

U.S. DEPARTMENT OF INTERIOR
BUREAU OF OCEAN ENERGY MANAGEMENT
AND
NATIONAL OCEANIC AND ATMOSPHERIC
ADMINISTRATION
NATIONAL MARINE FISHERIES SERVICE
+ + + + +
GULF OF MEXICO GEOLOGICAL & GEOPHYSICAL
(G&G) ACTIVITIES PROGRAMMATIC
ENVIRONMENTAL IMPACT STATEMENT (EIS)

+ + + + +

PUBLIC SCOPING MEETING

+ + + + +

MONDAY
JUNE 10th, 2013

+ + + + +

TAMPA, FLORIDA

+ + + + +

The Scoping Meeting convened at 6:30
p.m. Eastern Standard Time, Gary Goeke,
Moderator, presiding.

BOEM AND NMFS STAFF PRESENT:
GARY GOEKE - Chief, Environment Assessment
BETH NORD - NEPA Coordinator

PUBLIC SPEAKERS:

EDDIE PHARR 18

CHRISTOPHER DOUGHERTY 21

DAVID MICA. 22

CATHY HARRELSON 29

AL HINE 33

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

2 (6:30 p.m.)

3 MR. GOEKE: Good evening. My
4 name's Gary Goeke, I'm Chief of the
5 Environmental Assessment Section with the
6 Bureau of Ocean Energy Management in New
7 Orleans. And with me this evening is Ms. Beth
8 Nord. Beth is one of the NEPA Coordinators on
9 the document that we're here to speak about
10 this evening.

11 The purpose of the meeting tonight
12 is to -- hang on you-all, bear with me.

13 (Technical difficulties.)

14 MR. GOEKE: All right. Sorry
15 about that, you-all.

16 Anyway, as I said, Beth and I are
17 with -- and most of the other folks here this
18 evening -- are with the Bureau of Ocean Energy
19 Management. We have decided to be co-agencies
20 with the National Marine Fisheries, in
21 preparation of an EIS to look at geological
22 and geophysical activities in the Gulf of

1 Mexico.

2 The Bureau of Ocean Energy
3 Management, as you may know, is one of the
4 agencies within the Department of the
5 Interior, whereas NOAA and NMFS are one of the
6 agencies within the Department of Commerce.
7 So we've reached across agency lines and we
8 are working together on a single document that
9 affects both agencies.

10 The reason we can do this is
11 because of the National Environmental Policy
12 Act. NEPA, as it's abbreviated, NEPA is the
13 grandfather environmental law that allows the
14 Federal Government to coordinate and to do
15 detailed examinations of potential
16 environmental impacts as a result of the
17 activities that the Federal Government is
18 undertaking.

19 This law in NEPA requires that we
20 have coordination with other federal agencies
21 and with the public and things like this. It
22 sets up a series of steps that involves public

1 hearings, scoping, things like that. And
2 that's why we're here tonight.

3 We're here to get help. We're at
4 the very early stages of an Environment Impact
5 Statement, and we're here to get help and
6 solicit comments from locals, from NGO's, from
7 city and state governments, to give us their
8 thoughts on the types of issues that we may
9 need to address in this environmental EIS.

10 We have a lot of ideas on how we
11 may want to do our geological and geophysical
12 EIS, but we want to hear thoughts from other
13 people as well. That's the purpose of
14 scoping, is to try and figure out what are the
15 issues that are important and what are the
16 issues that may not be as important that we
17 don't need to examine in detail in the EIS.

18 Through the EIS process this is
19 sort of a step-wise process that has been set
20 up by an agency known as CEQ, Council on
21 Environmental Quality. CEQ establishes
22 scoping early on so that all the federal

1 agencies could get comments at the very
2 beginning of the process from all interested
3 parties.

4 The purpose of the scoping
5 meetings, as I said, is primarily to get your
6 thoughts on what our process is and what we
7 may be working on in the very near future. We
8 have a lot of people in our office in New
9 Orleans. Most of us are from the New Orleans
10 office. We have a lot of people who are going
11 to be working very hard and very long on the
12 Environmental Impact Statement and we would
13 like for everybody to give us as much of their
14 thoughts as they can.

15 One of the requirements of NEPA,
16 of course, is consultations. On the outer-
17 continental shelf the Bureau of Ocean Energy
18 Management is one of the primary regulators of
19 offshore oil and gas, but we're certainly not
20 the only one. There are lots of other laws,
21 as you can see up here, lots of other laws,
22 lots of other agencies that we routinely

1 consult with and work with fairly closely on
2 different topics as we move through the NEPA
3 process.

4 And now we get to the heart of the
5 topic, the seismic surveys. The EIS that
6 we're going to be evaluating, that we're going
7 to be creating. We'll be evaluating seismic
8 surveys in the Gulf of Mexico.

9 The seismic survey is a method of
10 remotely looking at the sea floor to try and
11 gather data on sea floor features, whether
12 it's sub-sand, whether it's sand resources
13 below the sea floor, or oil and gas resources
14 that may be farther below the sea floor, these
15 are the types of activities that we're looking
16 for.

17 But beyond oil and gas we have
18 other things that the seismic is used for. If
19 you're looking to build a wind farm you need
20 to know that you have a stable sea floor to
21 put your pylons on and things like that. So
22 it's used for alternative energy, it's used

1 for marine minerals. If you want to rebuild
2 a beach after a hurricane comes through you
3 need to know where your sand sources are. So
4 this EIS will look at a variety of actions.
5 We'll look at a variety of ways that the
6 seismic is used to support these different
7 actions.

8 There are a bewildering number of
9 types of surveys done for G&G. As you can
10 imagine, depending on what the purpose of the
11 survey is, whether it's shallow, just
12 identifying sand sources, whether it's deep,
13 whether it's a test that's performed down a
14 bore hole or things like this, there are a
15 number of different types of surveys, and we
16 have lumped them into these rather broad
17 categories here.

18 And the important things are, we
19 need to define what our actions are in the
20 areas that we're concerned with. And this is
21 the area of interest that we're going to be
22 looking at in the EIS, it's going to be the

1 entire Gulf of Mexico.

2 When we did the Atlantic EIS for
3 G&G we just did the mid-Atlantic planning area
4 and the South Atlantic planning area. For
5 this EIS we're doing the entire Gulf of
6 Mexico.

7 The purpose of the programmatic
8 EIS. We're writing what's known as a
9 programmatic EIS, and what that means is that
10 we're going to put together a document that
11 has a broad discussion of a lot of different
12 types of information that we can use in
13 subsequent documents.

14 For instance, this EIS will not
15 evaluate any site specific plans. That's not
16 the purpose of this EIS. The purpose of this
17 EIS is to go through, look at commonalities
18 between the different types of procedures that
19 may be used for G&G activities, write that
20 down one time, and then from that point on
21 subsequent documents that will be site
22 specific, that will be plan specific, can use

1 that information and incorporate that
2 information by reference. So once this
3 document is done this document does not lead
4 to permitted activity. There will be
5 additional NEPA evaluations on all of these.

6 BOEM and NMFS together have
7 responsibilities on the outer-continental
8 shelf, and we have sort of overlapping but non
9 -- we don't compete with each other. But this
10 is the language that's used for the
11 environmental -- for the Marine Mammal
12 Protection Act and Endangered Species Act and
13 things like that. It gets real deep real
14 quick. We have a couple of our NMFS folks in
15 the audience. We appreciate you all coming
16 out. And one of the things that we have to do
17 is make sure that as we go through our
18 environmental document we meet all of the
19 requirements for our agency as well as for
20 NMFS.

21 In the past, as we do these
22 documents, we have a set of resources that we

1 have done our evaluation on. In the Gulf of
2 Mexico the resource and the impact producing
3 factors are fairly broad. There's a lot of
4 things that happen in the Gulf of Mexico,
5 there are a lot of impacting factors in the
6 Gulf of Mexico. We will go through our
7 document, we will list these, we will evaluate
8 them. Some of them may be set aside as not
9 having significant potential to impact the
10 marine mammals and the resources we're looking
11 at. But one of the things we will do is
12 slowly go through each of those.

13 I think I skipped one. There we
14 go.

15 We look at the impact producing
16 factors and then we take those effects and we
17 place them up against the various resources
18 that we analyze. These are the -- what's it
19 doing?

20 MS. NORD: It's real sensitive.
21 It's like hitting it twice.

22 MR. GOEKE: Okay. These are the

1 resources that we're going to look at and we
2 have routinely looked at in our EIS's: Coastal
3 environments; coastal and marine birds;
4 socioeconomic; endangered species; marine
5 mammal, fisheries; coastal tourism. All of
6 these are resources that we will take the
7 impacting factors, lay up against them for our
8 analysis, and then come to a conclusion.

9 (Technical difficulties.)

10 MR. GOEKE: Well, while Beth is
11 figuring that out -- thank you.

12 One of the key issues that we
13 perform at the scoping process -- at the
14 scoping part of the EIS process is the
15 development of alternatives. Alternatives are
16 the heart and soul of the EIS. As we're going
17 through trying to figure out what our purpose
18 and need is, what our resources are, what
19 potential impacting factors -- one of the key
20 elements to this entire this is, what are the
21 alternatives that we're going to look at?

22 In an Environmental Impact

1 Statement an alternative can be almost
2 anything that somebody can come up with that
3 has the validity, that has the reasonableness
4 to help achieve the purpose that's stated for
5 the EIS.

6 And so this is one of the things
7 that we're looking at now. For the EIS this
8 is where we are. We know under CEQ, CEQ
9 requires that we have a No Action alternative.
10 CEQ requires that we have a Proposed Action.
11 And the Proposed Action is something that is
12 the heart of the purpose and the need in the
13 document. But there are a lot of ways that
14 Proposed Action can be accomplished.

15 And so what we need to do is to
16 get -- and this is part of reason for this
17 tour that we're doing right now. We need to
18 go around, we need to get ideas from everybody
19 about different types of alternatives,
20 different types of mitigation measures,
21 different types of things that can help us
22 accomplish the protective measures that we

1 have to accomplish. So this is part of what
2 we're hoping to receive from you and from
3 everybody else over the next few days.

4 And, of course, one of the ways
5 that we do our protection as we go through
6 doing our analysis, we have been doing
7 geological and geophysical in the Gulf of
8 Mexico for quite a few years. As you know
9 there's a strong oil and gas program that has
10 been using the geophysical tools. Our agency
11 has very actively been out there protecting
12 and establishing protective measures that are
13 known as "mitigations."

14 This is an example of some of the
15 types of mitigations that our agency has used
16 in the past. As you can see there a lot of
17 different types of things that you can do,
18 everything from ramp-up to inspections, from
19 trained observers to minimum spaces between
20 concurrent surveys so that the sounds don't
21 overlap and become cumulative. There are a
22 lot of different things that can be done to

1 effectively mitigate the offshore seismic.

2 This is another thing that we
3 would like to get from everybody, is what type
4 of mitigations, what additional protective
5 measures can you-all think of that can help us
6 achieve what it is we need to achieve in the
7 Gulf.

8 And here's the schedule for the
9 EIS. The EIS is a fairly ambitious EIS, and
10 there are a lot of things that we have to do
11 in our coordination with NMFS and our
12 coordination with other federal and state
13 agencies and with non-governmental entities
14 and things like this. This EIS is going to
15 take a couple years for us to bring to
16 completion.

17 The red lettering are places where
18 the EIS is open -- our process is open to
19 comment and open to input from folks outside
20 of our agency. We are at the Notice of Intent
21 and the Scoping Meetings now, but we will have
22 a Comment Period when the Draft document is

1 published. There is a Comment Period on the
2 Final EIS when it's published as well.

3 So what we're going to be doing
4 is, we're going to take the information that
5 we gather from you and from the rest of our
6 meetings over the next few days, we'll write
7 a Draft document, we will publish a Draft
8 document, and then we will come back here, and
9 very likely this exact same place, and
10 hopefully you-all will have read the Draft
11 document and can give us some feedback and
12 some thoughts on how the Draft document can be
13 improved and we can move forward with the
14 program or things like this.

15 So what we're going to do, the
16 process here tonight is, we're going to set up
17 -- we have a station set up here, a
18 microphone. We have a court reporter over
19 here who will take verbatim notes from
20 everything's that said so that we don't have
21 to try and interpret anything that anyone
22 suggests, we have the verbatim notes.

1 And at this point we had asked
2 everybody to sign in when you came in.
3 There's a couple different reasons for that.
4 We're not trying to track anybody. We're not
5 the IRS, we don't track people. But we do
6 have a mail list, and if you want to be on our
7 mail list, this is partly how we do it.

8 And one of the things that we had
9 asked when you signed in was if you wanted to
10 speak. Okay. So we have three speakers who
11 have self identified. And the first speaker
12 is Eddie Pharr. Come on up, Eddie.

13 Let me give you an idea of what
14 we're going to do. Come on. What we're going
15 to do is, we're going to go through our three
16 speakers, ask if anybody else has any
17 thoughts. Once we've exhausted everybody's
18 thoughts and comments we'll take a 15-minute
19 break. If you want to hang around, that's
20 fine. If you don't want to hang around and
21 you've said your piece, you're free to go.

22 Mr. Pharr.

1 MR. PHARR: Thanks Gary, Beth. My
2 name is Eddie Pharr, I'm here with the IAGC,
3 and here today representing the International
4 Association of Geophysical Contractors. And
5 on behalf of the IAGC and the geophysical
6 industry I wish to express our appreciation
7 for the opportunity to make the following
8 comments, which will be supplemented by
9 written comments to the BOEM regarding the
10 development of the PEIS for G&G activities in
11 the Gulf of Mexico.

12 IAGC is the international trade
13 association representing the industry that
14 provides geophysical acquisition processing
15 and other services to the energy industry,
16 including both the conventional and renewable
17 energy sectors. IAGC member companies play an
18 integral role in the successful exploration
19 and development of offshore oil and natural
20 gas resources through the acquisition
21 processing of geophysical data.

22 Geophysical surveys are key tools

1 used in oil and natural gas exploration and
2 siting of renewable energy facilities.

3 Geophysical data is critical to the successful
4 discovery and efficient development and
5 production of oil and natural gas.

6 Over the past few decades advances
7 in modern seismic imaging and interpretation
8 have been tremendous. Today seismic surveys
9 use the modern data acquisition and processing
10 techniques and are able to produce subsurface
11 images much clearer and more accurate than
12 those of even five years ago.

13 Geophysical data is all critical
14 for the development of renewable energies.
15 High resolution geophysical data and
16 geotechnical borings provide important key
17 data required to site renewable energy
18 facilities and design the foundational
19 structures that we require for development of
20 renewable energy.

21 The IAGC values the stakeholder
22 process and we are committed to participating

1 in the dialogue with all stakeholders to
2 explain what we do, why we do it, and the
3 measures we take to protect the environment.

4 We have with us today several
5 educational items that explain modern marine
6 geophysical data acquisition, underwater
7 sound, and the measures the geophysical
8 industry implements to ensure minimal impacts
9 of our operations on the environment. This
10 information is available for BOEM and those in
11 attendance in the back of the room.

12 IAGC wishes again to express our
13 appreciation for this opportunity to voice our
14 support for the commitment to work with BOEM
15 and all stakeholders in the development of the
16 Gulf of Mexico EIS. Thank you again.

17 MR. GOEKE: Thank you, Mr. Pharr.

18 The next speaker who signed up is
19 Christopher Dougherty.

20 MR. DOUGHERTY: I'm with Chis
21 Dougherty, I'm with Coastal Planning and
22 Engineering.

1 MR. GOEKE: Okay.

2 MR. DOUGHERTY: My comment will be
3 brief. I don't have really a prepared
4 statement other than just a comment. We hope
5 that the scope of the PEIS would differentiate
6 between high resolution low decibel, you know,
7 low power systems like CHIRP systems, and then
8 high decibel, high energy systems like air
9 guns.

10 CHIRP systems are used for public
11 benefit projects, such as shore protection,
12 beach (sic) or nourishment, projects like
13 that. If all of these systems are lumped
14 together, projects like that, you know, might
15 not be able to take place. So there just
16 needs to be a differentiation between these
17 CHIRP systems and air gun systems in the
18 scope.

19 MR. GOEKE: Chris, can you tell us
20 who you're with?

21 MR. DOUGHERTY: I'm with Coastal
22 Planning and Engineering.

1 MR. GOEKE: Okay, thank you.

2 All right. The next speaker who
3 signed up is David Mica. Mr. Mica.

4 MR. MICA: Good afternoon, Mr.
5 Goeke, Ms. Nord. I am David Mica, I'm the
6 Executive Director of the Florida Petroleum
7 Council located in Tallahassee. We're a
8 division of the American Petroleum Institute
9 based in Washington.

10 Welcome back to the Sunshine
11 State. It's nice to see you.

12 MR. GOEKE: Thank you.

13 MR. MICA: Thanks for the
14 opportunity to speak today about the scoping
15 of this Draft Programmatic Environmental
16 Impact Statement which will support the
17 issuance of permits to conduct geological and
18 geophysical study activities in the Gulf of
19 Mexico.

20 The oil and natural gas industry
21 has a long history of working with the
22 Department of the Interior to develop this

1 country's natural resources to the benefit of
2 the United States economy and to all
3 Americans. Our industry stands ready to
4 invest in additional exploration of the Gulf
5 of Mexico.

6 This DPEIS is needed as a first
7 step to begin the process of generating the
8 data that will allow for additional production
9 in the Central and Western Gulf, and the
10 potential for future discoveries in the
11 Eastern Gulf, should that area be made
12 available for leasing and development sometime
13 in the future.

14 The scope and the magnitude of the
15 economic activity in the Gulf of Mexico are
16 huge, and largely attributable to the energy
17 exploration and development that we currently
18 have. Currently in the Gulf of Mexico it
19 accounts for over 25 percent of all of the
20 United States domestic oil production. The
21 BOEM has determined that over a 40-year period
22 the leasing, drilling, and production

1 resulting from the 2012 to 2017 five-year OCS
2 leasing plan, will create an additional
3 20,000, 25, to 51,825 jobs, and between 1.1
4 and 2.2 billion in additional annual income.

5 To realize these benefits
6 geological and geophysical surveys, as we're
7 talking about tonight, mainly in the form of
8 seismic surveying will be necessary. Modern
9 offshore oil and natural gas exploration
10 requires the use of seismic surveys to
11 feasibly and accurately prospect for oil and
12 natural gas reserves offshore. This
13 technology has been used for decades to assess
14 the location and size of potential and natural
15 gas deposits which often lay several miles
16 beneath the ocean floor. Seismic surveys also
17 make offshore energy production safer and more
18 efficient by greatly reducing the footprint
19 and the drilling of dry holes where no oil and
20 gas is found to be present.

21 The offshore oil and natural gas
22 industry has demonstrated the ability to

1 conduct seismic exploration activities in a
2 manner that protects marine life. Four
3 decades of worldwide seismic surveying
4 activity and scientific research on marine
5 mammals have shown no evidence that sound from
6 seismic activities has resulted in injury to
7 any marine mammal species. Likewise, there's
8 no scientific evidence demonstrating
9 biologically significant adverse impacts on
10 marine mammal populations.

11 Nevertheless, our industry employs
12 a number of robust mitigation measures to
13 further reduce the negligible risk of harm to
14 marine mammals. Based on the absence of
15 observed affects and supporting scientific
16 knowledge, the alternative studied in the PEIS
17 should not consider overly restrictive
18 mitigation measures that will inhibit our
19 industry from performing seismic surveys and
20 BOEM from meeting its goal set out in the OCS
21 Lands Act.

22 An agency's only NEPA obligation

1 is to evaluate reasonable alternatives, and a
2 proposed alternative is reasonable only if it
3 will bring about the ends of the federal
4 action measured by whether it achieves the
5 goals the agency sets out to achieve. And
6 that's from the OCS Lands Act.

7 A federal agency may therefore
8 eliminate alternatives and mitigation measures
9 that do not meet the purposes and needs of the
10 project. In the face of no observable injury
11 or mortality data, and no population level of
12 behavioral effect, the DPEIS should resist the
13 imposition of more and more unreasonable
14 mitigation measures, especially the addition
15 of dolphins, which at times intentionally
16 approach seismic vessels to bow ride in a
17 seemingly normal behavior pattern, to the list
18 of animals that require operations to shut
19 down.

20 In the past the methodology BOEM
21 has used to estimate the number of incidental
22 takes has resulted in what we feel are highly

1 exaggerated estimates, especially considering
2 the lack of any observable injuries,
3 mortalities, or population level behavioral
4 effects. BOEM has relied on models that have
5 not been validated against field data. And
6 this has created unrealistic estimates of
7 incidental takes that could be expected to
8 occur during industry geological and
9 geophysical activities. Compounding this
10 problem are the agency's previous take number
11 estimates which are only achievable by using
12 acoustic threshold criteria based on obsolete
13 data that does not meet the NEPA requirements
14 to use the best available science.

15 Industry's highlighted a varies of
16 mythological flaws where the Agency's choices
17 in acoustic propagation models, the use of
18 frequency weighting, and acoustic thresholds,
19 can result in differences in take estimates
20 that vary by several orders of magnitude.

21 In addition, the primary emphasis
22 in the DPEIS when considering any projected

1 disturbance or impact should be its
2 environmental context, the acoustic and
3 physical attributes surrounding environment
4 and the effected species themselves.

5 Therefore, we strongly believe
6 that the DPEIS must be based on the best
7 available science, make appropriate use of
8 models to estimate incidental takes, and fully
9 consider the environmental context when making
10 any determination of environmental
11 consequences.

12 Finally, we feel that the DPEIS
13 must explicitly address the OCS Lands Act's
14 programmatic goal of ensuring the expedited
15 exploration and development of the outer-
16 continental shelf, and that the DPEIS fully
17 address and quantify the potential
18 interference with the achievement of that goal
19 posed by any alternative or mitigation measure
20 being considered.

21 For example, if the DPEIS
22 addresses the potential for extending shutdown

1 requirements to mammals other than whales and
2 manatees, or expanding the shut-down zone from
3 the current 500 meters, BOEM needs to
4 quantify the number of hours or shut down that
5 would result, and the implications for the
6 efficacy and timeliness of the seismic survey.

7 We appreciate the opportunity to
8 provide this public statement and will be
9 submitting additional written comments before
10 the comment deadline occurs. Thank you.

11 MR. GOEKE: Thank you.

12 Cathy Harrelson.

13 MS. HARRELSON: Good evening. I'm
14 Cathy Harrelson, I'm the Florida organizer for
15 Gulf Restoration Network. GRN is based in New
16 Orleans but I live here in St. Petersburg. We
17 also will be submitting written comments, but
18 I did want to make a few comments here.

19 Gulf Restoration Network is a
20 network of local, regional, and national
21 environmental social justice and public
22 interest groups and individuals dedicated to

1 empowering people to protect and restore the
2 ecological and biological integrity of the
3 Gulf of Mexico.

4 Network members hail from each of
5 the Gulf states, of Alabama, Florida,
6 Louisiana, Mississippi and Texas, and beyond.
7 Gulf Restoration Network is deeply concerned
8 about the potential environmental impacts of
9 seismic exploration on the resources of the
10 Gulf of Mexico. Accordingly, the GRN would
11 assert that the following topic issues must be
12 addressed within the Environmental Impact
13 Statement.

14 Number one. Consider within its
15 alternatives analysis all potentially
16 available alternative technologies that would
17 allow exploration for oil and gas reserves at
18 different sound levels than those used by
19 seismic technologies currently employed by the
20 industry. And I do want to caveat that. That
21 that is within the currently allowed areas and
22 continuing to protect the Eastern Gulf from

1 drilling through GOMESA.

2 Number two. The impacts of all
3 aspects of the process of seismic exploration
4 on protected species including but not limited
5 to, birds, marine mammals, turtles and fish
6 species, in the geographic area covered by the
7 EIS.

8 Number three. The additive effect
9 of continuing seismic exploration on species
10 impacted by the BP Oil disaster of 2010.

11 Number four. The effectiveness of
12 current mitigation measures in reducing the
13 threat to protect its species and additional
14 reductions in impact that could be achieved by
15 use of alternative measures, such as passive
16 acoustic monitoring and the like.

17 And, number five, the indirect
18 secondary and cumulative impacts on the marine
19 environment of all activities of the oil and
20 gas industry, and the geographic area covered
21 by the EIS.

22 Cumulative impact analysis must

1 include a review of the overall impacts of
2 seismic in addition to an estimated potential
3 removal of 100 or more structures per year and
4 the totality of removal of all structures
5 presently reaching the end of their useful
6 life over the period covered by the EIS.

7 Moreover, cumulative impact
8 analysis must look at the totality of impacts
9 on the marine environment associated with oil
10 and gas exploration and development activities
11 i.e. seismic exploration, and non-BOEM
12 regulated activities, like marine,
13 transportation, fishing, et cetera.

14 I really appreciate this
15 opportunity, and as I say, we will be filing
16 additional written comments. Thank you.

17 MR. GOEKE: Great. Thank you very
18 much. We appreciate you coming out.

19 MS. HARRELSON: Sure.

20 MR. GOEKE: Is there anyone who
21 has not spoken that would like to address the
22 group now?

1 Yes, sir. Give us your name and
2 your affiliation, please.

3 MR. HINE: Sure. My name is Al
4 Hine. I'm a Professor of Marine Science at
5 the University of South Florida. I teach
6 marine geophysics, I do a lot of marine
7 geophysics. I've done a lot of marine
8 geophysics on the West Florida shelf, high
9 resolution. So I'm quite familiar with marine
10 geology and geophysics, that's my job.

11 I'm curious about this whole
12 process. I mean we've been extracting oil
13 and gas and sand and gravel from the Gulf of
14 Mexico for a hundred years, and as we speak
15 there are a flotilla of seismic vessels out
16 there right now collecting data, both 2-D and
17 3-D, right up to state waters in Florida in
18 the Eastern Gulf.

19 So what does this process -- and
20 you say this won't be completed for a couple
21 of years? A couple of years is going to be an
22 enormous amount of continued seismic

1 reflection and seismic refraction, and
2 whatever other types of geophysical data
3 collected. So I'm curious as to the point of
4 this.

5 Since so much work has been done
6 the Gulf of Mexico is one of the three mega-
7 provinces of hydrocarbons in the world. It's
8 not going to go away. There's an enormous
9 amount of oil and gas out there. We're going
10 to be dependent upon oil and gas for a long
11 period of time. And the industry has made an
12 enormous investment for sure in the
13 infrastructure in continuing seismic
14 reflection work. And as one gentleman said,
15 the technology's improved enormously.

16 So I guess, what's the point of
17 all this right now? Why is this going on?

18 MR. GOEKE: I think that's a good
19 question. The purpose of the meeting tonight
20 is to gather thoughts on what the things are
21 that we should look at in the EIS.

22 During the break let's come talk

1 to you. We'll talk off the record. I've got
2 people with us that can answer the question,
3 but that's not what this meeting is about.

4 Is there anyone else that would
5 like to address the EIS preparation?

6 (No response.)

7 MR. GOEKE: If not, we're going to
8 adjourn for 15 minutes, and if you hang around
9 I'm going to open the floor once again.

10 MS. NORD: Did you show them the
11 slides about -- the comment slides?

12 MR. GOEKE: No.

13 We have numerous ways for you to
14 give comments into our process. You can go to
15 our website on our Agency's site, you can go
16 to regulations.gov, you can go to G&G.gov.

17 MS. NORD: There you go, right
18 there.

19 MR. GOEKE: gonggeis@boem.gov.
20 There are a lot of different ways you can give
21 comments to us. Some of them are easier than
22 others, some people are more comfortable just

1 sending an e-mail than going into a website
2 and digging down through it. So there are a
3 variety of ways for you to get in touch with
4 us.

5 And of course our phone numbers --
6 our names and phone numbers are out there as
7 well, so you can contact us at any point.

8 We're going to go off the record
9 for 15 minutes.

10 (Off the record, 7:10 p.m.)

11 (Back on the record, 7:26 p.m.)

12 MR. GOEKE: Let's go ahead and go
13 back on the record.

14 (Audience talking.)

15 MR. GOEKE: We're back on the
16 record.

17 (Audience talking.)

18 MR. GOEKE: We're back on the
19 record.

20 We wanted to give anyone -- we do
21 this so that if anybody comes in late, if
22 there's somebody who, during the break,

1 discovers something that they feel passionate
2 about that they need to say, we give them a
3 second chance to do that.

4 So, is there anyone in the
5 audience that felt like there was something
6 that was not said before and they need to
7 speak up?

8 (No response.)

9 MR. GOEKE: Seeing nothing, we're
10 adjourned. Thank you. Thank you all for
11 coming out.

12 (At 7:27 p.m., meeting adjourned.)

13

14

15

16

17

18

19

20

21

22

A	adjourned 37:10 37:12 ADMINISTRAT... 1:4 advances 19:6 adverse 25:9 affiliation 33:2 afternoon 22:4 agencies 4:4,6,9,20 6:1,22 15:13 agency 4:7 5:20 10:19 14:10,15 15:20 26:5,7 agency's 25:22 27:10,16 35:15 ago 19:12 ahead 36:12 air 21:8,17 Al 2:17 33:3 Alabama 30:5 allow 23:8 30:17 allowed 30:21 allows 4:13 alternative 7:22 13:1,9 25:16 26:2 28:19 30:16 31:15 alternatives 12:15 12:15,21 13:19 26:1,8 30:15 ambitious 15:9 American 22:8 Americans 23:3 amount 33:22 34:9 analysis 12:8 14:6 30:15 31:22 32:8 analyze 11:18 animals 26:18 annual 24:4 answer 35:2 anybody 17:4,16 36:21 Anyway 3:16 appreciate 10:15 29:7 32:14,18 appreciation 18:6 20:13 approach 26:16	appropriate 28:7 area 8:21 9:3,4 23:11 31:6,20 areas 8:20 30:21 aside 11:8 asked 17:1,9 aspects 31:3 assert 30:11 assess 24:13 Assessment 1:21 3:5 associated 32:9 association 18:4,13 Atlantic 9:2,4 ATMOSPHERIC 1:3 attendance 20:11 attributable 23:16 attributes 28:3 audience 10:15 36:14,17 37:5 available 20:10 23:12 27:14 28:7 30:16	billion 24:4 biological 30:2 biologically 25:9 birds 12:3 31:5 BOEM 1:21 10:6 18:9 20:10,14 23:21 25:20 26:20 27:4 29:3 bore 8:14 borings 19:16 bow 26:16 BP 31:10 break 17:19 34:22 36:22 brief 21:3 bring 15:15 26:3 broad 8:16 9:11 11:3 build 7:19 Bureau 1:2 3:6,18 4:2 6:17	collecting 33:16 come 12:8 13:2 16:8 17:12,14 34:22 comes 8:2 36:21 comfortable 35:22 coming 10:15 32:18 37:11 comment 15:19,22 16:1 21:2,4 29:10 35:11 comments 5:6 6:1 17:18 18:8,9 29:9 29:17,18 32:16 35:14,21 Commerce 4:6 commitment 20:14 committed 19:22 commonalities 9:17 companies 18:17 compete 10:9 completed 33:20 completion 15:16 Compounding 27:9 concerned 8:20 30:7 conclusion 12:8 concurrent 14:20 conduct 22:17 25:1 consequences 28:11 consider 25:17 28:9 30:14 considered 28:20 considering 27:1 27:22 consult 7:1 consultations 6:16 contact 36:7 context 28:2,9 continental 6:17 28:16 continued 33:22 continuing 30:22 31:9 34:13 Contractors 18:4
	B	back 16:8 20:11 22:10 36:11,13,15 36:18 based 22:9 25:14 27:12 28:6 29:15 beach 8:2 21:12 bear 3:12 beginning 6:2 behalf 18:5 behavior 26:17 behavioral 26:12 27:3 believe 28:5 beneath 24:16 benefit 21:11 23:1 benefits 24:5 best 27:14 28:6 Beth 1:22 3:7,8,16 12:10 18:1 bewildering 8:8 beyond 7:17 30:6	C	C 3:1 categories 8:17 Cathy 2:16 29:12 29:14 caveat 30:20 Central 23:9 CEQ 5:20,21 13:8 13:8,10 certainly 6:19 cetera 32:13 chance 37:3 Chief 1:21 3:4 CHIRP 21:7,10,17 Chis 20:20 choices 27:16 Chris 21:19 Christopher 2:13 20:19 city 5:7 clearer 19:11 closely 7:1 coastal 12:3,5 20:21 21:21 collected 34:3

convened 1:18
conventional 18:16
coordinate 4:14
coordination 4:20
 15:11,12
Coordinator 1:22
Coordinators 3:8
Costal 12:2
Council 5:20 22:7
country's 23:1
couple 10:14 15:15
 17:3 33:20,21
course 6:16 14:4
 36:5
court 16:18
covered 31:6,20
 32:6
co-agencies 3:19
create 24:2
created 27:6
creating 7:7
criteria 27:12
critical 19:3,13
cumulative 14:21
 31:18,22 32:7
curious 33:11 34:3
current 29:3 31:12
currently 23:17,18
 30:19,21

D

D 3:1
data 7:11 18:21
 19:3,9,13,15,17
 20:6 23:8 26:11
 27:5,13 33:16
 34:2
David 2:14 22:3,5
days 14:3 16:6
deadline 29:10
decades 19:6 24:13
 25:3
decibel 21:6,8
decided 3:19
dedicated 29:22
deep 8:12 10:13
deeply 30:7

define 8:19
demonstrated
 24:22
demonstrating
 25:8
Department 1:1
 4:4,6 22:22
dependent 34:10
depending 8:10
deposits 24:15
design 19:18
detail 5:17
detailed 4:15
determination
 28:10
determined 23:21
develop 22:22
development 12:15
 18:10,19 19:4,14
 19:19 20:15 23:12
 23:17 28:15 32:10
dialogue 20:1
differences 27:19
different 7:2 8:6,15
 9:11,18 13:19,20
 13:21 14:17,22
 17:3 30:18 35:20
differentiate 21:5
differentiation
 21:16
difficulties 3:13
 12:9
digging 36:2
Director 22:6
disaster 31:10
discoveries 23:10
discovers 37:1
discovery 19:4
discussion 9:11
disturbance 28:1
division 22:8
document 3:9 4:8
 9:10 10:3,3,18
 11:7 13:13 15:22
 16:7,8,11,12
documents 9:13,21
 10:22

doing 9:5 11:19
 13:17 14:6,6 16:3
dolphins 26:15
domestic 23:20
Dougherty 2:13
 20:19,20,21 21:2
 21:21
DPEIS 23:6 26:12
 27:22 28:6,12,16
 28:21
Draft 15:22 16:7,7
 16:10,12 22:15
drilling 23:22
 24:19 31:1
dry 24:19

E

E 3:1,1
early 5:4,22
easier 35:21
Eastern 1:19 23:11
 30:22 33:18
ecological 30:2
economic 23:15
economy 23:2
Eddie 2:12 17:12
 17:12 18:2
educational 20:5
effect 26:12 31:8
effected 28:4
effectively 15:1
effectiveness 31:11
effects 11:16 27:4
efficacy 29:6
efficient 19:4 24:18
EIS 1:8 3:21 5:9,12
 5:17,18 7:5 8:4,22
 9:2,5,8,9,14,16,17
 12:14,16 13:5,7
 15:9,9,9,14,18
 16:2 20:16 31:7
 31:21 32:6 34:21
 35:5
EIS's 12:2
elements 12:20
eliminate 26:8
emphasis 27:21

employed 30:19
employs 25:11
empowering 30:1
endangered 10:12
 12:4
ends 26:3
energies 19:14
energy 1:2 3:6,18
 4:2 6:17 7:22
 18:15,17 19:2,17
 19:20 21:8 23:16
 24:17
Engineering 20:22
 21:22
enormous 33:22
 34:8,12
enormously 34:15
ensure 20:8
ensuring 28:14
entire 9:1,5 12:20
entities 15:13
environment 1:21
 5:4 20:3,9 28:3
 31:19 32:9
environmental 1:8
 3:5 4:11,13,16 5:9
 5:21 6:12 10:11
 10:18 12:22 22:15
 28:2,9,10 29:21
 30:8,12
environments 12:3
especially 26:14
 27:1
establishes 5:21
establishing 14:12
estimate 26:21 28:8
estimated 32:2
estimates 27:1,6,11
 27:19
et 32:13
evaluate 9:15 11:7
 26:1
evaluating 7:6,7
evaluation 11:1
evaluations 10:5
evening 3:3,7,10,18
 29:13

everybody 6:13
 13:18 14:3 15:3
 17:2
everybody's 17:17
everything's 16:20
evidence 25:5,8
exact 16:9
exaggerated 27:1
examinations 4:15
examine 5:17
example 14:14
 28:21
Executive 22:6
exhausted 17:17
expanding 29:2
expected 27:7
expedited 28:14
explain 20:2,5
explicitly 28:13
exploration 18:18
 19:1 23:4,17 24:9
 25:1 28:15 30:9
 30:17 31:3,9
 32:10,11
express 18:6 20:12
extending 28:22
extracting 33:12
e-mail 36:1

F

face 26:10
facilities 19:2,18
factors 11:3,5,16
 12:7,19
fairly 7:1 11:3 15:9
familiar 33:9
farm 7:19
farther 7:14
feasibly 24:11
features 7:11
federal 4:14,17,20
 5:22 15:12 26:3,7
feedback 16:11
feel 26:22 28:12
 37:1
felt 37:5
field 27:5

figure 5:14 12:17
figuring 12:11
filing 32:15
Final 16:2
Finally 28:12
fine 17:20
first 17:11 23:6
fish 31:5
fisheries 1:5 3:20
 12:5
fishing 32:13
five 19:12 31:17
five-year 24:1
flaws 27:16
floor 7:10,11,13,14
 7:20 24:16 35:9
Florida 1:15 22:6
 29:14 30:5 33:5,8
 33:17
flotilla 33:15
folks 3:17 10:14
 15:19
following 18:7
 30:11
footprint 24:18
form 24:7
forward 16:13
found 24:20
foundational 19:18
four 25:2 31:11
free 17:21
frequency 27:18
fully 28:8,16
further 25:13
future 6:7 23:10,13

G

G 3:1
Gary 1:19,21 3:4
 18:1
gas 6:19 7:13,17
 14:9 18:20 19:1,5
 22:20 24:9,12,15
 24:20,21 30:17
 31:20 32:10 33:13
 34:9,10
gather 7:11 16:5

34:20
generating 23:7
gentleman 34:14
geographic 31:6,20
geological 1:7 3:21
 5:11 14:7 22:17
 24:6 27:8
geology 33:10
geophysical 1:7
 3:22 5:11 14:7,10
 18:4,5,14,21,22
 19:3,13,15 20:6,7
 22:18 24:6 27:9
 34:2
geophysics 33:6,7,8
 33:10
geotechnical 19:16
give 5:7 6:13 16:11
 17:13 33:1 35:14
 35:20 36:20 37:2
go 9:17 10:17 11:6
 11:12,14 13:18
 14:5 17:15,21
 34:8 35:14,15,16
 35:17 36:8,12,12
goal 25:20 28:14,18
goals 26:5
Goeke 1:19,21 3:3
 3:4,14 11:22
 12:10 20:17 21:1
 21:19 22:1,5,12
 29:11 32:17,20
 34:18 35:7,12,19
 36:12,15,18 37:9
going 6:10 7:6,6
 8:21,22 9:10 12:1
 12:16,21 15:14
 16:3,4,15,16
 17:14,14,15 33:21
 34:8,9,17 35:7,9
 36:1,8
GOMESA 31:1
gomgeis@boem...
 35:19
good 3:3 22:4 29:13
 34:18
Government 4:14

4:17
governments 5:7
grandfather 4:13
gravel 33:13
Great 32:17
greatly 24:18
GRN 29:15 30:10
group 32:22
groups 29:22
guess 34:16
Gulf 1:7 3:22 7:8
 9:1,5 11:1,4,6
 14:7 15:7 18:11
 20:16 22:18 23:4
 23:9,11,15,18
 29:15,19 30:3,5,7
 30:10,22 33:13,18
 34:6
gun 21:17
guns 21:9
G&G 1:8 8:9 9:3
 9:19 18:10
G&G.gov 35:16

H

hail 30:4
hang 3:12 17:19,20
 35:8
happen 11:4
hard 6:11
harm 25:13
Harrelson 2:16
 29:12,13,14 32:19
hear 5:12
hearings 5:1
heart 7:4 12:16
 13:12
help 5:3,5 13:4,21
 15:5
high 19:15 21:6,8,8
 33:8
highlighted 27:15
highly 26:22
Hine 2:17 33:3,4
history 22:21
hitting 11:21
hole 8:14

holes 24:19
hope 21:4
hopefully 16:10
hoping 14:2
hours 29:4
huge 23:16
hundred 33:14
hurricane 8:2
hydrocarbons 34:7

I

IAGC 18:2,5,12,17
 19:21 20:12
idea 17:13
ideas 5:10 13:18
identified 17:11
identifying 8:12
images 19:11
imagine 8:10
imaging 19:7
impact 1:8 5:4 6:12
 11:2,9,15 12:22
 22:16 28:1 30:12
 31:14,22 32:7
impacted 31:10
impacting 11:5
 12:7,19
impacts 4:16 20:8
 25:9 30:8 31:2,18
 32:1,8
implements 20:8
implications 29:5
important 5:15,16
 8:18 19:16
imposition 26:13
improved 16:13
 34:15
incidental 26:21
 27:7 28:8
include 32:1
including 18:16
 31:4
income 24:4
incorporate 10:1
indirect 31:17
individuals 29:22
industry 18:6,13,15

20:8 22:20 23:3
 24:22 25:11,19
 27:8 30:20 31:20
 34:11
Industry's 27:15
information 9:12
 10:1,2 16:4 20:10
infrastructure
 34:13
inhibit 25:18
injuries 27:2
injury 25:6 26:10
input 15:19
inspections 14:18
instance 9:14
Institute 22:8
integral 18:18
integrity 30:2
Intent 15:20
intentionally 26:15
interest 8:21 29:22
interested 6:2
interference 28:18
Interior 1:1 4:5
 22:22
international 18:3
 18:12
interpret 16:21
interpretation 19:7
invest 23:4
investment 34:12
involves 4:22
IRS 17:5
issuance 22:17
issues 5:8,15,16
 12:12 30:11
items 20:5
i.e 32:11

J

job 33:10
jobs 24:3
JUNE 1:13
justice 29:21

K

key 12:12,19 18:22
 19:16

know 4:3 7:20 8:3
13:8 14:8 21:6,14
knowledge 25:16
known 5:20 9:8
14:13

L

lack 27:2
Lands 25:21 26:6
28:13
language 10:10
largely 23:16
late 36:21
law 4:13,19
laws 6:20,21
lay 12:7 24:15
lead 10:3
leasing 23:12,22
24:2
lettering 15:17
let's 34:22 36:12
level 26:11 27:3
levels 30:18
life 25:2 32:6
Likewise 25:7
limited 31:4
lines 4:7
list 11:7 17:6,7
26:17
live 29:16
local 29:20
locals 5:6
located 22:7
location 24:14
long 6:11 22:21
34:10
look 3:21 8:4,5
9:17 11:15 12:1
12:21 32:8 34:21
looked 12:2
looking 7:10,15,19
8:22 11:10 13:7
lot 5:10 6:8,10 9:11
11:3,5 13:13
14:16,22 15:10
33:6,7 35:20
lots 6:20,21,22

Louisiana 30:6
low 21:6,7
lumped 8:16 21:13

M

magnitude 23:14
27:20
mail 17:6,7
making 28:9
mammal 10:11
12:5 25:7,10
mammals 11:10
25:5,14 29:1 31:5
Management 1:2
3:6,19 4:3 6:18
manatees 29:2
manner 25:2
marine 1:5 3:20 8:1
10:11 11:10 12:3
12:4 20:5 25:2,4,7
25:10,14 31:5,18
32:9,12 33:4,6,6,7
33:9
mean 33:12
means 9:9
measure 28:19
measured 13:20
26:4
measures 13:22
14:12 15:5 20:3,7
25:12,18 26:8,14
31:12,15
meet 10:18 26:9
27:13
meeting 1:10,18
3:11 25:20 34:19
35:3 37:12
meetings 6:5 15:21
16:6
mega 34:6
member 18:17
members 30:4
meters 29:3
method 7:9
methodology 26:20
Mexico 1:7 4:1 7:8
9:1,6 11:2,4,6

14:8 18:11 20:16
22:19 23:5,15,18
30:3,10 33:14
34:6
Mica 2:14 22:3,3,4
22:5,13
microphone 16:18
mid-Atlantic 9:3
miles 24:15
minerals 8:1
minimal 20:8
minimum 14:19
minutes 35:8 36:9
Mississippi 30:6
mitigate 15:1
mitigation 13:20
25:12,18 26:8,14
28:19 31:12
mitigations 14:13
14:15 15:4
models 27:4,17
28:8
Moderator 1:19
modern 19:7,9 20:5
24:8
MONDAY 1:13
monitoring 31:16
mortalities 27:3
mortality 26:11
move 7:2 16:13
mythological 27:16

N

N 3:1
name 18:2 33:1,3
names 36:6
name's 3:4
national 1:3,5 3:20
4:11 29:20
natural 18:19 19:1
19:5 22:20 23:1
24:9,12,14,21
near 6:7
necessary 24:8
need 5:9,17 7:19
8:3,19 12:18
13:12,15,17,18

15:6 37:2,6
needed 23:6
needs 21:16 26:9
29:3
negligible 25:13
NEPA 1:22 3:8
4:12,12,19 6:15
7:2 10:5 25:22
27:13
network 29:15,19
29:20 30:4,7
Nevertheless 25:11
New 3:6 6:8,9
29:15
NGO's 5:6
nice 22:11
NMFS 1:21 4:5
10:6,14,20 15:11
NOAA 4:5
non 10:8
non-BOEM 32:11
non-governmental
15:13
Nord 1:22 3:8
11:20 22:5 35:10
35:17
normal 26:17
notes 16:19,22
Notice 15:20
nourishment 21:12
number 8:8,15
25:12 26:21 27:10
29:4 30:14 31:2,8
31:11,17
numbers 36:5,6
numerous 35:13

O

O 3:1
obligation 25:22
observable 26:10
27:2
observed 25:15
observers 14:19
obsolete 27:12
occur 27:8
occurs 29:10

ocean 1:2 3:6,18
4:2 6:17 24:16
OCEANIC 1:3
OCS 24:1 25:20
26:6 28:13
office 6:8,10
offshore 6:19 15:1
18:19 24:9,12,17
24:21
oil 6:19 7:13,17
14:9 18:19 19:1,5
22:20 23:20 24:9
24:11,19,21 30:17
31:10,19 32:9
33:12 34:9,10
Okay 11:22 17:10
21:1 22:1
once 10:2 17:17
35:9
open 15:18,18,19
35:9
operations 20:9
26:18
opportunity 18:7
20:13 22:14 29:7
32:15
orders 27:20
organizer 29:14
Orleans 3:7 6:9,9
29:16
outer 6:16 28:15
outer-continental
10:7
outside 15:19
overall 32:1
overlap 14:21
overlapping 10:8
overly 25:17

P

P 3:1
part 12:14 13:16
14:1
participating 19:22
parties 6:3
partly 17:7
passionate 37:1

passive 31:15
pattern 26:17
PEIS 18:10 21:5
 25:16
people 5:13 6:8,10
 17:5 30:1 35:2,22
percent 23:19
perform 12:13
performed 8:13
performing 25:19
period 15:22 16:1
 23:21 32:6 34:11
permits 22:17
permitted 10:4
Petersburg 29:16
Petroleum 22:6,8
Pharr 2:12 17:12
 17:22 18:1,2
 20:17
phone 36:5,6
physical 28:3
piece 17:21
place 11:17 16:9
 21:15
places 15:17
plan 9:22 24:2
planning 9:3,4
 20:21 21:22
plans 9:15
play 18:17
please 33:2
point 9:20 17:1
 34:3,16 36:7
Policy 4:11
population 26:11
 27:3
populations 25:10
posed 28:19
potential 4:15 11:9
 12:19 23:10 24:14
 28:17,22 30:8
 32:2
potentially 30:15
power 21:7
preparation 3:21
 35:5
prepared 21:3

present 1:21 24:20
presently 32:5
presiding 1:19
previous 27:10
primarily 6:5
primary 6:18 27:21
problem 27:10
procedures 9:18
process 5:18,19 6:2
 6:6 7:3 12:13,14
 15:18 16:16 19:22
 23:7 31:3 33:12
 33:19 35:14
processing 18:14
 18:21 19:9
produce 19:10
producing 11:2,15
production 19:5
 23:8,20,22 24:17
Professor 33:4
program 14:9
 16:14
programmatic 1:8
 9:7,9 22:15 28:14
project 26:10
projected 27:22
projects 21:11,12
 21:14
propagation 27:17
proposed 13:10,11
 13:14 26:2
prospect 24:11
protect 20:3 30:1
 30:22 31:13
protected 31:4
protecting 14:11
protection 10:12
 14:5 21:11
protective 13:22
 14:12 15:4
protects 25:2
provide 19:16 29:8
provides 18:14
provinces 34:7
public 1:10 2:10
 4:21,22 21:10
 29:8,21

publish 16:7
published 16:1,2
purpose 3:11 5:13
 6:4 8:10 9:7,16,16
 12:17 13:4,12
 34:19
purposes 26:9
put 7:21 9:10
pylons 7:21
p.m 1:19 3:2 36:10
 36:11 37:12

Q

Quality 5:21
quantify 28:17
 29:4
question 34:19
 35:2
quick 10:14
quite 14:8 33:9

R

R 3:1
ramp-up 14:18
reached 4:7
reaching 32:5
read 16:10
ready 23:3
real 10:13,13 11:20
realize 24:5
really 21:3 32:14
reason 4:10 13:16
reasonable 26:1,2
reasonableness
 13:3
reasons 17:3
rebuild 8:1
receive 14:2
record 35:1 36:8,10
 36:11,13,16,19
red 15:17
reduce 25:13
reducing 24:18
 31:12
reductions 31:14
reference 10:2
reflection 34:1,14
refraction 34:1

regarding 18:9
regional 29:20
regulated 32:12
regulations.gov
 35:16
regulators 6:18
relied 27:4
remotely 7:10
removal 32:3,4
renewable 18:16
 19:2,14,17,20
reporter 16:18
representing 18:3
 18:13
require 19:19
 26:18
required 19:17
requirements 6:15
 10:19 27:13 29:1
requires 4:19 13:9
 13:10 24:10
research 25:4
reserves 24:12
 30:17
resist 26:12
resolution 19:15
 21:6 33:9
resource 11:2
resources 7:12,13
 10:22 11:10,17
 12:1,6,18 18:20
 23:1 30:9
response 35:6 37:8
responsibilities
 10:7
rest 16:5
Restoration 29:15
 29:19 30:7
restore 30:1
restrictive 25:17
result 4:16 27:19
 29:5
resulted 25:6 26:22
resulting 24:1
review 32:1
ride 26:16
right 3:14 13:17

22:2 33:16,17
 34:17 35:17
risk 25:13
robust 25:12
role 18:18
room 20:11
routinely 6:22 12:2

S

S 3:1
safer 24:17
sand 7:12 8:3,12
 33:13
schedule 15:8
science 27:14 28:7
 33:4
scientific 25:4,8,15
scope 21:5,18 23:14
scoping 1:10,18 5:1
 5:14,22 6:4 12:13
 12:14 15:21 22:14
sea 7:10,11,13,14
 7:20
second 37:3
secondary 31:18
Section 3:5
sectors 18:17
see 6:21 14:16
 22:11
Seeing 37:9
seemingly 26:17
seismic 7:5,7,9,18
 8:6 15:1 19:7,8
 24:8,10,16 25:1,3
 25:6,19 26:16
 29:6 30:9,19 31:3
 31:9 32:2,11
 33:15,22 34:1,13
self 17:11
sending 36:1
sensitive 11:20
series 4:22
SERVICE 1:5
services 18:15
set 5:19 10:22 11:8
 16:16,17 25:20
sets 4:22 26:5

shallow 8:11
shelf 6:17 10:8
 28:16 33:8
shore 21:11
show 35:10
shown 25:5
shut 26:18 29:4
shutdown 28:22
shut-down 29:2
sic 21:12
sign 17:2
signed 17:9 20:18
 22:3
significant 11:9
 25:9
single 4:8
sir 33:1
site 9:15,21 19:17
 35:15
siting 19:2
size 24:14
skipped 11:13
slides 35:11,11
slowly 11:12
social 29:21
socioeconomic 12:4
solicit 5:6
somebody 13:2
 36:22
Sorry 3:14
sort 5:19 10:8
soul 12:16
sound 20:7 25:5
 30:18
sounds 14:20
sources 8:3,12
South 9:4 33:5
spaces 14:19
speak 3:9 17:10
 22:14 33:14 37:7
speaker 17:11
 20:18 22:2
speakers 2:10
 17:10,16
species 10:12 12:4
 25:7 28:4 31:4,6,9
 31:13

specific 9:15,22,22
spoken 32:21
St 29:16
stable 7:20
STAFF 1:21
stages 5:4
stakeholder 19:21
stakeholders 20:1
 20:15
Standard 1:19
stands 23:3
state 5:7 15:12
 22:11 33:17
stated 13:4
statement 1:8 5:5
 6:12 13:1 21:4
 22:16 29:8 30:13
states 23:2,20 30:5
station 16:17
step 23:7
steps 4:22
step-wise 5:19
strong 14:9
strongly 28:5
structures 19:19
 32:3,4
studied 25:16
study 22:18
submitting 29:9,17
subsequent 9:13,21
subsurface 19:10
sub-sand 7:12
successful 18:18
 19:3
suggests 16:22
Sunshine 22:10
supplemented 18:8
support 8:6 20:14
 22:16
supporting 25:15
sure 10:17 32:19
 33:3 34:12
surrounding 28:3
survey 7:9 8:11
 29:6
surveying 24:8
 25:3

surveys 7:5,8 8:9
 8:15 14:20 18:22
 19:8 24:6,10,16
 25:19
systems 21:7,7,8,10
 21:13,17,17

T

take 11:16 12:6
 15:15 16:4,19
 17:18 20:3 21:15
 27:10,19
takes 26:22 27:7
 28:8
talk 34:22 35:1
talking 24:7 36:14
 36:17
Tallahassee 22:7
TAMPA 1:15
teach 33:5
Technical 3:13
 12:9
techniques 19:10
technologies 30:16
 30:19
technology 24:13
technology's 34:15
tell 21:19
test 8:13
Texas 30:6
thank 12:11 20:16
 20:17 22:1,12
 29:10,11 32:16,17
 37:10,10
Thanks 18:1 22:13
thing 15:2
things 4:21 5:1
 7:18,21 8:14,18
 10:13,16 11:4,11
 13:6,21 14:17,22
 15:10,14 16:14
 17:8 34:20
think 11:13 15:5
 34:18
thoughts 5:8,12 6:6
 6:14 16:12 17:17
 17:18 34:20

threat 31:13
three 17:10,15 31:8
 34:6
threshold 27:12
thresholds 27:18
time 1:19 9:20
 34:11
timeliness 29:6
times 26:15
today 18:3 19:8
 20:4 22:14
tonight 3:11 5:2
 16:16 24:7 34:19
tools 14:10 18:22
topic 7:5 30:11
topics 7:2
totality 32:4,8
touch 36:3
tour 13:17
tourism 12:5
track 17:4,5
trade 18:12
trained 14:19
transportation
 32:13
tremendous 19:8
try 5:14 7:10 16:21
trying 12:17 17:4
turtles 31:5
twice 11:21
two 31:2
type 15:3
types 5:8 7:15 8:9
 8:15 9:12,18
 13:19,20,21 14:15
 14:17 34:2

U

undertaking 4:18
underwater 20:6
United 23:2,20
University 33:5
unrealistic 27:6
unreasonable
 26:13
use 9:12,22 19:9
 24:10 27:14,17

28:7 31:15
useful 32:5
U.S 1:1

V

validated 27:5
validity 13:3
values 19:21
varies 27:15
variety 8:4,5 36:3
various 11:17
vary 27:20
verbatim 16:19,22
vessels 26:16 33:15
voice 20:13

W

want 5:11,12 8:1
 17:6,19,20 29:18
 30:20
wanted 17:9 36:20
Washington 22:9
waters 33:17
ways 8:5 13:13
 14:4 35:13,20
 36:3
website 35:15 36:1
weighting 27:18
Welcome 22:10
West 33:8
Western 23:9
we'll 7:7 8:5 16:6
 17:18 35:1
we're 3:9 5:2,3,3,5
 6:19 7:6,6,15 8:20
 8:21 9:5,8,10
 11:10 12:1,16,21
 13:7,17 14:2 16:3
 16:4,15,16 17:4,4
 17:14,14,15 22:7
 24:6 34:9 35:7
 36:8,15,18 37:9
we've 4:7 17:17
 33:12
whales 29:1
wind 7:19
wish 18:6
wishes 20:12

work 7:1 20:14
34:5,14

working 4:8 6:7,11
22:21

world 34:7

worldwide 25:3

write 9:19 16:6

writing 9:8

written 18:9 29:9
29:17 32:16

Y

year 32:3

years 14:8 15:15
19:12 33:14,21,21

you-all 3:12,15
15:5 16:10

Z

zone 29:2

1

1.1 24:3

10th 1:13

100 32:3

15 35:8 36:9

15-minute 17:18

18 2:12

2

2-D 33:16

2.2 24:4

20,000 24:3

2010 31:10

2012 24:1

2013 1:13

2017 24:1

21 2:13

22 2:14

25 23:19 24:3

29 2:16

3

3-D 33:17

33 2:17

4

40-year 23:21

5

500 29:3

51,825 24:3

6

6:30 1:18 3:2

7

7:10 36:10

7:26 36:11

7:27 37:12

C E R T I F I C A T E

This is to certify that the foregoing transcript

In the matter of: Public Scoping Meeting

Before: US DOI

Date: 06-10-13

Place: Tampa, FL

was duly recorded and accurately transcribed under my direction; further, that said transcript is a true and accurate record of the proceedings.



Court Reporter

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701