23 supporters to spread educational methods and, as with
24 traditional media, constantly measure and be able to
25 pivot.

1 So what we see is a corporate and crisis
2 comms component to these projects. And, you know, the
3 biggest thing with corporate and crisis comms is
4 develop a master narrative. One of the old campaign
5 slogans is don't ever allow your opposition to define
6 yourself before you can. So come up with a master
7 narrative, who you are and how you're different. As I
8 said before, develop consumer-centric messaging. Why
9 is a project important, you know, is it energy
10 security, is it lower energy costs, is it jobs and tax
11 revenue, and make it digestible. Just because it's
12 important to you doesn't mean it's important to all of
13 your target audiences.

14 And then obviously develop a crisis
15 communications plan. As we've seen in the past, the
16 community deserves to be updated and open in an honest
17 and timely manner when incidents do occur.

18 And we've already said in Jeff's --- we
19 know that pipelines are the safest and most efficient
20 mode of moving natural gas, natural gas liquids and
21 petroleum products. You know, environmental community
22 impacts can be minimized by operating and implementing
23 BMPs. And really we feel that industry and
24 communities, in engaging in that open and honest
25 dialogue, really is the best management practice. So

1 that is it for me. Thank you.

2 CHAIRMAN:

3 Any questions for Jeff? I am seeing
4 none. Going once, going twice. All right. Thank you
5 very much. Appreciate it.

6 MR. LOGAN:

7 Thank you.

8 CHAIRMAN:

9 All right. Our next presenter will be
10 Nels Johnson from the Nature Conservancy. Nels, take
11 it away.

12 MR. JOHNSON:

13 Well, thank you, Mr. Secretary. And
14 boy, am I impressed with how much progress you guys
15 sound like you're making already in such a short time.
16 I'm not aware of any single state having such a group
17 looking at all the complexities around pipeline. I
18 mean, I can understand why you might be up at midnight
19 on Sunday, November 2nd, I think I heard. So I guess
20 I'm glad not on one of these committees. But anyway,
21 good luck with your work. So I guess I need to figure
22 out how to get out of here.

23 So I'm Director of Energy for the North
24 American Region for the Nature Conservancy. I
25 previously was working with a chapter here in

1 Pennsylvania, so I know many of you in this room and
2 so some of what I'm going to say is not going to be
3 news for you. But we have made some advances in some
4 of this work, even if you have heard of it previously.
5 So I'm hoping that what I'm able to share with you
6 this afternoon will inform your deliberations in the
7 coming weeks.

8 Okay. Great. So let me just say the
9 obligatory few words about the Nature Conservancy. We
10 are a large science-based organization. We
11 traditionally have been focused on conserving kind of
12 the most important habitats in lands around the United
13 State and now in 40 countries around the world. But
14 as we've done that work over the last 60 years we've
15 come to realize it's not just about buying and
16 protecting land. It's really about looking at marine
17 habitats, looking at river and lake systems. And then
18 understanding how climate and then all sorts of other
19 things are impacting those places that are part of our
20 mission. And that takes us into things like
21 infrastructure development.

22 We have seven billion heading towards
23 nine billion people on this planet in the next 20 to
24 30 years. There's going to be a huge amount of
25 infrastructure built to serve all the needs of those

1 people, and energy is not the least of those. And so
2 what I'm going to do this afternoon is just tell you a
3 little bit about what we think the scale and scope of
4 some of the impacts are, just from the pipeline
5 development part of the energy picture and then what
6 are some of the strategies, and particular a couple of
7 tools, that might be useful in addressing some of
8 those impacts.

9 So when it comes to oil and gas
10 development, this is what people usually think of.
11 They think about the well pads, they think about
12 what's going on in the oil or gas production areas.
13 This happens to be in North Central Pennsylvania, in
14 the Marcellus up in the Tioga County. And that's what
15 a lot of people think the impacts are. But, in fact,
16 if you actually look at the spatial distribution of
17 where energy's being developed, it's actually more
18 from pipelines than it is from all the well pads and
19 roads and all the other infrastructure that goes into
20 getting oil and gas out of the ground. And so I'm
21 just going to give you a little sense of how big these
22 impacts are as a precursor to talking about tools so
23 we can deal with some of those impacts.

24 This is from some research that's just
25 been completed by some of my colleagues at the nature

1 conservancy, looking at the future of energy
2 development in the next couple of decades, something
3 they're calling energy sprawl. And they looked at all
4 different kinds of energy and they've been able to
5 determine that this is by far the leading cause of
6 land use change in America today is energy
7 development. And not just oil and gas development, as
8 you'll see, other kinds of development as well. And
9 much of this energy development, because of the new
10 kinds of technologies we're using, it was taking us in
11 to places that traditionally we haven't seen energy
12 development.

13 So it kind of challenges some of the
14 conservation goals we might have, it may challenge
15 communities that aren't used to these forms of
16 development, whether it's solar in the Mohave Desert
17 or whether it's Marcellus development in Southwestern
18 Pennsylvania. But we do think there is really
19 tremendous opportunity for getting this right, being
20 smart about how we site and place energy. And so
21 that's really what I'm going to focus on after I get
22 through a few of these impacts. So just to set the
23 stage.

24 So there are direct, of course, impacts.
25 This is a Marcellus well, three or four acres, direct

1 impact, pretty obvious. But they're also indirect
2 impacts, and so this is an oil and gas field in the
3 Jonah Basin in Southwestern Wyoming. And you can see
4 that there are lots of well pads and roads connecting
5 them and pipelines connecting it all. But the space
6 in between is that direct impact and may be impacted
7 for species. Like, for example, sage grouse,
8 pronghorn antelope, mule deer are no longer using that
9 habitat in between the places that have been directly
10 converted. So there's also this indirect kind of
11 landscape impact that we should think about as well.

12 And when they counted up these different
13 kinds of energy development projections over the next
14 couple years based on several energy information
15 administration scenarios that were released last year,
16 they're projecting up to 50 million acres being
17 directly converted from whatever land use it is today
18 to energy production or transportation. Coal's a big
19 part of that picture, and that picture's probably
20 changing as we speak because coal is declining and
21 being replaced by natural gas. So you can imagine the
22 blue part of that pie getting squeezed down and the
23 green part of the pie with natural gas is probably
24 actually expanded even since this research was
25 completed a few months ago.

1 And in that indirect impact, that's kind
2 of what we call the fragmentation effects and what the
3 habitats are caught in between the direct impacts and
4 that are no longer available for lots of species is a
5 much bigger picture, maybe as large as the size of
6 Texas. And here natural gas does start to be a big
7 part of the equation, in large part because of all
8 that gathering line development that's needed to get
9 the gas out. And this is just a way of kind of trying
10 to show how it's moving into new areas.

11 So these are oil and gas basins across
12 the United States, and obviously you can see that
13 Marcellus and Utica in this part of the world. And
14 the darker parts of those basins are areas where there
15 hasn't been previous oil and gas development, so most
16 of the oil and gas basins that are thought to have
17 potentially productive resources have not seen
18 development until now. And so we are talking, even
19 within established oil and gas basins, lots of new
20 territory that could get developed in the next couple
21 of decades.

22 And we can take a closer look, this is
23 the Appalachian Region, and this is just highlighting
24 how forests could be impacted by different energy
25 types. And you can see they don't quite all overlap,

1 but across the Appalachians you see Shale Oil and Gas,
2 you see coal, you see wind all impacting forests in
3 different places. And so this was just projections
4 that we've done to try and get an understanding of how
5 forests over the next 20 or 30 years might be impacted
6 by different kinds of energy development.

7 And then we did more specific work in
8 Pennsylvania here a few years ago to get an
9 understanding of where energy development is more than
10 less likely. And if they are going to be something
11 like 10,000 well pads in the next 20 or so years, this
12 is what that might look like using a probability map
13 of potential oil --- well, I should say Marcellus
14 development here in Pennsylvania. So you can get a
15 sense of the geography that comes into play. And if
16 we were to overlap that with important forest areas,
17 especially in the North Central part of the state, you
18 would see a lot of overlap.

19 So pipelines, in the United State we
20 already have about 300,000 miles of large diameter
21 natural gas pipelines. We have about half that much
22 of hazardous liquid pipelines. And the pipeline
23 industry is estimated at about 5,000 miles of large
24 diameter natural gas line being built every year. I
25 think that's a significant underestimate, it's

1 probably at least twice that. But in any case, that
2 is a large amount of pipelines being built every year.
3 And here in Pennsylvania we're going from about 12,000
4 miles large diameter pipelines, it's probably going
5 --- our projections indicate it could at least
6 quadruple just by taking gathering lines into account,
7 not looking at the longer distance transmission lines
8 which will be a shorter overall impact on the
9 gathering lines but, nevertheless, would increase that
10 footprint.

11 So when you put that footprint together,
12 as I mentioned earlier, I mean the accumulative
13 spatial area that the pipelines lines take up is more
14 than all the rest of the infrastructure. So what
15 you're really focused on really is the most important
16 piece of the puzzle. In fact, at the University ---
17 or actually at Carnegie Mellon University, there's
18 some researchers there who've looked at how do you
19 reduce the fragmentation of forests when it comes to
20 oil and gas development. And they found you could
21 reduce the fragmentation of the impact 85 percent just
22 by co-locating gas lines with either existing roads or
23 other pipelines or other transmission lines.

24 So we know this is really one of most
25 challenging pieces of the whole energy development

1 puzzle when it comes to oil and gas development. And
2 there you can see a projection that suggests that
3 maybe up to 300,000 acres could be directly impacted
4 by pipeline development here in Pennsylvania the next
5 couple decades.

6 And, of course, there are a variety of
7 impacts, we can see water quality. Obviously,
8 building pipelines on really steep slopes can lead to
9 erosion into streams if practices, some of the leading
10 management practices we've heard about earlier, are
11 implemented. We certainly can see habitat loss
12 depending on where this infrastructure goes. And it's
13 not just pipelines, it can be things like compressor
14 stations which could take five acres or so for just
15 one compressor station. And, of course, we see
16 fragmentation from the pipelines themselves. I mean,
17 if you have 100 foot right of way, you're going to see
18 about 12 acres cleared for each mile. So just say
19 that as kind of a rule of thumb.

20 And Jeff did mention that gathering
21 lines are typically 50 to 70 feet wide. And that's
22 true when they're finished, when they re-grow, but
23 typically it's about 100 feet that's actually cleared,
24 enabled enough space for construction. And that's one
25 place where maybe we can get some improvements by

1 narrowing those right-of-ways by getting technologies
2 and methodologies in place that we can narrower right-
3 of-ways, at least in certain sensitive locations.

4 And then there's these broader kind of
5 indirect impacts, and this is just a way of trying to
6 visualize it. As you create that new opening in the
7 forest, for example, you see increased light, reduced
8 humidity, increased invasive species, increased
9 predation, you can see increased storm damage, the
10 trees along the right-of-way. So that's kind of the
11 indirect. And that goes --- you know, forest
12 ecologists typically say once you create a pathway or
13 a swath through a forest you're going to see impacts
14 about 300 feet into the edge of the forest. So if
15 it's 12 acres a miles just for the clearing, that more
16 indirect impact, even though the forest is still
17 there, lots of species that aren't using it anymore,
18 it covers about 72 acres for each mile of that new
19 pipeline development. So about six times what the
20 actual direct clearing impact is.

21 So those are some of the reasons why, we
22 think, it's really worth trying to do smarter planning
23 around pipeline development. Those are some really
24 significant impacts, we think, and cumulatively lots
25 of places, not just in Pennsylvania but in the Central

1 Appalachians and really across the county are likely
2 to be affected.

3 So I want to shift now to talk a little
4 bit about strategy tools. And I'm really going to
5 talk mostly about tools, the Secretary asked me
6 particularly to focus in on tools. But I'll just
7 indicate that there are broader strategies that these
8 tools can serve to support, right. And we heard a
9 number of those strategies by Jeff Logan just a few
10 minutes ago, so I just won't spend too much time on
11 these.

12 But they're some obvious things like
13 sharing capacity, demonstrating a need --- that you
14 actually need that additional pipeline mileage.
15 Regional landscape planning is really an important
16 part, we think, that should take place at the very
17 earliest inkling of needing to develop a pipeline
18 someplace. And in particular, I'm going to talk about
19 a couple tools that can help with that process.
20 There's been some talk about mitigation fees or impact
21 fees, so for example, if a pipeline goes down a very
22 steep mountainside that's forested with really
23 erodible soils, maybe there should be an impact fee or
24 mitigation fee that's higher for that kind of pipeline
25 than there would be for pipeline that's in a really

1 stable and maybe already cleared area or the existing
2 right-of-way.

3 Co-locating pipelines, we've heard a lot
4 about that. What are the different kinds of right-of-
5 ways, what are the barriers to co-locating? You know,
6 can we do an inventory of what those barriers are and
7 figure out if there are policy or administrative ways
8 around those barriers? I mentioned narrowing right-
9 of-ways as something. You know, it's pretty
10 interesting. There's a park in New Jersey --- a
11 county in New Jersey, where they have a 36-inch line
12 that goes through it with a 12-foot right-of-way.
13 They were actually able to do that. There's now a
14 hiking path that goes right over where the pipeline is
15 and they've made it kind of wind through the park. So
16 it's not a straight line, it actually has some curves
17 to it. And you would never know that there's a 36-
18 inch pipeline underneath that trail. So it can be
19 done, and I'm not saying it should be done everywhere,
20 but there are places where we might want to try and
21 pursue those kinds of approaches.

22 And then, as we heard from Jeff earlier,
23 there's right-of-way management. These pipelines,
24 when they're built, there are things that we can do to
25 lessen the impact and actually make them a positive

1 feature in certain situations for wildlife and for
2 people who live nearby.

3 So the first thing I'm going to talk
4 about is a tool that we developed called EnSitu. This
5 is really focused on the oil development or the gas
6 development field itself, and it includes roads, pads
7 and gathering pipelines. And so I bring it up because
8 I know gathering pipelines is something that you are
9 looking at.

10 We also think this tool could be adapted
11 for longer distance transportation lines, although
12 it's not configured to do that now. And basically
13 this is tool that we've developed with several
14 partners at the University of Tennessee, the Cadmus
15 Group with support from the Colcom Foundation, Richard
16 King Mellon Foundation, the J.P. Morgan Foundation.

17 And the tool is really designed to help
18 kind of, if you will, optimize impacts, reducing
19 impacts versus the cost it takes to reduce those
20 impacts. And so it generates a bunch of different
21 scenarios for developing a given area. And then it
22 estimates environmental impacts in a range of
23 different issues or criteria that can be spatially
24 mapped. And then it actually tells us what the cost
25 of each or the relative cost of each of these

1 scenarios is.

2 And so we've developed this to be kind
3 of a voluntary tool, though we can imagine it also
4 being used in a regulatory context to evaluate
5 applications. But it's really intended to help
6 companies go beyond regulatory compliance. Many of
7 the impacts we're talking about that we'd like to see
8 minimized or avoided are not addressed in any
9 regulatory context. For example, forest
10 fragmentation. There is no regulations that say you
11 can't fragment forests, but we think it's a good idea.
12 So we would like to make it easier for companies to
13 find ways to do that.

14 And like I said, we recognize that
15 companies have to deal with costs, right. I mean,
16 people aren't going to do something different or new
17 if it's going to cost a whole lot more. So we're
18 trying to understand and map out what the costs of
19 these different scenarios are so that companies can
20 make informed decisions about pursuing them. And as I
21 said, we think this tool can also be focused only on
22 the linear infrastructure, like longer distance
23 transmission lines, although we'll have to do some
24 work to get it adapted to do that.

25 So it basically works by taking a bunch

1 of base data that we've already assembled, it takes,
2 then, user-provided inputs that a company would have,
3 for example, what are the least boundaries that it's
4 looking at, or where is the transmission line it needs
5 to hook in its gathering lines into so it can
6 accommodate that user input. And then it generates
7 all these different scenarios and evaluates the costs
8 and the impacts. And so we're really looking at oil
9 and gas operators, consultants.

10 Consultants really have become a really
11 important audience for us on this, because they do so
12 much of the planning for oil and gas companies and
13 pipeline companies. So we're really starting to look
14 at how we can reach the consulting community with
15 tools like this, as well as large landowners, public
16 land managers, for example. Dan Devlin of DCR, they
17 could use our tool perhaps. And we could imagine
18 regulators using it as a way of evaluating
19 applications, for example.

20 So the tool is organized with data for
21 this region, the Marcellus region essentially that you
22 see shaded here in yellow. So anywhere in this region
23 the tool can work starting today. And it basically
24 works by setting out production units then laying out
25 where the pads might go, and then it lays out roads

1 and pipelines for a whole bunch of different
2 scenarios. And then for those scenarios we can
3 actually look at how they're spatially different, and
4 then for each different scenario we can understand the
5 difference in the metrics, whether it's forest acreage
6 lost, whether it's wetlands encroachment. And we can
7 also look at the costs as well, things like side fill
8 which is very expensive if you're putting a pipeline
9 on a steep slope, for example. And we can look at
10 road costs as well.

11 And each layout we can get really
12 detailed kind of information about that scenario. and
13 then what we hope will happen is that the tool will
14 actually pick kind of the optimized scenario three, in
15 this case, and the tool will, you know, basically
16 promote that as the kind of optimal solution that does
17 the most reduced impacts at a cost that isn't,
18 hopefully, too high for a company to pursue.

19 And this is just to indicate that it's a
20 step-wise menu. It's very user friendly. I mean, you
21 do have to have a pretty sophisticated GIS operation
22 to do it, but if you do have that ---. And we've been
23 testing this tool with several companies and several
24 other land management organizations, not just here in
25 Pennsylvania, but in some other states nearby, and it

1 works. I mean, it is something that companies or
2 resource agencies can easily use. These are just some
3 of the kinds of inputs, I don't need to go into all
4 the detail. But the point is here is that it's
5 relatively straightforward to use this tool.

6 And it's got lots of documentation so
7 that people can actually educate themselves to use the
8 tool. Since we only have a few people that actually
9 work with this tool, we're not able to provide
10 technical support to everybody. We are exploring
11 partnerships with several consulting companies that
12 might be able to provide that kind of technical
13 support and actually do an analysis for companies or
14 for government agencies.

15 And then I'm going to talk just about
16 something that's a little further upstream in terms of
17 development, so to speak. This is a regional pipeline
18 siting kind of concept tool that our North America
19 science team has developed. And essentially, what
20 it's doing is building a least-cost model for where a
21 pipeline can go from point A to point B. Again, using
22 the same kind of data I was just talking about, both
23 environmental or species or habitat data or other
24 things. It might be community data, you're not going
25 to go right through a community or right through a

1 school. And also cost data, because obviously, you
2 know, if there's a really prohibitively expensive
3 route it's probably not going to be taken terribly
4 seriously by a pipeline company. And there you can
5 see some of the ---.

6 So we're just starting to work on this.
7 It does work in conceptual terms. Our lead scientist
8 for North American, Joe Fargioni, would love to find a
9 state to test this in with some real data and some
10 real partners. So just a little plug in, if anybody
11 in Pennsylvania is interested, Joe would be happy to
12 have a conversation with you.

13 And then finally I'll close with some
14 documents that are coming out. And it says will be
15 released in September of 2015, it's actually October.
16 My wife says I'm a dollar late and dollar short
17 Johnson and so I didn't come up with the latest
18 release date. So it'll be out in just a couple weeks.

19 But these are documents that we've
20 developed to help provide fairly straightforward
21 guidance on a range of different topics, leading
22 conversation practices we've called them, to reduce
23 habitat and wildlife impacts. And they're four or
24 five pages each, they're heavily referencing the
25 science that's out there on these impacts and

1 practices that can be used to avoid and minimize those
2 impacts. And then we actually kind of stick our necks
3 out and recommend what we think companies should do in
4 those settings.

5 And there's kind of the basic
6 characteristics of these practices that are coming
7 out. And we've got quite a few topics there.
8 Unfortunately the pipeline development one is kind of
9 at the tail end of this process so it's not quite
10 ready yet. I'm hoping there'll be a version of it
11 that, you know, the Task Force could take a look at in
12 the next couple of months. And then there's some
13 things we just haven't covered because they're not
14 really part of our expertise, and that really is so
15 related to habitat impacts, things like air quality
16 and risk of spills and public health and safety
17 issues. And I'll leave it there. Thank you very
18 much.

19 CHAIRMAN:

20 Thank you. Questions for Nels? Serena.

21 MS. BELLEW:

22 Good afternoon. I'm Serena Bellew with
23 the Pennsylvania Historical Museum Commission.

24 MR. JOHNSON:

25 Yeah.

1 MS. BELLEW:

2 We're also the home of the Pennsylvania
3 State Historic Preservation Office. So we look at a
4 lot of these things in a sort of similar way that the
5 Natural Resource community does.

6 MR. JOHNSON:

7 Yeah.

8 MS. BELLEW:

9 My questions is, is your tool, EnSitu,
10 do you think that that would also actually be
11 something that could be used to do predictive modeling
12 for archeological science? We are always looking for
13 ways to partner with existing technology, and
14 oftentimes archeology exists in similar environments
15 to endangered species and other things. And so we
16 were just wondering what --- I was just wondering what
17 you thought.

18 MR. JOHNSON:

19 So that's a great idea. I think there's
20 some ---.

21 MS. BELLEW:

22 I don't have any money, before you ask
23 me that.

24 MR. JOHNSON:

25 There's some issues there. So our tool,

1 for example, the tool does not have specific
2 occurrences of species in the PNDI database because
3 there are restrictions on the public use of those very
4 specific locations. I understand that the Museum
5 Commission has similar restrictions on the specific
6 archeological site.

7 So we've tried to model -- I mean, we
8 have all that data. We just can't show it in the
9 tool. So we've taken all that data and we've actually
10 modeled --- we've used it to build models of where
11 these species are more or less likely to be. So that
12 in the tool, and perhaps the same could be done on the
13 archeological side. On the other hand, you know, if a
14 consultant was working with Commission data, for
15 example, and had this tool, they could put that data
16 into the tool for their own use, if they have a
17 license that's in force with you. So in that case,
18 yeah, I mean the data could go straight into the tool.
19 It's just another user input layer.

20 MS. BELLEW:

21 Okay. Great, I'll tell my GIS people to
22 look at it. Thank you.

23 MR. JOHNSON:

24 Okay.

25 CHAIRMAN:

1 Terry, you had a question?

2 MR. BOSSERT:

3 Yeah. A couple questions, Nels. As you
4 know, Range has worked with TNC from the very
5 beginning of the tool. But I think the question that
6 was just asked fits in with the one that I wanted to
7 ask, and that is there are certain things that aren't
8 in the tool.

9 MR. JOHNSON:

10 Yeah.

11 MR. BOSSERT:

12 From the operator's standpoint, maybe
13 the biggest thing that's not in the tool is the
14 landowner's views on things.

15 MR. JOHNSON:

16 Right.

17 MR. BOSSERT:

18 They often have a lot to say as to where
19 pads are located or where pipelines go through. Is
20 there a way to --- and what you just mentioned, if you
21 don't have the PNDI data integrated, I mean, is there
22 a way to bring it altogether? I mean, I think a lot
23 in industry whether they're ENP, like us, or pipeline
24 folks, if there was a way to say give me all the
25 information, then I can plot out where's best to go

1 and not go. I mean, that would be something I think
2 everyone would find attractive.

3 MR. JOHNSON:

4 Yeah. Well, so we've done our best,
5 Terry, to try and incorporate as much data as we think
6 are important or are available. The problem is that
7 not all the data is available. So how do you map, if
8 you will, landowner preferences for where they want
9 things to go? We don't have that data at the scale of
10 the Appalachian region. On the other hand, the tool
11 might be useful in communicating with landowners,
12 saying look, we've done this evaluation and we think
13 the place for the lowest impacts from an X, Y and Z
14 point of view are here. You know, if could be used as
15 a way of, you know, communicating with the landowner
16 and talking to them. But no, it's not going to ---.

17 And that's a right challenge; right? I
18 mean, that's one of the biggest challenges that both
19 the industry faces, but also those of us on the
20 conservation side faces, you know, what do landowners
21 want to do. And often they do want to do the right
22 thing, but not always. They may not be informed or
23 they may not be aware of what the impacts could be,
24 and so it's hard for them to make the right decision
25 sometimes.

1 MR. BOSSERT:

2 And I got a follow-up question. You
3 gave us some statistics on the footprint of pipeline.
4 Has that been broken down in any way between what I'll
5 call already impacted area, like farm fields or
6 whatever? I mean, ---

7 MR. JOHNSON:

8 Yeah.

9 MR. BOSSERT:

10 --- as part of the footprint of the
11 pipeline, but it may not create any meaningful
12 habitat.

13 MR. JOHNSON:

14 Right. So that 300,000 acres that I
15 cited earlier is just for forests. And it's about 60
16 percent of the mileage of pipelines in Pennsylvania
17 today is in forest areas, about 40 percent isn't. You
18 know, one of things that --- you know, we had a group
19 meet with us in May with Carnegie Mellon University as
20 co-host getting kind of the best thinkers on a range
21 of these same topics that we're talking about here
22 today, and one of them was pipelines. And one of the
23 suggestions that came out of that group was, you know,
24 we ought to map across the state where are the new
25 pipeline right-of-way issues going to be much more

1 prominent and where are the places where they're less
2 prominent, at least from a habitat or environmental
3 standpoint.

4 So we have a better sense, because not
5 every place is equal; right? I mean, Pennsylvania is
6 a large state, 29 million acres, not all of those
7 acres are as important as others from a habitat or
8 conservation point of view. And then, of course, you
9 know, our tool doesn't take into account everything.
10 But one of the things that the tool can do is, you
11 know, if there's social or economic or cultural data
12 that's really important in an area, that could be put
13 on the tool and the tool can take that into account.

14 CHAIRMAN:

15 Other questions for Nels?

16 MR. MCGINN:

17 One question. In the last two
18 presentations co-location has come up.

19 MR. JOHNSON:

20 Yeah.

21 MR. MCGINN:

22 So as you look into your tool, have you
23 run models in terms of what that means for a reduction
24 in I guess habitat impacts?

25 MR. JOHNSON:

1 You know, we haven't actually run that.
2 I did mention that there's a research team at Carnegie
3 Mellon that has done that, actually using --- they
4 actually used or impact assessment work that we did
5 here in Pennsylvania. And then they created their own
6 little model that ran different pipeline scenarios,
7 including just following existing roads and utilities
8 rights-of-way. And they're the ones that found that
9 they can reduce fragmentations impacts by about 85
10 percent in that one setting, at least up in Tioga
11 County, I think is where they did that.

12 CHAIRMAN:

13 Other questions? Mark.

14 MR. GUTSHALL:

15 Mark Gutshall, Land Studies. Nels, on
16 the third slide you reference a term offset. Can you
17 further define what you mean by that? And do you feel
18 as though the State of Pennsylvania currently has the
19 procedures in place to implement offset.

20 MR. JOHNSON:

21 Yeah. So offset really is part of what
22 we call the mitigation hierarchy. So when you're
23 thinking about building infrastructure, first of all,
24 you want to avoid the most important places. When you
25 can't avoid, then you want to minimize the impact.

1 Even when you minimize the impact, there's still going
2 to be some impact. And the offset refers to if you,
3 say, lost ten acres of forest or ten acres of wetlands
4 is there another place that you can replace that ten
5 acres, either by restoring forest that isn't there or
6 finding forests that's very vulnerable to, say,
7 residential development and transferring it to, say, a
8 state park or local park or something like that where
9 it's protected. So that's what the offset means.

10 Pennsylvania does not have, you know, a
11 robust mitigation framework for anything other than
12 wetlands, really. And I think that process is under
13 review or revision by DEP right now. Ideally we would
14 love to see all this kind of infrastructure subject to
15 mitigation because we think it would lead to a lot
16 better land use decisions overall and not just, by the
17 way, energy development but all forms of development.

18 Some countries, like Columbia, we've
19 been working with a country in Columbia recently, they
20 have now have a policy in place, a national law, that
21 requires mitigation and mitigation fees that are
22 progressive. So mitigation fees are really, really
23 small or light in places that are low impact or low
24 conflict, and then they get increasingly high as those
25 impacts or those conflicts become sharper. And that

1 idea being to try and encourage developers to go to
2 the places where the least conflicts are.

3 CHAIRMAN:

4 Other questions?

5 MS. SCHWARTZ:

6 Hi. Cristina Jorge Schwartz from Apex
7 Companies. I actually have a few questions. It runs
8 on an Esri platform?

9 MR. JOHNSON:

10 It does.

11 MS. SCHWARTZ:

12 Okay. And is it online only or is
13 something I download as a tool so I could put what I
14 need into it?

15 MR. JOHNSON:

16 You have to download it.

17 MS. SCHWARTZ:

18 Okay.

19 MR. JOHNSON:

20 It's not online. It will freeze up any
21 online system on the planet ---

22 MS. SCHWARTZ:

23 Sure.

24 MR. JOHNSON:

25 --- because it takes too much space.

1 Yeah.

2 MS. SCHWARTZ:

3 Agreed. That was actually one of my
4 concerns.

5 MR. JOHNSON:

6 Yeah.

7 MS. SCHWARTZ:

8 And do you have a cost associated with
9 this?

10 MR. JOHNSON:

11 We don't. We're looking at that right
12 now. Right now, we're happy to provide it anyone who
13 wants to use it and test it. And so that's kind of
14 what we've been doing, and as Terry said, Range is one
15 of those companies that we've shared the tool with.
16 We've shared it with several other companies as well,
17 so ---.

18 MS. SCHWARTZ:

19 Great. Thank you.

20 CHAIRMAN:

21 Other questions? Seeing none, Nels,
22 thank you very much.

23 MR. JOHNSON:

24 Thank you.

25 CHAIRMAN:

1 Folks, we will take a ten-minute break
2 and reconvene at 2:35.

3 SHORT BREAK TAKEN

4 CHAIRMAN:

5 Two more presentations that we will go
6 through. And first, we want to welcome Sam Hall from
7 the U.S. Department of Transportation who will be
8 talking with us this afternoon about pipeline
9 emergency response resources. Sam, thank you for
10 coming today.

11 MR. HALL:

12 Thank you. Thank you for inviting me.
13 Good afternoon. My name's Sam Hall. I'm with the
14 U.S. Department of Transportation, Pipeline and
15 Hazardous Materials Safety Administration. For those
16 of you who are not familiar with our organization, we
17 are an administration within DOT. Everyone's heard of
18 the FAA or the Federal Railroad Administration,
19 Federal Highways. We're the Pipeline and Hazardous
20 Safety Administration. And we oversee the safe
21 shipment of hazardous materials by all modes of
22 transportation. We regulate the shipment of hazardous
23 materials by rail, water, air, over the road and
24 through pipelines.

25 I work in the Pipeline Safety Office of

1 the Pipeline and Hazardous Materials Safety
2 Administration, and I wanted to take some time to talk
3 with you today about some resources that are available
4 to you to help improve pipeline emergency response at
5 the state and local level.

6 So the goals of pipeline emergency
7 response readiness are awareness of pipeline safety
8 issues among all stakeholders, among anyone that it
9 would matter to. So that would include public
10 officials, emergency responders, excavators and the
11 public. And we heard some of these stakeholder
12 audience groups mentioned in a previous presentation
13 this afternoon. And then our second goal is community
14 preparedness in the event of a major pipeline
15 emergency. So it's not just awareness, it's also
16 being prepared for when things go wrong.

17 Those goals have quite a few challenges.
18 First, pipelines are out of site and out of mind. One
19 of the previous speakers spoke about there being
20 300,000 miles of natural gas transmission pipelines,
21 180,000 miles of hazardous liquid pipelines. They're
22 also just over two million miles of natural gas
23 distribution pipelines in the United States. Most of
24 those facilities are underground, they are out of sight
25 and out of mind for a lot of folks who really should

1 be more aware.

2 Public safety officials have competing
3 concerns and limited resources. It's far more likely
4 that a public safety official is going to have to deal
5 with a weather disaster, an automobile disaster or
6 something of that nature than a pipeline disaster.
7 Pipeline emergencies are relatively rare compared to
8 the other threats that face our communities. So
9 because of that, pipeline emergencies do not get the
10 time that they deserve when it comes to planning for
11 dealing with an emergency.

12 Another challenge is that calls to 911
13 and to emergency responders for odor of gas, you know
14 I smell gas, I smell rotten eggs, I think there's gas
15 in the house, that may be a common occurrence. And,
16 in fact, firefighters around the country will tell you
17 in areas where gas service exists, these odor of gas
18 calls are very common. But major pipeline incidents
19 as a result of those odor of gas calls are really
20 rare. They happen, but they're relatively rare. So
21 communities often get complacent about pipeline safety
22 because the pipeline company has it under control, you
23 know, if there's an odor of gas call, yeah, our
24 firefighters go out and take care of those calls on a
25 regular basis.

1 What communities are not prepared for is
2 when those common incidents go wrong and become a
3 major catastrophe. All of that really leads to
4 catastrophic pipeline incidents being very low
5 frequency, low probability but very high consequence
6 events. And a large catastrophic pipeline emergency
7 can quickly overwhelm a local emergency response
8 capability.

9 A little bit about our regulations and
10 what they require of pipeline operators. We require
11 pipeline operators, through a set of regulations
12 called our Public Awareness Regulations, to
13 communicate with stakeholder audiences that may be
14 affected by their pipeline operations.

15 Pipeline operators are required to
16 conduct public awareness outreach to the affected
17 public, to local public officials, to excavators and
18 to emergency officials. So that is to say, every
19 pipeline operator in the country is required, if
20 they're subject to the regulation, to contact these
21 four stakeholder audience groups and tell them that
22 the pipeline exists, what's in the pipeline, what are
23 signs of a pipeline release and what to do in an
24 emergency.

25 Now, those regulations came into effect

1 six, perhaps seven years ago. And we are learning
2 quite a lot about how to perform effective public
3 awareness and how pipeline operators can improve their
4 public awareness programs. One of the things that we
5 have found as a real weakness in those public
6 awareness regulations is that they do not require
7 anything of the stakeholder audience groups. PHMSA is
8 a federal administration of the DOT, regulates
9 pipeline operators, we require pipeline operators to
10 take action.

11 We do not require stakeholder audience
12 groups to take action. So if a pipeline operator
13 invites emergency responders and local elected
14 officials to a public awareness meeting in the
15 community and those emergency responders and public
16 officials don't show up, it's a lost opportunity. So
17 that being said, you know, we are trying to stress
18 that communities do have a responsibility for
19 understanding pipelines, for attending these public
20 awareness meetings, which we require of the pipelines
21 operators. We require those operators to conduct
22 those meetings. Local public officials, emergency
23 responders need to be engaged and have a
24 responsibility for understanding pipelines in their
25 communities.

1 PHMSA, as part of our regulatory scheme,
2 partners with the states to help us cover the majority
3 of the pipelines in the U.S. So in general terms,
4 PHMSA as a federal agency regulates and inspects
5 interstate pipelines in general. The states then
6 inspect intrastate pipelines, which are often --- the
7 bulk of which are distribution pipelines within
8 states. But then also some states have agreements
9 with us to inspect intrastate pipelines, and even in
10 some cases interstate pipelines.

11 Our agreements with the states vary by
12 state. We certify state programs on an annual basis
13 and we cover up to 80 percent of the costs of the
14 state's pipeline safety program through a grant called
15 the State Pipeline Safety grant. Otherwise, PHMSA as
16 such as a small agency would not be able to inspect
17 the vast network of pipelines in our country. And we
18 do rely heavily on our state partners for carrying out
19 that responsibility.

20 The Pennsylvania Public Utility
21 Commission here conducts inspections over public
22 awareness regulations and, of course, all other safety
23 inspections for natural gas distribution pipelines
24 here in the state, class one through four intrastate
25 natural gas transmission pipelines and class two,

1 three and four gathering pipelines, as we mentioned.
2 And then PHMSA would have jurisdiction over hazardous
3 liquid and interstate gas transmission pipelines.

4 I mentioned that public safety officials
5 do have a responsibility to know about pipelines in
6 their communities. Really effective pipeline
7 emergency response is a shared responsibility. It is
8 not strictly the responsibility of the pipeline
9 operator, it is not simply good enough to say the
10 pipeline operator should tell us where these things
11 are and should be ready for an emergency, it's really
12 a shared responsibility. State and local public
13 safety officials have a responsibility to engage with
14 pipeline operators and to understand their role in the
15 event of a pipeline disaster.

16 We know from past pipeline incidents
17 that communication before an incident occurs is the
18 most important aspect of effective pipeline emergency
19 response. Local public officials, emergency
20 responders should get to know the pipeline operators
21 in their communities firsthand. Shake hands, say
22 hello, know who you're calling in the event of an
23 emergency. Pipeline operators become the partner of
24 the emergency responders and local officials in the
25 event of a pipeline emergency. Pipeline operators are

1 really the technical experts on the scene that can
2 help mitigate the impacts of a pipeline emergency when
3 it occurs.

4 And then, of course, on-scene is --- on-
5 scene communication is essential during an incident
6 response. The incident command system is in a very
7 --- it's a very effective means of maintaining
8 communication on scene between pipeline operators and
9 between and among emergency responders who are
10 responding to the incident.

11 PHMSA is working hard on furthering the
12 goals of public awareness regulations. We have
13 learned that the approach that I mentioned of
14 requiring pipeline operators to go out and conduct
15 these public awareness campaigns, they are effective.
16 They have moved the ball, so to speak down the field,
17 but they are not necessarily the entire solution.
18 Pipeline operators' power and reach is limited,
19 especially when we understand that emergency response
20 preparedness is a shared responsibility. So PHMSA's
21 exploring ways to solve this problem through other
22 means.

23 The first tenet of our approach is to
24 create sustainable pipeline awareness solutions. And
25 so by that we mean we are looking to pursue

1 initiatives that both require and empower local
2 governments and state governments to engage in
3 pipeline safety through existing channels. When I say
4 existing channels, we've heard again and again don't
5 reinvent the wheel. Pipeline public awareness does
6 not need to be a wholly separate awareness campaign in
7 all regards.

8 For example, training standards for
9 public safety personnel, like firefighters, EMTs, 911
10 call-takers, if we can update and adopt training
11 standards for those emergency responders, we will have
12 gone a long way to increasing awareness in those
13 communities. You've got firefighters attending
14 required firefighter training on at least as
15 foundational training when they first begin service
16 and then annual trainings overtime. If we can bolt on
17 pipeline safety awareness training, at least generic
18 messages about pipeline safety, to those training
19 standards, then we guarantee that every emergency
20 responder, every firefighter at least, in the country
21 is going to be exposed to the word pipeline.

22 Remember, pipelines are out of sight,
23 out of mind, underground. Firefighters can go 40
24 years in a career, a career firefighter, and never see
25 a pipeline accident beyond a simple gas leak, you

1 know, at a meter. They often never hear the word
2 pipeline. They're very aware of other hazardous
3 materials vessels in their communities, perhaps train,
4 you know, fixed facilities, chemical plants. Those
5 kinds of things are common knowledge in the emergency
6 response community, but pipelines are not. So if we
7 can bolt on pipeline language into those training
8 standards, we've gone a long way to at least exposing
9 our emergency responders to the basic concepts.

10 A second idea, include pipelines in
11 hazard mitigation plans, threat and hazard
12 identification and risk assessment plans, THIRA plans.
13 A lot of community and local activity flows from
14 hazard mitigation plans. You identify the hazards in
15 your communities, you identify how you're going to
16 mitigate those hazards and people take action to
17 prepare.

18 We have noted that in lots of hazard
19 mitigations plans, especially at the State level, and
20 I would venture to say most hazards mitigation plans,
21 pipelines are considered critical infrastructure that
22 is subject to damage from outside forces, like another
23 kind of disaster, a flood, a hurricane, an earthquake.
24 You know, hazard mitigation plans look at pipelines as
25 infrastructure that could be impacted, not as a

1 container for hazardous materials in the community
2 that could cause an impact in and of itself. If we
3 can reverse that equation and get hazard mitigation
4 plans to start addressing pipelines, we can move that
5 ball further down the field.

6 Regulation, of course, plays a very
7 critical roll. One Call enforcement, that is making
8 sure that people are calling 811 before they dig, is
9 essential to really preventing pipeline emergencies,
10 not in particular responding to them but in preventing
11 them. Our pipeline safety regulations certainly are
12 constantly evolving, changing and growing and they
13 have a huge role to play. And then communications
14 through existing channels. Here what I mean to say is
15 that, you know, we talked a lot about --- or I think
16 in our last presentation the speaker spoke about
17 trust, building trust with your community between the
18 pipeline operator and the community.

19 What we have found as Federal employees,
20 as Federal Government Federal servants, we're not
21 necessarily trusted by the public. We're not
22 necessarily trusted by excavators or even emergency
23 responders in some cases. It really depends. But we
24 do know that firefighters trust firefighters. We know
25 that, you know, 911 call-takers trust the associations

1 that represent them, they trust themselves, farmers
2 trust themselves, they trust the Farm Bureau, they
3 trust extension services.

4 If we can communicate through those
5 existing channels, again, avoiding reinventing the
6 wheel, but taking basic pipeline safety messages,
7 inserting it into the communications of the various
8 stakeholders around the country and having them carry
9 that message to their own members, it will resonate
10 much better than if the message is only coming from
11 the Federal Government, State Government, Local
12 Government or pipeline operators. It's a matter of
13 trust, it's a matter of believing what you hear.

14 And then lastly we are focused heavily
15 on creating quality resources for local governments,
16 training materials, information resources and common
17 messages that apply to all pipelines. And I've got a
18 few slides that I'd like to just walk through. I'm
19 sorry this may be a bit death by PowerPoint, there's a
20 lot of text on these, but I think each of these is
21 important to mention and I have included hyperlinks
22 and urls so that you can get more information where
23 it's possible.

24 So I mentioned training standards,
25 bolting and pipeline safety messages for emergency

1 responder training standards. We are currently in the
2 process --- and when I say we, I should say the
3 National Fire Protection Association, is in the
4 process of updating Standard 472, which defines
5 competencies for hazmat responders. In the past, the
6 Standard 472 never had the word pipeline in it,
7 despite the fact that it's a standard for hazmat
8 responders. To not have the word pipeline is a real
9 missed opportunity. So that standard is being updated
10 with information about pipelines so that at least
11 those firefighters and hazmat techs and so forth who
12 are trained to that standard will be exposed to the
13 concepts of pipelines being conduits for hazardous
14 materials in your communities.

15 We also helped to create a standard from
16 the National Emergency Number Association, or NENA,
17 they're the folks that represent some of the 911 call-
18 takers around the country, public safety answering
19 points. I think that's the right use of that acronym.
20 We helped create Standard 57-007, and it's a protocol
21 for 911 emergency call-takers.

22 In Marshall, Michigan, several years
23 ago, there was a large liquids spill. One of the
24 challenges in that incident was that 911 call-takers
25 were getting calls about odor of petroleum, you know,

1 I smell something funny, something's going on and the
2 call-takers didn't know how to handle that call. You
3 know, they would dispatch a firefighter, they'd
4 dispatch a police officer, go check out this odor, but
5 they didn't have the laundry list of questions that
6 you would ask in any other emergency situation. So,
7 for example, if you call and say I can't breathe,
8 they're going to start asking you questions based on a
9 protocol, shortness of breath, you know, are you
10 dizzy, are you --- you know, there are a bunch of
11 other questions that they are going to ask to help
12 them understand how to dispatch the right resources to
13 that emergency.

14 There is now a standard that's available
15 through NENA for those 911 call-takers, and it's our
16 hope that NENA, if they haven't already started, is
17 pushing forward with actually training to that
18 standard.

19 There are also lots of --- there are
20 quite a few efforts on going at the local, regional
21 and national level to try to institutionalize local
22 government engagement in pipeline safety awareness.
23 Some of those activities have been funded by PHMSA
24 through a technical assistance grant. There have been
25 many activities here in the State of Pennsylvania that

1 have been funded by technical assistance grants to
2 help raise awareness among communities about pipeline
3 safety, various pipeline safety issues.

4 We've established a public awareness
5 program working group. I mentioned that we have
6 learned a lot about our public awareness program
7 regulations and we are investigating those and
8 evaluating the results of the program to date. Again,
9 it's been six or seven years since that program's been
10 active and we are taking a good, hard look at our
11 inspection results, finding out how those public
12 awareness programs are working and how we can improve
13 them.

14 And then lastly, of course, the industry
15 is heavily involved in many efforts to improve
16 pipeline emergency response. And in particular, I
17 wanted to mention the American Petroleum Institute's
18 Recommended Practice 1174 which applies to liquid
19 pipelines. I know that a lot of the discussion here
20 is about gas, but 1174 applies to liquid pipelines and
21 how pipeline companies can create essentially a
22 culture of emergency response readiness.

23 Other resources to mention to you, and I
24 hope that you'll investigate these at your leisure and
25 as part of your investigations here. We have a

1 stakeholder communications website. There was
2 mention, I believe, in a question and answer session
3 information for various stakeholder audiences, whether
4 it be emergency responders, local government officials
5 excavators, whoever it might be. We've broken up
6 communications resources by each of those stakeholder
7 audience groups. Second one, there's a simple article
8 that we've drafted on pipeline emergency response that
9 provides the basics. Please use that if it would
10 help.

11 The National Pipeline Mapping System, my
12 guess is that you've talked about this in the past.
13 The National Pipeline Mapping System is an online
14 mapping application that we built at PHMSA. It shows
15 the location of all of the natural gas transmission
16 and hazardous liquid pipelines in the United States,
17 except gathering lines and distribution pipelines.
18 But it does show the 300,000 miles of transmission
19 pipelines, the 180,000 miles of hazardous liquid
20 pipelines in the U.S. along with breakout tanks and a
21 couple of other geographic features. You can click on
22 the line. You can get information about that
23 pipeline, who operates it, what's running through that
24 line, the emergency contact for that pipeline operator
25 and a public awareness contact so that you can call

1 that company in a nonemergency and get more
2 information.

3 Second to last bullet here, Pipeline
4 Emergencies Training Curriculum, this is a training
5 curriculum that we established with the National
6 Association of State Fire Marshalls. It is an online,
7 electronic e-book format training. It is extensive.
8 It is thorough. It addresses everything from how
9 pipelines operate in basic terms to what to do in very
10 specific scenarios in emergencies. So it's an
11 excellent resource. It's an award-winning resource.
12 It's available for free online at
13 www.pipelineemergencies.com and we believe it is ---
14 we promote it everywhere we go because it really is
15 the definitive resource for pipeline emergencies
16 training.

17 Call 811 Before You Dig. We're all well
18 aware of the importance of that. We heard the last
19 couple of speakers talk about hazard mitigation
20 planning --- I'm sorry. Let me back up. I was
21 talking about hazard mitigation planning, our first
22 bullet. We have partnered with FEMA, the Federal
23 Emergency Management Agency, to develop a primer for
24 incorporating pipelines into hazard mitigation plans.
25 We've got practices for land use planning and

1 development near pipelines, and then other guidance on
2 how to incorporate pipelines into hazard mitigation
3 plans so that those pipelines are considered risks in
4 and of themselves, albeit small risks, but important
5 risks to consider given the consequences of
6 catastrophic pipeline incidents. So another resource
7 that's available.

8 The Pipelines and Informed Planning
9 Alliance, this is an organization of about 130
10 stakeholder groups that's focused on land use in the
11 vicinity of pipelines. How do we at the local level
12 prevent the --- or mitigate the potential impacts of a
13 pipeline disaster, don't live near them, don't live on
14 top of them, don't build homes directly, you know, in
15 the path is one way to look at it. And if you do
16 decide to build in those areas, do it wisely. You
17 know, if you're going to build a Wal-Mart next to a
18 pipeline right-of-way, put the parking lot near the
19 pipeline and the building itself further away from the
20 pipeline. Basic things like that. Even down to
21 creating consultation zones, a buffer, around the
22 pipeline to help local planners. Anytime a building
23 permit comes in within that buffer zone along that
24 right-of-way, you know, what kind of steps can you
25 take, so ---.

1 The Emergency Response Guidebook. This
2 is the little orange book that you see in firefighters
3 and EMTs trucks, mostly in fire trucks. We produce
4 this book and we've been including pipeline safety
5 information in that book since the 2012 version and
6 the 2016 version will be coming out shortly.

7 A Landowner's Guide to Pipeline Safety,
8 the Pipeline Safety Trust based out of Washington
9 State put together this Landowner's Guide using a
10 grant from FMSA, and it is a tremendously good
11 resource for local officials to learn about how to get
12 engaged in pipeline safety issues.

13 Georgia has created a fantastic
14 initiative called the Georgia Pipeline Emergency
15 Response Initiative, or GPERI. They have --- the
16 pipeline operators in Georgia have partnered with the
17 fire training folks in Georgia to create a training
18 program that is paid for by the pipeline operators,
19 delivered by the firefighters to firefighters. This
20 is what you're going to see in a pipeline emergency,
21 this is where pipelines are, this is how you deal with
22 those emergencies. We're institutionalizing pipeline
23 safety in the emergency response community. The
24 pipeline operators are paying firefighters to talk to
25 firefighters. That gets to the trust issue that I

1 talked about earlier.

2 And then lastly, there's a video. This
3 last bullet is a case study on Youtube of an incident
4 in Lafayette, Indiana. It was a natural gas pipeline
5 explosion. It was one of your typical odor of gas
6 calls that really escalated and ended up in four homes
7 being destroyed, no deaths, some injuries. But the
8 case study, it's about a ten-minute long video and
9 it's a very powerful tool when you're talking to your
10 local emergency response officials to help them
11 understand that not every pipeline emergency is the
12 same. Just because it's an odor of gas call does not
13 mean that you shouldn't be fully prepared for the
14 worst possible consequences.

15 And the last couple of slides that I
16 have, I'm just about done, these are just some basics
17 of pipeline emergency response. It's things that a
18 lot of us don't think about on a daily basis, but it's
19 good information and I thought it may be relevant for
20 you.

21 So signs of a pipeline leak or rupture,
22 a hissing, roaring or explosive sound. A lot of folks
23 will say they think it sounds like a jet taking off or
24 a jet crashing. Flames appearing from the ground or
25 from the water, perhaps very large flames. We've

1 heard from many communities in the event of a large
2 pipeline emergency, that it looked like a plane had
3 crashed and the emergency responders were operating
4 under the assumption that it was a plane crash. In
5 fact, it's a pipeline. A vapor cloud, a fog, a mist
6 on the ground that shouldn't be there, pretty good
7 sign of probably an HVL release from a pipeline, a
8 highly volatile liquid release from a pipeline.

9 Dirt, debris or water blowing out of the
10 ground, liquids bubbling up from the ground or
11 bubbling in water. A distinctive odor of rotten eggs,
12 skunk or petroleum, discolored or dead vegetation or
13 discolored snow above the pipeline right-of-way or an
14 oil slick or sheen on flowing or standing water. All
15 of these may indicate a pipeline release.

16 And then just basics of response, these
17 are things that we should all know, whether we're
18 emergency responders or whether we are homeowners and
19 live near pipelines and use the products that are
20 transported through pipelines. First, get out of the
21 area, move far away upwind and away from flames. If
22 there are no flames present, don't create a spark,
23 don't start a car, don't ring a doorbell, don't turn
24 on a fan, don't use your telephone, don't do anything
25 other than run.

1 Abandon equipment that's used in the
2 area. If a pipeline's been struck by a backhoe, leave
3 the backhoe there. Don't try to get the backhoe out
4 of the area. Don't drive into vapor clouds if you see
5 one, your vehicle can ignite the vapor cloud. Call
6 911 once you're at a safe distance and a safe area.
7 Notify the pipeline operator if you can. And then as
8 a firefighter, never attempt to extinguish a flame.
9 If you see flames coming from a pipeline, never try to
10 put those flames out before the supply has been shut
11 off or you can have dangerous mixtures of gas and air
12 building and can become explosive.

13 And lastly, never attempt to operate
14 pipeline valves without the help of the pipeline
15 operators. Operating a valve without the help of a
16 pipeline operator can prolong an incident, it can
17 worsen the incident. It's a technical process and
18 pipeline operators are the only ones who are qualified
19 to do that work. With that, I will wrap up and take
20 questions, Mr. Secretary.

21 CHAIRMAN:

22 Thank you, Sam. Any questions for Sam?
23 Looking around the room. All right. I am not seeing
24 any. Sam, thank you very much for coming and sharing
25 this with us today.

1 MR. HALL:

2 Thank you.

3 CHAIRMAN:

4 Next, our final presenter of the day
5 will be our own Task Force member, Lauren Parker,
6 talking about regulations and permitting of pipelines
7 in Pennsylvania. Lauren, thank you.

8 MS. PARKER:

9 Good afternoon. I want to thank you,
10 Secretary, for allowing me the chance to speak today.
11 And I'm here to discuss some of the regulations
12 Pennsylvania currently has, as well as the permitting
13 process that is required in Pennsylvania.

14 I'm a civil engineer. I'm headquartered
15 out of Pittsburgh, Pennsylvania. And each day I work
16 on routing and siting of pipelines and helping the
17 operators to prepare permit packages for submission to
18 the Department, as well as almost on a daily basis
19 working with Department staff to get through issues in
20 the permits in order to get permits so that we can put
21 the pipelines in the ground in an environmentally safe
22 manner.

23 So the topics I'm going to cover today
24 are Federal regulations, Pennsylvania regulations,
25 Pennsylvania permitting, Federal permitting, and if

1 time permits, I'm going to try to go through some of
2 the reference and existing guidance documents that
3 Pennsylvania has.

4 So briefly on the Federal regulations is
5 the Water Pollution Control Act of 1948. This was
6 basically established just to reduce pollution. Then
7 the Clean Water Act was enacted in 1972. And a lot of
8 us probably learned in history class in the late '60s
9 some rivers were actually catching on fire, that's
10 when the Federal government decided there was
11 something wrong happening in our country and enacted
12 the Clean Water Act.

13 Then as part of that was Section 402,
14 which established the National Pollutant Discharge
15 Elimination System. And this is --- it regulates the
16 storm water runoff from construction activities.
17 However, the Energy Policy Act of 2005, which was
18 published as final rule in 2006, actually exempted oil
19 and gas activities from the NPDES program. We'll go
20 into more about the local State regulations that kind
21 of happened as a result of that. But the final two
22 are Section 106 of the National Historic Preservation
23 Act as well as the Endangered Species Act. So what we
24 do here has to comply with all of these Federal
25 regulations.

1 So when it comes to Pennsylvania, as
2 part of the Title 25 of the Pennsylvania Code, we have
3 Chapter 102, which is for erosion, sediment control
4 and storm water management, Chapter 105, which is for
5 stream and other waterway impacts, the Clean Streams
6 Law, which basically is just to not allow pollution
7 into the streams and Act 167, which I'll go into
8 further detail on all of these, covers storm water
9 mainly. So some other obligations are the Submerged
10 Lands License Agreement, again Threatened and
11 Endangered Species Clearances as well as the PHMC
12 Clearance.

13 So Act 167, I'm just going to read what
14 I have written up here. But this is Pennsylvania's
15 Storm Water Management Act and it was enacted in 1978.
16 This Act was in response to the impacts of accelerated
17 storm water runoff resulting from land development in
18 the State. And it requires counties to prepare and
19 adopt watershed-based storm water management plans.
20 And it also requires the local municipalities to adopt
21 and implement these ordinances. This DEP fact sheet,
22 if anyone wants more information, is available up on
23 the Department's website.

24 So just so show an example. This is
25 Pine Creek Watershed in Allegheny County. So the

1 County would look at a watershed basis and pick
2 different areas where perhaps there's been flooding
3 issues or other degradation of stream banks due to
4 accelerated storm water. So the specific example
5 we're looking at here, it's number 69 and then you
6 refer to a chart, it's in Richland Township. And they
7 actually require a 65 percent reduction of the storm
8 water coming off of your site after you develop it
9 from the pre-development conditions. So how this
10 impacts the pipeline industry is anytime you add
11 gravel surfaces or other impervious surfaces, you
12 would have to comply with these Act 167 plans with
13 regard to storm water runoff from your gravel or your
14 other impervious surfaces.

15 The Submerged Land License Agreement.
16 Submerged lands of Pennsylvania are any waters and
17 permanently or periodically inundated lands owned by
18 the State. This includes lands in the beds of
19 navigable lakes and rivers and beds of streams
20 declared public highways that are owned and held in
21 trust by the State. So the Submerged Lands License
22 are required when an applicant applies for a Chapter
23 105 permit to occupy submerged lands of the State. So
24 I guess to make this more simple, if the pipeline
25 company has to cross a stream that could be considered

1 navigable water, they're boring it or open cutting it,
2 the State says they own that land under the stream and
3 you must get a license with the State to put that
4 pipeline there.

5 So here's a copy of the agreement. It
6 actually goes through Harrisburg and must be approved
7 by the Governor's Office. This just highlights
8 there's actually an annual fee that must be paid by
9 the operator to the State on an annual basis for
10 perpetuity as long as the pipeline's in place. The
11 minimum is \$750, but it can be larger depending on the
12 amount of land you're taking up underneath the stream.
13 Like I said, this is approved by the Governor's
14 Office, but then it's ultimately signed by the
15 pipeline operator as well as this one was signed by
16 Ken Murrin who works with the Department.

17 So the next obligation is the EPHMC
18 clearance. So when there is a Federal nexus or a
19 Federal permitting aspect of the project, you would
20 have to comply with Section 106. And I will say that
21 even if you aren't getting a Federal permit you still
22 can't go against the requirements of the Federal
23 regulations for 106. But in this instance, when there
24 is a Federal permit required, the operator has to go
25 out and typically they would only look in areas ---

1 the area of potential effect, which should be 100 feet
2 from the top of the stream banks as well as 100 feet
3 from each well crossing.

4 They would do shovel tests pits, which
5 is what this photo is showing. They would prepare a
6 phase one archeological report. This is just the
7 table of contents for a typical report. It has a lot
8 of information about the environmental setting, any
9 previous information that could be found in a record
10 as well as all of the research, a lot of photos,
11 mapping and figures of what they found.

12 This is just an example of a map that
13 would have been prepared that highlights all the
14 different areas along the pipeline route where the
15 cultural resource crew looked and did shovel tests
16 pits to see if there was anything of concern. So they
17 submit that to PHMC who reviews and responds. This is
18 an example of a response letter from PHMC, and the
19 copy of that letter is required as part of the permit
20 package in order to get the permit approved.

21 So moving on to something that actually
22 is more what I do is the ESCGP-2 which is --- this is
23 what the State has enacted since natural gas is --- or
24 oil and gas operations are exempt from the NPDES
25 program, Pennsylvania has enacted the ESCGP-2 program

1 which does regulate the construction activities
2 associated with natural gas projects. So ESCGP-1 was
3 the first version of the permit which came out in
4 2008. Then in 25 Pa. Code Chapter 102, which as I
5 said earlier regulates erosion, sediment control and
6 storm water management, it was revised in November
7 19th of 2010. So then the Department updated the
8 ESCGP, came out with the second version that was
9 enacted in 2013.

10 Basically, my personal opinion is the
11 ESCGP-2 is just about equivalent if not exactly
12 equivalent to standard NPDES permit which you would
13 receive for a land development project or any other
14 type of earth disturbance.

15 So I'm just going to run through the
16 requirements for an ESCGP-2 permit just so you have an
17 understanding of all the items that go into this. I
18 apologize, you can't see this. Hopefully if you
19 printed it out, you can read it a little bit better.

20 But there is an erosion, sediment
21 control report that is required and plans. It
22 includes topographic features, soil characteristics,
23 descriptions of the earth disturbance activity, a
24 discussion of the project site runoff, a surface water
25 classification which can found on Chapter 93 to

1 discuss what streams they're discharging to, what
2 their designation is, if they have any impairments as
3 well as a description of the E&S BMPs they're
4 proposing to use.

5 Further, it goes into you have to have a
6 written description of how you plan to install your
7 BMPs on the site and provide all of your support and
8 calculations and measurements. On the plan drawings
9 themselves, you need to have a maintenance program for
10 how you're going to take care of your E&S BMPs after
11 storm events. And material recycling disposal
12 methods, any soil conditions that are on your site and
13 geologic formations that could cause pollution such as
14 landslide prone soils, coal that could be outcropping
15 on your site, thermal impacts, a discussion just on,
16 you know, how your project could be causing thermal
17 impacts. And then you have to approve that your E&S
18 plan and PCSM plan are consistent.

19 There is a discussion on the Riparian
20 forest buffers, so whenever you're crossing streams or
21 getting too close to streams that might be high
22 quality or special protection, the forest buffers are
23 regulated so you have to have proof as to why that
24 can't be avoided. And there is a written, I guess,
25 guidance for how to do that in 102.14. As well

1 depending on what watershed you're in, you may have to
2 provide anti-degradation analysis. Then there's a
3 permit filing fee, which is \$500 plus \$100 per acre of
4 disturbance. So that number can get large for a
5 larger pipeline.

6 There's municipal notifications that are
7 required. You have to notify the municipality you're
8 in as well as the county that you will be submitting
9 for a permit. Your PNDI again. Then your PCSM plans
10 have very similar information, topographic features,
11 soil characteristics, a discussion on the change and
12 the net volume of storm water runoff as well as the
13 peak rate of storm water runoff caused by your
14 project.

15 And service water classifications, a
16 description of the post-construction storm water best
17 management practices that you're proposing to use on
18 your project and a narrative on how you plan to
19 install said BMPs as well as all of your supporting
20 calculations. Long-term operation and maintenance
21 schedule, again, after you walk away from the project
22 and you have BMPs in place to control storm water,
23 there has to be a schedule for when you're going to
24 maintain these BMPs, how you're going to maintain them
25 and who will keep them operating as the project stays

1 in existence.

2 Again, geologic formations, thermal
3 impacts, repairing forest buffers and anti-
4 degradation. So in the storm water report itself, you
5 have to provide a lot of information on the volume
6 reduction and water quality requirements, which are
7 dictated in 102.8 or in the Act 167 Plan if you are in
8 an Act 167 area. Not all counties have created one of
9 those yet. And provide, you know, your methodology of
10 how you came to your calculations, how you prepared
11 your calculations and how you came to results as well
12 as construction techniques.

13 Then it does go through some questions
14 about the expedited process. So for the ESCGP-2, if
15 you're not in a special protection watershed, you can
16 get what is called an expedited process. And what
17 this means is that the DEP staff have 14 business days
18 to complete a technical review of your project. If
19 you are in a special protection watershed, the
20 Department staff have 43 business days to review your
21 permit package. So then it goes through a couple
22 other questions about ensuring that you have
23 preparedness prevention and contingency plan on site.
24 If there's any subsequent phases or if you're going
25 for a permanent renewal.

1 So I think you can see from this, this
2 is just the checklist and then you actually have to
3 have all these other documents included in your
4 submission. So I'll just hit a couple of these
5 briefly. Site location and soils map are pretty
6 basic. I think we probably can understand what a site
7 location map looks like. It's on a USGS map, just and
8 8-and-a-half by 11. The soils map shows the different
9 soil characteristics, where were mapped by the USDA a
10 number of years ago.

11 Again, the Act 14 notification,
12 notifying the local municipality and county that
13 you're applying for a permit, you include a copy of
14 the notice of intent permit application as well as a
15 copy of the drawings. And you must provide a copy of
16 the certified mail receipt with your submission to the
17 Department.

18 Additionally, you have to provide a copy
19 of your PNDI. This example that I've included here
20 shows you the pink is where I would have gone into the
21 program, and you can actually draw a polyline that
22 would encompass your pipeline corridor. You answer a
23 number of questions and it pops back this receipt.
24 For those of you that haven't seen this before, this
25 particular project we got a hit for both the

1 Pennsylvania Game Commission as well as the US Fish
2 and Wildlife, and it was for the Indiana Bat which is
3 the photo that I have shown up top.

4 So what we had to do on this project was
5 send in a certified bat survey crew out in the field
6 to do a habitat assessment. They prepared a large
7 report that was submitted to the US Fish and Wildlife
8 Service documenting what they found. US Fish and
9 Wildlife approved that, and what we ended up having to
10 do is we paid an in lieu fee for clearing up the
11 trees. And they had to pay it to the tune of \$60,000
12 for the trees that they cut down into the Indian Bat
13 Conservation Fund. So then we received a clearance
14 letter from both the Game Commission and Fish and
15 Wildlife that we included with our permit package.

16 So the erosion and sediment control
17 report, which I hit on some of the items that were
18 required in the checklist. But this just kind of goes
19 into it a bit further. So again, this is kind of what
20 we would typically provide for the soils information.
21 You list each soil and some of the limiting factors of
22 each soil type that you cross, as well as some
23 resolutions on how to handle that during construction.

24 This is a list of the receiving waters,
25 the designation of secondary water. And the main

1 thing for this permit is siltation impairment because
2 we're dealing with erosion and sediment control we
3 don't want to increase any sediment leaving our site
4 that could possibly impair the stream further than it
5 already is. So there's additional BMPs that are
6 required for siltation and impaired watersheds.

7 This is an example of the description I
8 would give for the BMPs we're using. This one is a
9 compass filler socks. You give a written narrative on
10 the sock, how you would maintain it, how it should
11 properly be installed. This is a typical example of
12 geologic formation narrative that I would give. We
13 use our geotechnical engineers in house that can do
14 geologic research of a number of different old mine
15 mapping information, coal maps, landslide prone soil
16 mapping that was done.

17 Then on the storm water report, it's
18 very similar except this one you have to go into
19 discussion on your hydrologic methodology as well as
20 the rainfall data that you're utilizing. A lot of
21 municipalities have rainfall data that they would like
22 you to use depending on the storm, but you can get
23 that information also off of the NOAA website. Got
24 another description on the soil types. And for storm
25 water that is impactful because certain soils will

1 infiltrate more water than other soils, so it's
2 important that consideration be given to the types of
3 soils you're working with.

4 You have to give, you know, a narrative
5 and tables listing your predevelopment runoff from
6 your site post-development, and then all the
7 calculations to back up all this information is
8 included in the back of the report. And then a
9 sequence for how you're going to put in your best
10 management practices at the end of construction, as
11 well as the maintenance program for regularly
12 inspecting and, you know, should you mow the grass in
13 the BMP, should you not mow the grass, do you need to
14 remove leaves, different things like that.

15 There's also an infiltration analysis
16 narrative that's required. You have to do onsite
17 testing, and I'll hit that a little bit later. Then
18 the plans that are required, this is an example of an
19 erosion and sediment control plan that would be
20 included with the permit package. It shows an aerial
21 photo in the back as well s topographic contours.
22 Roads, you always have to have any other existing
23 features of those existing pipelines in the area,
24 existing roads where homes are, property lines.

25 So just a blow up of this, you can see

1 we show exactly where all of the different BMPs we're
2 going to use, water bars and trench plugs as well as
3 stationing along the pipeline, rock construction
4 entrances. So these are detailed plans that have
5 calculations to back up where the placement of all
6 these BMPs are included. And then post-construction
7 storm water management plan looks pretty similar to
8 that except, again, where we would have gravel or
9 impervious surfaces we would show our best management
10 practices related to storm water.

11 Moving on to the Chapter 105 permits,
12 which covers a stream and wetlands. There are a
13 number of permits, which you can see in the
14 application on the right-hand side, 15 to be exact.
15 However, the ones I've list on the left-hand side are
16 the ones that are typically used by this industry.
17 GP-3 bank rehabilitation, bank protection and gravel.
18 This permit is used typically if a pipeline has been
19 installed and then after the fact maybe the bank is
20 having some issues in a stream crossing getting
21 established. You would get this permit to kind of go
22 in and fix things back up.

23 I personally have never had to get one
24 of those permits, to be honest. I typically get a
25 GP-5, a GP-7 or a GP-8 and occasionally a GP-11. If

1 you're using an existing access road that has an
2 existing culvert that might not be able to handle the
3 traffic load from some of the trucks that are bringing
4 the pipe in, you would want to replace that pipe and
5 you could get a GP-11 for that.

6 So this is an example of a permit
7 drawing that we would submit for our stream and
8 wetland crossings. This just blows it up a bit on the
9 right-hand side, but you can see that there's a plan
10 view of the crossing, a table that shows, you know,
11 where it's draining to, what the stream is, your
12 impacts both temporary and permanent, lat and
13 longitude so that it can be found exactly. As well as
14 a cross section of where the pipeline is crossing,
15 where you have exact information from biologists that
16 go out and measure the depth of water in the channel,
17 the top of bank height and various other things like
18 that.

19 So just to show you, that right there
20 --- which again, is hard to see if you're looking at
21 the screen, but that's where the pipeline is crossing
22 the stream and that's where we would obtain a GP-5 for
23 the utility line stream crossing. So that permit just
24 permits the pipeline itself being put through the
25 stream either via a bore or through an open cut.

1 Which I will note too that open cut is the stream bed
2 is dry almost always when we put these pipelines
3 through either via a pump around, wet trenching
4 doesn't typically happen in Pennsylvania. Even though
5 I do think that on some projects, as I look at you,
6 sometimes that might be possible due to a variety of
7 reasons where it's just not feasible to do a dry cut.

8 This location, I've noted, is where we
9 have timber mats showing. So this would be the GP-8
10 temporary road crossing. So you put timber mats
11 across the stream to allow construction equipment to
12 go back and forth. And I want to note on this
13 particular area that we're looking, the two areas I've
14 highlighted, you'll note the right-of-way is the
15 heavy, dark, black line and we've necked the right-of-
16 way down to avoid the --- there's wetlands on the
17 topside that we're avoiding and there's also a stream
18 crossing. We've narrowed the right-of-way down to try
19 to limit the impacts to the stream. And this is
20 typical for all stream and wetland crossings where the
21 right-of-way is necked down and reduced from, let's
22 say, 75 feet reduced down to 50 foot or reduced down
23 to 40 foot, sometimes less than that. Typically,
24 what's just required to trench the pipe through and
25 have equipment crossing safely.

1 So some of the typical requirements for
2 a general permit registration are project
3 descriptions, Act 14 notifications, location map,
4 photographs, the plans I just went over, a copy of the
5 E&S control plan and a wetland delineation report.

6 There are some conditions when these
7 permits are not applicable, that would be if the water
8 resource is considered exceptional value. So this is
9 Pennsylvania's e-map program where you can find a
10 number of things in here, but this particular screen
11 shot is showing, when you zoom in close enough, you
12 can see all of the streams in the program. And it's
13 hard to tell, too, but they're different colors. So
14 there's a legend on the left-hand side and you can see
15 if it's a cold water fish, an exception value, high
16 quality. So, for example, this particular stream was
17 an exceptional value stream, so this is where we have
18 to go to check to see what type of stream or crossing,
19 and that will dictate the type of permit that we have
20 to get.

21 Some other times when a general permit's
22 not applicable is if you're crossing a wetland that is
23 more than ten acres in size or if there's a historic
24 cultural or archeological site present. So when you
25 can't get the GP, you have to move into an individual

1 permit which is water obstruction and encroachment
2 joint permit. And this is authorized by both the
3 Department of Environmental Protection as well as the
4 US Army Corps. It has some additional requirements
5 over and above what the general permit requires such
6 as an alternative analysis, a public notice, a risk
7 assessment as well as a seal by a professional
8 engineer.

9 So moving on to the Federal permitting
10 of the stream and wetland crossings, the Nationwide
11 Permit 12 was suspended in Pennsylvania and the
12 PASPGP, which we refer to it as the Federal --- is the
13 replacement for the Federal Permit. And it's
14 designated to coordinate with the Department. So
15 there's a level of review determined by the category
16 of the impact. So if it's a category one impact,
17 which is thresholds associated with these impacts, the
18 Department can authorize and include the Army Corps
19 Authorization. If it's a category three impact, the
20 Department and the Army Corps must review the projects
21 independently and both provide an approval or
22 authorization for it.

23 So this a copy of what the Army Corps
24 would issue for the PASPGP-4 authorization. And I
25 think it's worth noting that as part of the Corps

1 authorization it does require a 30-day after
2 construction as well as a one-year or after the first
3 full growing season of post-construction monitoring
4 report to be submitted to the Army Corps to show that
5 the stream and wetlands have come back to their
6 preexisting conditions. So, Mr. Secretary, do you
7 want me to keep going because I can flip through these
8 really quick? I don't know.

9 CHAIRMAN:

10 Quick would be great.

11 MS. PARKER:

12 Okay. Good. Okay. So we'll just run
13 through these really super quick. So some references
14 that are already in existence in Pennsylvania is the
15 E&S manual. And the E&S manual, I thought it was
16 worth mentioning. I was going to lug it along with
17 me, but it's too large. The E&S manual is actually
18 583 pages in length so it provides a lot of
19 information on a variety of BMPs that should be used
20 to control erosion and sediment coming off of a site.

21 The Pennsylvania Storm Water Best
22 Management Practices Manual is 487 pages, that's not
23 counting the appendixes, which were included. And
24 this talks about a number of how you should design
25 your site, different best management practices for

1 controlling storm water runoff for detention basins or
2 rain gardens, a variety of other items.

3 There's also a utility line construction
4 manual which is --- I put some asterisks there because
5 it's a little bit outdated now. It would probably be
6 wise, I think, and helpful maybe as a BMP that my
7 Workgroup could recommend is to come out with a new
8 manual like that specifically for utility line
9 construction. So I'll flip through these, but I had
10 some pictures. If you have the presentation, which I
11 guess all of you do, you can flip through these. But
12 these are just some of the BMPs that are typically
13 used.

14 I will note the infiltration testing is
15 something that takes a lot of time to do. You have to
16 go out to the site with an excavator, dig test pits,
17 determine where the depth of bedrock is, determine if
18 there's a seasonal high groundwater table. And this
19 is all required prior to designing any of your storm
20 water BMPs to determine if you're actually going to be
21 able to infiltrate some of your storm water runoff on
22 the site and how those are going to function. That's
23 it. Any questions?

24 CHAIRMAN:

25 Questions? There is going to be a test,

1 by the way. You can't leave until you write an essay
2 on the various permitting tools. Any questions for
3 Lauren?

4 MR. GALLAGHER:

5 Lauren, Anthony Gallagher. Just out of
6 curiosity, from the time a company wants to start a
7 pipeline and start the process to probably the average
8 time of the permitting process, what's roughly the
9 average time it takes?

10 MS. PARKER:

11 To just from when I submit the permit to
12 the Department to when I get it?

13 MR. GALLAGHER:

14 Uh-huh (yes).

15 MS. PARKER:

16 Well, it depends really on where you're
17 at in the State. I would say for ESCGP-2 in the North
18 Central part of the State, it probably takes two to
19 three months. In the Southwestern part of the State
20 it takes at least six months. 105 permits vary also.
21 Again, probably three months is an average. A joint
22 permit would definitely be --- others can chime in
23 here, at least I would say six to nine months to get a
24 joint permit.

25 And that's just you've submitted the

1 full permit package for them to review it. There's
2 always some back and forth to try to make sure things
3 are correct with the Department to actually get your
4 permit in hand.

5 MR. GALLAGHER:

6 Okay.

7 MS. SCHWARTZ:

8 I just wanted to briefly add that if
9 you're in certain zones along the Delaware River and
10 Lake Erie, you need a coastal zone management plan in
11 addition to everything Lauren outlined. And also in
12 certain areas of the State there may be environmental
13 justice considerations.

14 MS. PARKER:

15 Thank you.

16 CHAIRMAN:

17 Serena.

18 MS. BELLOW:

19 Very quickly. Lauren, thank you for
20 putting in a word about cultural resource in Section
21 106, I always appreciate that. I wanted to add to
22 that, though, that you will also have to submit
23 documentation to PHMC, to my office, if you are just
24 getting State permits as well. Under the Pennsylvania
25 State History Code, we have review authority for DEP's

1 permits as well.

2 So while Federal permitting is
3 definitely a stronger law and more robust process in
4 many ways, I just wanted to clarify that unfortunately
5 State law comes into play as well. And also to
6 mention, you had pictures of some diligent
7 archeologists doing their backbreaking work out there.
8 I'm not an archeologist, you can tell. But to just
9 clarify that this also looks at above ground potential
10 impact, so we would be looking at impacts to historic
11 communities, historic downtowns, even in some rare
12 cases historic landscapes as well. So just to clarify
13 before anybody gets upset if they get a kind of letter
14 from my office.

15 MS. PARKER:

16 Right. I was going to say, I had to
17 somewhat limit my presentation yesterday, so one of my
18 colleagues said, well, you should probably put in
19 there about the viewshed because we've gotten a lot of
20 comments about affecting the viewshed of an old
21 farmstead where a pipeline was going through. So,
22 yes, we go through ---.

23 MS. BELLEW:

24 Give me a call, we can talk about it.

25 MS. PARKER:

1 Okay.

2 CHAIRMAN:

3 Other questions for Lauren.
4 Representative.

5 MR. KELLER:

6 Thank you, Mr. Secretary. One question,
7 Anthony asked you about the length of a permit and you
8 answered the North Central and Southwest. I'm very
9 parochial, how about the Southeast?

10 MS. PARKER:

11 Well, actually, for the oil and gas
12 permits, it's split up into three districts. So
13 there's a Southwest, Northwest and North Central. And
14 North Central covers the center of the State, pretty
15 much, and the entire Eastern half.

16 MR. KELLER:

17 So that would be the Southeast?

18 MS. PARKER:

19 So that would be the Southeast as well.
20 And that's out of Williamsport.

21 MR. KELLER:

22 Thank you.

23 MS. PARKER:

24 Yep. You're welcome.

25 CHAIRMAN:

1 Other questions? Seeing none, Lauren,
2 thank you very much. Just for the benefit of the
3 members of the Task Force for future reference,
4 October 28th will be the last meeting where we have
5 presentations. Then we get to work. The
6 presentations, we'll have three presentations on
7 October 28th. First, will be integration,
8 coordination and permitting between State and Federal
9 agencies with a cast of thousands that you see listed
10 there on your agenda. And then voluntary best
11 practices, managing operational risk and protecting
12 significant historic and cultural resources by a group
13 called Leaders in Energy and Preservation, LEAP, which
14 was formerly the Gas and Preservation Partnership.
15 And finally, a presentation from the Greater
16 Philadelphia Energy Action Team. So that will round
17 out the presentations for the Task Force, and then
18 we'll get to work on writing.

19 We're now in the discussion portion of
20 the agenda, anything on anyone's mind among the Task
21 Force members? All right. We are going to do that
22 quiz on Lauren's presentation. Terry.

23 MR. BOSSERT:

24 Mr. Secretary, I just think we need to
25 point out that Davitt and I didn't have to read about

1 the Cuyahoga River in the history books, we were
2 actually alive, so ---.

3 CHAIRMAN:

4 Anything else from the Task Force.
5 Okay. Seeing none, the next section is public
6 comment. Are there any --- is there anyone in the
7 audience that would like to provide public comment,
8 please raise your hand. All right. What we'd ask you
9 to do is step to the podium, identify yourself, where
10 you're from, any group that you might be representing.
11 And what we will ask you to do is limit your comments
12 to three minutes.

13 MS. WALSH:

14 Hi, my name is Julia Walsh. I'm from
15 Frack Action and I'm here with a group so we were
16 hoping to take a few extra minutes. I'll be speaking
17 on behalf of the group. I'm the campaign direction of
18 Frack Action, a New York-based organization. And for
19 years we've been working with residents impacted by
20 fracking in Northeast and Southwest Pennsylvania. And
21 we've been able to assist when possible to deliver
22 clean drinking water to residents in Dimock, PA and
23 Susquehanna County. I'm joined here today by
24 representatives, some Bucks County concerned citizens,
25 Delaware River Keeper, Food and Water Watch and the

1 youth organization, Earth Guardians.

2 We have come to this meeting to give to
3 you, DEP Secretary John Quigley, a group letter that
4 we would like to ask you to deliver to Governor Wolf.
5 This letter is from 115 community-based environmental
6 organizations, and I quote from the letter, fighting
7 and harmed by the massive expansion of gas
8 infrastructure throughout the Northeast and Mid-
9 Atlantic regions of the United States being driven by
10 Shale Gas extraction in the Commonwealth of
11 Pennsylvania. This coalition of groups from
12 Pennsylvania, New York, New Jersey, Maryland,
13 Connecticut, Massachusetts and New Hampshire signed on
14 to this letter to call on Governor Wolf to shut down
15 this Pipeline Task Force, immediately enact a
16 moratorium on fracking in Pennsylvania and help the
17 people of Pennsylvania suffering adverse public health
18 impacts from fracking.

19 Secretary Quigley, you were right to say
20 at the beginning of the meeting that there is public
21 angst around fracking and its infrastructure, for good
22 reason. Our angst is based on the reality of what the
23 science is telling us, which now includes over 550
24 peer reviewed scientific studies overwhelmingly
25 showing harm to public health and safety and the

1 environment.

2 This angst is also driven by the reality
3 of what state governments are doing just to the north
4 and south of Pennsylvania. If you look just over the
5 border to the north, New York has banned fracking
6 outright after our Commissioner from the Department of
7 Public Health conducted a health review in which he, a
8 recognized and respected doctor, said he would never
9 let his family live near a fracking well. And if you
10 look to the south of your border to Maryland where the
11 State legislature urged by nurses, doctors and health
12 professionals passed a moratorium on fracking, and the
13 sitting Republican Governor Hogan let it pass into
14 law.

15 I would like to also note the reality
16 that each of these states directly bordering
17 Pennsylvania passed bans and moratoriums after elected
18 officials came to see fracking firsthand in
19 Pennsylvania, to meet Pennsylvanians with contaminated
20 water, nose bleeds, skin rashes, vomiting and
21 illnesses from water that was once safe to drink and
22 air that was once safe to breathe. What you and
23 Governor Wolf have done here is a mockery to their
24 suffering.

25 For this administration to sit around a

1 table with the very same corporations that are
2 poisoning your citizens and hear from consulting firms
3 that are here to give presentations about how these
4 corporations can better gain public acceptance and use
5 social media, as Bravo Group did here today, is a
6 travesty.

7 This letter and those 115 organizations
8 are living with the reality of a crisis stemming from
9 fracking in PA and its related infrastructure that
10 this Task Force is commissioned to facilitate. We are
11 backed and supported by State and Local elected
12 officials, health professionals, experts from their
13 fields and scientists that a massive build out of
14 frack gas infrastructure will lock us into decades of
15 fracked gas at a time when our global climate is
16 dependent on a full scale swift transition to
17 renewable energy. And that is not only our message,
18 but the message of the Pope who will be arriving here
19 in a few short days.

20 Secretary Quigley and members of this
21 Task Force who work for the Commonwealth of
22 Pennsylvania, we are asking you to please listen to
23 the science and the hundreds of thousands of people
24 represented in this letter from throughout the
25 Northeast, shut down this Task Force, enact an

1 immediate moratorium on fracking in Pennsylvania and
2 help Pennsylvanians who are suffering health impacts
3 from fracking. And I'll just close by saying that all
4 of our groups in the Northeast will not stop working
5 in solidarity with our friends and neighbors in
6 Pennsylvania until these demands are met. Thank you.

7 CHAIRMAN:

8 Thank you.

9 MS. WALSH:

10 We have the Earth Guardian who will give
11 you the letter, and I'll pass out a few letters to
12 those in the Task Force from the State.

13 CHAIRMAN:

14 Okay. Thank you. Is there anyone else
15 in the audience that would like to be heard? I'm not
16 seeing anybody. Is there anything else for the good
17 of the Order? All right. Our next meeting will be on
18 October 28th at 1:00 p.m. Thank you all very much.
19 We're adjourned.

20 * * * * *

21 HEARING CONCLUDED

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CERTIFICATE

I hereby certify that the foregoing proceedings, hearing held before Chairman Quigley was reported by me on 9/23/15 and that I, Bernadette M. Black, read this transcript, and that I attest that this transcript is a true and accurate record of the proceeding.

Bernadette M. Black

Bernadette M. Black,
Court Reporter