

**From:** Black, Steve  
**To:** karnold@karnoldconsulting.com;  
**Subject:** Question  
**Date:** Wednesday, May 26, 2010 8:28:07 PM

---

Ken, good evening. Do you know whether any of the 33 active MODU's BOPs in GoM have 2 blind shear rams?

Many thanks.

Steve Black  
Counselor to the Secretary  
U.S. Department of the Interior  
1849 C Street, N.W., MS 7229  
Washington, D.C. 20240  
Phone: 202-208-4123  
Fax: 202-208-4561  
e-mail: steve\_black@ios.doi.gov

**From:** [Black, Steve](#)  
**To:** [karnold@karnoldconsulting.com](mailto:karnold@karnoldconsulting.com);  
**Subject:** RE: Question  
**Date:** Wednesday, May 26, 2010 8:47:49 PM

---

Thanks Ken. We are checking with Lars and others at MMS as well. I appreciate the quick reply.

Best,

Steve

---

**From:** [karnold@karnoldconsulting.com](mailto:karnold@karnoldconsulting.com) [mailto:[karnold@karnoldconsulting.com](mailto:karnold@karnoldconsulting.com)]  
**Sent:** Wednesday, May 26, 2010 8:43 PM  
**To:** Black, Steve  
**Subject:** Re: Question

I do not know. Would you like me to call around tomorrow. I am sure the MMS knows.

Sent via BlackBerry by AT&T

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**From:** "Black, Steve" <[steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)>  
**Date:** Wed, 26 May 2010 20:28:06 -0400  
**To:** [karnold@karnoldconsulting.com](mailto:karnold@karnoldconsulting.com)<[karnold@karnoldconsulting.com](mailto:karnold@karnoldconsulting.com)>  
**Subject:** Question

Ken, good evening. Do you know whether any of the 33 active MODU's BOPs in GoM have 2 blind shear rams?

Many thanks.

Steve Black  
Counselor to the Secretary  
U.S. Department of the Interior  
1849 C Street, N.W., MS 7229  
Washington, D.C. 20240  
Phone: 202-208-4123

Fax: 202-208-4561

e-mail: [steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)

**From:** Kemkar, Neal  
**To:** karnold@karnoldconsulting.com;  
**cc:** Black, Steve; Hanley, Kallie;  
Ishee, Mary Katherine;  
**Subject:** Thank you Ken and further engagement  
**Date:** Tuesday, May 11, 2010 6:35:18 PM

---

Ken – thanks again for sharing your thoughts with us on the phone. Very helpful set of ideas you presented. I just mentioned this in more detail on a voicemail at your office number to the same effect, but I'd like to speak with you further about your engagement on this project when you have a moment. Please call me at your earliest convenience at the below number.

Thanks,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Blair, Peter  
**To:** "karnold@karnoldconsulting.com";  
**cc:** Kemkar, Neal; Hanley, Kallie; Black, Steve;  
**Subject:** U.S. Department of Interior Reviews of Deepwater Horizon Incident  
**Date:** Wednesday, May 12, 2010 7:29:31 AM

---

Dear Ken:

I am writing to alert you that you may be asked by the U.S. Department of Interior (DOI), Office of the Secretary, to provide brief but important service with regard to the Department's formulation of an early action plan in response to the oil blowout at Deepwater Horizon.

As you are no doubt now aware, the oil well blowout at Deepwater Horizon has generated many questions about offshore drilling safety and blowout prevention. In the wake of the incident, The Offshore Drilling Interim Safety Measures Report ("30-Day Safety Report") ordered by President Obama on April 30, 2010, requests Interior Secretary Salazar to review and report what, if any, additional precautions and technologies should be required to prevent accidents like the Deepwater Horizon incident from happening again. The Report will include a discussion of known legal and regulatory requirements as well as current industry practices. It will focus on recommendations for interim measures that will increase offshore drilling safety, including but not limited to engineering and operating practices aimed at reducing the chance of a future blowout and the appropriate testing and operation of backup safety equipment such as blowout preventers. The Report will also include an action plan for moving forward on achieving increased offshore drilling safety in the near term, including suggested additional study. This Report is not a full investigation of the incident—such an investigation will be undertaken jointly by the Minerals Management Service and U.S. Coast Guard and Secretary Salazar intends to commission an independent technical assessment by the National Academy of Engineering (NAE).

In the course of preliminary discussions directed toward commissioning the NAE assessment, DOI officials asked that we at the Academy identify a number of recognized academic and industry experts in the relevant fields to (1) discuss informally with DOI officials the current state of the art of offshore drilling safety and blowout protection and the degree to which such practices are currently in use in the U.S. and incorporated broadly into industry best practices, and (2) to vet, again informally, a series of proposed recommendations the department is formulating that would be included in the 30-Day Safety Report. After reviewing who was involved in ongoing related Academy activities and consultation with many colleagues, we generated a list of recommended experts, including you.

Although this discussion will be convened directly by the Office of the Secretary of the Interior, not by the National Academies, we have recommended that the DOI consider you as a discussant. In the coming days DOI officials copied on this message will be following up directly with you to explore your availability. Whether you agree to help DOI or not is, of course, entirely up to you, but if you are available, I hope you will give serious consideration to participating.

With best wishes,

Peter D. Blair, Ph.D.  
Executive Director  
Division on Engineering and Physical Sciences  
The National Academies  
500 Fifth Street, N.W.  
Washington, DC 20001  
Email: [pblair@nas.edu](mailto:pblair@nas.edu); Tel: 202-334-2400; Fax: 202-334-3373

**From:** Kemkar, Neal  
**To:** Ken Arnold;  
**cc:** Black, Steve; Hanley, Kallie;  
**Subject:** RE: Thank you Ken and further engagement  
**Date:** Friday, May 14, 2010 7:15:56 PM  
**Attachments:** Peer Review - Consultant NonDisclosureAgtFINAL.PDF

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Thanks Ken – good to talk to you. Looking forward to our collaboration.

As discussed, please review and return the attached non disclosure agreement.  
My return fax number is 202.208.4561

Thanks,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

---

**From:** Ken Arnold [mailto:karnold@karnoldconsulting.com]  
**Sent:** Friday, May 14, 2010 6:20 PM  
**To:** Kemkar, Neal  
**Subject:** RE: Thank you Ken and further engagement

As discussed

Kenneth E. (Ken) Arnold  
K Arnold Consulting, Inc.  
3031 Shadowdale  
Houston, TX 77043  
Cell: 832-212-0160  
Home: 713-939-1034  
www.karnoldconsulting.com

---

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** Wednesday, May 12, 2010 6:10 PM  
**To:** Ken Arnold  
**Subject:** RE: Thank you Ken and further engagement

Thanks Ken. Steve was in Houston today and we are scheduled to discuss this tomorrow. I will get back in touch.

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Ken Arnold [mailto:karnold@karnoldconsulting.com]  
**Sent:** Wednesday, May 12, 2010 7:06 PM  
**To:** Kemkar, Neal  
**Subject:** RE: Thank you Ken and further engagement

Neal

I left a phone message last night. I can be reached on my cell phone if you need me.

Ken

Kenneth E. (Ken) Arnold  
K Arnold Consulting, Inc.  
3031 Shadowdale  
Houston, TX 77043  
Cell: 832-212-0160  
Home: 713-939-1034  
www.karnoldconsulting.com

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** Tuesday, May 11, 2010 5:35 PM  
**To:** karnold@karnoldconsulting.com  
**Cc:** Black, Steve; Hanley, Kallie; Ishee, Mary Katherine  
**Subject:** Thank you Ken and further engagement

Ken – thanks again for sharing your thoughts with us on the phone. Very helpful set of ideas you presented. I just mentioned this in more detail on a voicemail at your office number to the same effect, but I'd like to speak with you further about your engagement on this project when you have a moment. Please call me at your earliest convenience at the below number.

Thanks,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Kemkar, Neal  
**To:** Ken Arnold;  
**cc:** Black, Steve;  
**Subject:** CONFIDENTIAL 30-Day Safety Report Documents for Ken Arnold  
**Date:** Tuesday, May 18, 2010 2:23:38 PM  
**Attachments:** DRAFT JITF Recommendations.pdf  
65-2\_e1.pdf  
IADC HSE Case Guidelines-MODU Offshore.pdf  
100516 Candidate Recommendations.doc

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**DRAFT – PREDECISIONAL  
CONTAINS INTERAGENCY DELIBERATIVE PROCESS INFORMATION  
These documents may not be disclosed under FOIA**

Ken –

Thank you for returning signed confidentiality and non-disclosure agreements. These documents are covered by that agreement.

Further to our conversation and request below, kindly review and be prepared to comment on the attached draft safety recommendations. These proposed recommendations are compiled from several sources. They are organized in four major topic categories, and they are formatted to show clearly some specific additional recommendations from the Department of Energy (DOE).

In addition, please see the attached draft recommendations from the API task forces. Please do not distribute without permission from API.

Also included for reference are IADC safety case in full, and the draft API report (Isolating Potential Flow Zones During Well Construction API RECOMMENDED PRACTICE 65—PART 2 FIRST EDITION, MAY 2010) that Steve mentioned on this morning's call.

Please contact one of us if you have any questions. Thanks for your assistance.

Neal

**From:** Kemkar, Neal  
**To:** Ken Arnold;  
**cc:** Black, Steve;  
**Subject:** RE: CONFIDENTIAL 30-Day Safety Report Documents for Ken Arnold  
**Date:** Tuesday, May 18, 2010 4:14:04 PM  
**Attachments:** API comparison of safety case bridging document to the well construction interfacing document.doc

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**DRAFT – PREDECISIONAL**  
**CONTAINS INTERAGENCY DELIBERATIVE PROCESS INFORMATION**  
These documents may not be disclosed under FOIA

Ken –

As promised, attached is more language from API on the safety case bridging document comparison to the other document they propose, which they call a “well construction interfacing document.” For cross reference, there is a good visual document explaining this document on page 7 of the API document we send you earlier this afternoon.

Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Kemkar, Neal  
**Sent:** Tuesday, May 18, 2010 2:24 PM  
**To:** 'Ken Arnold'  
**Cc:** Black, Steve  
**Subject:** CONFIDENTIAL 30-Day Safety Report Documents for Ken Arnold  
**Importance:** High

**DRAFT – PREDECISIONAL**  
**CONTAINS INTERAGENCY DELIBERATIVE PROCESS INFORMATION**  
These documents may not be disclosed under FOIA

Ken –

Thank you for returning signed confidentiality and non-disclosure agreements. These documents are covered by that agreement.

Further to our conversation and request below, kindly review and be prepared to comment on the attached draft safety recommendations. These proposed recommendations are compiled from several sources. They are organized in four major topic categories, and they are formatted to show clearly some specific additional recommendations from the Department of Energy (DOE).

In addition, please see the attached draft recommendations from the API task forces. Please do not distribute without permission from API.

Also included for reference are IADC safety case in full, and the draft API report (Isolating Potential Flow Zones During Well Construction API RECOMMENDED PRACTICE 65—PART 2 FIRST EDITION, MAY 2010) that Steve mentioned on this morning's call.

Please contact one of us if you have any questions. Thanks for your assistance.

Neal

**From:** Kemkar, Neal  
**To:** Ken Arnold;  
**cc:** Black, Steve; Ishee, Mary Katherine;  
**Subject:** Latest Copy of SEMS rule for your review  
**Date:** Thursday, May 20, 2010 5:40:07 PM  
**Attachments:** AD15 Final Rule 5-18-10 (WC merge).doc

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**CONFIDENTIAL/ DO NOT FORWARD**

Ken – As discussed, please review the latest copy of the SEMS rule we will propose.

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Kemkar, Neal  
**To:** Ken Arnold;  
**cc:** Black, Steve; Ishee, Mary Katherine;  
Hanley, Kallie;  
**Subject:** FINAL 30-DAY SAFETY REPORT  
**Date:** Thursday, May 27, 2010 1:55:26 PM  
**Attachments:** Interim Measures Report 100527 FINAL.pdf  
30day report transmittal letter.pdf

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Ken – Final report and transmittal letter are attached, with thanks from the Secretary and the whole team. We will be in touch shortly about next steps.

Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Per Holand  
**To:** Hanley, Kallie;  
**cc:** McCammon, Joanne; Black, Steve; Ishee, Mary Katherine; Hauser, William; Einar Molnes;  
**Subject:** RE: Email message from Per Holand  
**Date:** Monday, May 10, 2010 9:14:04 AM

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Kallie

Thanks for the E-mail.

I would be very pleased to assist you on this matter. I do however not know what type of assistance you are seeking at the present time.

From the top of my head I have listed some different tasks where I can contribute;

- Participate in incident investigation, with focus on the BOP problems, and put these problems in a perspective of the previous BOP reliability results and ensure that lessons learned are reflected in the proposed revision of the regulations.
- Highlight and justify important BOP reliability matters that after this incident should be reflected in proposed revision of the regulations. This would primarily be based on earlier studies related to BOP reliability, typically;
  - Acoustic backup systems
  - Alternative hydraulic access points on the BOP stack that can be accessed by ROVs
  - Two blind shear rams in subsea BOP stack
  - More explicit demands related to redundancy in the yellow and blue pod
  - Blind shear rams on fixed installations
  - Etc
- Investigation of subsea BOP control systems used for several rigs in the US GoM. This is based on the findings in the previous BOP study that showed some of the multiplex control systems had weak points in the hydraulics system that could cause the total loss of BOP control.
- Investigate present reliability status of subsea BOPs (comprehensive study like the study in 1999). This could be a JIP inviting deepwater operators from the US GoM OCS and other areas to participate.
- Blowout probability analysis based on blowout experience in North Sea and US GoM since 1980. This to enlighten and quantify experienced risk in the oil and gas industry to put the incident in perspective.

There are probably other areas where I also may be able to assist. If you need my assistance I will put other activities aside and give you the priority.

Below my signature I briefly described some of my background related to BOPs and blowouts.

Best regards

**Per Holand**

Senior Consultant, Ph.D.

**ExproSoft AS**

Location: Prof. Brochs gt. 2, Trondheim, Norway

Mail address: N-7465 Trondheim, Norway

Office phone: (+47) 73 20 04 08

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Mail to: [per.holand@exprosoft.com](mailto:per.holand@exprosoft.com)

Web: [www.exprosoft.com](http://www.exprosoft.com)

*A bit about my background:*

*I am currently a senior risk and reliability consultant with ExproSoft – a Norwegian company specializing on risk and reliability assessment for the oil and gas industry.*

*As Bill probably told you I worked with the MMS approximately 10 years ago, analyzing deepwater subsea BOP reliability and deepwater kicks. These studies resulted in two reports (Tar project 319 and 383). The 319 project was also reported in a SPE paper (SPE 66186). These three documents are in the public domain, so findings in these studies have been available for the Worldwide oil and gas industry. Prior to the work for MMS I had worked with BOP reliability in several studies, mostly for operators in the North Sea, but also for the Norwegian Petroleum Directorate, Petrobras (Brazilian) and Agip (Italian)*

*Since 1990 I have been responsible for the SINTEF Offshore Blowout Database. When I left SINTEF in 2001 I was subcontracted by SINTEF to continue the work with the blowout database. This database is the basis for all blowout related risk analyses that are carried out here in Norway. It is also used in other areas of the*

world.

*I have used the above knowledge in a variety of studies for operators when analyzing various BOP concepts, blowout risk for certain area and other studies. Results from such studies are typically;*

- *Mapping of the risk*
- *Recommendations to reduce the risk*
- *Recommendations to increase the efficiency*

---

**From:** Hanley, Kallie [mailto:[Kallie\\_Hanley@ios.doi.gov](mailto:Kallie_Hanley@ios.doi.gov)]

**Sent:** 7. mai 2010 23:52

**To:** Per Holand

**Cc:** McCammon, Joanne JMc; Black, Steve; Ishee, Mary Katherine; Hauser, William

**Subject:** RE: Email message from Per Holand

Per

I work with Bill Hauser. Please contact me so we can set something up.

Best Regards,

Kallie

Kallie Hanley

Office of the White House Liaison

The U.S. Department of the Interior

202-208-5397 (desk)

202-374-7694 (cell)

[kallie\\_hanley@ios.doi.gov](mailto:kallie_hanley@ios.doi.gov)

---

**From:** Hauser, William [mailto:[William.Hauser@mms.gov](mailto:William.Hauser@mms.gov)]

**Sent:** Friday, May 07, 2010 5:27 PM

**To:** Ishee, Mary Katherine; Black, Steve

**Cc:** Hanley, Kallie; McCammon, Joanne JMc

**Subject:** Email message from Per Holand

William Hauser  
Acting Chief, Office of Offshore Regulatory Programs  
Offshore Energy and Minerals Management  
Minerals Management Service  
Department of the Interior  
703 787-1613  
[william.hauser@mms.gov](mailto:william.hauser@mms.gov)

---

**From:** Per Holand [mailto:Per.Holand@exprosoft.com]  
**Sent:** Wednesday, April 28, 2010 12:51 AM  
**To:** Hauser, William  
**Subject:** BOPs and Blowouts

Bill,

The last week blowout in the US GoM was not what we wanted. Beside the tragic loss of lives, I assume that this will make it more difficult to drill in more vulnerable areas in the US as well as it also will be here in Norway. There is presently a big political and public debate related to drilling in the Norwegian Lofoten area (west of the northern part of Norway).

This is the first drilling blowout with a major spill in the US OCS area, Norwegian waters and UK waters since 1980.

Since I still am dealing with blowouts and BOPs I also have a professional interest in the incident.

Firstly, I am curious to find out what really happened on Deepwater Horizon. As always in such accidents there are several contributing causes that affect the development of an incident, both human and technical aspects. I do only have access to the public information, and from that information it seems that a malfunctioning BOP have played a major role.

As I understand they have taken a kick, but not been able to close the BOP. Since the riser was holding the rig in place and that the flow came through the riser it does not seem that the loss of BOP control is related to the riser attached control or hydraulic lines. I then suspect that there may have been a hydraulic leak subsea that has affected the operability of both pods. In the study I carried out for you in the late 90-ties some of the multiplex system had some weaknesses in the hydraulic system. It may also be software related or design related.

As you know in Norway it is mandatory to have an acoustic back-up system for subsea BOPs. I think it is mandatory in Canada as well. It is also frequently used in Brazil and in the UK, but I do not know if it is mandatory. As I understand an acoustic backup system could have been used to stop the flow. In my opinion acoustic backup systems also should have been mandatory in the US as well, especially for DP rigs.

Are you able to confirm some of my assumptions?

I assume that there will be a thorough investigation after this incident. I am still responsible for the SINTEF Offshore Blowout Database, although it is 9 years since I left SINTEF. If there is any need for any studies related to historic blowout occurrences I may assist you. Further, this incident may make people wonder how reliable the subsea BOPs are. I have not done any comprehensive study since I worked for you the last time. I have not seen any results from the West Engineering study that was launched by the US industry in 2007. I would be interested in more or less repeating the 1999 study. It should be possible to involve other areas as Norway, UK and Brazil as well.

Please let me know if this is of any further interest.

Best regards

**Per Holand**

Senior Consultant, Ph.D.

**ExproSoft AS**

Location: Prof. Brochs gt. 2, Trondheim, Norway

Mail address: N-7465 Trondheim, Norway

Office phone: (+47) 73 20 04 08

Mobile phone: (+47) 93 20 55 41

Mail to: [per.holand@exprosoft.com](mailto:per.holand@exprosoft.com)

Web: [www.exprosoft.com](http://www.exprosoft.com)

**From:** Elmer Danenberger  
**To:** Kemkar, Neal;  
**Subject:** RE: Thank you Bud and further engagement  
**Date:** Tuesday, May 11, 2010 7:12:05 PM

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Thanks Neal. I enjoyed talking to you.

I received your message and will call you tomorrow morning if that is okay. I have a telecon with some Canadian regulators at 0900. I could call you before that at 0830 or after at 1000. If I don't hear from you otherwise, I will call at 1000.

bud

---

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** Tuesday, May 11, 2010 6:27 PM  
**To:** edanenberger@[REDACTED]  
**Cc:** Black, Steve; Hanley, Kallie; Ishee, Mary Katherine  
**Subject:** Thank you Bud and further engagement

Bud – thanks very much for coming to share your thoughts with us earlier this afternoon. Very impressive and very helpful set of ideas you presented. I just mentioned this in more detail on a voicemail at your home number to the same effect, but I'd like to speak with you further about your engagement on this project when you have a moment. Please call me at your earliest convenience at the below number.

Thanks,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Ford Brett  
**To:** Blair, Peter;  
**cc:** Kemkar, Neal; Hanley, Kallie; Black, Steve;  
**Subject:** Re: U.S. Department of Interior Reviews of Deepwater Horizon Incident  
**Date:** Wednesday, May 12, 2010 8:10:14 AM

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Dr Blair -

I would be honored to participate - I'd certainly do my best to help understand the cause, and how to prevent regrettable incidents like this in the future.

Please let me know how I may be able to help.

Sincerely,

Ford Brett

(m) +1 918 408 9516

On May 12, 2010, at 6:34 AM, "Blair, Peter" <PBlair@nas.edu> wrote:

> Dear Mr. Brett:

>  
>  
>

> I am writing to alert you that you may be asked by the U.S.  
> Department of Interior (DOI), Office of the Secretary, to provide  
> brief but important service with regard to the Department's  
> formulation of an early action plan in response to the oil blowout  
> at Deepwater Horizon.

>  
>  
>

> As you are no doubt now aware, the oil well blowout at Deepwater  
> Horizon has generated many questions about offshore drilling safety  
> and blowout prevention. In the wake of the incident, The Offshore  
> Drilling Interim Safety Measures Report ("30-Day Safety Report")  
> ordered by President Obama on April 30, 2010, requests Interior Sec  
> etary Salazar to review and report what, if any, additional precauti  
> ons and technologies should be required to prevent accidents like th  
> e Deepwater Horizon incident from happening again. The Report will  
> include a discussion of known legal and regulatory requirements as w  
> ell as current industry practices. It will focus on recommendations

> for interim measures that will increase offshore drilling safety, including but not limited to engineering and operating practices aimed at reducing the chance of a future blowout and the appropriate testing and operation of backup safety equipment such as blowout preventers. The Report will also include an action plan for moving forward on achieving increased offshore drilling safety in the near term, including suggested additional study. This Report is not a full investigation of the incident—such an investigation will be undertaken jointly by the Minerals Management Service and U.S. Coast Guard and Secretary Salazar intends to commission an independent technical assessment by the National Academy of Engineering (NAE).

>  
>  
>

> In the course of preliminary discussions directed toward commissioning the NAE assessment, DOI officials asked that we at the Academy identify a number of recognized academic and industry experts in the relevant fields to (1) discuss informally with DOI officials the current state of the art of offshore drilling safety and blowout protection and the degree to which such practices are currently in use in the U.S. and incorporated broadly into industry best practices, and (2) to vet, again informally, a series of proposed recommendations the department is formulating that would be included in the 30-Day Safety Report. After reviewing who was involved in ongoing related Academy activities and consultation with many colleagues, we generated a list of recommended experts, including you. Although this discussion will be convened directly by the Office of the Secretary of the Interior, not by the National Academies, we have recommended that the DOI consider you as a discussant. In the coming days DOI officials copied on this message will be following up directly with you to explore your availability. Whether you agree to help DOI or not is, of course, entirely up to you, but if you are available, I hope you will give serious consideration to participating.

>  
>  
>

> With best wishes,

>  
>  
>

> Peter D. Blair, Ph.D.

>

> Executive Director

- >
- > Division on Engineering and Physical Sciences
- >
- > The National Academies
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- > 500 Fifth Street, N.W.
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- > Email: [pblair@nas.edu](mailto:pblair@nas.edu); Tel: 202-334-2400; Fax: 202-334-3373
- >
- >

**From:** Bob Bea  
**To:** Blair, Peter;  
**cc:** Kemkar, Neal; Hanley, Kallie; Black, Steve; Roxanne Makasdjian;  
Sarah Yang; Karlene Roberts;  
**Subject:** Re: U.S. Department of Interior Reviews of Deepwater Horizon Incident  
**Date:** Wednesday, May 12, 2010 9:39:33 AM

---

Happy Wednesday Peter.

Thank you for the invitation. I will be pleased to serve as a discussant.

As this very important process continues to develop, I will be pleased to help when, where, and how I can be most effective. I and my colleagues in academia, industry, and government see this disaster as a very important opportunity to help this vital public - governmental - industrial - environmental enterprise take major steps forward to continue to develop this precious natural resource in ways that meet our stewardship responsibilities.

Earlier this year, the University of California granted me a sabbatical leave for the 2010 Fall semester. Currently, we are concluding our 2010 Spring semester. Thus I will be on academic leave during the period May 16 through January 18, 2011. This academic leave period will make available much more time for me to help with this important work.

During the early days following the initiation of our investigation of the failures of the flood protection system for the Greater New Orleans Area, we formed the Center for Catastrophic Risk Management (CCRM) at the University of California, Berkeley ( <http://ccrm.berkeley.edu/> ). CCRM served as the home for our 2 year National Science Foundation (NSF) sponsored Independent Levee Investigation Team activities. CCRM is a collation of highly qualified interdisciplinary academics and practitioners. During the past 2 years, members of this group have focused on a NSF research project on development of advanced Risk Assessment and Management (RAM) based approaches to enhance the resilience and sustainability of California's Sacramento and San Joaquin Delta infrastructure systems ( <http://ccrm.berkeley.edu/resin/> ).

Shortly after I became engaged in this disaster (7 PM April 20th by former students engaged in all parts of the Gulf Coast oil and gas industry), I turned to my CCRM colleagues and asked for their help. The present director of CCRM, Professor Karlene Roberts (career expert in High

Reliability Organizations), has agreed to help form that group. Karlene and I have served as RAM consultants to the international oil and gas industry, including British Petroleum and the U.S. Minerals Management Service. Also, I have asked my colleagues in the international oil and gas industry for their help. Many of these colleagues have agreed to help with this work. This group is being formed to support our research to help investigate causes for the failures and successes associated with the Deepwater Horizon drilling unit and the subsequent containment and clean-up operations. As in the case of our investigation of the Hurricane Katrina flood protection failures, we plan to address ways to help improve our stewardship responsibilities for U.S. offshore oil and gas resources. Again, we are turning to the NSF to provide funds to help defray expenses associated with this work.

Sincerely,

Bob Bea

---

Blair, Peter wrote:

Dear Dr. Bea:

I am writing to alert you that you may be asked by the U.S. Department of Interior (DOI), Office of the Secretary, to provide brief but important service with regard to the Department's formulation of an early action plan in response to the oil blowout at Deepwater Horizon.

As you are no doubt now aware, the oil well blowout at Deepwater Horizon has generated many questions about offshore drilling safety and blowout prevention. In the wake of the incident, The Offshore Drilling Interim Safety Measures Report ("30-Day Safety Report") ordered by President Obama on April 30, 2010, requests Interior Secretary Salazar to review and report what, if any, additional precautions and technologies should be required to prevent accidents like the Deepwater Horizon incident from happening again. The Report will include a discussion of known legal and regulatory requirements as well as current industry practices. It will

focus on recommendations for interim measures that will increase offshore drilling safety, including but not limited to engineering and operating practices aimed at reducing the chance of a future blowout and the appropriate testing and operation of backup safety equipment such as blowout preventers. The Report will also include an action plan for moving forward on achieving increased offshore drilling safety in the near term, including suggested additional study. This Report is not a full investigation of the incident—such an investigation will be undertaken jointly by the Minerals Management Service and U.S. Coast Guard and Secretary Salazar intends to commission an independent technical assessment by the National Academy of Engineering (NAE).

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With best wishes,

Peter D. Blair, Ph.D.  
Executive Director  
Division on Engineering and Physical Sciences  
The National Academies  
500 Fifth Street, N.W.

Washington, DC 20001

Email: [pblair@nas.edu](mailto:pblair@nas.edu); Tel: 202-334-2400; Fax: 202-334-3373

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Professor Robert Bea, PhD, PE  
Department of Civil & Environmental Engineering  
212 McLaughlin Hall  
University of California Berkeley  
Berkeley, CA 94720-1710  
Telephone/fax 510-642-0967  
Telefax 510-643-8919  
Email: [bea@ce.berkeley.edu](mailto:bea@ce.berkeley.edu)

Home Office  
Risk Assessment & Management Services  
60 Shuey Drive  
Moraga, California 94556  
Telephone 925-631-1587  
Cell 925-699-3503  
Email: [BeaRAMS@](mailto:BeaRAMS@) 

**From:** Arnold Stancell  
**To:** Blair, Peter;  
**cc:** Kemkar, Neal; Hanley, Kallie; Black, Steve;  
**Subject:** Re: U.  
S. Department of Interior Reviews of Deepwater Horizon Incident  
**Date:** Wednesday, May 12, 2010 10:40:56 AM

---

Dear Peter,

I look forward to hearing from DOI.

Best regards,  
Arnold

----- Original Message -----

**From:** Blair, Peter

**To:** 'acstancell@' [REDACTED]

**Cc:** 'Kemkar, Neal'; Hanley, Kallie; Black, Steve

**Sent:** Wednesday, May 12, 2010 7:37 AM

**Subject:** RE: U.S. Department of Interior Reviews of Deepwater Horizon Incident

Dear Arnold:

I am writing to alert you that you may be asked by the U.S. Department of Interior (DOI), Office of the Secretary, to provide brief but important service with regard to the Department's formulation of an early action plan in response to the oil blowout at Deepwater Horizon.

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plan for moving forward on achieving increased offshore drilling safety in the near term, including suggested additional study. This Report is not a full investigation of the incident—such an investigation will be undertaken jointly by the Minerals Management Service and U.S. Coast Guard and Secretary Salazar intends to commission an independent technical assessment by the National Academy of Engineering (NAE).

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With best wishes,

Peter D. Blair, Ph.D.  
Executive Director  
Division on Engineering and Physical Sciences  
The National Academies  
500 Fifth Street, N.W.  
Washington, DC 20001  
Email: [pblair@nas.edu](mailto:pblair@nas.edu); Tel: 202-334-2400; Fax: 202-334-3373

**From:** Juvkam-Wold, Hans  
**To:** Blair, Peter;  
**cc:** Kemkar, Neal; Hanley, Kallie; Black, Steve;  
**Subject:** RE: U.S. Department of Interior Reviews of Deepwater Horizon Incident  
**Date:** Wednesday, May 12, 2010 12:30:55 PM

---

Dear All,

I retired from Texas A&M in August, 2009 after 24 years of teaching drilling engineering to undergraduate and graduate students, and doing research in many areas of drilling, including well design, well control and blowout prevention, from on-shore to deepwater. Prior to joining Texas A&M I worked for Gulf Oil Corporation for more than 20 years.

The easiest way to contact me is usually by email, since I am not always close to a phone.

Office: [juvkam-wold@tamu.edu](mailto:juvkam-wold@tamu.edu) 979-845-4093  
Home: [REDACTED] [REDACTED]

My educational background includes SB, SM and ScD degrees in Mechanical Engineering from MIT. I have written dozens of papers on drilling and have seven patents, including four on deepwater drilling.

Since I am now a Professor Emeritus at Texas A&M I usually have a lot of time available, and I would be more than happy to contribute to making deepwater drilling more safe. However, I will be outside the US from May 20 to June 7 and again from July 9 to July 20. During that time I'll be checking my email daily. Outside of any regularly scheduled meetings I'll still be available to review and provide comments on draft recommendations. I would like to help and believe that I have a lot to offer.

Hans Juvkam-Wold

**From:** Blair, Peter [mailto:PBlair@nas.edu]  
**Sent:** Wednesday, May 12, 2010 6:36 AM  
**To:** Juvkam-Wold, Hans  
**Cc:** 'Kemkar, Neal'; Hanley, Kallie; Black, Steve  
**Subject:** RE: U.S. Department of Interior Reviews of Deepwater Horizon Incident

Dear Juvkam-Wold:

I am writing to alert you that you may be asked by the U.S. Department of Interior (DOI), Office of the Secretary, to provide brief but important service with regard to the Department's formulation of an early action plan in response to the oil blowout at Deepwater Horizon.

As you are no doubt now aware, the oil well blowout at Deepwater Horizon has generated many questions about offshore drilling safety and blowout prevention. In the wake of the incident, The Offshore Drilling Interim Safety Measures Report ("30-Day Safety Report") ordered by President Obama on April 30, 2010, requests Interior Secretary Salazar to review and report what, if any, additional precautions and technologies should be required to prevent accidents like the Deepwater Horizon incident from happening again. The Report will include a discussion of known legal and regulatory requirements as well as current industry practices. It will focus on recommendations for interim measures that will increase offshore drilling safety, including but not limited to engineering and operating practices aimed at reducing the chance of a future blowout and the appropriate testing and operation of backup safety equipment such as blowout preventers. The Report will also include an action plan for moving forward on achieving increased offshore drilling safety in the near term, including suggested additional study. This Report is not a full investigation of the incident—such an investigation will be undertaken jointly by the Minerals Management Service and U.S. Coast Guard and Secretary Salazar intends to commission an independent technical assessment by the National Academy of Engineering (NAE).

In the course of preliminary discussions directed toward commissioning the NAE assessment, DOI officials asked that we at the Academy identify a number of recognized academic and industry experts in the relevant fields to (1) discuss informally with DOI officials the current state of the art of offshore drilling safety and blowout protection and the degree to which such practices are currently in use in the U.S. and incorporated broadly into industry best practices, and (2) to vet, again informally, a series of proposed recommendations the department is formulating that would be included in the 30-Day Safety Report. After reviewing who was involved in ongoing related Academy activities and consultation with many colleagues, we generated a list of recommended experts, including you. Although this discussion will be convened directly by the Office of the Secretary of the Interior, not by the National Academies, we have recommended that the DOI consider you as a discussant. In the coming days DOI officials copied on this message will be following up directly with you to explore your availability. Whether you agree to help DOI or not is, of course, entirely up to you, but if you are available, I hope you will give serious consideration to participating.

With best wishes,

Peter D. Blair, Ph.D.

Executive Director

Division on Engineering and Physical Sciences

The National Academies

500 Fifth Street, N.W.

Washington, DC 20001

Email: [pblair@nas.edu](mailto:pblair@nas.edu); Tel: 202-334-2400; Fax: 202-334-3373

**From:** Ken Arnold  
**To:** Kemkar, Neal;  
**Subject:** RE: Thank you Ken and further engagement  
**Date:** Wednesday, May 12, 2010 7:05:45 PM

---

Neal

I left a phone message last night. I can be reached on my cell phone if you need me.

Ken

Kenneth E. (Ken) Arnold  
K Arnold Consulting, Inc.  
3031 Shadowdale  
Houston, TX 77043  
Cell: 832-212-0160  
Home: 713-939-1034  
[www.karnoldconsulting.com](http://www.karnoldconsulting.com)

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**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** Tuesday, May 11, 2010 5:35 PM  
**To:** karnold@karnoldconsulting.com  
**Cc:** Black, Steve; Hanley, Kallie; Ishee, Mary Katherine  
**Subject:** Thank you Ken and further engagement

Ken – thanks again for sharing your thoughts with us on the phone. Very helpful set of ideas you presented. I just mentioned this in more detail on a voicemail at your office number to the same effect, but I'd like to speak with you further about your engagement on this project when you have a moment. Please call me at your earliest convenience at the below number.

Thanks,  
Neal

Neal Kemkar  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Hanley, Kallie  
**To:** Juvkam-Wold, Hans; juvkamwold@gmail.com;  
**cc:** Kemkar, Neal; Black, Steve; Blair, Peter;  
**Subject:** RE: U.S. Department of Interior Reviews of Deepwater Horizon Incident  
**Date:** Wednesday, May 12, 2010 7:27:30 PM

---

Mr. Juvkam-Wold

Thank you for your willingness to participate and share your depth of knowledge. We will be in touch soon.

Thanks,

**Kallie Hanley**  
Office of the White House Liaison  
The U.S. Department of the Interior  
desk: (202) 208-5397 | cell: (202) 374-7694  
[kallie\\_hanley@ios.doi.gov](mailto:kallie_hanley@ios.doi.gov)

---

**From:** Juvkam-Wold, Hans [mailto:juvkam-wold@pe.tamu.edu]  
**Sent:** Wednesday, May 12, 2010 12:30 PM  
**To:** Blair, Peter  
**Cc:** Kemkar, Neal; Hanley, Kallie; Black, Steve  
**Subject:** RE: U.S. Department of Interior Reviews of Deepwater Horizon Incident

Dear All,

I retired from Texas A&M in August, 2009 after 24 years of teaching drilling engineering to undergraduate and graduate students, and doing research in many areas of drilling, including well design, well control and blowout prevention, from on-shore to deepwater. Prior to joining Texas A&M I worked for Gulf Oil Corporation for more than 20 years.

The easiest way to contact me is usually by email, since I am not always close to a phone.

Office: [juvkam-wold@tamu.edu](mailto:juvkam-wold@tamu.edu) 979-845-4093  
Home: [REDACTED] [REDACTED]

My educational background includes SB, SM and ScD degrees in Mechanical Engineering from MIT. I have written dozens of papers on drilling and have seven patents, including four on deepwater drilling.

Since I am now a Professor Emeritus at Texas A&M I usually have a lot of time available, and I would be more than happy to contribute to making deepwater drilling more safe. However, I will be outside the US from May 20 to June 7 and again from July 9 to July 20. During that time I'll be checking my email daily. Outside of any regularly scheduled meetings I'll still be available to review and provide comments on draft recommendations. I would like to help and believe that I have a lot to offer.

Hans Juvkam-Wold

**From:** Blair, Peter [mailto:PBlair@nas.edu]  
**Sent:** Wednesday, May 12, 2010 6:36 AM  
**To:** Juvkam-Wold, Hans  
**Cc:** 'Kemkar, Neal'; Hanley, Kallie; Black, Steve  
**Subject:** RE: U.S. Department of Interior Reviews of Deepwater Horizon Incident

Dear Juvkam-Wold:

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National Academy of Engineering (NAE).

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With best wishes,

Peter D. Blair, Ph.D.  
Executive Director  
Division on Engineering and Physical Sciences  
The National Academies  
500 Fifth Street, N.W.  
Washington, DC 20001  
Email: pblair@nas.edu; Tel: 202-334-2400; Fax: 202-334-3373

**From:** Bob Bea  
**To:** Hanley, Kallie;  
**cc:** Blair, Peter; Kemkar, Neal; Black, Steve; Roxanne Makasdjian; Sarah Yang; Karlene Roberts;  
**Subject:** Re: U.S. Department of Interior Reviews of Deepwater Horizon Incident  
**Date:** Friday, May 14, 2010 10:18:56 AM

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Happy Friday Kallie,

here is link to radio interview i did on development of the Deepwater Horizon blowout :

[http://www.webwiseforradio.com/site\\_files/244/File/INO\\_051210\\_H3.mp3](http://www.webwiseforradio.com/site_files/244/File/INO_051210_H3.mp3)

**please let me know as soon as you can if i could be useful next week on Wednesday or Thursday afternoon (Thursday morning now scheduled for another meeting).**

Bob Bea

Hanley, Kallie wrote:

Dr. Bea

Thank you for your willingness to participate and share your depth of knowledge. We will be in touch in the very near future.

Best,

Kallie Hanley  
Office of the White House Liaison  
The U.S. Department of the Interior  
desk: (202) 208-5397 | cell: (202) 374-7694  
[kallie\\_hanley@ios.doi.gov](mailto:kallie_hanley@ios.doi.gov)

**From:** Bob Bea [<mailto:bea@ce.berkeley.edu>]  
**Sent:** Wednesday, May 12, 2010 9:39 AM  
**To:** Blair, Peter  
**Cc:** Kemkar, Neal; Hanley, Kallie; Black, Steve; Roxanne Makasdjian; Sarah Yang; Karlene Roberts  
**Subject:** Re: U.S. Department of Interior Reviews of Deepwater Horizon Incident

Happy Wednesday Peter.

Thank you for the invitation. I will be pleased to serve as a discussant.

As this very important process continues to develop, I will be pleased to help when, where, and how I can be most effective. I and my colleagues in academia, industry, and government see this disaster as a very important opportunity to help this vital public - governmental - industrial - environmental enterprise take major steps forward to continue to develop this precious natural resource in ways that meet our stewardship responsibilities.

Earlier this year, the University of California granted me a sabbatical leave for the 2010 Fall semester. Currently, we are concluding our 2010 Spring semester. Thus I will be on academic leave during the period May 16 through January 18, 2011. This academic leave period will make available much more time for me to help with this important work.

During the early days following the initiation of our investigation of the failures of the flood protection system for the Greater New Orleans Area, we formed the Center for Catastrophic Risk Management (CCRM) at the University of California, Berkeley ( <http://ccrm.berkeley.edu/> ). CCRM served as the home for our 2 year National Science Foundation (NSF) sponsored Independent Levee Investigation Team activities. CCRM is a collation of highly qualified interdisciplinary academics and practitioners. During the past 2 years, members of this group have focused on a NSF research project on development of advanced Risk Assessment and Management (RAM) based approaches to enhance the resilience and sustainability of California's Sacramento and San Joaquin Delta infrastructure systems ( <http://ccrm.berkeley.edu/resin/> ).

Shortly after I became engaged in this disaster (7 PM April 20th by former students engaged in all parts of the Gulf Coast oil and gas industry), I turned to my CCRM colleagues and asked for their help. The present director of CCRM, Professor Karlene Roberts (career expert in High Reliability Organizations), has agreed to help form that group. Karlene and I have served as RAM consultants to the international oil and gas industry, including British Petroleum and the U.S. Minerals Management Service. Also, I have asked my colleagues in the international oil and gas industry for their help.

Many of these colleagues have agreed to help with this work. This group is being formed to support our research to help investigate causes for the failures and successes associated with the Deepwater Horizon drilling unit and the subsequent containment and clean-up operations. As in the case of our investigation of the Hurricane Katrina flood protection failures, we plan to address ways to help improve our stewardship responsibilities for U.S. offshore oil and gas resources. Again, we are turning to the NSF to provide funds to help defray expenses associated with this work.

Sincerely,

Bob Bea

---

Blair, Peter wrote:

Dear Dr. Bea:

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drilling safety in the near term, including suggested additional study. This Report is not a full investigation of the incident—such an investigation will be undertaken jointly by the Minerals Management Service and U.S. Coast Guard and Secretary Salazar intends to commission an independent technical assessment by the National Academy of Engineering (NAE).

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With best wishes,

Peter D. Blair, Ph.D.  
Executive Director  
Division on Engineering and Physical Sciences  
The National Academies  
500 Fifth Street, N.W.  
Washington, DC 20001  
Email: [pblair@nas.edu](mailto:pblair@nas.edu); Tel: 202-334-2400; Fax: 202-334-3373

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Professor Robert Bea, PhD, PE  
Department of Civil & Environmental Engineering  
212 McLaughlin Hall  
University of California Berkeley  
Berkeley, CA 94720-1710  
Telephone/fax 510-642-0967  
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60 Shuey Drive  
Moraga, California 94556  
Telephone 925-631-1587  
Cell 925-699-3503  
Email: [BeaRAMS@](mailto:BeaRAMS@) [REDACTED]

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Professor Robert Bea, PhD, PE  
Department of Civil & Environmental Engineering  
212 McLaughlin Hall  
University of California Berkeley  
Berkeley, CA 94720-1710  
Telephone/fax 510-642-0967  
Telefax 510-643-8919  
Email: [bea@ce.berkeley.edu](mailto:bea@ce.berkeley.edu)

Home Office  
Risk Assessment & Management Services  
60 Shuey Drive  
Moraga, California 94556  
Telephone 925-631-1587  
Cell 925-699-3503  
Email: [BeaRAMS@](mailto:BeaRAMS@) [REDACTED]

**From:** Ken Arnold  
**To:** Kemkar, Neal  
**Subject:** RE: Thank you Ken and further engagement  
**Date:** Friday, May 14, 2010 6:20:22 PM  
**Attachments:** KACI Ratesheet.doc

---

As discussed

Kenneth E. (Ken) Arnold  
K Arnold Consulting, Inc.  
3031 Shadowdale  
Houston, TX 77043  
Cell: 832-212-0160  
Home: 713-939-1034  
[www.karnoldconsulting.com](http://www.karnoldconsulting.com)

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** Wednesday, May 12, 2010 6:10 PM  
**To:** Ken Arnold  
**Subject:** RE: Thank you Ken and further engagement

Thanks Ken. Steve was in Houston today and we are scheduled to discuss this tomorrow. I will get back in touch.

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Ken Arnold [mailto:karnold@karnoldconsulting.com]  
**Sent:** Wednesday, May 12, 2010 7:06 PM  
**To:** Kemkar, Neal  
**Subject:** RE: Thank you Ken and further engagement

Neal

I left a phone message last night. I can be reached on my cell phone if you need me.

Ken

Kenneth E. (Ken) Arnold  
K Arnold Consulting, Inc.  
3031 Shadowdale  
Houston, TX 77043  
Cell: 832-212-0160  
Home: 713-939-1034  
[www.karnoldconsulting.com](http://www.karnoldconsulting.com)

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** Tuesday, May 11, 2010 5:35 PM  
**To:** karnold@karnoldconsulting.com  
**Cc:** Black, Steve; Hanley, Kallie; Ishee, Mary Katherine  
**Subject:** Thank you Ken and further engagement

Ken – thanks again for sharing your thoughts with us on the phone. Very helpful set of ideas you presented. I just mentioned this in more detail on a voicemail at your office number to the same effect, but I'd like to speak with you further about your engagement on this project when you have a moment. Please call me at your earliest convenience at the below number.

Thanks,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Elmer Danenberger  
**To:** Kemkar, Neal;  
**cc:** Black, Steve; Hanley, Kallie;  
Georg, Shanda;  
**Subject:** RE: Thank you Bud and further engagement  
**Date:** Friday, May 14, 2010 7:57:40 PM

---

Neal,

Because I am very cautious about contract and ethics issues, I spoke to the Contract Officer (CO) and requested her guidance. She asked that I not sign any documents until she has transmitted them for my consideration. She also advised that I should receive written ethics clearance (email from Ethics Officer is okay) before signing any documents.

Thanks.

Bud

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** Friday, May 14, 2010 7:14 PM  
**To:** Elmer Danenberger  
**Cc:** Black, Steve; Hanley, Kallie  
**Subject:** RE: Thank you Bud and further engagement

Bud – good to talk to you. Look forward to our collaboration.

As discussed, please review and return the attached non disclosure agreement.  
My return fax number is 202.208.4561

Thanks,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Elmer Danenberger [mailto:edanenberger@  
**Sent:** Tuesday, May 11, 2010 7:12 PM  
**To:** Kemkar, Neal

**Subject:** RE: Thank you Bud and further engagement

Thanks Neal. I enjoyed talking to you.

I received your message and will call you tomorrow morning if that is okay. I have a telecon with some Canadian regulators at 0900. I could call you before that at 0830 or after at 1000. If I don't hear from you otherwise, I will call at 1000.

bud

---

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** Tuesday, May 11, 2010 6:27 PM  
**To:** edanenberger@[REDACTED]  
**Cc:** Black, Steve; Hanley, Kallie; Ishee, Mary Katherine  
**Subject:** Thank you Bud and further engagement

Bud – thanks very much for coming to share your thoughts with us earlier this afternoon. Very impressive and very helpful set of ideas you presented. I just mentioned this in more detail on a voicemail at your home number to the same effect, but I'd like to speak with you further about your engagement on this project when you have a moment. Please call me at your earliest convenience at the below number.

Thanks,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Ken Arnold  
**To:** Kemkar, Neal;  
**Subject:** RE: Thank you Ken and further engagement  
**Date:** Friday, May 14, 2010 8:11:03 PM

---

I faxed it back to you but this was the first time I used my fax machine Let me know if you got it.

Kenneth E. (Ken) Arnold  
K Arnold Consulting, Inc.  
3031 Shadowdale  
Houston, TX 77043  
Cell: 832-212-0160  
Home: 713-939-1034  
[www.karnoldconsulting.com](http://www.karnoldconsulting.com)

---

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** Friday, May 14, 2010 6:16 PM  
**To:** Ken Arnold  
**Cc:** Black, Steve; Hanley, Kallie  
**Subject:** RE: Thank you Ken and further engagement

Thanks Ken – good to talk to you. Looking forward to our collaboration.

As discussed, please review and return the attached non disclosure agreement.  
My return fax number is 202.208.4561

Thanks,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

---

**From:** Ken Arnold [mailto:karnold@karnoldconsulting.com]  
**Sent:** Friday, May 14, 2010 6:20 PM  
**To:** Kemkar, Neal  
**Subject:** RE: Thank you Ken and further engagement

As discussed

Kenneth E. (Ken) Arnold  
K Arnold Consulting, Inc.  
3031 Shadowdale  
Houston, TX 77043  
Cell: 832-212-0160  
Home: 713-939-1034  
www.karnoldconsulting.com

---

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** Wednesday, May 12, 2010 6:10 PM  
**To:** Ken Arnold  
**Subject:** RE: Thank you Ken and further engagement

Thanks Ken. Steve was in Houston today and we are scheduled to discuss this tomorrow. I will get back in touch.

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

---

**From:** Ken Arnold [mailto:karnold@karnoldconsulting.com]  
**Sent:** Wednesday, May 12, 2010 7:06 PM  
**To:** Kemkar, Neal  
**Subject:** RE: Thank you Ken and further engagement

Neal

I left a phone message last night. I can be reached on my cell phone if you need me.

Ken

Kenneth E. (Ken) Arnold  
K Arnold Consulting, Inc.  
3031 Shadowdale  
Houston, TX 77043  
Cell: 832-212-0160

Home: 713-939-1034  
www.karnoldconsulting.com

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** Tuesday, May 11, 2010 5:35 PM  
**To:** karnold@karnoldconsulting.com  
**Cc:** Black, Steve; Hanley, Kallie; Ishee, Mary Katherine  
**Subject:** Thank you Ken and further engagement

Ken – thanks again for sharing your thoughts with us on the phone. Very helpful set of ideas you presented. I just mentioned this in more detail on a voicemail at your office number to the same effect, but I'd like to speak with you further about your engagement on this project when you have a moment. Please call me at your earliest convenience at the below number.

Thanks,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Hanley, Kallie  
**To:** Kemkar, Neal  
**Subject:** RE: RFQ N10PX18335 - Request for Quote - Deepwater Horizon Peer Review Support  
**Date:** Friday, May 14, 2010 8:23:53 PM

---

Yeah I saw. Nice.

Kallie Hanley  
Office of the White House Liaison  
The U.S. Department of the Interior  
desk: (202) 208-5397 | cell: (202) 374-7694  
[kallie\\_hanley@ios.doi.gov](mailto:kallie_hanley@ios.doi.gov)

**From:** Kemkar, Neal  
**Sent:** Friday, May 14, 2010 8:23 PM  
**To:** Hanley, Kallie  
**Subject:** Fw: RFQ N10PX18335 - Request for Quote - Deepwater Horizon Peer Review Support  
**Importance:** High

FYI

---

**From:** shanda.georg@aqd.nbc.gov <shanda.georg@aqd.nbc.gov>  
**To:** karnold@karnoldconsulting.com <karnold@karnoldconsulting.com>  
**Sent:** Fri May 14 20:22:31 2010  
**Subject:** RFQ N10PX18335 - Request for Quote - Deepwater Horizon Peer Review Support

Dear Mr. Arnold,

The department of Interior is interested in contracting with Ken Arnold Consulting, Inc. to obtain your expertise in the performance of a peer review of the Outer Continental Shelf Safety Oversight Board Report which will provide recommendations to the President of the United States Concerning the Deep Water event. This is a request for a Labor Hour Quote.

Attached is a statement of work for your consideration. Please provide a Firm Fixed price quote no later than Monday, 17th to me, at my email address: shanda.georg@aqd.nbc.gov.

I have also attached a non-disclosure form to be returned to me with the FFP quote. All documents are to be returned to the contracting officer.

This is a commercial acquisition, performed under Far Part 12 and in accordance with Far Part 13 Guidance.

FAR clauses 52.212-1; 52.212-2; 52.212-3; 52.212-4; and 52.212-5 apply.

Please reference RFQ Number N10PX18335 on your quote - The quote is to be submitted as a Labor Hour Quote.

If you have any questions, please put them in writing and send them to me and if i am unable to provide a response, I will forward to the program office for a response.

Should you need additional time please let me know. My contact information is below. I will be in the office on Saturday around 10:30 EST.

Best regards, shanda

Out of Office Schedule:

April: 21-23 Training

May: 24-27 Training

June: 1-14 Annual Leave

Shanda L. Georg  
Contracting Officer, Lead  
Acquisition Services Directorate  
National Business Center  
U.S. Dept. of the Interior  
381 Elden Street, Suite 4000  
Herndon VA 20170  
P: 703-964-4855 / F: 703-964-8477 or 8478  
C: 571-926-1127  
shanda.georg@aqd.nbc.gov  
[www.aqd.nbc.gov](http://www.aqd.nbc.gov)  
An ISO 9001 Certified Organization

We want to hear from you! Please let us know how we are doing in meeting your needs by taking a short survey at: <http://www.aqd.nbc.gov/survey>

**From:** Ford Brett  
**To:** Kemkar, Neal  
**Subject:** RE: U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Friday, May 14, 2010 9:41:48 PM

---

Neal –

I've signed the agreement and faxed it to you. The fax seemed to go thru from my end. Let me know if there was a problem.

Also, please let me know the number for the conference call.

In my work with the current National Academy of Engineering MMS offshore inspection Improvement project, I have disclosed possible or perceived conflicts. Briefly, my company (PetroSkills) offers some 200 technical courses in >1000 different sessions in the area of petroleum technology. The MMS and BP send participants to these courses. In 2009 the MMS accounted for 0.4% of our participants, and BP accounted for ~6% of our participants. BP and Chevron, however, have their own 'drilling training alliance' and do not materially participate in our drilling training programs. I'll be happy to provide more information if you would like.

Thank you for the opportunity to help on this matter, and I will do my best to help.

Sincerely,

Ford Brett

**PetroSkills**

(o) +1 918 828 2511 (*I pick up messages frequently*)

(m) +1 918 408 9516 (*works in most of world*)

Skype Ford.Brett

or call Rozanne at +1 918 828 2505

[www.PetroSkills.com](http://www.PetroSkills.com)

---

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** Friday, May 14, 2010 6:50 PM  
**To:** 'acstancell@██████████'; 'hans.juvkam-wold@pe.tamu.edu'; 'per.holland@sintef.no'; 'bbaugh@radoil.com'; 'mechenevert@mail.utexas.edu'; Ford Brett; 'bea@ce.berkeley.edu'  
**Cc:** Black, Steve; Hanley, Kallie; pblair@nas.edu  
**Subject:** U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Importance:** High

As you heard from Dr. Peter Blair of the National Academies earlier this week, the U.S. Department of Interior (DOI) is preparing a report at the President's request which reviews and reports what, if any, additional precautions and technologies should be required to prevent accidents like the BP Oil Spill from happening again. The report is due to the President on May 28, 2010.

I am writing today to ask you to provide brief but important service in a peer review of our report on increased safety measures for energy development on the outer continental shelf.

As Dr. Blair indicated, we asked that the Academy identify a number of recognized academic and industry experts in the relevant fields to:

- (1) discuss informally with DOI officials the current state of the art of offshore drilling safety and blowout protection and the degree to which such practices are currently in use in the U.S. and incorporated broadly into industry best practices, and

(2) to vet, again informally, a series of proposed recommendations the department is formulating that would be included in this report. After reviewing who was involved in ongoing related Academy activities and consultation with many colleagues, Dr. Blair's team generated a list of recommended experts, including you.

Although this discussion will be convened directly by us here in the Office of the Secretary of the Interior, not by the National Academies, the Academies have recommended that the DOI consider you as a discussant.

We will convene a 90-minute conference call of all interested discussants at 5pm eastern time on Monday, May 17, 2010. The call will last until approximately 6:30pm.

If you are willing and available to participate, please sign and return the attached non-disclosure agreement either to this email to return fax number +1-202-208-4561 before 3pm eastern time on Monday, May 17.

If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Ken Arnold  
**To:** Georg, Shanda;  
**cc:** Kemkar, Neal;  
**Subject:** RE: RFQ N10PX18335 - Request for Quote - Deepwater Horizon Peer Review Support  
**Date:** Friday, May 14, 2010 9:57:31 PM  
**Attachments:** KACI Ratesheet.doc

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Shanda

Thank you for considering me for this very important and interesting assignment. However, I don't think it is appropriate to contract for professional engineering services on a fixed price basis. Indeed it may even violate Federal rules. Therefore, I must decline your kind offer to hire me.

Attached is a rate sheet for my services if you would like to reconsider.

For future reference please note the name of my company, K Arnold Consulting, Inc.

Ken

Kenneth E. (Ken) Arnold  
K Arnold Consulting, Inc.  
3031 Shadowdale  
Houston, TX 77043  
Cell: 832-212-0160  
Home: 713-939-1034  
[www.karnoldconsulting.com](http://www.karnoldconsulting.com)

**From:** shanda.georg@aqd.nbc.gov [mailto:shanda.georg@aqd.nbc.gov]  
**Sent:** Friday, May 14, 2010 7:23 PM  
**To:** karnold@karnoldconsulting.com  
**Subject:** RFQ N10PX18335 - Request for Quote - Deepwater Horizon Peer Review Support  
**Importance:** High

Dear Mr. Arnold,

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Attached is a statement of work for your consideration. Please provide a Firm Fixed price quote no later than Monday, 17th to me, at my email address: shanda.georg@aqd.nbc.gov.

I have also attached a non-disclosure form to be returned to me with the FFP quote. All documents are to be returned to the contracting officer.

This is a commercial acquisition, performed under Far Part 12 and in accordance with Far Part 13 Guidance.

FAR clauses 52.212-1; 52.212-2; 52.212-3; 52.212-4; and 52.212-5 apply.

Please reference RFQ Number N10PX18335 on your quote - The quote is to be submitted as a Labor Hour Quote.

If you have any questions, please put them in writing and send them to me and if I am unable to provide a response, I will forward to the program office for a response.

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Best regards, shanda

**Out of Office Schedule:**

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Shanda L. Georg  
Contracting Officer, Lead  
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[www.aqd.nbc.gov](http://www.aqd.nbc.gov)  
An ISO 9001 Certified Organization

We want to hear from you! Please let us know how we are doing in meeting your needs by taking a short survey at: <http://www.aqd.nbc.gov/survey>

**From:** Per Holand  
**To:** Kemkar, Neal;  
**cc:** Hanley, Kallie; Black, Steve;  
**Subject:** RE: U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Saturday, May 15, 2010 6:32:52 AM  
**Attachments:** Non-disclosure agreement signed by Per Holand.pdf

---

Neal

I am willing to be a peer reviewer. Please find enclosed the signed Non-disclosure agreement.

I can participate in the conference call on Monday 17<sup>th</sup> of May, it will be at 2300 Norwegian time.

If you instead want to contact me separately that is OK as well, but then it has to be on Tuesday 18<sup>th</sup> of May.

Best regards

**Per Holand**  
Senior Consultant, Ph.D.

**ExproSoft AS**  
Location: Prof. Brochs gt. 2, Trondheim, Norway  
Mail address: N-7465 Trondheim, Norway

Office phone: (+47) 73 20 04 08  
Mobile phone: (+47) 93 20 55 41  
Mail to: [per.holand@exprosoft.com](mailto:per.holand@exprosoft.com)  
Web: [www.exprosoft.com](http://www.exprosoft.com)

---

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** 15. mai 2010 01:54  
**To:** Per Holand  
**Cc:** Hanley, Kallie; Black, Steve  
**Subject:** FW: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Importance:** High

Per – good to talk to you earlier this week.

I recognize you are unlikely to make this conference call given the time difference but please work with Kallie to set up a separate 30 minute check-in call with Kallie and me if you are willing to be a peer reviewer as described below.

Thanks,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

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I am writing today to ask you to provide brief but important service in a peer review of our report on increased safety measures for energy development on the outer continental shelf.

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If you are willing and available to participate, please sign and return the attached non-disclosure agreement either to this email to return fax number +1-202-208-4561 before 3pm eastern time on Monday, May 17.

If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

**From:** Per Holand  
**To:** Kemkar, Neal  
**cc:** Hanley, Kallie; Black, Steve  
**Subject:** RE: U,  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Saturday, May 15, 2010 6:32:52 AM  
**Attachments:** Non-disclosure agreement signed by Per Holand.pdf

---

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Best regards

**Per Holand**  
Senior Consultant, Ph.D.

**ExproSoft AS**  
Location: Prof. Brochs gt. 2, Trondheim, Norway  
Mail address: N-7465 Trondheim, Norway

Office phone: (+47) 73 20 04 08  
Mobile phone: (+47) 93 20 55 41  
Mail to: [per.holand@exprosoft.com](mailto:per.holand@exprosoft.com)  
Web: [www.exprosoft.com](http://www.exprosoft.com)

---

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** 15. mai 2010 01:54  
**To:** Per Holand  
**Cc:** Hanley, Kallie; Black, Steve  
**Subject:** FW: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Importance:** High

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Thanks,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

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Best,  
Neal

**From:** Per Holand  
**To:** Kemkar, Neal;  
**cc:** Hanley, Kallie; Black, Steve;  
**Subject:** RE: U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Saturday, May 15, 2010 6:32:52 AM  
**Attachments:** Non-disclosure agreement signed by Per Holand.pdf

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Best regards

**Per Holand**  
Senior Consultant, Ph.D.

**ExproSoft AS**  
Location: Prof. Brochs gt. 2, Trondheim, Norway  
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Office phone: (+47) 73 20 04 08  
Mobile phone: (+47) 93 20 55 41  
Mail to: [per.holand@exprosoft.com](mailto:per.holand@exprosoft.com)  
Web: [www.exprosoft.com](http://www.exprosoft.com)

---

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** 15. mai 2010 01:54  
**To:** Per Holand  
**Cc:** Hanley, Kallie; Black, Steve  
**Subject:** FW: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Importance:** High

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Thanks,  
Neal

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Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

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If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

**From:** Juvkam-Wold, Hans  
**To:** Kemkar, Neal;  
**Subject:** RE: U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Saturday, May 15, 2010 2:44:03 PM  
**Attachments:** Non-Disclosure Agreement, Hans Juvkam-Wold.pdf

---

Neal,

The signed non-disclosure Agreement is attached.  
Please let me know if you need anything else.

Hans C. Juvkam-Wold, ScD, PE  
Professor Emeritus  
Texas A&M University

OFFICE: juvkam-wold@tamu.edu 979-845-4093  
HOME: [REDACTED] [REDACTED]

**From:** Ken Arnold  
**To:** Georg, Shanda;  
**cc:** Kemkar, Neal;  
**Subject:** RE: RFQ N10PX18335 - Request for Quote - Deepwater Horizon Peer Review Support  
**Date:** Saturday, May 15, 2010 3:16:32 PM  
**Attachments:** Deepwater SME Support SOW FINAL.pdf  
Peer Review - Consultant NonDisclosureAgtFINAL.pdf

---

Shanda

I am in agreement with the attached two documents with the exceptions listed below. Unfortunately there is no way I can attach an electronic signature and I will not have access to a fax for a few days. Neal has a signed copy of the disclosure form which was faxed to him yesterday.

Please note the following exceptions:

1. I cannot finish the review by May 16 as requested in the SOW. It will take me several days and perhaps as much as one week from receipt of the materials.
2. My charges will be in accordance with the attached rate sheet. For this project I will be the only one working on it and accordingly my hourly rate is \$200.
3. Please note the name of the company is K Arnold Consulting, Inc. and not Ken Arnold Consulting.

I can fax you the signature pages for both documents on Wednesday if that is OK.

Ken

Kenneth E. (Ken) Arnold  
K Arnold Consulting, Inc.  
3031 Shadowdale  
Houston, TX 77043  
Cell: 832-212-0160  
Home: 713-939-1034  
[www.karnoldconsulting.com](http://www.karnoldconsulting.com)

**From:** shanda.georg@aqd.nbc.gov [mailto:shanda.georg@aqd.nbc.gov]  
**Sent:** Saturday, May 15, 2010 9:50 AM  
**To:** Ken Arnold  
**Subject:** RE: RFQ N10PX18335 - Request for Quote - Deepwater Horizon Peer Review Support  
**Importance:** High

Neal,

My apologies. Please reconsider. - this request is on a labor hour basis - I miss-typed the info in two lines of the body of the letter, but the first sentence and last sentences were correct that indicated Labor Hour - it was a long day, however, if this had been issued as a ffp, it violates no rules - ffp is the preferred method of contracting for commercial items. I have attached the far site as an fyi for your comfort level: FAR 12.207. But again, due to the nature of the work, we are issuing this as a labor hour purchase order. Please let me know if you will provide a quote.

Revised and Corrected to indicate Labor Hour Quote May 15, 2010

Dear Mr. Arnold,

The department of Interior is interested in contracting with Ken Arnold Consulting, Inc. to obtain your expertise in the performance of a peer review of the Outer Continental Shelf Safety Oversight Board Report which will provide recommendations to the President of the United States Concerning the Deep Water event. This is a request for a Labor Hour Quote.

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If you have any questions, please put them in writing and send them to me and if I am unable to provide a response, I will forward to the program office for a response.

Should you need additional time please let me know. My contact information is below. I will be in the office on Saturday around 10:30 EST.

Best regards, shanda

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shanda.georg@aqd.nbc.gov  
[www.aqd.nbc.gov](http://www.aqd.nbc.gov)  
An ISO 9001 Certified Organization

We want to hear from you! Please let us know how we are doing in meeting your needs by taking a short survey at: <http://www.aqd.nbc.gov/survey>

From: "Ken Arnold" <karnold@kamoldconsulting.com>  
To: <shanda.georg@aqd.nbc.gov>  
Cc: "Kemkar, Neal" <Neal\_Kemkar@ios.doi.gov>  
Date: 05/14/2010 09:57 PM  
Subject: RE: RFQ N10PX18335 - Request for Quote - Deepwater Horizon Peer Review Support

---

Shanda

Thank you for considering me for this very important and interesting assignment. However, I don't think it is appropriate to contract for professional engineering services on a fixed price basis. Indeed it may even violate Federal rules. Therefore, I must decline your kind offer to hire me.

Attached is a rate sheet for my services if you would like to reconsider.

For future reference please note the name of my company, K Arnold Consulting, Inc.

Ken

Kenneth E. (Ken) Arnold  
K Arnold Consulting, Inc.

3031 Shadowdale  
Houston, TX 77043  
Cell: 832-212-0160  
Home: 713-939-1034  
[www.karnoldconsulting.com](http://www.karnoldconsulting.com)

**From:** shanda.georg@aqd.nbc.gov [<mailto:shanda.georg@aqd.nbc.gov>]  
**Sent:** Friday, May 14, 2010 7:23 PM  
**To:** karnold@karnoldconsulting.com  
**Subject:** RFQ N10PX18335 - Request for Quote - Deepwater Horizon Peer Review Support  
**Importance:** High

Dear Mr. Arnold,

The department of Interior is interested in contracting with Ken Arnold Consulting, Inc. to obtain your expertise in the performance of a peer review of the Outer Continental Shelf Safety Oversight Board Report which will provide recommendations to the President of the United States Concerning the Deep Water event. This is a request for a Labor Hour Quote.

Attached is a statement of work for your consideration. Please provide a Firm Fixed price quote no later than Monday, 17th to me, at my email address: shanda.georg@aqd.nbc.gov.

I have also attached a non-disclosure form to be returned to me with the FFP quote. All documents are to be returned to the contracting officer.

This is a commercial acquisition, performed under Far Part 12 and in accordance with Far Part 13 Guidance.

FAR clauses 52.212-1; 52.212-2; 52.212-3; 52.212-4; and 52.212-5 apply.

Please reference RFQ Number N10PX18335 on your quote - The quote is to be submitted as a Labor Hour Quote.

If you have any questions, please put them in writing and send them to me and if I am unable to provide a response, I will forward to the program office for a response.

Should you need additional time please let me know. My contact information is below. I will be in the office on Saturday around 10:30 EST.

Best regards, shanda

Out of Office Schedule:

April: 21-23 Training  
May: 24-27 Training  
June: 1-14 Annual Leave

Shanda L. Georg  
Contracting Officer, Lead  
Acquisition Services Directorate  
National Business Center  
U.S. Dept. of the Interior  
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Herndon VA 20170  
P: 703-964-4855 / F: 703-964-8477 or 8478  
C: 571-926-1127  
shanda.georg@aqd.nbc.gov\_  
[www.aqd.nbc.gov](http://www.aqd.nbc.gov)  
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We want to hear from you! Please let us know how we are doing in meeting your needs by taking a short survey at: <http://www.aqd.nbc.gov/survey>[attachment "KACI Ratesheet.doc" deleted by Shanda Georg/NBC/OS/DOI]

**From:** Bob Bea  
**To:** Kemkar, Neal  
**Subject:** Re: U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Saturday, May 15, 2010 3:25:52 PM

---

all clear.

i will send the form in a few minutes.

i will do all i can to help with this project. i have assembled a summary of the key elements i think could help advance this important opportunity. i will bring the summary with me to Washington next week.

i will be available to meet with the group on Wednesday or Friday.

**if you would like to have me meet with members of the team on Wednesday or Friday, please let me know - if possible sometime today.** i am trying to organize my schedule while i am in Washington.

thanks for your help.

Bob Bea

Kemkar, Neal wrote:

Thanks Bob. The spirit of the confidentiality agreement is to ensure the integrity of your involvement. You may inform/disclose to your university so long as they do not, in turn, publicly announce your involvement until after publication of the report. Thanks for understanding.

Please do join the call when you can on Monday. Safe travels.

---

**From:** Bob Bea <[bea@ce.berkeley.edu](mailto:bea@ce.berkeley.edu)>  
**To:** Kemkar, Neal  
**Cc:** '[acstancell@](mailto:acstancell@)' <[acstancell@msn.com](mailto:acstancell@msn.com)>; '[hans.iuvkam-wold@pe.tamu.edu](mailto:hans.iuvkam-wold@pe.tamu.edu)' <[hans.iuvkam-wold@pe.tamu.edu](mailto:hans.iuvkam-wold@pe.tamu.edu)>; '[per.holland@sintef.no](mailto:per.holland@sintef.no)' <[per.holland@sintef.no](mailto:per.holland@sintef.no)>; '[bbaugh@radoil.com](mailto:bbaugh@radoil.com)' <[bbaugh@radoil.com](mailto:bbaugh@radoil.com)>; '[mechenevert@mail.utexas.edu](mailto:mechenevert@mail.utexas.edu)' <[mechenevert@mail.utexas.edu](mailto:mechenevert@mail.utexas.edu)>; '[FBrett@Petroskills.com](mailto:FBrett@Petroskills.com)' <[FBrett@Petroskills.com](mailto:FBrett@Petroskills.com)>; Black, Steve; Hanley, Kallie; '[pblair@nas.edu](mailto:pblair@nas.edu)' <[pblair@nas.edu](mailto:pblair@nas.edu)>  
**Sent:** Fri May 14 20:32:08 2010  
**Subject:** Re: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Happy Friday Evening Neal (and others),

i will arrive at Kennedy airport at 4:09 PM EST. i do not think i can travel from the airport to my hotel and be checked in (Embassy Suites, 900 10 th Street NW) by the time of the conference call. given that we can address my concerns regarding the non-disclosure agreement (see below), i will connect with the conference call as soon as i can from the hotel.

i will be in Washington from Monday evening through Thursday evening. i have a meeting scheduled for Tuesday. i have tentative meetings scheduled for Thursday (the Thursday PM meeting can be rescheduled). i have reserved a part of Wednesday to be service to this committee - if you want.

please let me know if you would like to meet with me - the day, time, and place.

i have scanned the non-disclosure agreement. The agreement requires that "his or her role in it is confidential." Given my understanding of my employment contract with the University of California, i think this clause could be a problem (public university).

tomorrow morning, i will carefully review the non-disclosure agreement. if i think there could be a problem, i will have to have the University Counsel review the agreement before i can sign it.

as i said earlier, i will depart California early Monday morning (8 AM). given that it is now the end of semester commencement weekend, i do not think that it will be possible for me to have the University Counsel review the agreement and revert their opinion by the deadline you have specified below.

**given this situation, how do you suggest i proceed ?**

i truly want to assist this effort in any way that i can.

sincerely,

Bob Bea

Kemkar, Neal wrote:

As you heard from Dr. Peter Blair of the National Academies earlier this week, the U. S. Department of Interior (DOI) is preparing a report at the President's request which reviews and reports what, if any, additional precautions and technologies should be required to prevent accidents like the BP Oil Spill from happening again. The report is due to the President on May 28, 2010.

I am writing today to ask you to provide brief but important service in a peer review of our report on increased safety measures for energy development on the outer continental shelf.

As Dr. Blair indicated, we asked that the Academy identify a number of recognized academic and industry experts in the relevant fields to:

<!--[if !supportLists]-->(1) <!--[endif]--> discuss informally with DOI officials the current state of the art of offshore drilling safety and blowout protection and the degree to which such practices are currently in use in the U.S. and incorporated broadly into industry best practices, and  
<!--[if !supportLists]-->(2) <!--[endif]--> to vet, again informally, a series of proposed recommendations the department is formulating that would be included in this report. After reviewing who was involved in ongoing related

Academy activities and consultation with many colleagues, Dr. Blair's team generated a list of recommended experts, including you.

Although this discussion will be convened directly by us here in the Office of the Secretary of the Interior, not by the National Academies, the Academies have recommended that the DOI consider you as a discussant.

We will convene a 90-minute conference call of all interested discussants at 5pm eastern time on Monday, May 17, 2010. The call will last until approximately 6:30pm.

If you are willing and available to participate, please sign and return the attached non-disclosure agreement either to this email to return fax number +1-202-208-4561 before 3pm eastern time on Monday, May 17.

If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

--

Professor Robert Bea, PhD, PE  
Department of Civil & Environmental Engineering  
212 McLaughlin Hall  
University of California Berkeley  
Berkeley, CA 94720-1710  
Telephone/fax 510-642-0967  
Telefax 510-643-8919  
Email: [bea@ce.berkeley.edu](mailto:bea@ce.berkeley.edu)

Home Office  
Risk Assessment & Management Services  
60 Shuey Drive  
Moraga, California 94556  
Telephone 925-631-1587  
Cell 925-699-3503  
Email: [BeaRAMS@](mailto:BeaRAMS@) [REDACTED]

--  
Professor Robert Bea, PhD, PE

Department of Civil & Environmental Engineering  
212 McLaughlin Hall  
University of California Berkeley  
Berkeley, CA 94720-1710  
Telephone/fax 510-642-0967  
Telefax 510-643-8919  
Email: [bea@ce.berkeley.edu](mailto:bea@ce.berkeley.edu)

Home Office  
Risk Assessment & Management Services  
60 Shuey Drive  
Moraga, California 94556  
Telephone 925-631-1587  
Cell 925-699-3503  
Email: [BeaRAMS@](mailto:BeaRAMS@) [REDACTED]

**From:** Ken Arnold  
**To:** Georg, Shanda;  
**cc:** Kemkar, Neal; Valltos, Katherine; McCarthy, Daniel;  
**Subject:** RE: RFQ N10PX18335 - Request for Quote - Deepwater Horizon Peer Review Support  
**Date:** Saturday, May 15, 2010 6:54:06 PM  
**Attachments:** KArnoldConsultingPriceQuote.xls

---

Attached is a completed spread sheet. Please note that the forecasted hours to be worked on given days is an estimate. I may work more or fewer hours on any day.

Kenneth E. (Ken) Arnold  
K Arnold Consulting, Inc.  
3031 Shadowdale  
Houston, TX 77043  
Cell: 832-212-0160  
Home: 713-939-1034  
[www.karnoldconsulting.com](http://www.karnoldconsulting.com)

**From:** shanda.georg@aqd.nbc.gov [mailto:shanda.georg@aqd.nbc.gov]  
**Sent:** Saturday, May 15, 2010 2:29 PM  
**To:** Ken Arnold  
**Cc:** 'Kemkar, Neal'; katherine.valltos@aqd.nbc.gov; daniel.mccarthy@aqd.nbc.gov  
**Subject:** RE: RFQ N10PX18335 - Request for Quote - Deepwater Horizon Peer Review Support

Ken,  
Thanks. I need a formal quote - just an hourly rate won't work for government contracting. I have attached an excel sheet - use this to submit your not to exceed price - that way we have a formal quote - and you don't have to do much as I have already provided a spread sheet to fill in the blanks. Please modify as you see fit. I believe Neal understands that the dates are not attainable. Will keep you posted on his comments to your email. Right now we don't have a formal contract, but can work that out on Wed with You when you are reachable.

Again, thanks for the response and please use the excel sheet as I need a formal quote.

Understood about the "K" in your company's name.

best regards, shanda

Out of Office Schedule:  
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May: 24-27 Training  
June: 1-14 Annual Leave

Shanda L. Georg  
Contracting Officer, Lead  
Acquisition Services Directorate  
National Business Center  
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From: "Ken Arnold" <karnold@karnoldconsulting.com>  
To: <shanda.georg@aqd.nbc.gov>  
Cc: "Kemkar, Neal" <Neal\_Kemkar@ios.doi.gov>  
Date: 05/15/2010 03:16 PM  
Subject: RE: RFQ N10PX18335 - Request for Quote - Deepwater Horizon Peer Review Support

---

Shanda

I am in agreement with the attached two documents with the exceptions listed below. Unfortunately there is no way I can attach an electronic signature and I will not have access to a fax for a few days. Neal has a signed copy of the disclosure form which was faxed to him yesterday.

Please note the following exceptions:

1. I cannot finish the review by May 16 as requested in the SOW. It will take me several days and perhaps as much as one week from receipt of the materials.
2. My charges will be in accordance with the attached rate sheet. For this project I will be the only one working on it and accordingly my hourly rate is [REDACTED]

3. Please note the name of the company is K Arnold Consulting, Inc. and not Ken Arnold Consulting.

I can fax you the signature pages for both documents on Wednesday if that is OK.

Ken

Kenneth E. (Ken) Arnold  
K Arnold Consulting, Inc.  
3031 Shadowdale  
Houston, TX 77043  
Cell: 832-212-0160  
Home: 713-939-1034  
[www.karnoldconsulting.com](http://www.karnoldconsulting.com)

**From:** shanda.georg@aqd.nbc.gov [<mailto:shanda.georg@aqd.nbc.gov>]  
**Sent:** Saturday, May 15, 2010 9:50 AM  
**To:** Ken Arnold  
**Subject:** RE: RFQ N10PX18335 - Request for Quote - Deepwater Horizon Peer Review Support  
**Importance:** High

Neal,

My apologies. Please reconsider. - this request is on a labor hour basis - I miss-typed the info in two lines of the body of the letter, but the first sentence and last sentences were correct that indicated Labor Hour - it was a long day, however, if this had been issued as a ffp, it violates no rules - ffp is the preferred method of contracting for commercial items. I have attached the far site as an fyi for your comfort level: FAR 12.207. But again, due to the nature of the work, we are issuing this as a labor hour purchase order. Please let me know if you will provide a quote.

Revised and Corrected to indicate Labor Hour Quote May 15, 2010  
Dear Mr. Arnold,

The department of Interior is interested in contracting with Ken Arnold Consulting, Inc. to obtain your expertise in the performance of a peer review of the Outer Continental Shelf Safety Oversight Board Report which will provide recommendations to the President of the United States Concerning the Deep Water event. This is a request for a Labor Hour Quote.

Attached is a statement of work for your consideration. Please provide a Labor Hour price quote no later than Monday, 17th to me, at my email address: shanda.georg@aqd.nbc.gov.

I have also attached a non-disclosure form to be returned to me with the Labor Hour quote. All documents are to be returned to the contracting officer.

This is a commercial acquisition, performed under Far Part 12 and in accordance with Far Part 13 Guidance.

FAR clauses 52.212-1; 52.212-2; 52.212-3; 52.212-4; and 52.212-5 apply.

Please reference RFQ Number N10PX18335 on your quote - The quote is to be submitted as a Labor Hour Quote.

If you have any questions, please put them in writing and send them to me and if I am unable to provide a response, I will forward to the program office for a response.

Should you need additional time please let me know. My contact information is below. I will be in the office on Saturday around 10:30 EST.

Best regards, shanda

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May: 24-27 Training

June: 1-14 Annual Leave

Shanda L. Georg  
Contracting Officer, Lead  
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National Business Center  
U.S. Dept. of the Interior  
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From: "Ken Arnold" <karnold@karnoldconsulting.com>

To: <shanda.georg@aqd.nbc.gov>

Cc: "Kemkar, Neal" <Neal\_Kemkar@ios.doi.gov>

Date: 05/14/2010 09:57 PM

Subject: RE: RFQ N10PX18335 - Request for Quote - Deepwater Horizon Peer Review Support

---

Shanda

Thank you for considering me for this very important and interesting assignment. However, I don't think it is appropriate to contract for professional engineering services on a fixed price basis. Indeed it may even violate Federal rules. Therefore, I must decline your kind offer to hire me.

Attached is a rate sheet for my services if you would like to reconsider.

For future reference please note the name of my company, K Arnold Consulting, Inc.

Ken

Kenneth E. (Ken) Arnold  
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Cell: 832-212-0160  
Home: 713-939-1034  
[www.karnoldconsulting.com](http://www.karnoldconsulting.com)

**From:** shanda.georg@aqd.nbc.gov [<mailto:shanda.georg@aqd.nbc.gov>]

**Sent:** Friday, May 14, 2010 7:23 PM

**To:** karnold@karnoldconsulting.com

**Subject:** RFQ N10PX18335 - Request for Quote - Deepwater Horizon Peer Review Support

**Importance:** High

Dear Mr. Arnold,

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Safety Oversight Board Report which will provide recommendations to the President of the United States Concerning the Deep Water event. This is a request for a Labor Hour Quote.

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Please reference RFQ Number N10PX18335 on your quote - The quote is to be submitted as a Labor Hour Quote.

If you have any questions, please put them in writing and send them to me and if I am unable to provide a response, I will forward to the program office for a response.

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Best regards, shanda

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June: 1-14 Annual Leave

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doc" deleted by Shanda Georg/NBC/OS/DOI] [attachment "Deepwater SME Support SOW FINAL.pdf" deleted by Shanda Georg/NBC/OS/DOI] [attachment "Peer Review - Consultant NonDisclosureAgtFINAL.pdf" deleted by Shanda Georg/NBC/OS/DOI]

Request for Quote N10PX18335 / Deepwater Horizon Peer Review Support  
 K. Arnold Consulting, Inc.  
 15-May-10  
 Labor Hour Quote

# of Day	Date	Day of Month	Hours	Discounted Commercial Hourly Rate	Total
1	May 19	Wed			
2	May 20	Thurs			
3	May 21	Friday			
4	May 22	Sat			
5	May 23	Sun			
6	May 24	Mon			
7	May 25	Tues			
8	May 26	Wed			
9	May 27	Thurs			
10	May 28	Friday			
11	May 29	Sat			
12	May 30	Sun			
		Mon (Memorial Day)			
13	May 31				
<b>MAY Total:</b>					<b>\$14,800.00</b>

<b>Grand Total</b>	
<b>Grand Total Labor Hour Price Quote:</b>	<b>HOURS      \$</b>
	<b>\$24,800.00</b>

	Non-Discount Rate	Discount Rate	Savings	% Savings
Hourly Rate				0.00%
Total Hours	\$24,800.00	\$0.00	\$24,800.00	

# of Day	Date	Day of Month	Hours	Discounted Commercial Hourly Rate	Total
14	June 1	Tues			
15	June 2	Wed			
16	June 3	Thurs			
17	June 4	Friday			
18	June 5	Sat			
19	June 6	Sun			
20	June 7	Mon			
21	June 8	Tues			
22	June 9	Wed			
23	June 10	Thurs			
24	June 11	Friday			
25	June 12	Sat			
		Sun			
26	June 13	Sun			
27	June 14	Mon			
28	June 15	Tues			
29	June 16	Wed			
30	June 17	Thurs			
31	June 18	Friday			
32	June 19	Sat			
33	June 20	Sun			
34	June 21	Mon			
35	June 22	Tues			
36	June 23	Wed			
37	June 24	Thurs			
		Friday			
38	June 25	Friday			
39	June 26	Sat			
40	June 27	Sun			
41	June 28	Mon			
42	June 29	Tues			
43	June 30	Wed			
<b>JUNE Total:</b>					<b>\$10,000.00</b>

**From:** Kemkar, Neal  
**To:** Juvkam-Wold, Hans;  
**Subject:** RE: U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Sunday, May 16, 2010 2:24:48 PM

---

Thanks. We will be in touch shortly with specifics about tomorrow's call.

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Juvkam-Wold, Hans [mailto:juvkam-wold@pe.tamu.edu]  
**Sent:** Saturday, May 15, 2010 2:40 PM  
**To:** Kemkar, Neal  
**Subject:** RE: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Neal,

The signed non-disclosure Agreement is attached.  
Please let me know if you need anything else.

Hans C. Juvkam-Wold, ScD, PE  
Professor Emeritus  
Texas A&M University

OFFICE: juvkam-wold@tamu.edu 979-845-4093  
HOME: [REDACTED] [REDACTED]

**From:** Arnold Stancell  
**To:** Kemkar, Neal  
**Subject:** Re: U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Monday, May 17, 2010 1:03:02 PM

---

Neal,

I was away, just returned. I have signed and faxed the confidentiality agreement to 202-208-4561. I will participate in the 5 pm EST call today.

Best regards,  
Arnold

----- Original Message -----

**From:** Kemkar, Neal  
**To:** 'acstancell@██████████'  
**Cc:** Hanley, Kallie  
**Sent:** Sunday, May 16, 2010 2:31 PM  
**Subject:** FW: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Dr. Stancell – we have not heard from you yet. I just left you a voicemail along these same lines but to confirm your participation in this review, please (1) review the attached confidentiality agreement and return to this email or to fax number 1-202-208-4561 and (2) confirm your ability to participate in a 5pm eastern time call on Monday.

Many thanks,  
Neal

Neal Kemkar

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

---

**From:** Kemkar, Neal  
**Sent:** Friday, May 14, 2010 7:50 PM  
**To:** 'acstancell@██████████'; 'hans.juvkam-wold@pe.tamu.edu'; 'per.holland@sintef.no'; 'bbaugh@radoil.com'; 'mechenevert@mail.utexas.edu'; 'FBrett@Petroskills.com'; 'bea@ce.berkeley.edu'  
**Cc:** Black, Steve; Hanley, Kallie; 'pblair@nas.edu'  
**Subject:** U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Importance:** High

As you heard from Dr. Peter Blair of the National Academies earlier this week, the U.S. Department of Interior (DOI) is preparing a report at the President's request which reviews and reports what, if any, additional precautions and technologies should be required to prevent accidents like the BP Oil Spill from happening again. The report is due to the President on May 28, 2010.

I am writing today to ask you to provide brief but important service in a peer review of our report on increased safety measures for energy development on the outer continental shelf.

As Dr. Blair indicated, we asked that the Academy identify a number of recognized academic and industry experts in the relevant fields to:

- (1) discuss informally with DOI officials the current state of the art of offshore drilling safety and blowout protection and the degree to which such practices are currently in use in the U.S. and incorporated broadly into industry best

practices, and

(2) to vet, again informally, a series of proposed recommendations the department is formulating that would be included in this report. After reviewing who was involved in ongoing related Academy activities and consultation with many colleagues, Dr. Blair's team generated a list of recommended experts, including you.

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If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Chenevert, Martin E  
**To:** Kemkar, Neal;  
**Subject:** Chenevert non-disclosure agreement  
**Date:** Monday, May 17, 2010 2:21:37 PM  
**Attachments:** 20100517131532233.pdf

---

Neal

My document is attached.

Let me know what number I am to call to join the discussion.

Thanks,

Martin Chenevert

**From:** Per Holand  
**To:** Kemkar, Neal;  
**cc:** Hanley, Kallie; Black, Steve;  
**Subject:** RE: U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Tuesday, May 18, 2010 8:25:17 AM  
**Attachments:** 100516 Candidate Recommendations, Per Holand.doc

---

Neal

Please find enclosed your document modified by me with track changes.

I have only commented on the BOP issues. I have deleted some of your proposed actions that I found not be practical and I have added some new and modified some.

I hope that you find my comments useful.

Best regards

**Per Holand**  
Senior Consultant, Ph.D.

**ExproSoft AS**  
Location: Prof. Brochs gt. 2, Trondheim, Norway  
Mail address: N-7465 Trondheim, Norway

Office phone: (+47) 73 20 04 08  
Mobile phone: (+47) 93 20 55 41  
Mail to: [per.holand@exprosoft.com](mailto:per.holand@exprosoft.com)  
Web: [www.exprosoft.com](http://www.exprosoft.com)

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** 15. mai 2010 18:12  
**To:** Per Holand  
**Cc:** Hanley, Kallie; Black, Steve  
**Subject:** Re: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Thanks Per. Glad you can make the call--sorry for the late hour in your time zone. Look forward to speaking on Monday.

Neal

---

**From:** Per Holand <Per.Holand@exprosoft.com>  
**To:** Kemkar, Neal  
**Cc:** Hanley, Kallie; Black, Steve

**Sent:** Sat May 15 06:32:41 2010

**Subject:** RE: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Neal

I am willing to be a peer reviewer. Please find enclosed the signed Non-disclosure agreement.

I can participate in the conference call on Monday 17<sup>th</sup> of May, it will be at 2300 Norwegian time.

If you instead want to contact me separately that is OK as well, but then it has to be on Tuesday 18<sup>th</sup> of May.

Best regards

**Per Holand**

Senior Consultant, Ph.D.

**ExproSoft AS**

Location: Prof. Brochs gt. 2, Trondheim, Norway

Mail address: N-7465 Trondheim, Norway

Office phone: (+47) 73 20 04 08

Mobile phone: (+47) 93 20 55 41

Mail to: [per.holand@exprosoft.com](mailto:per.holand@exprosoft.com)

Web: [www.exprosoft.com](http://www.exprosoft.com)

---

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]

**Sent:** 15. mai 2010 01:54

**To:** Per Holand

**Cc:** Hanley, Kallie; Black, Steve

**Subject:** FW: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

**Importance:** High

---

Per – good to talk to you earlier this week.

I recognize you are unlikely to make this conference call given the time difference but please work with Kallie to set up a separate 30 minute check-in call with Kallie and me if you are willing to be a peer reviewer as described below.

Thanks,

Neal

**Neal Kemkar**

Office of the Secretary

U.S. Department of the Interior

(202) 208-5379

As you heard from Dr. Peter Blair of the National Academies earlier this week, the U.S. Department of Interior (DOI) is preparing a report at the President's request which reviews and reports what, if any, additional precautions and technologies should be required to prevent accidents like the BP Oil Spill from happening again. The report is due to the President on May 28, 2010.

I am writing today to ask you to provide brief but important service in a peer review of our report on Increased safety measures for energy development on the outer continental shelf.

As Dr. Blair indicated, we asked that the Academy identify a number of recognized academic and industry experts in the relevant fields to:

- (1) discuss informally with DOI officials the current state of the art of offshore drilling safety and blowout protection and the degree to which such practices are currently in use in the U.S. and incorporated broadly into industry best practices, and
- (2) to vet, again informally, a series of proposed recommendations the department is formulating that would be included in this report. After reviewing who was involved in ongoing related Academy activities and consultation with many colleagues, Dr. Blair's team generated a list of recommended experts, including you.

Although this discussion will be convened directly by us here in the Office of the Secretary of the Interior, not by the National Academies, the Academies have recommended that the DOI consider you as a discussant.

We will convene a 90-minute conference call of all interested discussants at 5pm eastern time on Monday, May 17, 2010. The call will last until approximately 6:30pm.

If you are willing and available to participate, please sign and return the attached non-disclosure agreement either to this email to return fax number +1-202-208-4561 before 3pm eastern time on Monday, May 17.

If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

**From:** Ford Brett  
**To:** Kemkar, Neal; Black, Steve;  
**cc:** Ishee, Mary Katherine; Hanley, Kallie;  
**Subject:** Brett Comments: U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Tuesday, May 18, 2010 1:07:51 PM  
**Attachments:** 100516 Candidate Recommendations Brett Comments v2.doc

---

Neal and Steve --

As I understand my instructions, I was NOT to send to other 'discussants'.

Attached are my Suggested Revisions (should be in purple), and my "Editorial Comments" (*shown in purple parenthetical italics*) – to explaining my thinking. These comments may be helpful in combining with other 'discussants'. Besides edits to the current recommendations, I've added unique ideas, and have highlighted the purple edits in yellow.

I've included a one page general comment at the bottom of the document, that explains my approach to the '30 day effort' as I understand it.

One comment that I didn't include: I'd say who(m?) ever came up with this original did a pretty good job to start with. I hope my contribution helps.

I'm at DC time + 6hrs – call any time at 918-408-9516 if I can be helpful, (or email [fbrett@petroskills.com](mailto:fbrett@petroskills.com)).

Thank you for your efforts. Please let me know if I can be of further assistance.

Sincerely,

Ford Brett  
President  
**PetroSkills**  
(o) +1 918 828 2511 (*I pick up messages frequently*)  
(m) +1 918 408 9516 (*works in most of world*)  
Skype Ford.Brett  
or call Rozanne at +1 918 828 2505

[www.PetroSkills.com](http://www.PetroSkills.com)

---

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** Friday, May 14, 2010 6:50 PM  
**To:** 'acstancell@██████████'; 'hans.juvkam-wold@pe.tamu.edu'; 'per.holland@sintef.no'; 'bbaugh@radoil.com'; 'mechenevert@mail.utexas.edu'; Ford Brett; 'bea@ce.berkeley.edu'  
**Cc:** Black, Steve; Hanley, Kallie; pblair@nas.edu  
**Subject:** U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Importance:** High

As you heard from Dr. Peter Blair of the National Academies earlier this week, the U.S. Department of Interior (DOI) is preparing a report at the President's request which reviews and reports what, if any, additional precautions and technologies should be required to prevent accidents like the BP Oil Spill from happening again. The report is due to the President on May 28, 2010.

I am writing today to ask you to provide brief but important service in a peer review of our report on increased safety measures for energy development on the outer continental shelf.

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If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Elmer Danenberger  
**To:** Kemkar, Neal;  
**cc:** Georg, Shanda;  
**Subject:** RE: Bud - please let me know when you have had a conversation with Donna Huston  
**Date:** Tuesday, May 18, 2010 8:40:28 PM

---

Thanks Neal.

I am back from my trip and everything seems to be in order.

Shanda did a great job; she was very helpful! I will meet with her at 0930 in Herndon to execute the documents. I will then be ready to go!

Bud

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** Monday, May 17, 2010 7:18 PM  
**To:** edanenberger@[REDACTED]  
**Subject:** Bud - please let me know when you have had a conversation with Donna Huston  
**Importance:** High

We are eager for you to start your participation in the project the moment you have discussed your ethics requirements and signed the required paperwork.

Thanks,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Juvkam-Wold, Hans  
**To:** Kemkar, Neal; Hanley, Kallie;  
**Subject:** Comments on DRAFT SAFETY RECOMMENDATIONS  
**Date:** Tuesday, May 18, 2010 10:35:55 PM  
**Attachments:** Juvkam-Wold Comments on Recommendations.doc

---

All,

Attached are my comments and recommendations regarding the proposed Safety Recommendations.

Please let me know if you have any questions.

I'll be outside the country for the next three weeks, but can be reached by email.

Hans C. Juvkam-Wold, ScD, PE  
Professor Emeritus  
Texas A&M University

OFFICE: juvkam-wold@tamu.edu 979-845-4093  
HOME: [REDACTED] [REDACTED]

**From:** Kemkar, Neal  
**To:** Juvkam-Wold, Hans;  
**cc:** Hanley, Kallie;  
**Subject:** RE: Comments on DRAFT SAFETY RECOMMENDATIONS  
**Date:** Tuesday, May 18, 2010 10:37:11 PM

---

Thanks Hans. Safe travels.

Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Juvkam-Wold, Hans [mailto:juvkam-wold@pe.tamu.edu]  
**Sent:** Tuesday, May 18, 2010 10:31 PM  
**To:** Kemkar, Neal; Hanley, Kallie  
**Subject:** Comments on DRAFT SAFETY RECOMMENDATIONS

All,

Attached are my comments and recommendations regarding the proposed Safety Recommendations.

Please let me know if you have any questions.

I'll be outside the country for the next three weeks, but can be reached by email.

Hans C. Juvkam-Wold, ScD, PE  
Professor Emeritus  
Texas A&M University

OFFICE: juvkam-wold@tamu.edu 979-845-4093  
HOME: [REDACTED] [REDACTED]

**From:** Benton Baugh  
**To:** Kemkar, Neal  
**Subject:** RE: NAE peer review panel call with DOI tomorrow 5.17 at 5pm Eastern -- AGENDA  
**Date:** Tuesday, May 18, 2010 10:51:58 PM  
**Attachments:** 100517 BAUGH Recommendations.doc

---

My comments are attached.

Regards,

Benton F. Baugh, Ph.D., P.E., NAE

*Radoil, Inc.*

ISO 9001:2008

12551 FM 529 RD  
Houston, TX 77041  
office: (713) 937-4494  
cell: (713) 419-8683  
bbaugh@radoil.com  
www.radoil.com

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**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** Monday, May 17, 2010 1:43 PM  
**To:** hans.juvkam-wold@pe.tamu.edu; bbaugh@radoil.com; FBrett@Petroskills.com; bea@ce.berkeley.edu; per.holand@exprosoft.com; Chenevert, Martin E; Arnold Stancell  
**Cc:** Hanley, Kallie; Black, Steve; Ishee, Mary Katherine  
**Subject:** RE: NAE peer review panel call with DOI tomorrow 5.17 at 5pm Eastern -- AGENDA

NAE Peer Review Panel Call with DOI 5.17.10  
AGENDA

- I. Introductions

- a. DOI introductions
  - b. NAE Panelist Introductions
- II. Overview of NAE Peer Review Panel task
  - III. Walk through document to be reviewed
  - IV. Questions from NAE Panel on document
  - V. Discussion on document
  - VI. Next steps : Panelists each submit comments on document to DOI by 9am on 5.19.10

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

---

**From:** Hanley, Kallie  
**Sent:** Sunday, May 16, 2010 2:52 PM  
**To:** hans.juvkam-wold@pe.tamu.edu; per.holland@sintef.no; bbaugh@radoil.com; FBrett@Petroskills.com; bea@ce.berkeley.edu  
**Cc:** Kemkar, Neal  
**Subject:** NAE peer review panel call with DOI tomorrow 5.17 at 5pm Eastern

Thank you for agreeing to participate in the NAE Peer Review Panel. We would like to convene the panel for a call tomorrow, Monday, May 17th at 5pm Eastern. Please use the following conference call number:

**Call in number:** [REDACTED]  
**Participant Access Code:** [REDACTED]

Please let us know if you have any questions before then. We look forward to speaking with you tomorrow.

Thanks,

Kallie Hanley  
Office of the White House Liaison  
The U.S. Department of the Interior  
desk: (202) 208-5397 | cell: (202) 374-7694  
[kallie\\_hanley@ios.doi.gov](mailto:kallie_hanley@ios.doi.gov)

**From:** Elmer Danenberger  
**To:** Kemkar, Neal;  
**Subject:** RE: Bud - please let me know when you have had a conversation with Donna Huston  
**Date:** Wednesday, May 19, 2010 5:54:27 AM

---

Neal, I just got your message. I will call you this morning. bud

---

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** Tuesday, May 18, 2010 8:42 PM  
**To:** 'edanenberger@[REDACTED]'  
**Subject:** Re: Bud - please let me know when you have had a conversation with Donna Huston

Thanks Bud. That's good news. Welcome back. If you have a 2 mins to talk -- please give me a call tonight. 2022573495

---

**From:** Elmer Danenberger <edanenberger@[REDACTED]>  
**To:** Kemkar, Neal  
**Cc:** Georg, Shanda  
**Sent:** Tue May 18 20:40:32 2010  
**Subject:** RE: Bud - please let me know when you have had a conversation with Donna Huston

Thanks Neal.

I am back from my trip and everything seems to be in order.

Shanda did a great job; she was very helpful! I will meet with her at 0930 in Herndon to execute the documents. I will then be ready to go!

Bud

---

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** Monday, May 17, 2010 7:18 PM  
**To:** edanenberger@[REDACTED]  
**Subject:** Bud - please let me know when you have had a conversation with Donna Huston  
**Importance:** High

We are eager for you to start your participation in the project the moment you have discussed your ethics requirements and signed the required paperwork.

Thanks,  
Neal

**Neal Kemkar**

Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Arnold Stancell  
**To:** Kemkar, Neal;  
**Subject:** Re: NAE peer review panel call with DOI tomorrow 5.17 at 5pm Eastern -- AGENDA  
**Date:** Wednesday, May 19, 2010 8:20:34 AM  
**Attachments:** AOil Spill INAE.doc

---

Neal,

Please see my comments attached. Nice meeting you over the phone.

Best regards,  
Arnie

----- Original Message -----

**From:** Kemkar, Neal  
**To:** hans.juvkam-wold@pe.tamu.edu ; bbaugh@radoil.com ; FBrett@Petroskills.com ; bea@ce.berkeley.edu ; per.holland@exprosoft.com ; Chenevert, Martin E ; Arnold Stancell  
**Cc:** Hanley, Kallie ; Black, Steve ; Ishee, Mary Katherine  
**Sent:** Monday, May 17, 2010 2:42 PM  
**Subject:** RE: NAE peer review panel call with DOI tomorrow 5.17 at 5pm Eastern -- AGENDA

**NAE Peer Review Panel Call with DOI 5.17.10  
AGENDA**

- I. Introductions
  - a. DOI introductions
  - b. NAE Panelist Introductions
- II. Overview of NAE Peer Review Panel task
- III. Walk through document to be reviewed
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- V. Discussion on document
- VI. Next steps : Panelists each submit comments on document to DOI by 9am on 5.19.10

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Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Hanley, Kallie  
**Sent:** Sunday, May 16, 2010 2:52 PM  
**To:** hans.juvkam-wold@pe.tamu.edu; per.holland@sintef.no; bbaugh@radoil.com;  
FBrett@Petroskills.com; bea@ce.berkeley.edu

**Cc:** Kemkar, Neal

**Subject:** NAE peer review panel call with DOI tomorrow 5.17 at 5pm Eastern

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Participant Access [REDACTED]

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Thanks,

**Kallie Hanley**

Office of the White House Liaison

The U.S. Department of the Interior

desk: (202) 208-5397 | cell: (202) 374-7694

[kallie\\_hanley@ios.doi.gov](mailto:kallie_hanley@ios.doi.gov)

**From:** Elmer Danenberger  
**To:** Kemkar, Neal; Hanley, Kallie;  
**cc:** Georg, Shanda;  
**Subject:** FW: bud Danenberger  
**Date:** Wednesday, May 19, 2010 10:32:53 AM

---

Neal & Kallie,

Please send me the background materials as soon as possible so I can begin my review.

Thanks.

Bud

**From:** shanda.georg@aqd.nbc.gov [mailto:shanda.georg@aqd.nbc.gov]  
**Sent:** Wednesday, May 19, 2010 10:17 AM  
**To:** Kemkar, Neal; Hanley, Kallie; edanenberger@gmail.com  
**Cc:** katherine.valltos@aqd.nbc.gov; daniel.mccarthy@aqd.nbc.gov; john.nyce@aqd.nbc.gov; william.archambeault@aqd.nbc.gov  
**Subject:** bud Danenberger  
**Importance:** High

All -

The paper work is signed and Bud Danenberger is now under contract with DOI to support Deepwater Horizon SME support effective today 5/19/2010 through June 30, 2010 up to a not to exceed Labor hour order of \$24,800.00

DOI and Bud may now engage with each other.

The documents will be sent out shortly.

regards, shanda

Out of Office Schedule:  
April: 21-23 Training  
May: 24-27 Training  
June: 1-14 Annual Leave

Shanda L. Georg  
Contracting Officer, Lead

Acquisition Services Directorate  
National Business Center  
U.S. Dept. of the Interior  
381 Elden Street, Suite 4000  
Herndon VA 20170  
P: 703-964-4855 / F: 703-964-8477 or 8478  
C: 571-926-1127  
shanda.georg@aqd.nbc.gov  
[www.aqd.nbc.gov](http://www.aqd.nbc.gov)  
An ISO 9001 Certified Organization

We want to hear from you! Please let us know how we are doing in meeting your needs by taking a short survey at: <http://www.aqd.nbc.gov/survey>

**From:** Per Holand  
**To:** Black, Steve; Kemkar, Neal;  
**cc:** Hanley, Kallie;  
**Subject:** SV: U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Wednesday, May 19, 2010 3:08:43 PM

---

Steve, Neal

I have been requested by BP to support them in their investigation related to MC252/Deepwater Horizon incident. I would like to accept that. Is that OK for you?

I will of course not mention that I have been involved with you before May 28.

Per

---

**Fra:** Black, Steve [mailto:steve\_black@ios.doi.gov]  
**Sendt:** ti 18/05/2010 14:46  
**Til:** Per Holand; Kemkar, Neal  
**Kopi:** Hanley, Kallie  
**Emne:** Re: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Per, thank you very much for your prompt reply and helpful comments.

Steve

---

**From:** Per Holand <Per.Holand@exprosoft.com>  
**To:** Kemkar, Neal  
**Cc:** Hanley, Kallie; Black, Steve  
**Sent:** Tue May 18 08:24:50 2010  
**Subject:** RE: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Neal

Please find enclosed your document modified by me with track changes.

I have only commented on the BOP issues. I have deleted some of your proposed actions that I found not be practical and I have added some new and modified some.

I hope that you find my comments useful.

Best regards

**Per Holand**  
Senior Consultant, Ph.D.

**ExproSoft AS**  
Location: Prof. Brochs gt. 2, Trondheim, Norway  
Mail address: N-7465 Trondheim, Norway

Office phone: (+47) 73 20 04 08  
Mobile phone: (+47) 93 20 55 41  
Mail to: [per.holand@exprosoft.com](mailto:per.holand@exprosoft.com)  
Web: [www.exprosoft.com](http://www.exprosoft.com)

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**Sent:** 15. mai 2010 18:12  
**To:** Per Holand  
**Cc:** Hanley, Kallie; Black, Steve  
**Subject:** Re: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Thanks Per. Glad you can make the call--sorry for the late hour in your time zone. Look forward to speaking on Monday.

Neal

---

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**To:** Kemkar, Neal  
**Cc:** Hanley, Kallie; Black, Steve  
**Sent:** Sat May 15 06:32:41 2010  
**Subject:** RE: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Neal

I am willing to be a peer reviewer. Please find enclosed the signed Non-disclosure agreement.

I can participate in the conference call on Monday 17<sup>th</sup> of May, it will be at 2300 Norwegian time.

If you instead want to contact me separately that is OK as well, but then it has to be on Tuesday 18<sup>th</sup> of May.

Best regards

**Per Holand**  
Senior Consultant, Ph.D.

**ExproSoft AS**  
Location: Prof. Brochs gt. 2, Trondheim, Norway

Mail address: N-7465 Trondheim, Norway

Office phone: (+47) 73 20 04 08

Mobile phone: (+47) 93 20 55 41

Mail to: [per.holand@exprosoft.com](mailto:per.holand@exprosoft.com)

Web: [www.exprosoft.com](http://www.exprosoft.com)

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]

**Sent:** 15. mai 2010 01:54

**To:** Per Holand

**Cc:** Hanley, Kallie; Black, Steve

**Subject:** FW: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

**Importance:** High

Per – good to talk to you earlier this week.

I recognize you are unlikely to make this conference call given the time difference but please work with Kallie to set up a separate 30 minute check-in call with Kallie and me if you are willing to be a peer reviewer as described below.

Thanks,

Neal

**Neal Kemkar**

Office of the Secretary

U.S. Department of the Interior

(202) 208-5379

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I am writing today to ask you to provide brief but important service in a peer review of our report on increased safety measures for energy development on the outer continental shelf.

As Dr. Blair indicated, we asked that the Academy identify a number of recognized academic and industry experts in the relevant fields to:

- (1) discuss informally with DOI officials the current state of the art of offshore drilling safety and blowout protection and the degree to which such practices are currently in use in the U.S. and incorporated broadly into industry best practices, and
- (2) to vet, again informally, a series of proposed recommendations the department is formulating that would be included in this report. After reviewing who was involved in ongoing related Academy activities and consultation with many colleagues, Dr. Blair's team generated a list of recommended experts, including you.

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the National Academies, the Academies have recommended that the DOI consider you as a discussant.

We will convene a 90-minute conference call of all interested discussants at 5pm eastern time on Monday, May 17, 2010. The call will last until approximately 6:30pm.

If you are willing and available to participate, please sign and return the attached non-disclosure agreement either to this email to return fax number +1-202-208-4561 before 3pm eastern time on Monday, May 17.

If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

**From:** Per Holand  
**To:** Kemkar, Neal; Black, Steve;  
**cc:** Hanley, Kallie;  
**Subject:** SV: U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Thursday, May 20, 2010 4:08:04 PM

---

Neal

I promised BP an answer today.

I plan to say that I would be pleased to participate in their investigation team, but I cannot join it before May 31.

Then your report should be public and my Peer Review obligation finished, so I assume that it will not cause any problems.

Best regards Per

---

**Fra:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sendt:** on 19/05/2010 21:10  
**Til:** Per Holand; Black, Steve  
**Kopi:** Hanley, Kallie  
**Emne:** RE: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Per – thanks for checking. Before you accept, please allow us some time to consider this question with appropriate counsel and get back to you quickly.

Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

---

**From:** Per Holand [mailto:Per.Holand@exprosoft.com]  
**Sent:** Wednesday, May 19, 2010 3:08 PM  
**To:** Black, Steve; Kemkar, Neal  
**Cc:** Hanley, Kallie  
**Subject:** SV: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Steve, Neal

I have been requested by BP to support them in their investigation related to MC252/Deepwater Horizon incident. I would like to accept that. Is that OK for you?

I will of course not mention that I have been involved with you before May 28.

Per

---

**Fra:** Black, Steve [mailto:steve\_black@ios.doi.gov]  
**Sendt:** ti 18/05/2010 14:46  
**Til:** Per Holand; Kemkar, Neal  
**Kopi:** Hanley, Kallie  
**Emne:** Re: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Per, thank you very much for your prompt reply and helpful comments.

Steve

---

**From:** Per Holand <Per.Holand@exprosoft.com>  
**To:** Kemkar, Neal  
**Cc:** Hanley, Kallie; Black, Steve  
**Sent:** Tue May 18 08:24:50 2010  
**Subject:** RE: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Neal

Please find enclosed your document modified by me with track changes.

I have only commented on the BOP issues. I have deleted some of your proposed actions that I found not be practical and I have added some new and modified some.

I hope that you find my comments useful.

Best regards

**Per Holand**  
Senior Consultant, Ph.D.

**ExproSoft AS**  
Location: Prof. Brochs gt. 2, Trondheim, Norway  
Mail address: N-7465 Trondheim, Norway

Office phone: (+47) 73 20 04 08  
Mobile phone: (+47) 93 20 55 41  
Mail to: [per.holand@exprosoft.com](mailto:per.holand@exprosoft.com)  
Web: [www.exprosoft.com](http://www.exprosoft.com)

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** 15. mai 2010 18:12  
**To:** Per Holand  
**Cc:** Hanley, Kallie; Black, Steve  
**Subject:** Re: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Thanks Per. Glad you can make the call--sorry for the late hour in your time zone. Look forward to speaking on Monday.

Neal

---

**From:** Per Holand <Per.Holand@exprosoft.com>  
**To:** Kemkar, Neal  
**Cc:** Hanley, Kallie; Black, Steve  
**Sent:** Sat May 15 06:32:41 2010  
**Subject:** RE: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Neal

I am willing to be a peer reviewer. Please find enclosed the signed Non-disclosure agreement.

I can participate in the conference call on Monday 17<sup>th</sup> of May, it will be at 2300 Norwegian time.

If you instead want to contact me separately that is OK as well, but then it has to be on Tuesday 18<sup>th</sup> of May.

Best regards

**Per Holand**  
Senior Consultant, Ph.D.

**ExproSoft AS**  
Location: Prof. Brochs gt. 2, Trondheim, Norway  
Mail address: N-7465 Trondheim, Norway

Office phone: (+47) 73 20 04 08  
Mobile phone: (+47) 93 20 55 41  
Mail to: [per.holand@exprosoft.com](mailto:per.holand@exprosoft.com)  
Web: [www.exprosoft.com](http://www.exprosoft.com)

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** 15. mai 2010 01:54  
**To:** Per Holand  
**Cc:** Hanley, Kallie; Black, Steve  
**Subject:** FW: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety

Report (Time-Sensitive)  
**Importance:** High

Per – good to talk to you earlier this week.

I recognize you are unlikely to make this conference call given the time difference but please work with Kallie to set up a separate 30 minute check-in call with Kallie and me if you are willing to be a peer reviewer as described below.

Thanks,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

As you heard from Dr. Peter Blair of the National Academies earlier this week, the U.S. Department of Interior (DOI) is preparing a report at the President's request which reviews and reports what, if any, additional precautions and technologies should be required to prevent accidents like the BP Oil Spill from happening again. The report is due to the President on May 28, 2010.

I am writing today to ask you to provide brief but important service in a peer review of our report on increased safety measures for energy development on the outer continental shelf.

As Dr. Blair indicated, we asked that the Academy identify a number of recognized academic and industry experts in the relevant fields to:

- (1) discuss informally with DOI officials the current state of the art of offshore drilling safety and blowout protection and the degree to which such practices are currently in use in the U.S. and incorporated broadly into industry best practices, and
- (2) to vet, again informally, a series of proposed recommendations the department is formulating that would be included in this report. After reviewing who was involved in ongoing related Academy activities and consultation with many colleagues, Dr. Blair's team generated a list of recommended experts, including you.

Although this discussion will be convened directly by us here in the Office of the Secretary of the Interior, not by the National Academies, the Academies have recommended that the DOI consider you as a discussant.

We will convene a 90-minute conference call of all interested discussants at **5pm eastern time on Monday, May 17, 2010.** The call will last until approximately 6:30pm.

If you are willing and available to participate, please **sign and return the attached non-disclosure agreement either to this email to return fax number +1-202-208-4561** before 3pm eastern time on Monday, May 17.

If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

**From:** Per Holand  
**To:** Kemkar, Neal; Black, Steve;  
**cc:** Hanley, Kallie;  
**Subject:** SV: U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Thursday, May 20, 2010 4:25:54 PM

---

Thank you.

Best regards Per

---

**Fra:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sendt:** to 20/05/2010 22:17  
**Til:** Per Holand; Black, Steve  
**Kopi:** Hanley, Kallie  
**Emne:** RE: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Thanks for your follow up Per.

If you follow your proposed route, please do disclose to BP the fact of your involvement with our 30-day safety report but do not disclose any confidential communications or documents that you have or will receive from Interior.

I know your expertise is in high demand so thanks for your understanding about our need to run checks here. And again, thank you for your help with his project.

Best,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Per Holand [mailto:Per.Holand@exprosoft.com]  
**Sent:** Thursday, May 20, 2010 4:08 PM  
**To:** Kemkar, Neal; Black, Steve  
**Cc:** Hanley, Kallie  
**Subject:** SV: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Neal

I promised BP an answer today.

I plan to say that I would be pleased to participate in their investigation team, but I cannot join it before May 31.

Then your report should be public and my Peer Review obligation finished, so I assume that it will not cause any problems.

Best regards Per

---

**Fra:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sendt:** on 19/05/2010 21:10  
**Til:** Per Holand; Black, Steve  
**Kopi:** Hanley, Kallie  
**Emne:** RE: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Per – thanks for checking. Before you accept, please allow us some time to consider this question with appropriate counsel and get back to you quickly.

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U.S. Department of the Interior  
(202) 208-5379

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I have only commented on the BOP issues. I have deleted some of your proposed actions that I found not be practical and I have added some new and modified some.

I hope that you find my comments useful.

Best regards

**Per Holand**  
Senior Consultant, Ph.D.

**ExproSoft AS**  
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Office phone: (+47) 73 20 04 08  
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---

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**To:** Kemkar, Neal  
**Cc:** Hanley, Kallie; Black, Steve

**Sent:** Sat May 15 06:32:41 2010

**Subject:** RE: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Neal

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Senior Consultant, Ph.D.

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Office phone: (+47) 73 20 04 08  
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Mail to: [per.holand@exprosoft.com](mailto:per.holand@exprosoft.com)  
Web: [www.exprosoft.com](http://www.exprosoft.com)

---

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** 15. mai 2010 01:54  
**To:** Per Holand  
**Cc:** Hanley, Kallie; Black, Steve  
**Subject:** FW: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Importance:** High

Per – good to talk to you earlier this week.

I recognize you are unlikely to make this conference call given the time difference but please work with Kallie to set up a separate 30 minute check-in call with Kallie and me if you are willing to be a peer reviewer as described below.

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Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

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If you are willing and available to participate, please **sign and return the attached non-disclosure agreement either to this email to return fax number +1-202-208-4561** before 3pm eastern time on Monday, May 17.

If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

**From:** Ken Arnold  
**To:** Kemkar, Neal;  
**Subject:** RE: Revised draft recommendations  
**Date:** Friday, May 21, 2010 5:13:21 PM  
**Attachments:** 100520 DRAFT Offshore Drilling Safety Recommendations v 1 KEA Comments.docx

---

Attached are my comments. This is a much improved document and I only have a few comments.

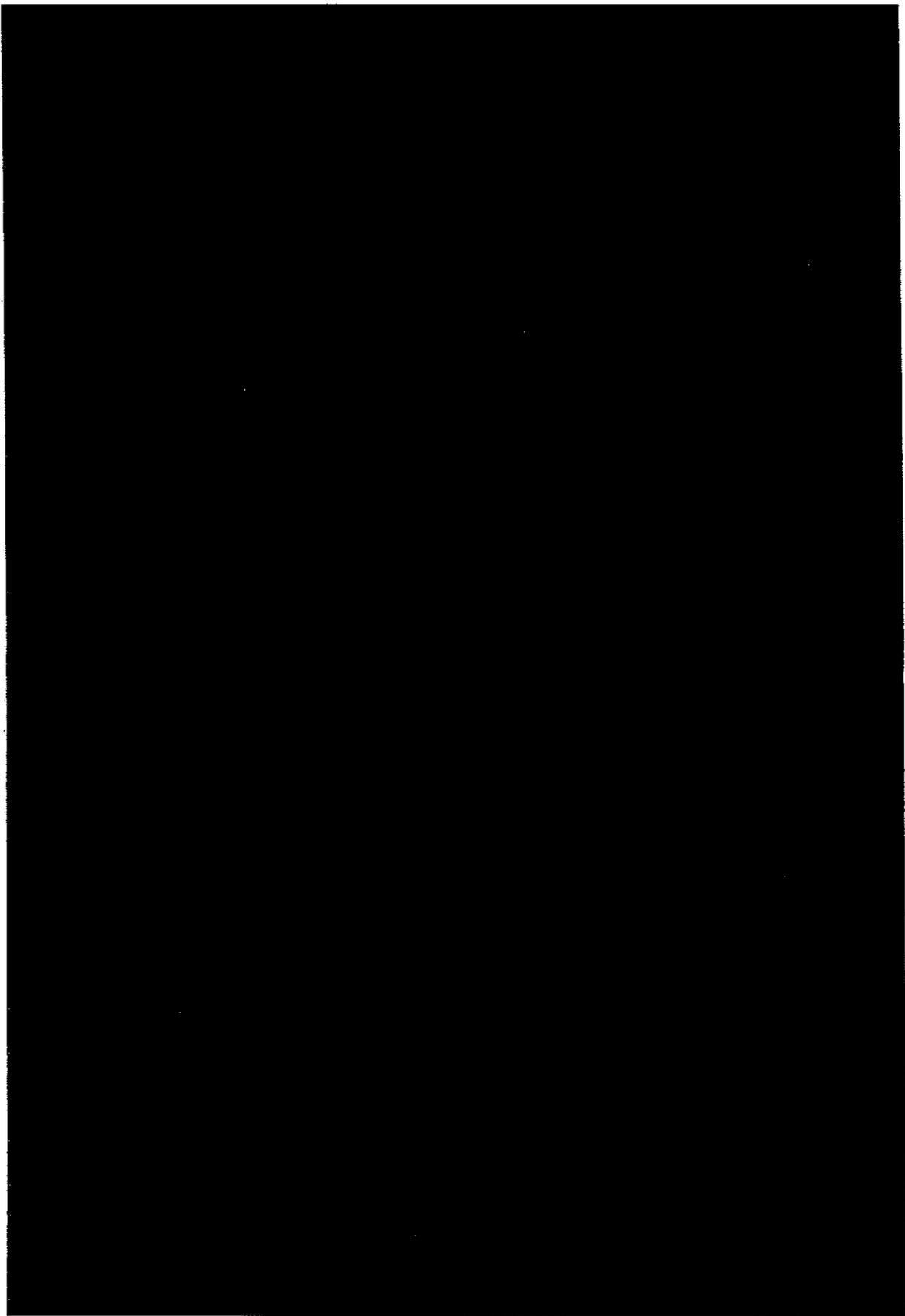
Kenneth E. (Ken) Arnold  
K Arnold Consulting, Inc.  
3031 Shadowdale  
Houston, TX 77043  
Cell: 832-212-0160  
Home: 713-939-1034  
[www.karnoldconsulting.com](http://www.karnoldconsulting.com)

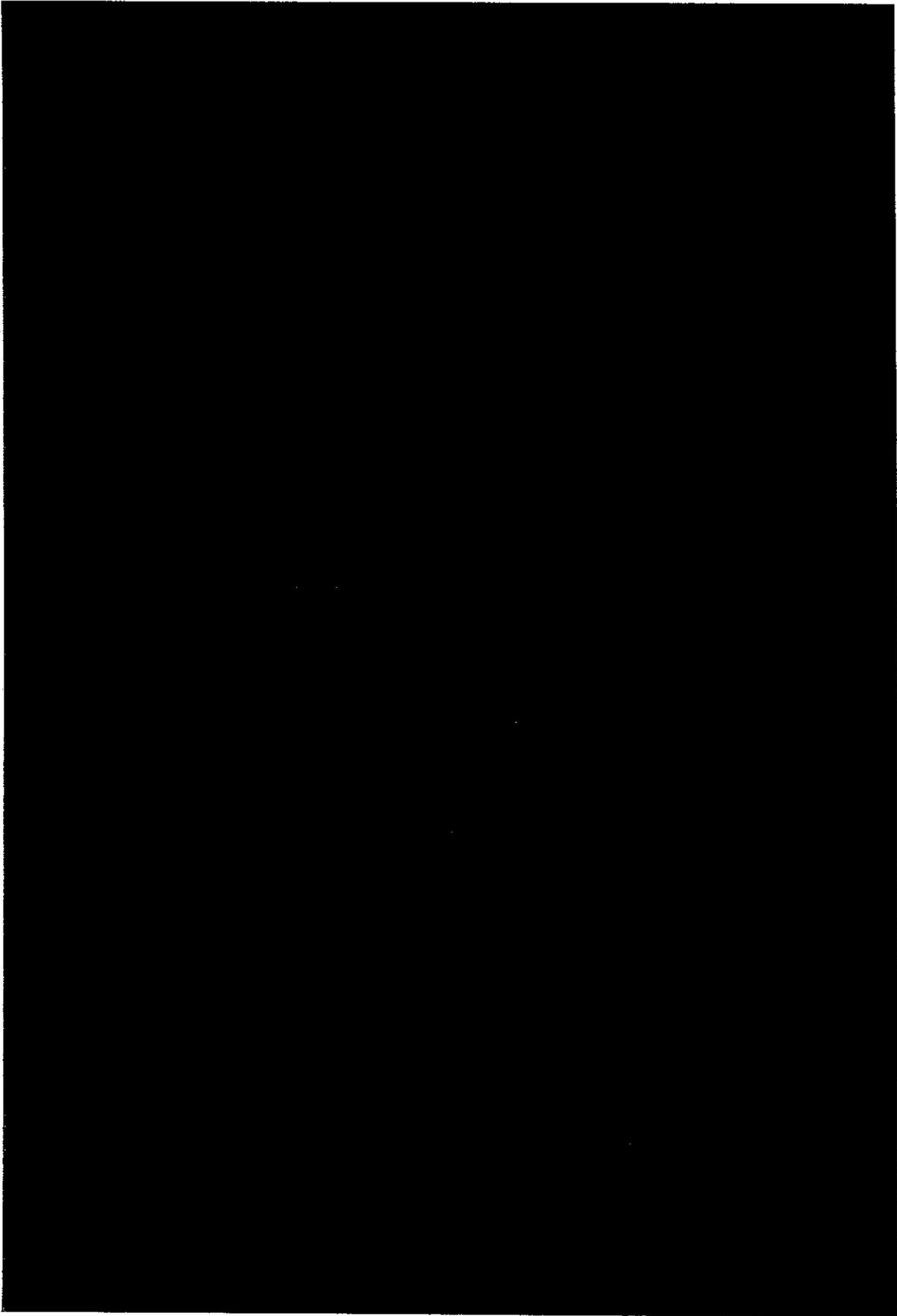
**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** Thursday, May 20, 2010 2:26 PM  
**To:** Ken Arnold  
**Subject:** FW: Revised draft recommendations  
**Importance:** High

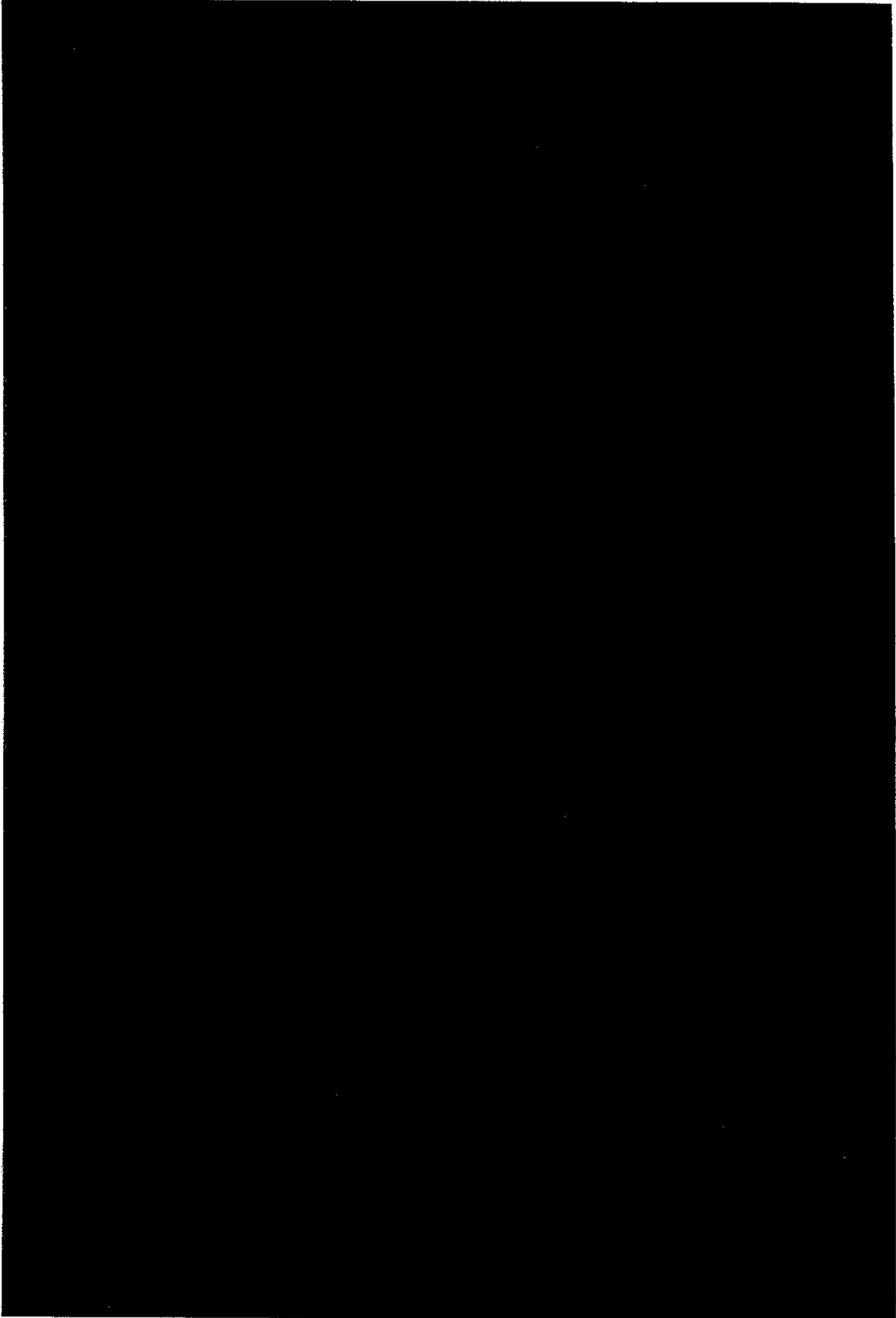
**DRAFT – PREDICISIONAL CONTAINS INTERAGENCY  
DELIBERATIVE PROCESS INFORMATION**

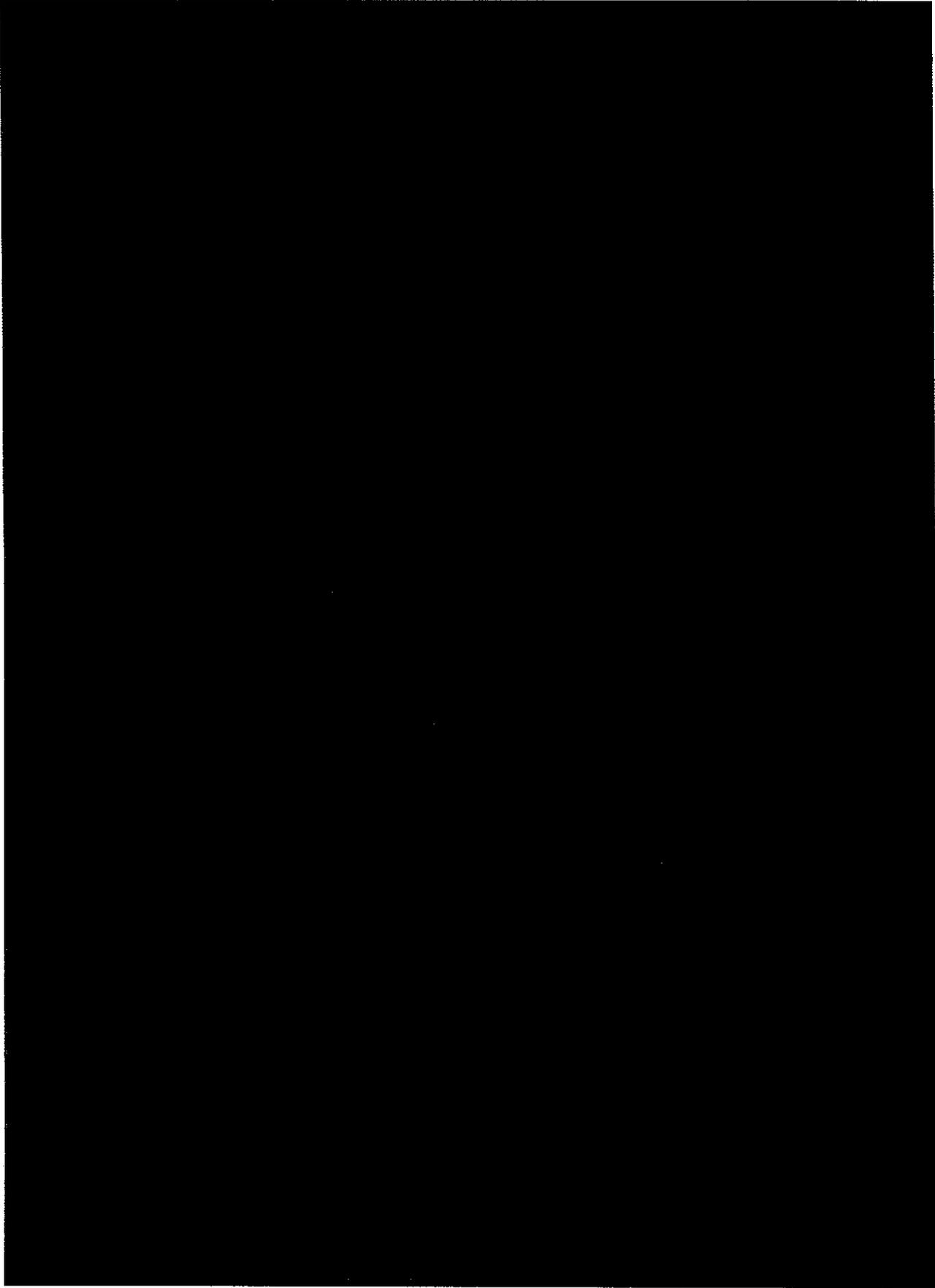
This draft may not be disclosed under FOIA

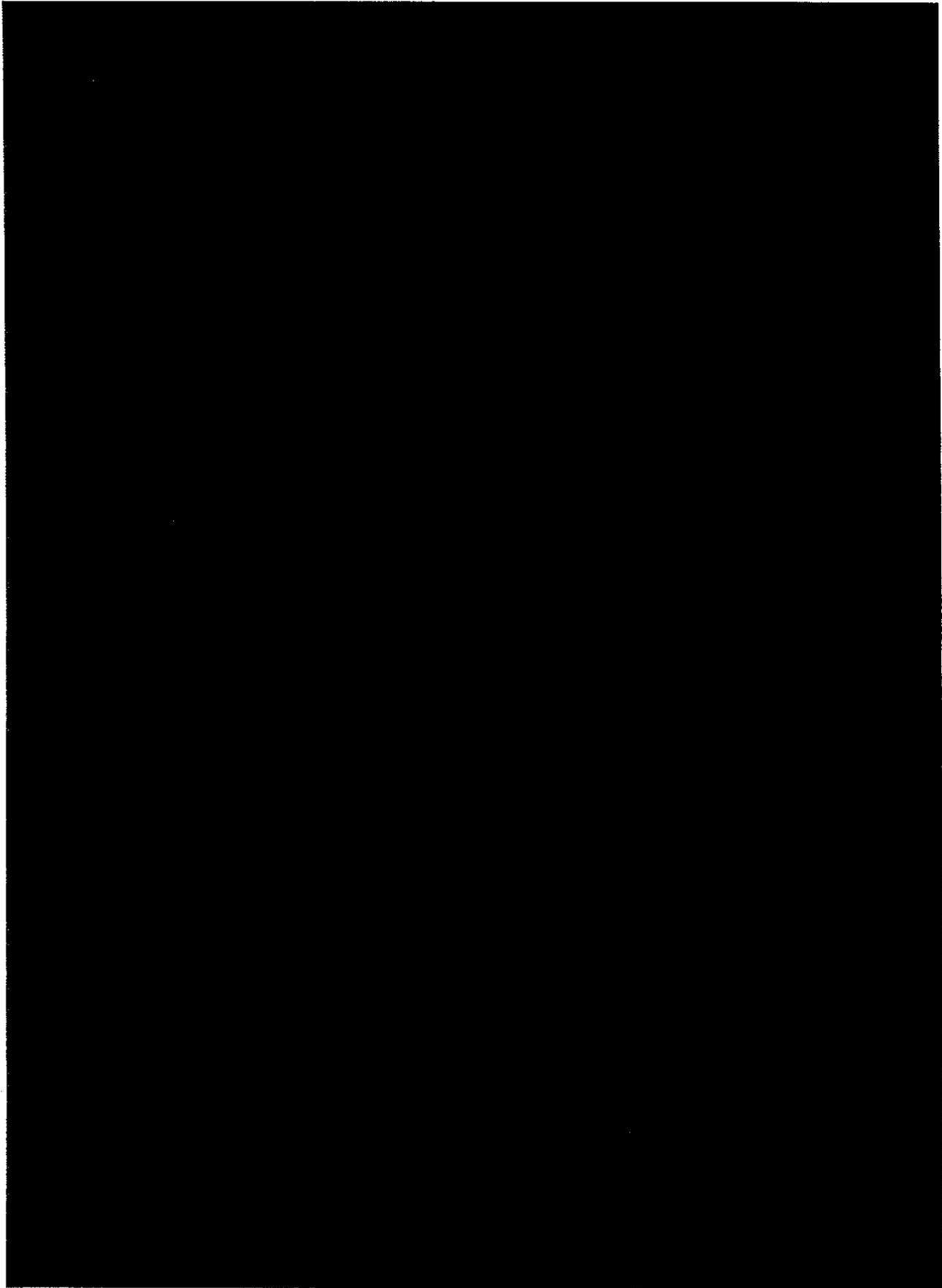


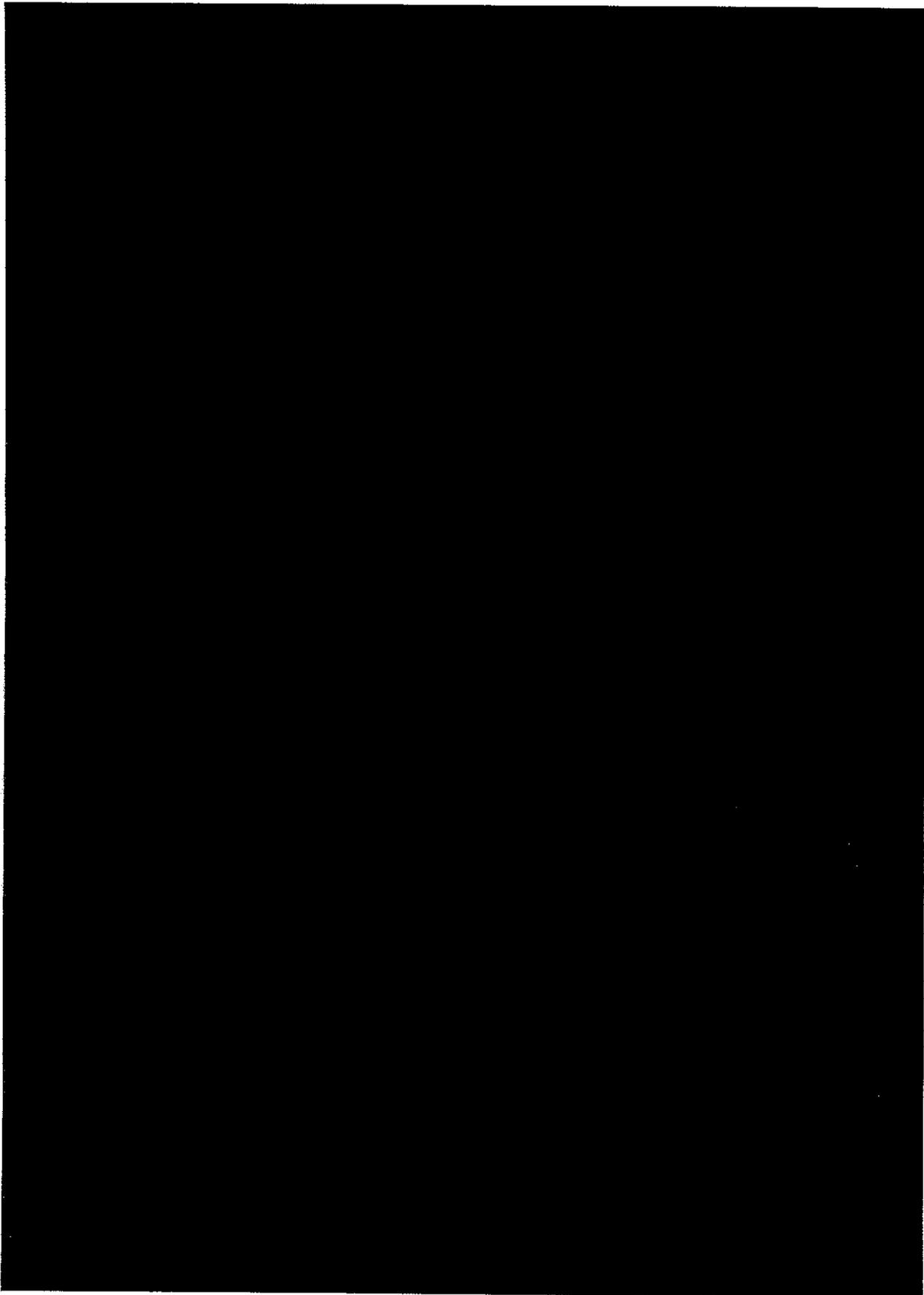


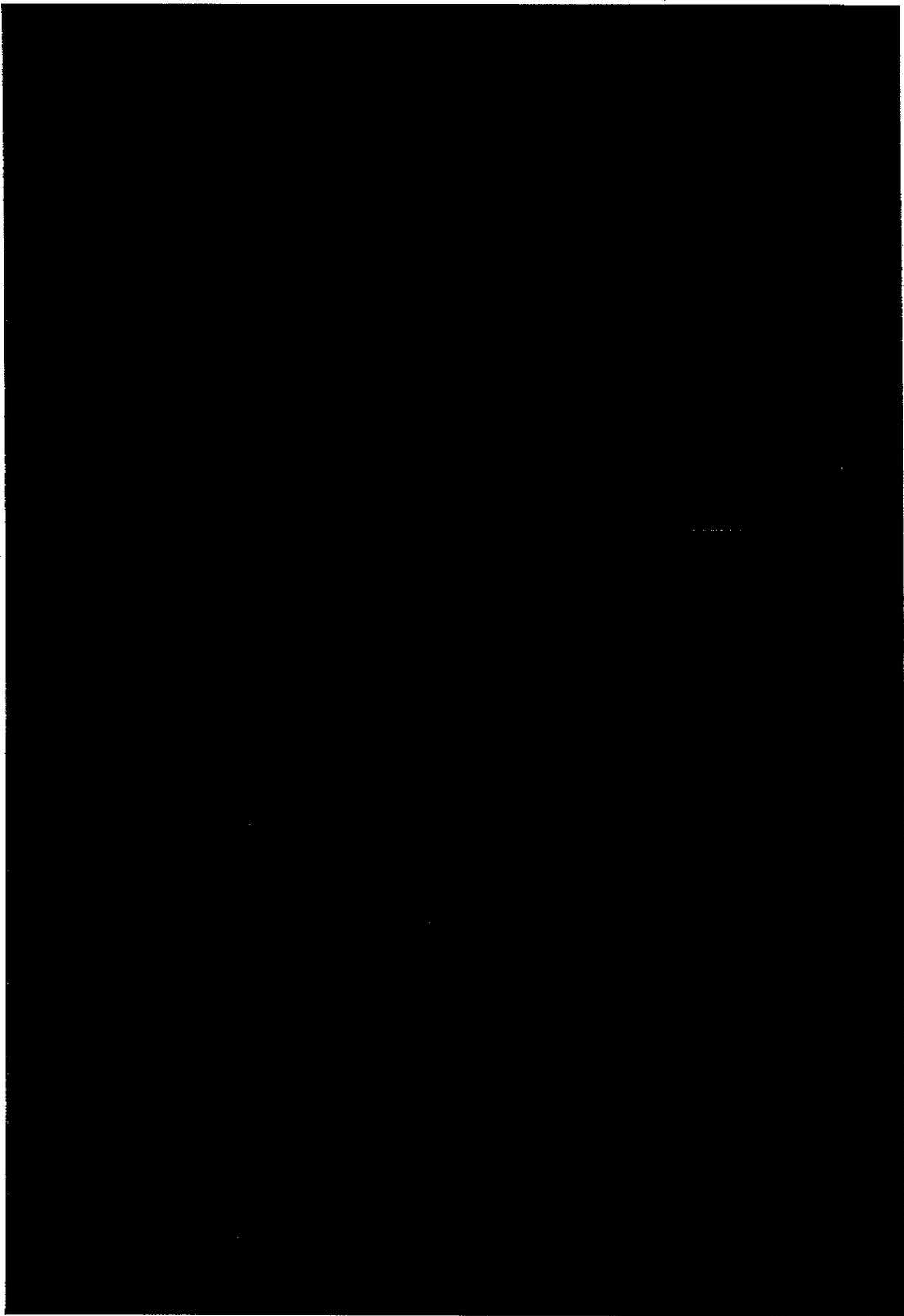


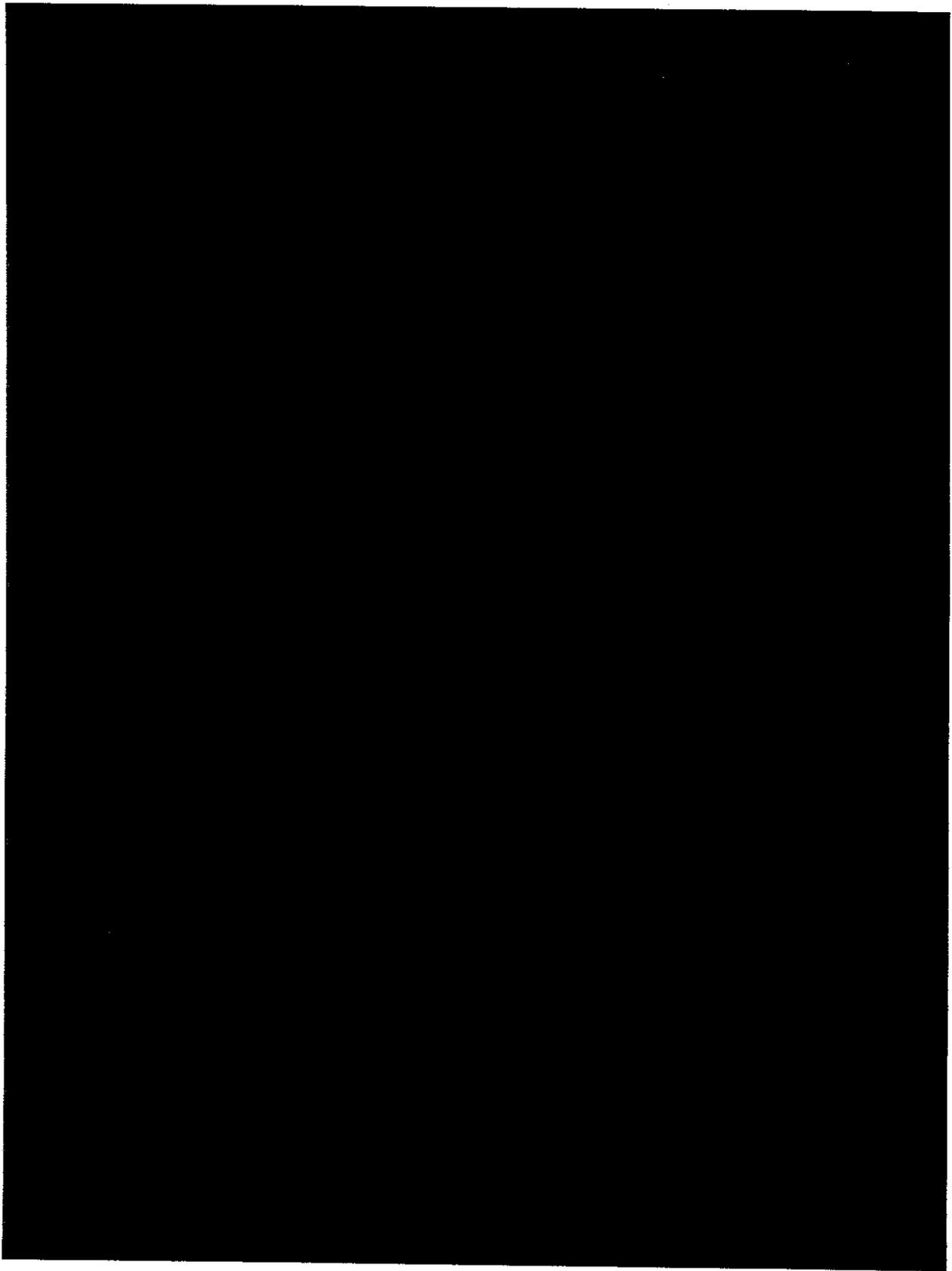


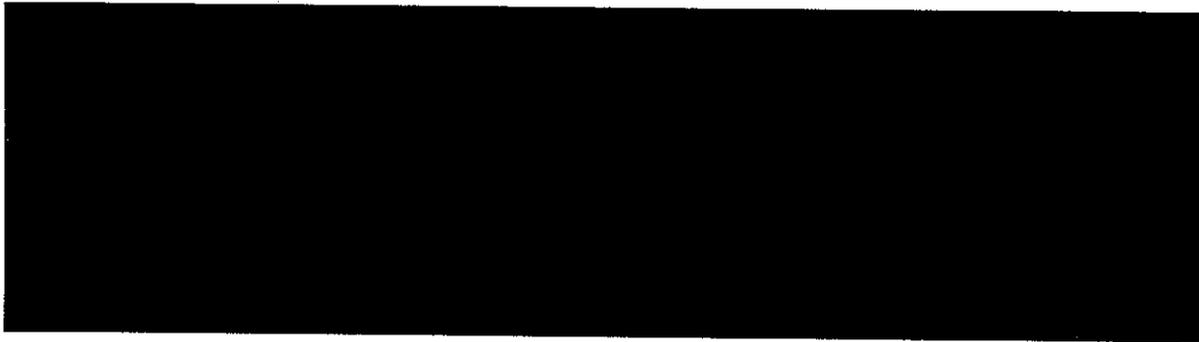












**From:** Bob Bea  
**To:** Kemkar, Neal;  
**Subject:** Re: Summary of my preliminary findings and thoughts about the Deepwater Horizon failures  
**Date:** Saturday, May 22, 2010 4:59:21 PM  
**Attachments:** BobBeaPreliminaryAnalysesrev5.pdf  
learning from failures.pdf  
Flirting With Disasters.pdf  
OTC02-14293-deepwater operations HOF.pdf

---

apology for system failure.

latest version attached.

background attached.

bob

Kemkar, Neal wrote:

> Actually the attachment did not come through. Please resend.

>

>

> ----- Original Message -----

> From: Robert Bea <bea@ce.berkeley.edu>

> To: Kemkar, Neal; Hanley, Kallie

> Sent: Wed May 19 06:42:00 2010

> Subject: Summary of my preliminary findings and thoughts about the Deepwater Horizon failures

>

> attached as you requested is summary of my preliminary findings and

> thoughts about the Deepwater Horizon failures and recommendations for

> the future continuation of this important activity.

>

> thank you for the opportunity to help with this important project.

>

> bob

>

--

Professor Robert Bea, PhD, PE  
Department of Civil & Environmental Engineering  
212 McLaughlin Hall  
University of California Berkeley  
Berkeley, CA 94720-1710  
Telephone/fax 510-642-0967  
Telefax 510-643-8919  
Email: bea@ce.berkeley.edu

Home Office  
Risk Assessment & Management Services

60 Shuey Drive  
Moraga, California 94556  
Telephone 925-631-1587  
Cell 925-699-3503  
Email: BearAMS@

**From:** Elmer Danenberger  
**To:** Kemkar, Neal;  
**Subject:** RE: Draft Interim Measures Report for Immediate Review  
**Date:** Tuesday, May 25, 2010 11:11:52 AM

---

will do. bud

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** Tuesday, May 25, 2010 10:43 AM  
**To:** Elmer Danenberger  
**Cc:** Black, Steve  
**Subject:** Draft Interim Measures Report for Immediate Review

Bud – please review the attached draft of the safety report and let us know, by later today, about any big picture thoughts or comments you have. The Secretary and White House are reviewing this draft. I will call you momentarily to discuss.

Thanks,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Ford Brett  
**To:** Hanley, Kallie;  
**cc:** Kemkar, Neal; Black, Steve; Ishee, Mary Katherine;  
Graves, Carmiece;  
**Subject:** Brett Comments on document...  
**Date:** Tuesday, May 25, 2010 5:49:41 PM  
**Attachments:** Interim Measures Report 100525 nk FINAL.PDF

---

My editorial comments on the Interim Measures Report 100525 nk FINAL.PDF

Introuduction....

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

**Ford Brett**  
**PetroSkills**

(o) +1 918 828 2511 (*I pick up messages frequently*)  
(m) +1 918 408 9516 (*works in most of world*)  
Skype Ford.Brett  
or call Rozanne at +1 918 828 2505

[www.PetroSkills.com](http://www.PetroSkills.com)

---

**From:** Hanley, Kallie [mailto:Kallie\_Hanley@ios.doi.gov]  
**Sent:** Tuesday, May 25, 2010 9:38 AM  
**To:** hans.juvkam-wold@pe.tamu.edu; Bob Bea; Ford Brett; Per Holand;  
mechenevert@austin.utexas.edu; Arnold Stancell; Benton Baugh

**Cc:** Kemkar, Neal; Black, Steve; Ishee, Mary Katherine; Graves, Carmiece  
**Subject:** Call today with Interior

Good Morning

Please confirm that you will be on today's follow-up conference call at 5:00pm eastern time. Additionally, please review the attached report in advance of today's call.

The conference call information for today's call:

Call in number: [REDACTED]  
Participant access code: [REDACTED]

Thank you,

**Kallie Hanley**  
Office of the White House Liaison  
The U.S. Department of the Interior  
desk: (202) 208-5397 | cell: (202) 374-7694  
[kallie\\_hanley@ios.doi.gov](mailto:kallie_hanley@ios.doi.gov)

**From:** Hanley, Kallie  
**Sent:** Monday, May 24, 2010 12:56 PM  
**To:** 'hans.juvkam-wold@pe.tamu.edu'; 'Bob Bea'; 'Ford Brett'; 'Per Holand'; 'mechenevert@austin.utexas.edu'; 'Arnold Stancell'; 'Benton Baugh'  
**Cc:** Kemkar, Neal; Black, Steve; Ishee, Mary Katherine; Graves, Carmiece  
**Subject:** NAE Peer Review Panel - follow up call

NAE Peer Review Panel Members:

We look forward to speaking with you on tomorrow's follow-up call: Tuesday, May 25 at 5:00pm Eastern Time. Please use the following conference call information:

Call in number: [REDACTED]  
Participant access code: [REDACTED]

Thank you,

**Kallie Hanley**  
Office of the White House Liaison  
The U.S. Department of the Interior  
desk: (202) 208-5397 | cell: (202) 374-7694  
[kallie\\_hanley@ios.doi.gov](mailto:kallie_hanley@ios.doi.gov)

**From:** Per Holand  
**To:** Kemkar, Neal; Black, Steve;  
Hanley, Kallie;  
**Subject:** Some few comments from Per Holand  
**Date:** Tuesday, May 25, 2010 6:07:41 PM

---

Neal, Steve and Kallie

I liked the report.

I found two things you should correct, and I want you to replace my bio to be more in line with the others:

- Page [REDACTED]
- Page 13 [REDACTED]
- Finally I have suggested a new bio for myself. I did not understand what you wanted this morning

*Per Holand graduated from Norwegian University of Science and Technology in 1982 with a M. Sc. in Mechanical Engineering. He has 18 years experience from safety and reliability engineering at SINTEF, prior to joining ExproSoft on 1 May 2001. His main work focus in SINTEF and ExproSoft has been on the reliability of drilling equipment, offshore blowout experience, subsea and well reliability analyses. He has carried out numerous subsea BOP reliability studies on behalf of clients in Norway, Brazil, US and Italy. Since 1990 he has been responsible for maintaining the SINTEF Offshore Blowout Database, which serves as the key information in connection with blowout risk analyses in the North Sea area. He holds a PhD (1996) in safety and reliability engineering from the Norwegian University of Science and Technology in Trondheim, Norway. His PhD was later reworked and published as a book at the Gulf Publishing Company in 1997 (Title: Offshore Blowouts, Causes and Control).*

Best regards

**Per Holand**  
Senior Consultant, Ph.D.

**ExproSoft AS**

Location: Prof. Brochs gt. 2, Trondheim, Norway  
Mail address: N-7465 Trondheim, Norway

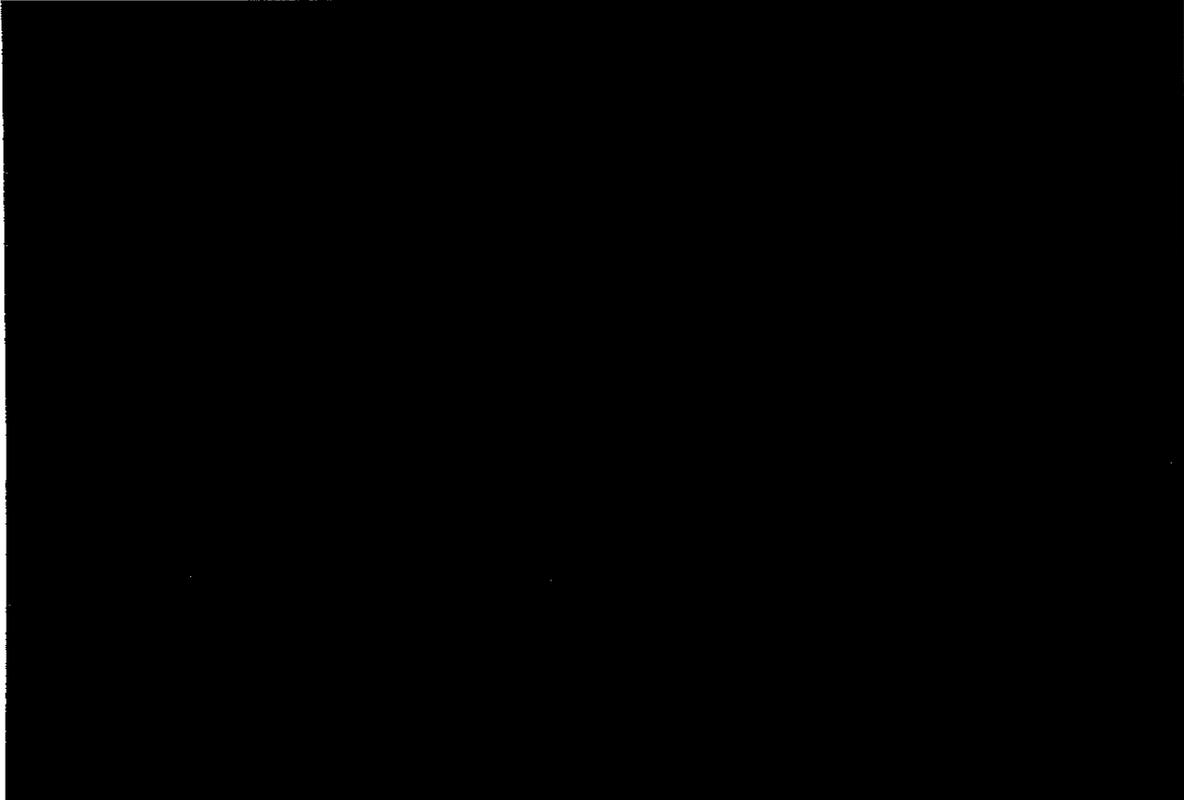
Office phone: (+47) 73 20 04 08  
Mobile phone: (+47) 93 20 55 41  
Mail to: [per.holand@exprosoft.com](mailto:per.holand@exprosoft.com)  
Web: [www.exprosoft.com](http://www.exprosoft.com)

**From:** Ken Arnold  
**To:** Kemkar, Neal;  
**cc:** Black, Steve;  
**Subject:** RE: Draft Interim Measures Report for Immediate Review  
**Date:** Tuesday, May 25, 2010 10:22:21 PM

---

The This is really a great report. A few nitpicking comments:

1. On Screen 18 it says:



Ken

Kenneth E. (Ken) Arnold  
K Arnold Consulting, Inc.  
3031 Shadowdale  
Houston, TX 77043  
Cell: 832-212-0160  
Home: 713-939-1034  
[www.karnoldconsulting.com](http://www.karnoldconsulting.com)

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** Tuesday, May 25, 2010 9:44 AM

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**Cc:** Black, Steve  
**Subject:** Draft Interim Measures Report for Immediate Review

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Thanks,  
Neal

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Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Elmer Danenberger  
**To:** Black, Steve;  
**Subject:** RE: Question  
**Date:** Wednesday, May 26, 2010 8:38:14 PM

---

Steve, I'm fairly confident that at least some of the MODUs have 2 B/S rams. I expect that the % is highest for the deepwater rigs. bud

---

**From:** Black, Steve [mailto:[steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)]  
**Sent:** Wednesday, May 26, 2010 8:27 PM  
**To:** edanenberger@gmail.com  
**Subject:** Question

Bud, do you know whether any of the 33 active MODU's BOPs in GoM have 2 blind shear rams? Thanks.

Steve

Steve Black  
Counselor to the Secretary  
U.S. Department of the Interior  
1849 C Street, N.W., MS 7229  
Washington, D.C. 20240  
Phone: 202-208-4123  
Fax: 202-208-4561  
e-mail: [steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)

**From:** [karnold@karnoldconsulting.com](mailto:karnold@karnoldconsulting.com)  
**To:** [Black, Steve;](#)  
**Subject:** Re: Question  
**Date:** Wednesday, May 26, 2010 8:43:09 PM

---

I do not know. Would you like me to call around tomorrow. I am sure the MMS knows.

Sent via BlackBerry by AT&T

---

**From:** "Black, Steve" <[steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)>  
**Date:** Wed, 26 May 2010 20:28:06 -0400  
**To:** [karnold@karnoldconsulting.com](mailto:karnold@karnoldconsulting.com)<[karnold@karnoldconsulting.com](mailto:karnold@karnoldconsulting.com)>  
**Subject:** Question

Ken, good evening. Do you know whether any of the 33 active MODU's BOPs in GoM have 2 blind shear rams?

Many thanks.

Steve Black  
Counselor to the Secretary  
U.S. Department of the Interior  
1849 C Street, N.W., MS 7229  
Washington, D.C. 20240  
Phone: 202-208-4123  
Fax: 202-208-4561  
e-mail: [steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)

**From:** Ken Arnold  
**To:** Black, Steve; Kemkar, Neal;  
**Subject:** Bob Bea  
**Date:** Wednesday, May 26, 2010 10:34:46 PM

---

Steve and Neal

Since Bob Bea is mentioned as one of the sources of the report to the Secretary, you should be aware that by April 29, within eight days after the accident and before the 60 Minutes interview, Bob Bea was already signed up as the "star witness" in a law suit against BP and Transocean. I do not understand how he was able to tell within days of the accident, when little was known, who was at fault and why he then went on National Television without disclosing his involvement in the law suit. The email below was sent to a friend of mine on April 29.

Kenneth E. (Ken) Arnold  
K Arnold Consulting, Inc.  
3031 Shadowdale  
Houston, TX 77043  
Cell: 832-212-0160  
Home: 713-939-1034  
[www.karnoldconsulting.com](http://www.karnoldconsulting.com)

**From:**  
**Sent:** Wednesday, May 26, 2010 6:54 PM  
**To:** 'Ken Arnold'  
**Subject:** FW: Gulf Oil Spill

---

**From:** Pierce O'Donnell [<mailto:pod@oslaw.com>]  
**Sent:** Thursday, April 29, 2010 5:09 PM  
**To:**  
**Subject:** Gulf Oil Spill

Dear Sir

I have been referred to you by my good friend Bob Bea.

I am one of several lawyers suing BP Global and Transocean in a federal class

action in New Orleans on behalf of commercial fishing, seafood, and charter boat businesses who will be devastated if (when) the oil slick hits land. I would like to speak with you about serving as a consulting expert to our legal team. Our legal team (with Dr. Bea our star witness) was the legal team that won the MR-GO lawsuit on behalf of Katrina victims against the Army Corps of Engineers . Could you please call me at 310 480 3366. I look forward to speaking with you. Thank you. Pierce O'Donnell

**From:** Ken Arnold  
**To:** Black, Steve;  
**Subject:** RE: Question  
**Date:** Thursday, May 27, 2010 11:12:12 AM

---

Steve

I have asked a few people. One was Ford Brett and he shared his answer to me. I don't think I can improve on that.

Ken

Kenneth E. (Ken) Arnold  
K Arnold Consulting, Inc.  
3031 Shadowdale  
Houston, TX 77043  
Cell: 832-212-0160  
Home: 713-939-1034  
[www.karnoldconsulting.com](http://www.karnoldconsulting.com)

---

**From:** Black, Steve [mailto:[steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)]  
**Sent:** Wednesday, May 26, 2010 7:28 PM  
**To:** [karnold@karnoldconsulting.com](mailto:karnold@karnoldconsulting.com)  
**Subject:** Question

Ken, good evening. Do you know whether any of the 33 active MODU's BOPs in GoM have 2 blind shear rams?

Many thanks.

Steve Black  
Counselor to the Secretary  
U.S. Department of the Interior  
1849 C Street, N.W., MS 7229  
Washington, D.C. 20240  
Phone: 202-208-4123  
Fax: 202-208-4561  
e-mail: [steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)



**From:** Bob Bea  
**To:** Kemkar, Neal;  
**Subject:** Re: FINAL 30-DAY SAFETY REPORT  
**Date:** Thursday, May 27, 2010 2:15:24 PM  
**Attachments:** DHSG Goals Statement.pdf

---

when does this report 'go public'. i would like to distribute to the members of our Deepwater Horizon Study Group ?????....see attached summary of goals. we are ready to help as requested.

bob

Kemkar, Neal wrote:

Final report and transmittal letter are attached, with thanks from the Secretary and the whole team.

Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

--

Professor Robert Bea, PhD, PE  
Department of Civil & Environmental Engineering  
212 McLaughlin Hall  
University of California Berkeley  
Berkeley, CA 94720-1710  
Telephone/fax 510-642-0967  
Telefax 510-643-8919  
Email: [bea@ce.berkeley.edu](mailto:bea@ce.berkeley.edu)

Home Office  
Risk Assessment & Management Services  
60 Shuey Drive  
Moraga, California 94556

Telephone 925-631-1587

Cell 925-699-3503

Email: BearRAMS@ 

**From:** Elmer Danenberger  
**To:** Kemkar, Neal;  
**Subject:** RE: FINAL 30-DAY SAFETY REPORT  
**Date:** Thursday, May 27, 2010 2:18:02 PM

---

Thanks Neal. Couple of quick questions:

1. Is it OK to distribute the report to interested parties?
2. To whom should I direct press inquiries?

bud

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** Thursday, May 27, 2010 1:55 PM  
**To:** Elmer Danenberger  
**Cc:** Black, Steve; Hanley, Kallie; Ishee, Mary Katherine  
**Subject:** FINAL 30-DAY SAFETY REPORT

Bud - Final report and transmittal letter are attached, with thanks from the Secretary and the whole team. We will be in touch shortly about next steps.

Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Kemkar, Neal  
**To:** "acstancell@"; "hans.juvkam-wold@pe.tamu.edu"; "per.holland@sintef.no"; "bbaugh@radoll.com"; "mechenevert@mail.utexas.edu"; "FBrett@Petroskills.com"; "bea@ce.berkeley.edu";  
**cc:** Black, Steve; Hanley, Kallie; pblair@nas.edu;  
**Subject:** U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Friday, May 14, 2010 7:50:07 PM  
**Attachments:** Peer Review - Consultant NonDisclosureAgmtFINAL.PDF

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As you heard from Dr. Peter Blair of the National Academies earlier this week, the U.S. Department of Interior (DOI) is preparing a report at the President's request which reviews and reports what, if any, additional precautions and technologies should be required to prevent accidents like the BP Oil Spill from happening again. The report is due to the President on May 28, 2010.

I am writing today to ask you to provide brief but important service in a peer review of our report on increased safety measures for energy development on the outer continental shelf.

As Dr. Blair indicated, we asked that the Academy identify a number of recognized academic and industry experts in the relevant fields to:

- (1) discuss informally with DOI officials the current state of the art of offshore drilling safety and blowout protection and the degree to which such practices are currently in use in the U.S. and incorporated broadly into industry best practices, and
- (2) to vet, again informally, a series of proposed recommendations the department is formulating that would be included in this report. After reviewing who was involved in ongoing related Academy activities and consultation with many colleagues, Dr. Blair's team generated a list of recommended experts, including you.

Although this discussion will be convened directly by us here in the Office of the Secretary of the Interior, not by the National Academies, the Academies have recommended that the DOI consider you as a discussant.

We will convene a 90-minute conference call of all interested discussants at **5pm eastern time on Monday, May 17, 2010.** The call will last until approximately 6:30pm.

If you are willing and available to participate, please **sign and return the attached non-disclosure agreement either to this email to return fax number +1-202-208-4561** before 3pm eastern time on Monday, May 17.

If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Hanley, Kallie  
**To:** Ford Brett;  
**cc:** Barkoff, Kendra; Kemkar, Neal;  
**Subject:** RE: Invite to Be an Expert at DOI Technical Briefing -- 3pm eastern today  
**Date:** Thursday, May 27, 2010 10:50:52 AM

---

Fantastic! Kendra will be in touch with details. Thank you Ford!

Kallie Hanley  
Office of the White House Liaison  
The U.S. Department of the Interior  
desk: (202) 208-5397 | cell: (202) 374-7694  
[kallie\\_hanley@ios.doi.gov](mailto:kallie_hanley@ios.doi.gov)

**From:** Ford Brett [mailto:FBrett@PetroSkills.com]  
**Sent:** Thursday, May 27, 2010 10:53 AM  
**To:** Hanley, Kallie  
**Cc:** Barkoff, Kendra  
**Subject:** Re: Invite to Be an Expert at DOI Technical Briefing -- 3pm eastern today

I'll be happy to participate.

Ford Brett

(m) +1 918 408 9516

On May 27, 2010, at 9:48 AM, "Hanley, Kallie" <[Kallie\\_Hanley@ios.doi.gov](mailto:Kallie_Hanley@ios.doi.gov)> wrote:

Ford

Would you like to participate in a quick "technical briefing" for reporters after we announce the 30-day safety report today at 3pm eastern? If so, please confirm with me and our press secretary, Kendra Barkoff ASAP.

Thank you,

Kallie Hanley  
Office of the White House Liaison  
The U.S. Department of the Interior

desk: (202) 208-5397 | cell: (202) 374-7694  
[kallie\\_hanley@ios.doi.gov](mailto:kallie_hanley@ios.doi.gov)

**From:** Barkoff, Kendra  
**To:** Benton Baugh; Kemkar, Neal; "Arnold Stancell";  
**cc:** Black, Steve; Hanley, Kallie;  
**Subject:** RE: Invite to Be an Expert at DOI Technical Briefing -- 3pm tomorrow  
**Date:** Thursday, May 27, 2010 8:07:46 AM

---

Thanks Benton,

Lets see if someone who is in the country can do it. Worse comes to worse, we can cal always get you a number.

Kendra

**From:** Benton Baugh [mailto:bbaugh@radoil.com]  
**Sent:** Thursday, May 27, 2010 2:12 AM  
**To:** Kemkar, Neal; 'Arnold Stancell'  
**Cc:** Black, Steve; Barkoff, Kendra; Hanley, Kallie  
**Subject:** RE: Invite to Be an Expert at DOI Technical Briefing -- 3pm tomorrow

I am willing but unsure if I can be of much help. I am on a cruise ship on the inside passage west of Canada and am not sure of the phone connections.

If you give me a number I will call in and try.

Benton

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** Wednesday, May 26, 2010 9:50 PM  
**To:** bbaugh@radoil.com; Arnold Stancell  
**Cc:** Black, Steve; Barkoff, Kendra; Hanley, Kallie  
**Subject:** Invite to Be an Expert at DOI Technical Briefing -- 3pm tomorrow

Benton and Arnie – would either or both of you like to participate in a quick “technical briefing” for reporters after we announce the 30-day safety report tomorrow at 3pm eastern? If so, please let our press secretary, Kendra Barkoff know by 10am eastern.

Thanks,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior

(202) 208-5379

From: Kemkar, Neal  
Sent: Friday, May 14, 2010 7:50 PM  
To: 'acstancell@██████████'; 'hans.juvkam-wold@pe.tamu.edu'; 'per.holland@sintef.no'; 'bbaugh@radoil.com'; 'mechenevert@mail.utexas.edu'; 'FBrett@Petroskills.com'; 'bea@ce.berkeley.edu'  
Cc: Black, Steve; Hanley, Kallie; pblair@nas.edu  
Subject: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
Importance: High

As you heard from Dr. Peter Blair of the National Academies earlier this week, the U.S. Department of Interior (DOI) is preparing a report at the President's request which reviews and reports what, if any, additional precautions and technologies should be required to prevent accidents like the BP Oil Spill from happening again. The report is due to the President on May 28, 2010.

I am writing today to ask you to provide brief but important service in a peer review of our report on increased safety measures for energy development on the outer continental shelf.

As Dr. Blair indicated, we asked that the Academy identify a number of recognized academic and industry experts in the relevant fields to:

- (1) discuss informally with DOI officials the current state of the art of offshore drilling safety and blowout protection and the degree to which such practices are currently in use in the U.S. and incorporated broadly into industry best practices, and
- (2) to vet, again informally, a series of proposed recommendations the department is formulating that would be included in this report. After reviewing who was involved in ongoing related Academy activities and consultation with many colleagues, Dr. Blair's team generated a list of recommended experts, including you.

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We will convene a 90-minute conference call of all interested discussants at 5pm eastern time on Monday, May 17, 2010. The call will last until approximately 6:30pm.

If you are willing and available to participate, please sign and return the attached non-disclosure agreement either to this email to return fax number +1-202-208-4561 before 3pm

eastern time on Monday, May 17.

If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

Neal Kemkar  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Benton Baugh  
**To:** Kemkar, Neal; "Arnold Stancell":  
**cc:** Black, Steve; Barkoff, Kendra; Hanley, Kallie;  
**Subject:** RE: Invite to Be an Expert at DOI Technical Briefing -- 3pm tomorrow  
**Date:** Thursday, May 27, 2010 2:12:52 AM

---

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**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** Wednesday, May 26, 2010 9:50 PM  
**To:** bbaugh@radoil.com; Arnold Stancell  
**Cc:** Black, Steve; Barkoff, Kendra; Hanley, Kallie  
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Benton and Arnie – would either or both of you like to participate in a quick “technical briefing” for reporters after we announce the 30-day safety report tomorrow at 3pm eastern? If so, please let our press secretary, Kendra Barkoff know by 10am eastern.

Thanks,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

From: Kemkar, Neal  
Sent: Friday, May 14, 2010 7:50 PM  
To: 'acstancell@'; 'hans.juvkam-wold@pe.tamu.edu'; 'per.holland@sintef.no'; 'bbaugh@radoil.com'; 'mechenevert@mail.utexas.edu'; 'FBrett@Petroskills.com'; 'bea@ce.berkeley.edu'  
Cc: Black, Steve; Hanley, Kallie; pblair@nas.edu

Subject: U.S. Department of Interior Peer Review Request for Offshore Energy  
Development Safety Report (Time-Sensitive)  
Importance: High

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If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

Neal Kemkar  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Per Holand  
**To:** Black, Steve; [hans.juvkam-wold@pe.tamu.edu](mailto:hans.juvkam-wold@pe.tamu.edu); Bob Bea; Ford Brett; [mechenevert@austin.utexas.edu](mailto:mechenevert@austin.utexas.edu); Arnold Stancell; Benton Baugh;  
**cc:** Kemkar, Neal; Hanley, Kallie;  
**Subject:** RE: Question re BOP stacks  
**Date:** Thursday, May 27, 2010 2:11:52 AM

---

Goodmorning.

Offshore Magazine each year publish a Worldwide survey of deepwater drilling rigs (Operational for > than 4000 feet). In this survey the number of rams for each rig is listed. The survey is on a big sheet that I cannot scan and send. On the sheet it is stated that it may be downloaded from [www.offshore-mag.com](http://www.offshore-mag.com), alternatively you may request a copy through E-mail to [posters@pennwell.com](mailto:posters@pennwell.com).

I have quickly gone through the 2008 version of this overview. The number of rams in each BOP was distributed as follows

Rig type	No of rigs with number of rams				
	3 rams	4 rams	5 rams	6 rams	7 rams
Dynamically positioned		26	30	21	1
Conventionally moored	1	34	8	1	

You can assume that most BOPs with 4 rams have one shear blind ram. BOPs with 5 rams may have one or two shear blind rams. BOPs with 6 rams should normally have two blind shear rams. Most rigs from after built after 2000 have 5 or more rams.

This is the worldwide data. I do not know how it is in the US GoM.

For the study I completed in 1999 that was based on 1996/1997 drilling, that should represent the deepwater (> 1000 feet) rigs in US GoM that time 1 of the 26 rigs had two blind shear rams. This BOP had four rams. One of the BOPs had five rams , but only one blind shear ram.

Best regards

**Per Holand**  
Senior Consultant, Ph.D.

**ExproSoft AS**  
Location: Prof. Brochs gt. 2, Trondheim, Norway  
Mail address: N-7465 Trondheim, Norway

Office phone: (+47) 73 20 04 08  
Mobile phone: (+47) 93 20 55 41  
Mail to: [per.holand@exprosoft.com](mailto:per.holand@exprosoft.com)  
Web: [www.exprosoft.com](http://www.exprosoft.com)

**From:** Black, Steve [mailto:[steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)]

**Sent:** 27. mai 2010 02:36

**To:** hans.juvkam-wold@pe.tamu.edu; Bob Bea; Ford Brett; Per Holand; mechenevert@austin.utexas.edu; Arnold Stancell; Benton Baugh

**Cc:** Kemkar, Neal; Hanley, Kallie

**Subject:** Question re BOP stacks

Good evening: I don't remember if one of us asked you this question. In connection with our proposed recommendation I.4, do you know whether any of the 33 active MODU's BOPs in GoM have 2 blind shear rams?

Many thanks.

Steve

Steve Black

Counselor to the Secretary

U.S. Department of the Interior

1849 C Street, N.W., MS 7229

Washington, D.C. 20240

Phone: 202-208-4123

Fax: 202-208-4561

e-mail: [steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)

**From:** Black, Steve  
**To:** Ford Brett;  
**cc:** hans.juvkam-wold@pe.tamu.edu; Bob Bea; Per Holand;  
mechenevert@austin.utexas.edu; Arnold Stancell; Benton Baugh;  
Kemkar, Neal; Hanley, Kallie;  
**Subject:** RE: Question re BOP stacks  
**Date:** Wednesday, May 26, 2010 9:32:47 PM

---

Thank Ford. I'll check w/ MMS in the morning. Thanks very much for the quick reply.

Steve

**From:** Ford Brett [mailto:FBrett@PetroSkills.com]  
**Sent:** Wednesday, May 26, 2010 9:02 PM  
**To:** Ford Brett  
**Cc:** Black, Steve; hans.juvkam-wold@pe.tamu.edu; Bob Bea; Per Holand; mechenevert@austin.utexas.edu; Arnold Stancell; Benton Baugh; Kemkar, Neal; Hanley, Kallie  
**Subject:** More: Question re BOP stacks

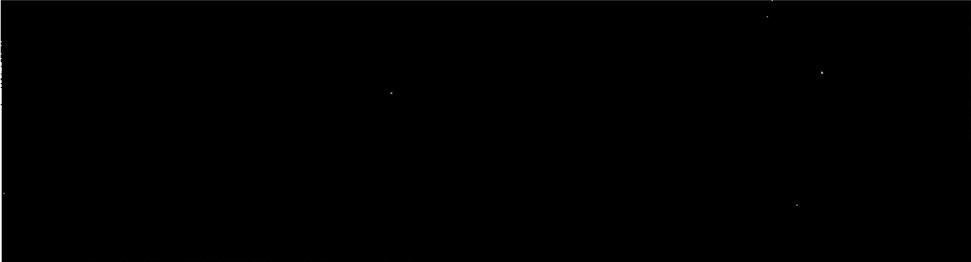


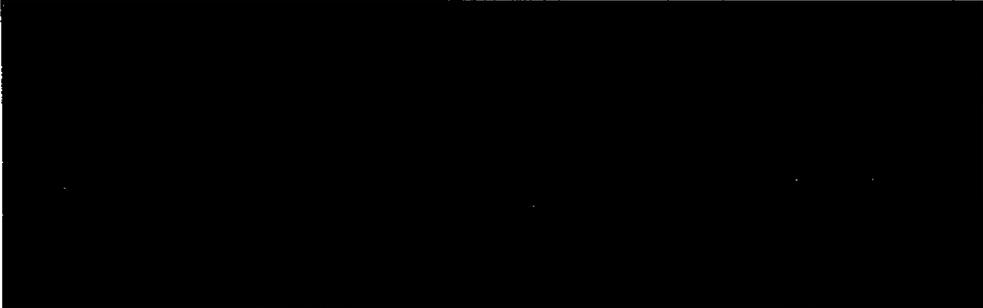
Ford Brett

(m) +1 918 408 9516

On May 26, 2010, at 7:55 PM, "Ford Brett" <[FBrett@PetroSkills.com](mailto:FBrett@PetroSkills.com)> wrote:

Steve





The question is answerable in about 2 hrs tomorrow AM. I you'd like me to run this down please let me know.

Ford Brett

(m) +1 918 408 9516

On May 26, 2010, at 7:36 PM, "Black, Steve"  
<[steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)> wrote:

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Steve

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Phone: 202-208-4123  
Fax: 202-208-4561  
e-mail: [steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)

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**To:** Ford Brett;  
**cc:** Black, Steve; hans.juvkam-wold@pe.tamu.edu; Bob Bea; Per Holand;  
mechenevert@austin.utexas.edu; Arnold Stancell; Benton Baugh;  
Kemkar, Neal; Hanley, Kallie;  
**Subject:** More: Question re BOP stacks  
**Date:** Wednesday, May 26, 2010 9:00:01 PM

---

Ford Brett

(m) +1 918 408 9516

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Steve



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you'd like me to run this down please let me know.

Ford Brett

(m) +1 918 408 9516

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<[steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)> wrote:

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Steve

Steve Black

Counselor to the Secretary

U.S. Department of the Interior

1849 C Street, N.W., MS 7229

Washington, D.C. 20240

Phone: 202-208-4123

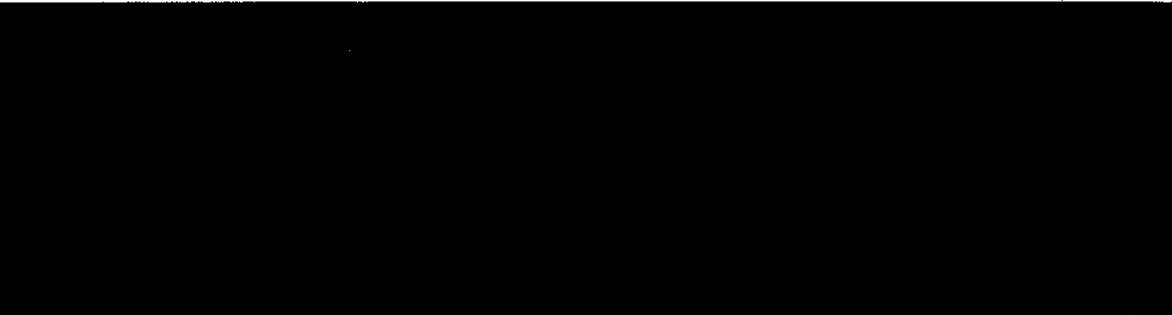
Fax: 202-208-4561

e-mail: [steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)

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**To:** Black, Steve;  
**cc:** hans.juvkam-wold@pe.tamu.edu; Bob Bea; Per Holand;  
mechenevert@austin.utexas.edu; Arnold Stancell; Benton Baugh;  
Kernkar, Neal; Hanley, Kalle;  
**Subject:** Re: Question re BOP stacks  
**Date:** Wednesday, May 26, 2010 8:55:19 PM

---

Steve



The question is answerable in about 2 hrs tomorrow AM. I you'd like me to run this down please let me know.

Ford Brett

(m) +1 918 408 9516

On May 26, 2010, at 7:36 PM, "Black, Steve" <[steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)> wrote:

Good evening: I don't remember if one of us asked you this question. In connection with our proposed recommendation I.4, do you know whether any of the 33 active MODU's BOPs in GoM have 2 blind shear rams?

Many thanks.

Steve

Steve Black

Counselor to the Secretary

U.S. Department of the Interior

1849 C Street, N.W., MS 7229

Washington, D.C. 20240

Phone: 202-208-4123

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e-mail: [steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)

**From:** Black, Steve  
**To:** hans.juvkam-wold@pe.tamu.edu; Bob Bea; Ford Brett; Per Holand;  
mechenevert@austin.utexas.edu; Arnold Stancell; Benton Baugh;  
**cc:** Kemkar, Neal; Hanley, Kallie;  
**Subject:** Question re BOP stacks  
**Date:** Wednesday, May 26, 2010 8:36:06 PM

---

Good evening: I don't remember if one of us asked you this question. In connection with our proposed recommendation I.4, do you know whether any of the 33 active MODU's BOPs in GoM have 2 blind shear rams?

Many thanks.

Steve

Steve Black  
Counselor to the Secretary  
U.S. Department of the Interior  
1849 C Street, N.W., MS 7229  
Washington, D.C. 20240  
Phone: 202-208-4123  
Fax: 202-208-4561  
e-mail: steve\_black@ios.doi.gov

**From:** Benton Baugh  
**To:** Kemkar, Neal; hans.juvkam-wold@pe.tamu.edu; FBrett@Petroskills.com; bea@ce.berkeley.edu; Per.Holand@exprosoft.com; "Chenevert, Martin E"; "Arnold Stancell";  
**cc:** Ishee, Mary Katherine; Hanley, Kalle; Black, Steve;  
**Subject:** RE: FINAL DRAFT REPORT ATTACHED: U.  
S. Department of Interior Peer Review for Offshore Energy Development Safety Report  
**Date:** Tuesday, May 25, 2010 8:43:46 PM  
**Attachments:** BAUGH COMMENTS MAY 25.doc

---

Regards,

Benton F. Baugh

*Radoil, Inc.*

**ISO 9001:2008**

12551 FM 529 RD  
Houston, TX 77041  
office: (713) 937-4494  
cell: (713) 419-8683  
bbaugh@radoil.com  
[www.radoil.com](http://www.radoil.com)

The information contained in this e-mail may contain confidential or privileged mater and is intended only for the stated addressee(s). If you are not a valid addressee, the use, disclosure, copying or distribution of this information is prohibited and may be unlawful. If you have received this message in error, please notify the sender immediately and delete all copies of the message from your computer.

**From:** Hanley, Kallie  
**To:** hans.juvkam-wold@pe.tamu.edu; Bob Bea; Ford Brett; Per Holand; mechenevert@austin.utexas.edu; Arnold Stancell; Benton Baugh;  
**cc:** Kemkar, Neal; Black, Steve; Ishee, Mary Katherine; Graves, Carmiece;  
**Subject:** Call today with Interior  
**Date:** Tuesday, May 25, 2010 10:38:18 AM  
**Attachments:** Interim Measures Report 100525 nk FINAL.PDF

---

Good Morning

Please confirm that you will be on today's follow-up conference call at 5:00pm eastern time. Additionally, please review the attached report in advance of today's call.

The conference call information for today's call:

Call in number: [REDACTED]  
Participant access code: [REDACTED]

Thank you,

**Kallie Hanley**  
Office of the White House Liaison  
The U.S. Department of the Interior  
desk: (202) 208-5397 | cell: (202) 374-7694  
[kallie\\_hanley@ios.doi.gov](mailto:kallie_hanley@ios.doi.gov)

---

**From:** Hanley, Kallie  
**Sent:** Monday, May 24, 2010 12:56 PM  
**To:** 'hans.juvkam-wold@pe.tamu.edu'; 'Bob Bea'; 'Ford Brett'; 'Per Holand'; 'mechenevert@austin.utexas.edu'; 'Arnold Stancell'; 'Benton Baugh'  
**Cc:** Kemkar, Neal; Black, Steve; Ishee, Mary Katherine; Graves, Carmiece  
**Subject:** NAE Peer Review Panel - follow up call

NAE Peer Review Panel Members:

We look forward to speaking with you on tomorrow's follow-up call: Tuesday, May 25 at 5:00pm Eastern Time. Please use the following conference call information:

Call in number: [REDACTED]  
Participant access code: [REDACTED]

Thank you,

**Kallie Hanley**  
Office of the White House Liaison  
The U.S. Department of the Interior  
desk: (202) 208-5397 | cell: (202) 374-7694  
[kallie\\_hanley@ios.doi.gov](mailto:kallie_hanley@ios.doi.gov)

**From:** Kemkar, Neal  
**To:** Kemkar, Neal; hans.juvkam-wold@pe.tamu.edu; bbaugh@radoil.com; FBrett@Petroskills.com; bea@ce.berkeley.edu; Per.Holand@exprosoft.com; Chenevert, Martin E; Arnold Stancell;  
**cc:** Ishee, Mary Katherine; Hanley, Kallie; Black, Steve;  
**Subject:** FINAL DRAFT REPORT ATTACHED: U. S. Department of Interior Peer Review for Offshore Energy Development Safety Report  
**Date:** Tuesday, May 25, 2010 9:30:26 AM  
**Attachments:** Interim Measures Report 100525 nk FINAL.pdf

---

Please review the final draft copy of the 30-day report in advance of our 5pm eastern time call this evening.

Thank you.  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Kemkar, Neal  
**Sent:** Friday, May 21, 2010 4:08 PM  
**To:** hans.juvkam-wold@pe.tamu.edu; bbaugh@radoil.com; FBrett@Petroskills.com; bea@ce.berkeley.edu; Per.Holand@exprosoft.com; 'Chenevert, Martin E'; 'Arnold Stancell'  
**Cc:** Ishee, Mary Katherine; Hanley, Kallie; Black, Steve  
**Subject:** MAY 25, 2010 5pm CALL: U.S. Department of Interior Peer Review for Offshore Energy Development Safety Report

Thank you for your earlier comments.

Please **HOLD Tuesday, May 25 from 5:00 to 6:30 eastern time** for a follow-up conversation.

Kallie Hanley will confirm the date and time and distribute meeting details in advance of the meeting.

Best,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Black, Steve

**Sent:** Sunday, May 16, 2010 10:16 PM  
**To:** hans.juvkam-wold@pe.tamu.edu; per.holland@sintef.no; bbaugh@radoil.com; FBrett@Petroskills.com; bea@ce.berkeley.edu  
**Cc:** Ishee, Mary Katherine; Kemkar, Neal; Hanley, Kallie  
**Subject:** FW: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Importance:** High

**CONFIDENTIAL DRAFT – PREDICISIONAL  
CONTAINS INTERAGENCY DELIBERATIVE PROCESS INFORMATION**  
This draft may not be disclosed under FOIA

---

Thank you for returning signed confidentiality and non-disclosure agreements. Further to Neal's message and request below, would you kindly review and be prepared to comment on the attached draft safety recommendations during the conference call tomorrow. These proposed recommendations are compiled from several sources. They are organized in four major topic categories, and they are formatted to show clearly some specific additional recommendations from the Department of Energy (DOE).

Thanks in advance for your assistance. We look forward to our discussion tomorrow.

Steve

Steve Black  
Counselor to the Secretary  
U.S. Department of the Interior  
1849 C Street, N.W., MS 7229  
Washington, D.C. 20240  
Phone: 202-208-4123  
Fax: 202-208-4561  
e-mail: [steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)

**From:** Kemkar, Neal  
**Sent:** Friday, May 14, 2010 7:50 PM  
**To:** 'acstancell@██████████'; 'hans.juvkam-wold@pe.tamu.edu'; 'per.holland@sintef.no'; 'bbaugh@radoil.com'; 'mechenevert@mail.utexas.edu'; 'FBrett@Petroskills.com'; 'bea@ce.berkeley.edu'  
**Cc:** Black, Steve; Hanley, Kallie; pblair@nas.edu  
**Subject:** U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

**Importance: High**

As you heard from Dr. Peter Blair of the National Academies earlier this week, the U.S. Department of Interior (DOI) is preparing a report at the President's request which reviews and reports what, if any, additional precautions and technologies should be required to prevent accidents like the BP Oil Spill from happening again. The report is due to the President on May 28, 2010.

I am writing today to ask you to provide brief but important service in a peer review of our report on increased safety measures for energy development on the outer continental shelf.

As Dr. Blair indicated, we asked that the Academy identify a number of recognized academic and industry experts in the relevant fields to:

- (1) discuss informally with DOI officials the current state of the art of offshore drilling safety and blowout protection and the degree to which such practices are currently in use in the U. S. and incorporated broadly into industry best practices, and
- (2) to vet, again informally, a series of proposed recommendations the department is formulating that would be included in this report. After reviewing who was involved in ongoing related Academy activities and consultation with many colleagues, Dr. Blair's team generated a list of recommended experts, including you.

Although this discussion will be convened directly by us here in the Office of the Secretary of the Interior, not by the National Academies, the Academies have recommended that the DOI consider you as a discussant.

We will convene a 90-minute conference call of all interested discussants at **5pm eastern time on Monday, May 17, 2010.** The call will last until approximately 6:30pm.

If you are willing and available to participate, please **sign and return the attached non-disclosure agreement either to this email to return fax number +1-202-208-4561** before 3pm eastern time on Monday, May 17.

If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Hanley, Kallie  
**To:** hans.juvkam-wold@pe.tamu.edu; Bob Bea; Ford Brett; Per Holand;  
mechenevert@austin.utexas.edu; Arnold Stancell; Benton Baugh;  
**cc:** Kemkar, Neal; Black, Steve; Ishee, Mary Katherine; Graves, Carmiece;  
**Subject:** NAE Peer Review Panel - follow up call  
**Date:** Monday, May 24, 2010 12:56:07 PM

---

NAE Peer Review Panel Members:

We look forward to speaking with you on tomorrow's follow-up call: Tuesday, May 25 at 5:00pm Eastern Time. Please use the following conference call information:

Call in number: [REDACTED]  
Participant access code: [REDACTED]

Thank you,

**Kallie Hanley**  
Office of the White House Liaison  
The U.S. Department of the Interior  
desk: (202) 208-5397 | cell: (202) 374-7694  
[kallie\\_hanley@ios.doi.gov](mailto:kallie_hanley@ios.doi.gov)

**From:** Hanley, Kallie  
**To:** hans.juvkam-wold@pe.tamu.edu;  
**cc:** Kemkar, Neal;  
**Subject:** bio information needed  
**Date:** Monday, May 24, 2010 9:52:03 AM

---

Hans

We are gathering the full affiliations/degrees of our NAE Peer Review Panel members. Please send me an email with listing that information as it pertains to you as soon as possible.

Thank you,

**Kallie Hanley**  
Office of the White House Liaison  
The U.S. Department of the Interior  
desk: (202) 208-5397 | cell: (202) 374-7694  
[kallie\\_hanley@ios.doi.gov](mailto:kallie_hanley@ios.doi.gov)

**From:** Juvkam-Wold, Hans  
**To:** Kemkar, Neal; bbaugh@radoil.com; FBrett@Petroskills.com; bea@ce.berkeley.edu; Per. Holand@exprosoft.com; Chenevert, Martin E; Arnold Stancell;  
**cc:** Ishee, Mary Katherine; Hanley, Kallie; Black, Steve;  
**Subject:** RE: MAY 25, 2010 5pm CALL; U.S. Department of Interior Peer Review for Offshore Energy Development Safety Report  
**Date:** Saturday, May 22, 2010 4:05:08 PM

---

All,

The following website provides a semi-technical analysis of the events that resulted in the blowout at the BP well in the GOM.

[www.theoil Drum.com/node6493#more](http://www.theoil Drum.com/node6493#more)

The analysis is based on what is known or believed at this time, so some of the conclusions may change.

I am sending this to you all because I am concerned that we may end up recommending regulatory changes that may or may not address the actual causes of this incident.

Hans

~~~~~

-----Original Message-----

From: Kemkar, Neal [[mailto:Neal\\_Kemkar@ios.doi.gov](mailto:Neal_Kemkar@ios.doi.gov)]  
Sent: Fri 5/21/2010 3:07 PM  
To: Juvkam-Wold, Hans; bbaugh@radoil.com; FBrett@Petroskills.com; bea@ce.berkeley.edu; Per.Holand@exprosoft.com; Chenevert, Martin E; Arnold Stancell  
Cc: Ishee, Mary Katherine; Hanley, Kallie; Black, Steve  
Subject: MAY 25, 2010 5pm CALL: U.S. Department of Interior Peer Review for Offshore Energy Development Safety Report

Thank you for your earlier comments.

Please HOLD Tuesday, May 25 from 5:00 to 6:30 eastern time for a follow-up conversation.

Kallie Hanley will confirm the date and time and distribute meeting details in advance of the meeting.

Best,  
Neal

Neal Kemkar  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

From: Black, Steve  
Sent: Sunday, May 16, 2010 10:16 PM  
To: hans.juvkam-wold@pe.tamu.edu; per.holland@sintef.no; bbaugh@radoil.com; FBrett@Petroskills.com; bea@ce.berkeley.edu  
Cc: Ishee, Mary Katherine; Kemkar, Neal; Hanley, Kallie  
Subject: FW: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
Importance: High

CONFIDENTIAL DRAFT - PREDICISIONAL  
CONTAINS INTERAGENCY DELIBERATIVE PROCESS INFORMATION  
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Thank you for returning signed confidentiality and non-disclosure agreements. Further to Neal's message and request below, would you kindly review and be prepared to comment on the attached draft safety recommendations during the conference call tomorrow. These proposed recommendations are compiled from several sources. They are organized in four major topic categories, and they are formatted to show clearly some specific additional recommendations from the Department of Energy (DOE).

Thanks in advance for your assistance. We look forward to our discussion tomorrow.

Steve.

Steve Black  
Counselor to the Secretary  
U.S. Department of the Interior  
1849 C Street, N.W., MS 7229  
Washington, D.C. 20240  
Phone: 202-208-4123  
Fax: 202-208-4561  
e-mail: [steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)<[mailto:steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)>

From: Kemkar, Neal  
Sent: Friday, May 14, 2010 7:50 PM  
To: 'acstancell@'; 'hans.juvkam-wold@pe.tamu.edu'; 'per.holland@sintef.no'; 'bbaugh@radoil.com'; 'mechenevert@mail.utexas.edu'; 'FBrett@Petroskills.com'; 'bea@ce.berkeley.edu'  
Cc: Black, Steve; Hanley, Kallie; pblair@nas.edu  
Subject: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
Importance: High

As you heard from Dr. Peter Blair of the National Academies earlier this week, the U.S. Department of Interior (DOI) is preparing a report at the President's request which reviews and reports what, if any, additional precautions and technologies should be

required to prevent accidents like the BP Oil Spill from happening again. The report is due to the President on May 28, 2010.

I am writing today to ask you to provide brief but important service in a peer review of our report on increased safety measures for energy development on the outer continental shelf.

As Dr. Blair indicated, we asked that the Academy identify a number of recognized academic and industry experts in the relevant fields to:

- (1) discuss informally with DOI officials the current state of the art of offshore drilling safety and blowout protection and the degree to which such practices are currently in use in the U.S. and incorporated broadly into industry best practices, and
- (2) to vet, again informally, a series of proposed recommendations the department is formulating that would be included in this report. After reviewing who was involved in ongoing related Academy activities and consultation with many colleagues, Dr. Blair's team generated a list of recommended experts, including you.

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If you are willing and available to participate, please sign and return the attached non-disclosure agreement either to this email to return fax number +1-202-208-4561 before 3pm eastern time on Monday, May 17.

If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

Neal Kemkar  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Bob Bea  
**To:** Kemkar, Neal;  
**cc:** hans.juvkam-wold@pe.tamu.edu; bbaugh@radoil.com; FBrett@Petroskills.com; Per. Holland@exprosoft.com; Chenevert, Martin E; Arnold Stancell; Ishee, Mary Katherine; Hanley, Kallie; Black, Steve;  
**Subject:** Re: MAY 25, 2010 5pm CALL: U.  
S. Department of Interior Peer Review for Offshore Energy Development Safety Report  
**Date:** Saturday, May 22, 2010 3:12:07 PM  
**Attachments:** BobBeaPreliminaryAnalysesrev5.pdf

---

attached is update i prepared after our last tele conference.

i will be on standby for the tuesday call access instructions.

have a great weekend.

bob

Kemkar, Neal wrote:

Thank you for your earlier comments.

Please **HOLD Tuesday, May 25 from 5:00 to 6:30 eastern time** for a follow-up conversation.

Kallie Hanley will confirm the date and time and distribute meeting details in advance of the meeting.

Best,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Black, Steve  
**Sent:** Sunday, May 16, 2010 10:16 PM  
**To:** hans.juvkam-wold@pe.tamu.edu; per.holland@sintef.no; bbaugh@radoil.com; FBrett@Petroskills.com; bea@ce.berkeley.edu  
**Cc:** Ishee, Mary Katherine; Kemkar, Neal; Hanley, Kallie  
**Subject:** FW: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Importance:** High

**CONFIDENTIAL DRAFT -- PREDICISIONAL**

**CONTAINS INTERAGENCY DELIBERATIVE PROCESS  
INFORMATION**

**This draft may not be disclosed under FOIA**

---

Thank you for returning signed confidentiality and non-disclosure agreements. Further to Neal's message and request below, would you kindly review and be prepared to comment on the attached draft safety recommendations during the conference call tomorrow. These proposed recommendations are compiled from several sources. They are organized in four major topic categories, and they are formatted to show clearly some specific additional recommendations from the Department of Energy (DOE).

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Steve

Steve Black  
Counselor to the Secretary  
U.S. Department of the Interior  
1849 C Street, N.W., MS 7229  
Washington, D.C. 20240  
Phone: 202-208-4123  
Fax: 202-208-4561  
e-mail: [steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)

**From:** Kemkar, Neal  
**Sent:** Friday, May 14, 2010 7:50 PM  
**To:** 'acstancell@██████████'; 'hans.juvkam-wold@pe.tamu.edu'; 'per.holland@sintef.no'; 'bbaugh@radoil.com'; 'mechenevert@mail.utexas.edu'; 'FBrett@Petroskills.com'; 'bea@ce.berkeley.edu'  
**Cc:** Black, Steve; Hanley, Kallie; [pblair@nas.edu](mailto:pblair@nas.edu)  
**Subject:** U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Importance:** High

As you heard from Dr. Peter Blair of the National Academies earlier this week, the U. S. Department of Interior (DOI) is preparing a report at the President's request which reviews and reports what, if any, additional precautions and technologies should be required to prevent accidents like the BP Oil Spill from happening again.

The report is due to the President on May 28, 2010.

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As Dr. Blair indicated, we asked that the Academy identify a number of recognized academic and industry experts in the relevant fields to:

(1) discuss informally with DOI officials the current state of the art of offshore drilling safety and blowout protection and the degree to which such practices are currently in use in the U.S. and incorporated broadly into industry best practices, and  
(2) to vet, again informally, a series of proposed recommendations the department is formulating that would be included in this report. After reviewing who was involved in ongoing related Academy activities and consultation with many colleagues, Dr. Blair's team generated a list of recommended experts, including you.

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If you are willing and available to participate, please **sign and return the attached non-disclosure agreement either to this email to return fax number +1-202-208-4561** before 3pm eastern time on Monday, May 17.

If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

--  
Professor Robert Bea, PhD, PE

Department of Civil & Environmental Engineering  
212 McLaughlin Hall  
University of California Berkeley  
Berkeley, CA 94720-1710  
Telephone/fax 510-642-0967  
Telefax 510-643-8919  
Email: [bea@ce.berkeley.edu](mailto:bea@ce.berkeley.edu)

Home Office  
Risk Assessment & Management Services  
60 Shuey Drive  
Moraga, California 94556  
Telephone 925-631-1587  
Cell 925-699-3503  
Email: [BeaRAMS](mailto:BeaRAMS) [REDACTED]

**From:** Hanley, Kallie  
**To:** "bea@ce.berkeley.edu";  
**cc:** Kemkar, Neal;  
**Subject:** RE: Summary of my preliminary findings and thoughts about the Deepwater Horizon failures  
**Date:** Thursday, May 20, 2010 3:07:05 PM

---

Dr. Bea

Have you been able to attach your document and resend? We look forward to reviewing it.

Thank you,

Kallie Hanley  
Office of the White House Liaison  
The U.S. Department of the Interior  
desk: (202) 208-5397 | cell: (202) 374-7694  
kallie\_hanley@ios.doi.gov

-----Original Message-----

**From:** Kemkar, Neal  
**Sent:** Wednesday, May 19, 2010 9:15 AM  
**To:** 'bea@ce.berkeley.edu'; Hanley, Kallie  
**Subject:** Re: Summary of my preliminary findings and thoughts about the Deepwater Horizon failures

Many thanks Bob. We look forward to reviewing.

----- Original Message -----

**From:** Robert Bea <bea@ce.berkeley.edu>  
**To:** Kemkar, Neal; Hanley, Kallie  
**Sent:** Wed May 19 06:42:00 2010  
**Subject:** Summary of my preliminary findings and thoughts about the Deepwater Horizon failures

attached as you requested is summary of my preliminary findings and thoughts about the Deepwater Horizon failures and recommendations for the future continuation of this important activity.

thank you for the opportunity to help with this important project.

bob

---

Professor Robert Bea, PhD, PE  
Center for Catastrophic Risk Management  
Department of Civil & Environmental Engineering  
212 McLaughlin Hall  
Berkeley, CA 94720-1710  
(510) 642-0967  
(510) 643-8919 (fax)

Email: Bea@ce.berkeley.edu

Home Office  
Risk Assessment & Management Services  
60 Shuey Drive  
Moraga, CA 94556  
925 631-1587 (phone & fax)  
(925) 699-3503 (cell phone)  
Email: BeaRAMS@[REDACTED]

**From:** Black, Steve  
**To:** Ford Brett; Kemkar, Neal;  
**cc:** Ishee, Mary Katherine; Hanley, Kallie;  
**Subject:** RE: Brett Comments: U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Tuesday, May 18, 2010 3:25:04 PM

---

Ford, thank you. These are very helpful comments, including your editorial comments. Many thanks for your timely response.

Steve

**From:** Ford Brett [mailto:FBrett@PetroSkills.com]  
**Sent:** Tuesday, May 18, 2010 1:11 PM  
**To:** Kemkar, Neal; Black, Steve  
**Cc:** Ishee, Mary Katherine; Hanley, Kallie  
**Subject:** Brett Comments: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Neal and Steve --

As I understand my instructions, I was NOT to send to other 'discussants'.

Attached are my Suggested Revisions (should be in purple), and my "Editorial Comments" (*shown in purple parenthetical italics*) – to explaining my thinking. These comments may be helpful in combining with other 'discussants'. Besides edits to the current recommendations, I've added unique ideas, and have highlighted the purple edits in yellow.

I've included a one page general comment at the bottom of the document, that explains my approach to the '30 day effort' as I understand it.

One comment that I didn't include: I'd say who(m?) ever came up with this original did a pretty good job to start with. I hope my contribution helps.

I'm at DC time + 6hrs – call any time at 918-408-9516 if I can be helpful, (or email [fbrett@petroskills.com](mailto:fbrett@petroskills.com)).

Thank you for your efforts. Please let me know if I can be of further assistance.

Sincerely,

Ford Brett  
President  
**PetroSkills**  
(o) +1 918 828 2511 (*I pick up messages frequently*)  
(m) +1 918 408 9516 (*works in most of world*)  
Skype Ford.Brett  
or call Rozanne at +1 918 828 2505

[www.PetroSkills.com](http://www.PetroSkills.com)

---

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** Friday, May 14, 2010 6:50 PM  
**To:** 'acstancell@██████████'; 'hans.juvkam-wold@pe.tamu.edu'; 'per.holland@sintef.no'; 'bbaugh@radoil.com'; 'mechenevert@mail.utexas.edu'; Ford Brett; 'bea@ce.berkeley.edu'  
**Cc:** Black, Steve; Hanley, Kallie; pblair@nas.edu

**Subject:** U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Importance:** High

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- (2) to vet, again informally, a series of proposed recommendations the department is formulating that would be included in this report. After reviewing who was involved in ongoing related Academy activities and consultation with many colleagues, Dr. Blair's team generated a list of recommended experts, including you.

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If you are willing and available to participate, please **sign and return the attached non-disclosure agreement either to this email to return fax number +1-202-208-4561** before 3pm eastern time on Monday, May 17.

If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Black, Steve  
**To:** "Per.Holand@exprosoft.com"; Kemkar, Neal;  
**cc:** Hanley, Kallie;  
**Subject:** Re: U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Tuesday, May 18, 2010 8:46:17 AM

---

Per, thank you very much for your prompt reply and helpful comments.

Steve

---

**From:** Per Holand <Per.Holand@exprosoft.com>  
**To:** Kemkar, Neal  
**Cc:** Hanley, Kallie; Black, Steve  
**Sent:** Tue May 18 08:24:50 2010  
**Subject:** RE: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Neal

Please find enclosed your document modified by me with track changes.

I have only commented on the BOP issues. I have deleted some of your proposed actions that I found not be practical and I have added some new and modified some.

I hope that you find my comments useful.

Best regards

**Per Holand**  
Senior Consultant, Ph.D.

**ExproSoft AS**  
Location: Prof. Brochs gt. 2, Trondheim, Norway  
Mail address: N-7465 Trondheim, Norway

Office phone: (+47) 73 20 04 08  
Mobile phone: (+47) 93 20 55 41  
Mail to: [per.holand@exprosoft.com](mailto:per.holand@exprosoft.com)  
Web: [www.exprosoft.com](http://www.exprosoft.com)

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** 15. mai 2010 18:12  
**To:** Per Holand  
**Cc:** Hanley, Kallie; Black, Steve

**Subject:** Re: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Thanks Per. Glad you can make the call--sorry for the late hour in your time zone. Look forward to speaking on Monday.

Neal

---

**From:** Per Holand <Per.Holand@exprosoft.com>  
**To:** Kemkar, Neal  
**Cc:** Hanley, Kallie; Black, Steve  
**Sent:** Sat May 15 06:32:41 2010  
**Subject:** RE: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Neal

I am willing to be a peer reviewer. Please find enclosed the signed Non-disclosure agreement.

I can participate in the conference call on Monday 17<sup>th</sup> of May, it will be at 2300 Norwegian time.

If you instead want to contact me separately that is OK as well, but then it has to be on Tuesday 18<sup>th</sup> of May.

Best regards

**Per Holand**  
Senior Consultant, Ph.D.

**ExproSoft AS**  
Location: Prof. Brochs gt. 2, Trondheim, Norway  
Mail address: N-7465 Trondheim, Norway

Office phone: (+47) 73 20 04 08  
Mobile phone: (+47) 93 20 55 41  
Mail to: [per.holand@exprosoft.com](mailto:per.holand@exprosoft.com)  
Web: [www.exprosoft.com](http://www.exprosoft.com)

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** 15. mai 2010 01:54  
**To:** Per Holand  
**Cc:** Hanley, Kallie; Black, Steve  
**Subject:** FW: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Importance:** High

Per – good to talk to you earlier this week.

I recognize you are unlikely to make this conference call given the time difference but please work with Kallie to set up a separate 30 minute check-in call with Kallie and me if you are willing to be a peer reviewer as described below.

Thanks,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

As you heard from Dr. Peter Blair of the National Academies earlier this week, the U.S. Department of Interior (DOI) is preparing a report at the President's request which reviews and reports what, if any, additional precautions and technologies should be required to prevent accidents like the BP Oil Spill from happening again. The report is due to the President on May 28, 2010.

I am writing today to ask you to provide brief but important service in a peer review of our report on increased safety measures for energy development on the outer continental shelf.

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- (1) discuss informally with DOI officials the current state of the art of offshore drilling safety and blowout protection and the degree to which such practices are currently in use in the U.S. and incorporated broadly into industry best practices, and
- (2) to vet, again informally, a series of proposed recommendations the department is formulating that would be included in this report. After reviewing who was involved in ongoing related Academy activities and consultation with many colleagues, Dr. Blair's team generated a list of recommended experts, including you.

Although this discussion will be convened directly by us here in the Office of the Secretary of the Interior, not by the National Academies, the Academies have recommended that the DOI consider you as a discussant.

We will convene a 90-minute conference call of all interested discussants at **5pm eastern time on Monday, May 17, 2010**. The call will last until approximately 6:30pm.

If you are willing and available to participate, please **sign and return the attached non-disclosure agreement either to this email to return fax number +1-202-208-4561** before 3pm eastern time on Monday, May 17.

If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

**From:** [Hanley, Kallie](#)  
**To:** [mechenevert@austin.utexas.edu](mailto:mechenevert@austin.utexas.edu); [Arnold Stancell](#);  
**cc:** [Kemkar, Neal](#);  
**Subject:** U,  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Monday, May 17, 2010 2:28:25 PM  
**Attachments:** [100516 Candidate Recommendations.doc](#)

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Mr. Chenevert and Mr. Stancell:

Please see the email below from Steve Black, Counselor to the Secretary to the other participants in the NAE Peer Review Panel.

The conference call will be today at 5:00pm Eastern. Please use the following call-in information:

Call-in number: [REDACTED]  
Participant code: [REDACTED]

Please call my cell phone at 202-374-7694 if you have any questions.

Thanks,

Kallie Hanley  
Office of the White House Liaison  
The U.S. Department of the Interior  
desk: (202) 208-5397 | cell: (202) 374-7694  
[kallie\\_hanley@ios.doi.gov](mailto:kallie_hanley@ios.doi.gov)

---

**From:** Black, Steve  
**Sent:** Sunday, May 16, 2010 10:16 PM  
**To:** [hans.juvkam-wold@pe.tamu.edu](mailto:hans.juvkam-wold@pe.tamu.edu); [per.holland@sintef.no](mailto:per.holland@sintef.no); [bbaugh@radoil.com](mailto:bbaugh@radoil.com); [FBrett@Petroskills.com](mailto:FBrett@Petroskills.com); [bea@ce.berkeley.edu](mailto:bea@ce.berkeley.edu)  
**Cc:** Ishee, Mary Katherine; Kemkar, Neal; Hanley, Kallie  
**Subject:** FW: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Importance:** High

**CONFIDENTIAL DRAFT – PREDICISIONAL  
CONTAINS INTERAGENCY DELIBERATIVE PROCESS INFORMATION**

This draft may not be disclosed under FOIA

---

Thank you for returning signed confidentiality and non-disclosure agreements. Further to Neal's message and request below, would you kindly review and be prepared to comment on the attached draft safety recommendations during the conference call tomorrow. These proposed recommendations are compiled from several sources. They are organized in four major topic categories, and they are formatted to show clearly some specific additional recommendations from the Department of Energy (DOE).

Thanks in advance for your assistance. We look forward to our discussion tomorrow.

Steve

Steve Black  
Counselor to the Secretary  
U.S. Department of the Interior  
1849 C Street, N.W., MS 7229  
Washington, D.C. 20240  
Phone: 202-208-4123  
Fax: 202-208-4561  
e-mail: [steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)

**From:** Kemkar, Neal  
**Sent:** Friday, May 14, 2010 7:50 PM  
**To:** 'acstancell@'; 'hans.juvkam-wold@pe.tamu.edu'; 'per.holland@sintef.no'; 'bbaugh@radoil.com'; 'mechenevert@mail.utexas.edu'; 'FBrett@Petroskills.com'; 'bea@ce.berkeley.edu'  
**Cc:** Black, Steve; Hanley, Kallie; pblair@nas.edu  
**Subject:** U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Importance:** High

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If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Black, Steve  
**To:** Per.Holand@exprosoft.com; "hans.juvkam-wold@pe.tamu.edu";  
"bbaugh@radoil.com"; "FBrett@Petroskills.com"; "bea@ce.berkeley.edu";  
acstancell@  
**cc:** Ishee, Mary Katherine; Kemkar, Neal; Hanley, Kalle;  
**Subject:** API Task Force Recommendations  
**Date:** Monday, May 17, 2010 1:37:40 PM  
**Attachments:** DRAFT JITF Recommendations.pdf  
65-2 e1.pdf  
IADC HSE Case Guidelines-MODU Offshore.pdf

---

All – in further preparation for this evening's conference call, please see the attached draft recommendations from the API task forces. I received these earlier today. Please do not distribute without permission from API.

Please contact one of us if you have any questions. Thanks for your assistance.

Steve

Steve Black  
Counselor to the Secretary  
U.S. Department of the Interior  
1849 C Street, N.W., MS 7229  
Washington, D.C. 20240  
Phone: 202-208-4123  
Fax: 202-208-4561  
e-mail: steve\_black@ios.doi.gov

**From:** Black, Steve  
**To:** [Per.Holand@exprosoft.com](mailto:Per.Holand@exprosoft.com);  
**cc:** [Kernkar, Neal](#); [Hanley, Kallie](#);  
**Subject:** FW: U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Sunday, May 16, 2010 10:19:28 PM  
**Attachments:** [100516 Candidate Recommendations.doc](#)

---

Dr. Holand, please see below. My e-mail to your address below was returned undeliverable.

Thank you.

Steve

**From:** Black, Steve  
**Sent:** Sunday, May 16, 2010 10:16 PM  
**To:** [hans.juvkam-wold@pe.tamu.edu](mailto:hans.juvkam-wold@pe.tamu.edu); [per.holland@sintef.no](mailto:per.holland@sintef.no); [bbaugh@radoil.com](mailto:bbaugh@radoil.com); [FBrett@Petroskills.com](mailto:FBrett@Petroskills.com); [bea@ce.berkeley.edu](mailto:bea@ce.berkeley.edu)  
**Cc:** Ishee, Mary Katherine; [Kernkar, Neal](#); [Hanley, Kallie](#)  
**Subject:** FW: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Importance:** High

**CONFIDENTIAL DRAFT – PREDICISIONAL  
CONTAINS INTERAGENCY DELIBERATIVE PROCESS INFORMATION**  
This draft may not be disclosed under FOIA

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Thanks in advance for your assistance. We look forward to our discussion tomorrow.

Steve

Steve Black  
Counselor to the Secretary  
U.S. Department of the Interior  
1849 C Street, N.W., MS 7229  
Washington, D.C. 20240  
Phone: 202-208-4123  
Fax: 202-208-4561  
e-mail: [steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)

**From:** Kemkar, Neal

**Sent:** Friday, May 14, 2010 7:50 PM

**To:** 'acstancell@██████████'; 'hans.juvkam-wold@pe.tamu.edu'; 'per.holland@sintef.no'; 'bbaugh@radoil.com'; 'mechenevert@mail.utexas.edu'; 'FBrett@Petroskills.com'; 'bea@ce.berkeley.edu'

**Cc:** Black, Steve; Hanley, Kallie; pblair@nas.edu

**Subject:** U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

**Importance:** High

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Best,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Black, Steve  
**To:** hans.juvkam-wold@pe.tamu.edu; per.holland@sintef.no; bbaugh@radoil.com; FBrett@Petroskills.com; bea@ce.berkeley.edu;  
**cc:** Ishie, Mary Katherine; Kernkar, Neal; Hanley, Kallie;  
**Subject:** FW: U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Sunday, May 16, 2010 10:15:31 PM  
**Attachments:** 100516 Candidate Recommendations.doc

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**CONFIDENTIAL DRAFT – PREDICISIONAL  
CONTAINS INTERAGENCY DELIBERATIVE PROCESS INFORMATION**

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Phone: 202-208-4123  
Fax: 202-208-4561  
e-mail: [steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)

---

**From:** Kemkar, Neal  
**Sent:** Friday, May 14, 2010 7:50 PM  
**To:** 'acstancell@'; 'hans.juvkam-wold@pe.tamu.edu'; 'per.holland@sintef.no'; 'bbaugh@radoil.com'; 'mechenevert@mail.utexas.edu'; 'FBrett@Petroskills.com'; 'bea@ce.berkeley.edu'  
**Cc:** Black, Steve; Hanley, Kallie; pblair@nas.edu  
**Subject:** U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Importance:** High

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Best,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Hanley, Kallie  
**To:** Per Holand;  
**cc:** Kemkar, Neal;  
**Subject:** NAE peer review panel call with DOI tomorrow 5.17 at 5pm Eastern  
**Date:** Sunday, May 16, 2010 2:53:49 PM

---

Thank you for agreeing to participate in the NAE Peer Review Panel. We would like to convene the panel for a call tomorrow, Monday, May 17th at 5pm Eastern. Please use the following conference call number:

Call in number: [REDACTED]  
Participant Access Code: [REDACTED]

Please let us know if you have any questions before then. We look forward to speaking with you tomorrow.

Thanks,

**Kallie Hanley**  
Office of the White House Liaison  
The U.S. Department of the Interior  
desk: (202) 208-5397 | cell: (202) 374-7694  
[kallie\\_hanley@ios.doi.gov](mailto:kallie_hanley@ios.doi.gov)

**From:** Hanley, Kallie  
**To:** hans.juvkam-wold@pe.tamu.edu; per.holland@sintef.no; bbaugh@radoil.com; FBrett@Petroskills.com; bea@ce.berkeley.edu;  
**cc:** Kemkar, Neal;  
**Subject:** NAE peer review panel call with DOI tomorrow 5.17 at 5pm Eastern  
**Date:** Sunday, May 16, 2010 2:52:20 PM

---

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**Kallie Hanley**  
Office of the White House Liaison  
The U.S. Department of the Interior  
desk: (202) 208-5397 | cell: (202) 374-7694  
[kallie\\_hanley@ios.doi.gov](mailto:kallie_hanley@ios.doi.gov)

**From:** Bob Bea  
**To:** Kemkar, Neal;  
**cc:** "acstancell@"; "hans.juvkam-wold@pe.tamu.edu"; "per.holland@sintef.no"; "bbaugh@radoll.com"; "mechenevert@mail.utexas.edu"; "FBrett@Petroskills.com"; Black, Steve; Hanley, Kallie; pblair@nas.edu;  
**Subject:** Re: U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Saturday, May 15, 2010 5:50:56 PM  
**Attachments:** DOI Agreement May 15, 2010.pdf  
OTC02-14293-deepwater operations HOF.pdf  
Professor Bob Bea- CCRM Deepwater Horizon.pdf

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Attached is the completed signed disclosure agreement. I have attached my summary resume.

With the assistance of my colleagues, I am preparing a short list of key elements I suggest to position the DOI - MMS as a world leader in the regulatory regimes associated with the offshore oil and gas infrastructure. I plan to send that list to you before I depart for DC early Monday morning.

Attached is a paper I published in the 2002 Proceedings of the Offshore Technology Conference that applies to the design and operation of deepwater offshore structures. The Risk Based Management (RBM) approaches and strategies have been employed by several major offshore platform and pipeline operators (e.g. Woodside Energy Ltd, Chevron, Unocal, Amoco). I think RBM should form one of the major building blocks of an advanced U.S. industry - government regulatory regime. RBM has proven to be an important part of the offshore platform and pipeline regimes implemented by the Norwegian Petroleum Directorate and the UK Health and Safety Executive.

I look forward to making contributions to this very important effort. Thank you for inviting me to help.

Bob Bea

Kemkar, Neal wrote:

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Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

--  
Professor Robert Bea, PhD, PE  
Department of Civil & Environmental Engineering  
212 McLaughlin Hall  
University of California Berkeley  
Berkeley, CA 94720-1710  
Telephone/fax 510-642-0967  
Telefax 510-643-8919  
Email: [bea@ce.berkeley.edu](mailto:bea@ce.berkeley.edu)

Home Office  
Risk Assessment & Management Services  
60 Shuey Drive  
Moraga, California 94556  
Telephone 925-631-1587  
Cell 925-699-3503  
Email: [BeaRAMS@](mailto:BeaRAMS@) 

**From:** Benton Baugh  
**To:** Kemkar, Neal; acstancell@msn.com; hans.juvkam-wold@pe.tamu.edu; per.holland@sintef.no; mechenevert@mail.utexas.edu; FBrett@Petroskills.com; bea@ce.berkeley.edu;  
**cc:** Black, Steve; Hanley, Kallie; pblair@nas.edu;  
**Subject:** RE: U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Saturday, May 15, 2010 12:55:14 PM  
**Attachments:** BAUGH NON-DISCLOSURE.pdf

---

Neal: Let me know if this is adequate.

Regards,

Benton F. Baugh

*Radoil, Inc.*

ISO 9001:2008

12551 FM 529 RD  
Houston, TX 77041  
office: (713) 937-4494  
cell: (713) 419-8683  
bbaugh@radoil.com  
[www.radoil.com](http://www.radoil.com)

The information contained in this e-mail may contain confidential or privileged mater and is intended only for the stated addressee(s). If you are not a valid addressee, the use, disclosure, copying or distribution of this information is prohibited and may be unlawful. If you have received this message in error, please notify the sender immediately and delete all copies of the message from your computer.

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** Friday, May 14, 2010 6:50 PM  
**To:** 'acstancell@'; 'hans.juvkam-wold@pe.tamu.edu'; 'per.holland@sintef.no'; 'bbaugh@radoil.com'; 'mechenevert@mail.utexas.edu'; 'FBrett@Petroskills.com'; 'bea@ce.berkeley.edu'  
**Cc:** Black, Steve; Hanley, Kallie; pblair@nas.edu  
**Subject:** U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Importance:** High

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- (2) to vet, again informally, a series of proposed recommendations the department is formulating that would be included in this report. After reviewing who was involved in ongoing related Academy activities and consultation with many colleagues, Dr. Blair's team generated a list of recommended experts, including you.

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We will convene a 90-minute conference call of all interested discussants at 5pm eastern time on Monday, May 17, 2010. The call will last until approximately 6:30pm.

If you are willing and available to participate, please sign and return the attached non-disclosure agreement either to this email to return fax number +1-202-208-4561 before 3pm eastern time on Monday, May 17.

If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Bob Bea  
**To:** Kernkar, Neal;  
**cc:** "acstaricell@██████████hans.juvkam-wold@pe.tamu.edu"; "per.holland@sintef.no"; "bbaugh@radoil.com"; "mechenevert@mail.utexas.edu"; "FBrett@Petroskills.com"; Black, Steve; Hanley, Kallie; pblair@nas.edu;  
**Subject:** Re: U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Friday, May 14, 2010 8:32:12 PM

---

Happy Friday Evening Neal (and others),

i will arrive at Kennedy airport at 4:09 PM EST. i do not think i can travel from the airport to my hotel and be checked in (Embassy Suites, 900 10 th Street NW) by the time of the conference call. given that we can address my concerns regarding the non-disclosure agreement (see below), i will connect with the conference call as soon as i can from the hotel.

i will be in Washington from Monday evening through Thursday evening. i have a meeting scheduled for Tuesday. i have tentative meetings scheduled for Thursday (the Thursday PM meeting can be rescheduled). i have reserved a part of Wednesday to be service to this committee - if you want.

please let me know if you would like to meet with me - the day, time, and place.

i have scanned the non-disclosure agreement. The agreement requires that "his or her role in it is confidential." Given my understanding of my employment contract with the University of California, i think this clause could be a problem (public university).

tomorrow morning, i will carefully review the non-disclosure agreement. if i think there could be a problem, i will have to have the University Counsel review the agreement before i can sign it.

as i said earlier, i will depart California early Monday morning (8 AM). given that it is now the end of semester commencement weekend, i do not think that it will be possible for me to have the University Counsel review the agreement and revert their opinion by the deadline you have specified below.

**given this situation, how do you suggest i proceed ?**

i truly want to assist this effort in any way that i can.

sincerely,

Bob Bea

Kernkar, Neal wrote:

As you heard from Dr. Peter Blair of the National Academies earlier this week, the U.S. Department of Interior (DOI) is preparing a report at the President's request which reviews and reports what, if any, additional precautions and technologies should be required to prevent accidents like the BP Oil Spill from happening again. The report is due to the President on May 28, 2010.

I am writing today to ask you to provide brief but important service in a peer review of our report on increased safety measures for energy development on the outer continental shelf.

As Dr. Blair Indicated, we asked that the Academy identify a number of recognized academic and industry experts in the relevant fields to:

- <!--[if !supportLists]-->(1) <!--[endif]-->discuss informally with DOI officials the current state of the art of offshore drilling safety and blowout protection and the degree to which such practices are currently in use in the U.S. and incorporated broadly into industry best practices, and
- <!--[if !supportLists]-->(2) <!--[endif]-->to vet, again informally, a series of proposed recommendations the department is formulating that would be included in this report. After reviewing who was involved in ongoing related Academy activities and consultation with many colleagues, Dr. Blair's team generated a list of recommended experts, including you.

Although this discussion will be convened directly by us here in the Office of the Secretary of the Interior, not by the National Academies, the Academies have recommended that the DOI consider you as a discussant.

We will convene a 90-minute conference call of all interested discussants at **5pm eastern time on Monday, May 17, 2010.** The call will last until approximately 6:30pm.

If you are willing and available to participate, please **sign and return the attached non-disclosure agreement either to this email to return fax number +1-202-208-4561** before 3pm eastern time on Monday, May 17.

If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

---  
Professor Robert Bea, PhD, PE  
Department of Civil & Environmental Engineering  
212 McLaughlin Hall  
University of California Berkeley  
Berkeley, CA 94720-1710  
Telephone/fax 510-642-0967  
Telefax 510-643-8919  
Email: [bea@ce.berkeley.edu](mailto:bea@ce.berkeley.edu)

Home Office  
Risk Assessment & Management Services

60 Shuey Drive  
Moraga, California 94556  
Telephone 925-631-1587  
Cell 925-699-3503  
Email: BeaRAMS@ [REDACTED]

**From:** Hanley, Kallie  
**To:** Bob Bea;  
**cc:** Blair, Peter; Kemkar, Neal; Black, Steve; Roxanne Makasdjian; Sarah Yang; Karlene Roberts;  
**Subject:** RE: U.S. Department of Interior Reviews of Deepwater Horizon Incident  
**Date:** Friday, May 14, 2010 10:25:50 AM

---

Thanks Bob.

I will discuss with folks here this afternoon and get back to you by this evening.

Thanks,

Kallie Hanley  
Office of the White House Liaison  
The U.S. Department of the Interior  
desk: (202) 208-5397 | cell: (202) 374-7694  
[kallie\\_hanley@ios.doi.gov](mailto:kallie_hanley@ios.doi.gov)

---

**From:** Bob Bea [mailto:bea@ce.berkeley.edu]  
**Sent:** Friday, May 14, 2010 10:18 AM  
**To:** Hanley, Kallie  
**Cc:** Blair, Peter; Kemkar, Neal; Black, Steve; Roxanne Makasdjian; Sarah Yang; Karlene Roberts  
**Subject:** Re: U.S. Department of Interior Reviews of Deepwater Horizon Incident

Happy Friday Kallie,

here is link to radio interview i did on development of the Deepwater Horizon blowout :

[http://www.webwiseforradio.com/site\\_files/244/File/INO\\_051210\\_H3.mp3](http://www.webwiseforradio.com/site_files/244/File/INO_051210_H3.mp3)

**please let me know as soon as you can if i could be useful next week on Wednesday or Thursday afternoon (Thursday morning now scheduled for another meeting).**

Bob Bea

Hanley, Kallie wrote:  
Dr. Bea

Thank you for your willingness to participate and share your depth of knowledge. We will be in touch in the very near future.

Best,

**Kallie Hanley**

Office of the White House Liaison

The U.S. Department of the Interior

desk: (202) 208-5397 | cell: (202) 374-7694

[kallie\\_hanley@ios.doi.gov](mailto:kallie_hanley@ios.doi.gov)

---

**From:** Bob Bea [<mailto:bea@ce.berkeley.edu>]

**Sent:** Wednesday, May 12, 2010 9:39 AM

**To:** Blair, Peter

**Cc:** Kemkar, Neal; Hanley, Kallie; Black, Steve; Roxanne Makasdjian; Sarah Yang; Karlene Roberts

**Subject:** Re: U.S. Department of Interior Reviews of Deepwater Horizon Incident

Happy Wednesday Peter.

Thank you for the invitation. I will be pleased to serve as a discussant.

As this very important process continues to develop, I will be pleased to help when, where, and how I can be most effective. I and my colleagues in academia, industry, and government see this disaster as a very important opportunity to help this vital public - governmental - industrial - environmental enterprise take major steps forward to continue to develop this precious natural resource in ways that meet our stewardship responsibilities.

Earlier this year, the University of California granted me a sabbatical leave for the 2010 Fall semester. Currently, we are concluding our 2010 Spring semester. Thus I will be on academic leave during the period May 16 through January 18, 2011. This academic leave period will make available much more time for me to help with this important work.

During the early days following the initiation of our investigation of the failures of the flood protection system for the Greater New Orleans Area, we formed the Center for Catastrophic Risk Management (CCRM) at the University of California, Berkeley ( <http://ccrm.berkeley.edu/> ). CCRM served as the home for our 2 year National Science Foundation (NSF) sponsored Independent Levee Investigation Team activities. CCRM is a collation of highly qualified interdisciplinary academics and practitioners. During the past 2 years, members of this group have focused on a NSF research project on development of advanced Risk Assessment and Management (RAM) based approaches to enhance the resilience and sustainability of California's Sacramento and San Joaquin Delta infrastructure systems ( <http://>

[ccrm.berkeley.edu/resin/](http://ccrm.berkeley.edu/resin/) ).

Shortly after I became engaged in this disaster (7 PM April 20th by former students engaged in all parts of the Gulf Coast oil and gas industry), I turned to my CCRM colleagues and asked for their help. The present director of CCRM, Professor Karlene Roberts (career expert in High Reliability Organizations), has agreed to help form that group. Karlene and I have served as RAM consultants to the international oil and gas industry, including British Petroleum and the U.S. Minerals Management Service. Also, I have asked my colleagues in the international oil and gas industry for their help. Many of these colleagues have agreed to help with this work. This group is being formed to support our research to help investigate causes for the failures and successes associated with the Deepwater Horizon drilling unit and the subsequent containment and clean-up operations. As in the case of our investigation of the Hurricane Katrina flood protection failures, we plan to address ways to help improve our stewardship responsibilities for U.S. offshore oil and gas resources. Again, we are turning to the NSF to provide funds to help defray expenses associated with this work.

Sincerely,

Bob Bea

---

Blair, Peter wrote:

Dear Dr. Bea:

I am writing to alert you that you may be asked by the U.S. Department of Interior (DOI), Office of the Secretary, to provide brief but important service with regard to the Department's formulation of an early action plan in response to the oil blowout at Deepwater Horizon.

As you are no doubt now aware, the oil well blowout at Deepwater Horizon has generated many questions about offshore drilling safety and blowout prevention. In the wake of the incident, The Offshore Drilling Interim Safety Measures Report ("30-Day Safety Report") ordered by President Obama on April 30, 2010, requests Interior Secretary Salazar to review and report what, if any, additional precautions and technologies should be required to prevent accidents like the Deepwater Horizon incident from happening again. The Report will include a discussion of known legal and regulatory requirements as well as current industry practices. It will focus on recommendations for interim measures that will increase offshore

drilling safety, including but not limited to engineering and operating practices aimed at reducing the chance of a future blowout and the appropriate testing and operation of backup safety equipment such as blowout preventers. The Report will also include an action plan for moving forward on achieving increased offshore drilling safety in the near term, including suggested additional study. This Report is not a full investigation of the incident—such an investigation will be undertaken jointly by the Minerals Management Service and U.S. Coast Guard and Secretary Salazar intends to commission an independent technical assessment by the National Academy of Engineering (NAE).

In the course of preliminary discussions directed toward commissioning the NAE assessment, DOI officials asked that we at the Academy identify a number of recognized academic and industry experts in the relevant fields to (1) discuss informally with DOI officials the current state of the art of offshore drilling safety and blowout protection and the degree to which such practices are currently in use in the U.S. and incorporated broadly into industry best practices, and (2) to vet, again informally, a series of proposed recommendations the department is formulating that would be included in the 30-Day Safety Report. After reviewing who was involved in ongoing related Academy activities and consultation with many colleagues, we generated a list of recommended experts, including you. Although this discussion will be convened directly by the Office of the Secretary of the Interior, not by the National Academies, we have recommended that the DOI consider you as a discussant. In the coming days DOI officials copied on this message will be following up directly with you to explore your availability. Whether you agree to help DOI or not is, of course, entirely up to you, but if you are available, I hope you will give serious consideration to participating.

With best wishes,

Peter D. Blair, Ph.D.  
Executive Director  
Division on Engineering and Physical Sciences  
The National Academies  
500 Fifth Street, N.W.  
Washington, DC 20001  
Email: [pblair@nas.edu](mailto:pblair@nas.edu); Tel: 202-334-2400; Fax: 202-334-3373

--

Professor Robert Bea, PhD, PE  
Department of Civil & Environmental Engineering  
212 McLaughlin Hall  
University of California Berkeley  
Berkeley, CA 94720-1710  
Telephone/fax 510-642-0967  
Telefax 510-643-8919  
Email: [bea@ce.berkeley.edu](mailto:bea@ce.berkeley.edu)

Home Office  
Risk Assessment & Management Services  
60 Shuey Drive  
Moraga, California 94556  
Telephone 925-631-1587  
Cell 925-699-3503  
Email: [BeaRAMS@\[REDACTED\]](mailto:BeaRAMS@[REDACTED])

--

Professor Robert Bea, PhD, PE  
Department of Civil & Environmental Engineering  
212 McLaughlin Hall  
University of California Berkeley  
Berkeley, CA 94720-1710  
Telephone/fax 510-642-0967  
Telefax 510-643-8919  
Email: [bea@ce.berkeley.edu](mailto:bea@ce.berkeley.edu)

Home Office  
Risk Assessment & Management Services  
60 Shuey Drive  
Moraga, California 94556  
Telephone 925-631-1587  
Cell 925-699-3503  
Email: [BeaRAMS@\[REDACTED\]](mailto:BeaRAMS@[REDACTED])

**From:** Hanley, Kallie  
**To:** "per.holand@exprosoft.com";  
**cc:** "Mikhail A. Adamantiades@ceq.eop.gov"; Graves, Carmiece;  
Kemkar, Neal;  
**Subject:** Running a few minutes late  
**Date:** Thursday, May 13, 2010 11:02:40 AM

---

Per

I apologize, we are running just a few minutes late. We will dial in to the conference call number in just a few minutes.

Thank you,

Kallie

**From:** Hanley, Kallie  
**To:** Arnold Stancell; Blair, Peter;  
**cc:** Kemkar, Neal; Black, Steve;  
**Subject:** RE: U.S. Department of Interior Reviews of Deepwater Horizon Incident  
**Date:** Wednesday, May 12, 2010 7:22:08 PM

---

Mr. Stancell,

Thank you for your willingness to participate and share your depth of knowledge.  
We will be in touch soon.

Best,

**Kallie Hanley**  
Office of the White House Liaison  
The U.S. Department of the Interior  
desk: (202) 208-5397 | cell: (202) 374-7694  
[kallie\\_hanley@ios.doi.gov](mailto:kallie_hanley@ios.doi.gov)

---

**From:** Arnold Stancell [mailto:acstancell@msn.com]  
**Sent:** Wednesday, May 12, 2010 10:41 AM  
**To:** Blair, Peter  
**Cc:** Kemkar, Neal; Hanley, Kallie; Black, Steve  
**Subject:** Re: U.S. Department of Interior Reviews of Deepwater Horizon Incident

Dear Peter,

I look forward to hearing from DOI.

Best regards,  
Arnold

----- Original Message -----

**From:** Blair, Peter  
**To:** 'acstancell@  
**Cc:** 'Kemkar, Neal' ; Hanley, Kallie ; Black, Steve  
**Sent:** Wednesday, May 12, 2010 7:37 AM  
**Subject:** RE: U.S. Department of Interior Reviews of Deepwater Horizon Incident

Dear Arnold:

I am writing to alert you that you may be asked by the U.S. Department of Interior (DOI), Office of the Secretary, to provide brief but important service with regard to the Department's formulation of an early action plan in response to the oil blowout at Deepwater Horizon.

As you are no doubt now aware, the oil well blowout at Deepwater Horizon has generated many questions about offshore drilling safety and blowout prevention. In the wake of the incident, The Offshore Drilling Interim Safety Measures Report ("30-Day Safety Report") ordered by President Obama on April 30, 2010, requests Interior Secretary Salazar to review and report what, if any, additional precautions and technologies should be required to prevent accidents like the Deepwater Horizon incident from happening again. The Report will include a discussion of known legal and regulatory requirements as well as current industry practices. It will focus on recommendations for interim measures that will increase offshore drilling safety, including but not limited to engineering and operating practices aimed at reducing the chance of a future blowout and the appropriate testing and operation of backup safety equipment such as blowout preventers. The Report will also include an action plan for moving forward on achieving increased offshore drilling safety in the near term, including suggested additional study. This Report is not a full investigation of the incident—such an investigation will be undertaken jointly by the Minerals Management Service and U.S. Coast Guard and Secretary Salazar intends to commission an independent technical assessment by the National Academy of Engineering (NAE).

In the course of preliminary discussions directed toward commissioning the NAE assessment, DOI officials asked that we at the Academy identify a number of recognized academic and industry experts in the relevant fields to (1) discuss informally with DOI officials the current state of the art of offshore drilling safety and blowout protection and the degree to which such practices are currently in use in the U.S. and incorporated broadly into industry best practices, and (2) to vet, again informally, a series of proposed recommendations the department is formulating that would be included in the 30-Day Safety Report. After reviewing who was involved in ongoing related Academy activities and consultation with many colleagues, we generated a list of recommended experts, including you. Although this discussion will be convened directly by the Office of the Secretary of the Interior, not by the National Academies, we have recommended that the DOI consider you as a discussant. In the coming days DOI officials copied on this message will be following up directly with you to explore your availability. Whether you agree to help DOI or not is, of course, entirely up to you, but if you are available, I hope you will give serious consideration to participating.

With best wishes,

Peter D. Blair, Ph.D.

Executive Director  
Division on Engineering and Physical Sciences  
The National Academies  
500 Fifth Street, N.W.  
Washington, DC 20001  
Email: [pblair@nas.edu](mailto:pblair@nas.edu); Tel: 202-334-2400; Fax: 202-334-3373

**From:** Hanley, Kallie  
**To:** Bob Bea; Blair, Peter;  
**cc:** Kemkar, Neal; Black, Steve; Roxanne Makasdjian; Sarah Yang;  
Karlene Roberts;  
**Subject:** RE: U.S. Department of Interior Reviews of Deepwater Horizon Incident  
**Date:** Wednesday, May 12, 2010 7:21:19 PM

---

Dr. Bea

Thank you for your willingness to participate and share your depth of knowledge. We will be in touch in the very near future.

Best,

**Kallie Hanley**  
Office of the White House Liaison  
The U.S. Department of the Interior  
desk: (202) 208-5397 | cell: (202) 374-7694  
[kallie\\_hanley@ios.doi.gov](mailto:kallie_hanley@ios.doi.gov)

**From:** Bob Bea [mailto:bea@ce.berkeley.edu]  
**Sent:** Wednesday, May 12, 2010 9:39 AM  
**To:** Blair, Peter  
**Cc:** Kemkar, Neal; Hanley, Kallie; Black, Steve; Roxanne Makasdjian; Sarah Yang; Karlene Roberts  
**Subject:** Re: U.S. Department of Interior Reviews of Deepwater Horizon Incident

Happy Wednesday Peter.

Thank you for the invitation. I will be pleased to serve as a discussant.

As this very important process continues to develop, I will be pleased to help when, where, and how I can be most effective. I and my colleagues in academia, industry, and government see this disaster as a very important opportunity to help this vital public - governmental - industrial - environmental enterprise take major steps forward to continue to develop this precious natural resource in ways that meet our stewardship responsibilities.

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Shortly after I became engaged in this disaster (7 PM April 20th by former students engaged in all parts of the Gulf Coast oil and gas industry), I turned to my CCRM colleagues and asked for their help. The present director of CCRM, Professor Karlene Roberts (career expert in High Reliability Organizations), has agreed to help form that group. Karlene and I have served as RAM consultants to the international oil and gas industry, including British Petroleum and the U.S. Minerals Management Service. Also, I have asked my colleagues in the international oil and gas industry for their help. Many of these colleagues have agreed to help with this work. This group is being formed to support our research to help investigate causes for the failures and successes associated with the Deepwater Horizon drilling unit and the subsequent containment and clean-up operations. As in the case of our investigation of the Hurricane Katrina flood protection failures, we plan to address ways to help improve our stewardship responsibilities for U.S. offshore oil and gas resources. Again, we are turning to the NSF to provide funds to help defray expenses associated with this work.

Sincerely,

Bob Bea

---

Blair, Peter wrote:

Dear Dr. Bea:

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With best wishes,

Peter D. Blair, Ph.D.  
Executive Director

Division on Engineering and Physical Sciences  
The National Academies  
500 Fifth Street, N.W.  
Washington, DC 20001  
Email: [pblair@nas.edu](mailto:pblair@nas.edu); Tel: 202-334-2400; Fax: 202-334-3373

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Professor Robert Bea, PhD, PE  
Department of Civil & Environmental Engineering  
212 McLaughlin Hall  
University of California Berkeley  
Berkeley, CA 94720-1710  
Telephone/fax 510-642-0967  
Telefax 510-643-8919  
Email: [bea@ce.berkeley.edu](mailto:bea@ce.berkeley.edu)

Home Office  
Risk Assessment & Management Services  
60 Shuey Drive  
Moraga, California 94556  
Telephone 925-631-1587  
Cell 925-699-3503  
Email: [BeaRAMS@](mailto:BeaRAMS@) 

**From:** Hanley, Kallie  
**To:** Ford Brett; Blair, Peter;  
**cc:** Kemkar, Neal; Black, Steve;  
**Subject:** RE: U.S. Department of Interior Reviews of Deepwater Horizon Incident  
**Date:** Wednesday, May 12, 2010 7:20:39 PM

---

Mr. Brett

Thank you for your willingness to participate and share your depth of knowledge. We will be in touch in the very near future to set something up.

Best,

Kallie Hanley  
Office of the White House Liaison  
The U.S. Department of the Interior  
desk: (202) 208-5397 | cell: (202) 374-7694  
kallie\_hanley@ios.doi.gov

-----Original Message-----

**From:** Ford Brett [<mailto:FBrett@PetroSkills.com>]  
**Sent:** Wednesday, May 12, 2010 8:13 AM  
**To:** Blair, Peter  
**Cc:** Kemkar, Neal; Hanley, Kallie; Black, Steve  
**Subject:** Re: U.S. Department of Interior Reviews of Deepwater Horizon Incident

Dr Blair -

I would be honored to participate - I'd certainly do my best to help understand the cause, and how to prevent regrettable incidents like this in the future.

Please let me know how I may be able to help.

Sincerely,

Ford Brett

(m) +1 918 408 9516

On May 12, 2010, at 6:34 AM, "Blair, Peter" <PBlair@nas.edu> wrote:

> Dear Mr. Brett:

>

>

>

> I am writing to alert you that you may be asked by the U.S. Department of Interior (DOI), Office of the Secretary, to provide brief but important service with regard to the Department's formulation of an early action plan in response to the oil blowout at Deepwater Horizon.

>

>

>

> As you are no doubt now aware, the oil well blowout at Deepwater Horizon has generated many questions about offshore drilling safety and blowout prevention. In the wake of the incident, The Offshore Drilling Interim Safety Measures Report ("30-Day Safety Report") ordered by President Obama on April 30, 2010, requests Interior Secretary Salazar to review and report what, if any, additional precautions and technologies should be required to prevent accidents like the Deepwater Horizon incident from happening again. The Report will include a discussion of known legal and regulatory requirements as well as current industry practices. It will focus on recommendations for interim measures that will increase offshore drilling safety, including but not limited to engineering and operating practices aimed at reducing the chance of a future blowout and the appropriate testing and operation of backup safety equipment such as blowout preventers. The Report will also include an action plan for moving forward on achieving increased offshore drilling safety in the near term, including suggested additional study. This Report is not a full investigation of the incident—such an investigation will be undertaken jointly by the Minerals Management Service and U.S. Coast Guard and Secretary Salazar intends to commission an independent technical assessment by the National Academy of Engineering (NAE).

>

>

>

> In the course of preliminary discussions directed toward commissioning the NAE assessment, DOI officials asked that we at the Academy identify a number of recognized academic and industry experts in the relevant fields to (1) discuss informally with DOI officials the current state of the art of offshore drilling safety and blowout protection and the degree to which such practices are currently in use in the U.S. and incorporated broadly into industry best practices, and (2) to vet, again informally, a series of proposed recommendations the department is formulating that would be included in the 30-Day Safety Report. After reviewing who was

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> will be following up directly with you to explore your  
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> entirely up to you, but if you are available, I hope you will give  
> serious consideration to participating.

>

>

>

> With best wishes,

>

>

>

> Peter D. Blair, Ph.D.

>

> Executive Director

>

> Division on Engineering and Physical Sciences

>

> The National Academies

>

> 500 Fifth Street, N.W.

>

> Washington, DC 20001

>

> Email: pblair@nas.edu; Tel: 202-334-2400; Fax: 202-334-3373

>

>

**From:** Roxanne Makasdjian  
**To:** Bob Bea; Blair, Peter;  
**cc:** Kemkar, Neal; Hanley, Kallie; Black, Steve; Sarah Yang; Karlene Roberts; rsanders@berkeley.edu;  
**Subject:** RE: U.S. Department of Interior Reviews of Deepwater Horizon Incident  
**Date:** Wednesday, May 12, 2010 12:20:33 PM

---

Thank you, Bob. This information is useful for our media relations work on your behalf, too.

*Sincerely,*

*Roxanne Makasdjian*  
*Manager, Broadcast Communications*  
*UC Berkeley Media Relations*  
*2200 Bancroft Way, 4204*  
*Berkeley, CA 94720-4204*  
*(510) 642-6051*  
[roxannem@berkeley.edu](mailto:roxannem@berkeley.edu)

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**From:** Bob Bea [mailto:bea@ce.berkeley.edu]  
**Sent:** Wednesday, May 12, 2010 6:39 AM  
**To:** Blair, Peter  
**Cc:** 'Kemkar, Neal'; Hanley, Kallie; Black, Steve; Roxanne Makasdjian; Sarah Yang; Karlene Roberts  
**Subject:** Re: U.S. Department of Interior Reviews of Deepwater Horizon Incident

Happy Wednesday Peter.

Thank you for the invitation. I will be pleased to serve as a discussant.

As this very important process continues to develop, I will be pleased to help when, where, and how I can be most effective. I and my colleagues in academia, industry, and government see this disaster as a very important opportunity to help this vital public - governmental - industrial - environmental enterprise take major steps forward to continue to develop this precious natural resource in ways that meet our stewardship responsibilities.

Earlier this year, the University of California granted me a sabbatical leave for the 2010 Fall semester. Currently, we are concluding our 2010 Spring semester. Thus I will be on academic leave during the period May 16 through January 18, 2011. This academic leave period will make available much more time for me to help with this important work.

During the early days following the initiation of our investigation of the failures of the flood protection system for the Greater New Orleans Area, we formed the Center for Catastrophic Risk Management (CCRM) at the University of California, Berkeley ( <http://ccrm.berkeley.edu/> ). CCRM served as the home for our 2 year National Science Foundation (NSF) sponsored Independent Levee Investigation Team activities. CCRM is a collation of highly qualified interdisciplinary academics and practitioners. During the past 2 years, members of this group have focused on a NSF research project on development of advanced Risk Assessment and Management (RAM) based approaches to enhance the resilience and sustainability of California's Sacramento and San Joaquin Delta infrastructure systems ( <http://ccrm.berkeley.edu/resin/> ).

Shortly after I became engaged in this disaster (7 PM April 20th by former students engaged in all parts of the Gulf Coast oil and gas industry), I turned to my CCRM colleagues and asked for their help. The present director of CCRM, Professor Karlene Roberts (career expert in High Reliability Organizations), has agreed to help form that group. Karlene and I have served as RAM consultants to the international oil and gas industry, including British Petroleum and the U.S. Minerals Management Service. Also, I have asked my colleagues in the international oil and gas industry for their help. Many of these colleagues have agreed to help with this work. This group is being formed to support our research to help investigate causes for the failures and successes associated with the Deepwater Horizon drilling unit and the subsequent containment and clean-up operations. As in the case of our investigation of the Hurricane Katrina flood protection failures, we plan to address ways to help improve our stewardship responsibilities for U.S. offshore oil and gas resources. Again, we are turning to the NSF to provide funds to help defray expenses associated with this work.

Sincerely,

Bob Bea

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Blair, Peter wrote:

Dear Dr. Bea:

I am writing to alert you that you may be asked by the U.S. Department of Interior (DOI), Office of the Secretary, to provide brief but important service with regard to the Department's formulation of an early action plan in response to the oil blowout at Deepwater Horizon.

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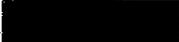
With best wishes,

Peter D. Blair, Ph.D.  
Executive Director

Division on Engineering and Physical Sciences  
The National Academies  
500 Fifth Street, N.W.  
Washington, DC 20001  
Email: [pblair@nas.edu](mailto:pblair@nas.edu); Tel: 202-334-2400; Fax: 202-334-3373

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Professor Robert Bea, PhD, PE  
Department of Civil & Environmental Engineering  
212 McLaughlin Hall  
University of California Berkeley  
Berkeley, CA 94720-1710  
Telephone/fax 510-642-0967  
Telefax 510-643-8919  
Email: [bea@ce.berkeley.edu](mailto:bea@ce.berkeley.edu)

Home Office  
Risk Assessment & Management Services  
60 Shuey Drive  
Moraga, California 94556  
Telephone 925-631-1587  
Cell 925-699-3503  
Email: [BeaRAMS@](mailto:BeaRAMS@) 

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Washington, DC 20001  
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**From:** Blair, Peter  
**To:** "acstancell@ [REDACTED]"  
**cc:** Kemkar, Neal; Hanley, Kallie; Black, Steve;  
**Subject:** RE: U.S. Department of Interior Reviews of Deepwater Horizon Incident  
**Date:** Wednesday, May 12, 2010 7:38:47 AM

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Dear Arnold:

I am writing to alert you that you may be asked by the U.S. Department of Interior (DOI), Office of the Secretary, to provide brief but important service with regard to the Department's formulation of an early action plan in response to the oil blowout at Deepwater Horizon.

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**From:** Blair, Peter  
**To:** "hans.juvkam-wold@pe.tamu.edu";  
**cc:** Kemkar, Neal; Hanley, Kallie; Black, Steve;  
**Subject:** RE: U.S. Department of Interior Reviews of Deepwater Horizon Incident  
**Date:** Wednesday, May 12, 2010 7:38:14 AM

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Dear Juvkam-Wold:

I am writing to alert you that you may be asked by the U.S. Department of Interior (DOI), Office of the Secretary, to provide brief but important service with regard to the Department's formulation of an early action plan in response to the oil blowout at Deepwater Horizon.

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With best wishes,

Peter D. Blair, Ph.D.  
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500 Fifth Street, N.W.  
Washington, DC 20001  
Email: [pblair@nas.edu](mailto:pblair@nas.edu); Tel: 202-334-2400; Fax: 202-334-3373

**From:** Blair, Peter  
**To:** "per.holland@sintef.no";  
**cc:** Kemkar, Neal; Hanley, Kallie; Black, Steve;  
**Subject:** RE: U.S. Department of Interior Reviews of Deepwater Horizon Incident  
**Date:** Wednesday, May 12, 2010 7:36:22 AM

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Dear Holland:

I am writing to alert you that you may be asked by the U.S. Department of Interior (DOI), Office of the Secretary, to provide brief but important service with regard to the Department's formulation of an early action plan in response to the oil blowout at Deepwater Horizon.

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**From:** Blair, Peter  
**To:** "mechenevert@mail.utexas.edu";  
**cc:** Kemkar, Neal; Hanley, Kallie; Black, Steve;  
**Subject:** RE: U.S. Department of Interior Reviews of Deepwater Horizon Incident  
**Date:** Wednesday, May 12, 2010 7:35:38 AM

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Dear Dr. Chenevert:

I am writing to alert you that you may be asked by the U.S. Department of Interior (DOI), Office of the Secretary, to provide brief but important service with regard to the Department's formulation of an early action plan in response to the oil blowout at Deepwater Horizon.

As you are no doubt now aware, the oil well blowout at Deepwater Horizon has generated many questions about offshore drilling safety and blowout prevention. In the wake of the incident, The Offshore Drilling Interim Safety Measures Report ("30-Day Safety Report") ordered by President Obama on April 30, 2010, requests Interior Secretary Salazar to review and report what, if any, additional precautions and technologies should be required to prevent accidents like the Deepwater Horizon incident from happening again. The Report will include a discussion of known legal and regulatory requirements as well as current industry practices. It will focus on recommendations for interim measures that will increase offshore drilling safety, including but not limited to engineering and operating practices aimed at reducing the chance of a future blowout and the appropriate testing and operation of backup safety equipment such as blowout preventers. The Report will also include an action plan for moving forward on achieving increased offshore drilling safety in the near term, including suggested additional study. This Report is not a full investigation of the incident—such an investigation will be undertaken jointly by the Minerals Management Service and U.S. Coast Guard and Secretary Salazar intends to commission an independent technical assessment by the National Academy of Engineering (NAE).

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**From:** Blair, Peter  
**To:** "FBrett@Petroskills.com";  
**cc:** Kemkar, Neal; Hanley, Kallie; Black, Steve;  
**Subject:** RE: U.S. Department of Interior Reviews of Deepwater Horizon Incident  
**Date:** Wednesday, May 12, 2010 7:34:00 AM

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Dear Mr. Brett:

I am writing to alert you that you may be asked by the U.S. Department of Interior (DOI), Office of the Secretary, to provide brief but important service with regard to the Department's formulation of an early action plan in response to the oil blowout at Deepwater Horizon.

As you are no doubt now aware, the oil well blowout at Deepwater Horizon has generated many questions about offshore drilling safety and blowout prevention. In the wake of the incident, The Offshore Drilling Interim Safety Measures Report ("30-Day Safety Report") ordered by President Obama on April 30, 2010, requests Interior Secretary Salazar to review and report what, if any, additional precautions and technologies should be required to prevent accidents like the Deepwater Horizon incident from happening again. The Report will include a discussion of known legal and regulatory requirements as well as current industry practices. It will focus on recommendations for interim measures that will increase offshore drilling safety, including but not limited to engineering and operating practices aimed at reducing the chance of a future blowout and the appropriate testing and operation of backup safety equipment such as blowout preventers. The Report will also include an action plan for moving forward on achieving increased offshore drilling safety in the near term, including suggested additional study. This Report is not a full investigation of the incident—such an investigation will be undertaken jointly by the Minerals Management Service and U.S. Coast Guard and Secretary Salazar intends to commission an independent technical assessment by the National Academy of Engineering (NAE).

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The National Academies

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**From:** Blair, Peter  
**To:** "FBrett@Petroskills.com";  
**cc:** Kemkar, Neel; Hanley, Kallie; Black, Steve;  
**Subject:** RE: U.S. Department of Interior Reviews of Deepwater Horizon Incident  
**Date:** Wednesday, May 12, 2010 7:34:00 AM

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**From:** Blair, Peter  
**To:** "bea@ce.berkeley.edu";  
**cc:** Kemkar, Neal; Hanley, Kallie; Black, Steve;  
**Subject:** RE: U.S. Department of Interior Reviews of Deepwater Horizon Incident  
**Date:** Wednesday, May 12, 2010 7:32:02 AM

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Dear Dr. Bea:

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**From:** Blair, Peter  
**To:** "bea@ce.berkeley.edu";  
**cc:** Kemkar, Neal; Hanley, Kallie; Black, Steve;  
**Subject:** RE: U.S. Department of Interior Reviews of Deepwater Horizon Incident  
**Date:** Wednesday, May 12, 2010 7:32:02 AM

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**From:** Blair, Peter  
**To:** "bbaugh@radoil.com";  
**cc:** Kemkar, Neal; Hanley, Kallie; Black, Steve;  
**Subject:** RE: U.S. Department of Interior Reviews of Deepwater Horizon Incident  
**Date:** Wednesday, May 12, 2010 7:31:03 AM

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Dear Dr. Baugh:

I am writing to alert you that you may be asked by the U.S. Department of Interior (DOI), Office of the Secretary, to provide brief but important service with regard to the Department's formulation of an early action plan in response to the oil blowout at Deepwater Horizon.

As you are no doubt now aware, the oil well blowout at Deepwater Horizon has generated many questions about offshore drilling safety and blowout prevention. In the wake of the incident, The Offshore Drilling Interim Safety Measures Report ("30-Day Safety Report") ordered by President Obama on April 30, 2010, requests Interior Secretary Salazar to review and report what, if any, additional precautions and technologies should be required to prevent accidents like the Deepwater Horizon incident from happening again. The Report will include a discussion of known legal and regulatory requirements as well as current industry practices. It will focus on recommendations for interim measures that will increase offshore drilling safety, including but not limited to engineering and operating practices aimed at reducing the chance of a future blowout and the appropriate testing and operation of backup safety equipment such as blowout preventers. The Report will also include an action plan for moving forward on achieving increased offshore drilling safety in the near term, including suggested additional study. This Report is not a full investigation of the incident—such an investigation will be undertaken jointly by the Minerals Management Service and U.S. Coast Guard and Secretary Salazar intends to commission an independent technical assessment by the National Academy of Engineering (NAE).

In the course of preliminary discussions directed toward commissioning the NAE assessment, DOI officials asked that we at the Academy identify a number of recognized academic and industry experts in the relevant fields to (1) discuss informally with DOI officials the current state of the art of offshore drilling safety and blowout protection and the degree to which such practices are currently in use in the U.S. and incorporated broadly into industry best practices, and (2) to vet, again informally, a series of proposed recommendations the department is formulating that would be included in the 30-Day Safety Report. After reviewing who was involved in ongoing related Academy activities and consultation with many colleagues, we generated a list of recommended experts, including you.

Although this discussion will be convened directly by the Office of the Secretary of the Interior, not by the National Academies, we have recommended that the DOI consider you as a discussant. In the coming days DOI officials copied on this message will be following up directly with you to explore your availability. Whether you agree to help DOI or not is, of course, entirely up to you, but if you are available, I hope you will give serious consideration to participating.

With best wishes,

Peter D. Blair, Ph.D.  
Executive Director  
Division on Engineering and Physical Sciences  
The National Academies  
500 Fifth Street, N.W.  
Washington, DC 20001  
Email: [pblair@nas.edu](mailto:pblair@nas.edu); Tel: 202-334-2400; Fax: 202-334-3373

**From:** Black, Steve  
**To:** Ford Brett;  
**cc:** hans.juvkam-wold@pe.tamu.edu; Bob Bea; Per Holand;  
mechenevert@austin.utexas.edu; Arnold Stancell; Benton Baugh;  
Kemkar, Neal; Hanley, Kallie;  
**Subject:** RE: Question re BOP stacks  
**Date:** Wednesday, May 26, 2010 9:32:47 PM

---

Thank Ford. I'll check w/ MMS in the morning. Thanks very much for the quick reply.

Steve

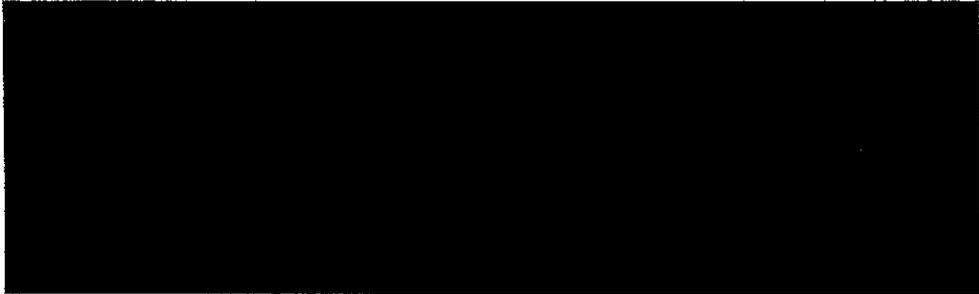
**From:** Ford Brett [mailto:FBrett@PetroSkills.com]  
**Sent:** Wednesday, May 26, 2010 9:02 PM  
**To:** Ford Brett  
**Cc:** Black, Steve; hans.juvkam-wold@pe.tamu.edu; Bob Bea; Per Holand; mechenevert@austin.utexas.edu; Arnold Stancell; Benton Baugh; Kemkar, Neal; Hanley, Kallie  
**Subject:** More: Question re BOP stacks

Ford Brett

(m) +1 918 408 9516

On May 26, 2010, at 7:55 PM, "Ford Brett" <[FBrett@PetroSkills.com](mailto:FBrett@PetroSkills.com)> wrote:

Steve



The question is answerable in about 2 hrs tomorrow AM. I you'd like me to run this down please let me know.

Ford Brett

(m) +1 918 408 9516

On May 26, 2010, at 7:36 PM, "Black, Steve"  
<[steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)> wrote:

Good evening: I don't remember if one of us asked you this question. In connection with our proposed recommendation I.4, do you know whether any of the 33 active MODU's BOPs in GoM have 2 blind shear rams?

Many thanks.

Steve

Steve Black  
Counselor to the Secretary  
U.S. Department of the Interior  
1849 C Street, N.W., MS 7229  
Washington, D.C. 20240  
Phone: 202-208-4123  
Fax: 202-208-4561  
e-mail: [steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)

**From:** Black, Steve  
**To:** hans.juvkam-wold@pe.tamu.edu; Bob Bea; Ford Brett; Per Holand;  
mechenevert@austin.utexas.edu; Arnold Stancell; Benton Baugh;  
**cc:** Kemkar, Neal; Hanley, Kallie;  
**Subject:** Question re BOP stacks  
**Date:** Wednesday, May 26, 2010 8:36:06 PM

---

Good evening: I don't remember if one of us asked you this question. In connection with our proposed recommendation I.4, do you know whether any of the 33 active MODU's BOPs in GoM have 2 blind shear rams?

Many thanks.

Steve

Steve Black  
Counselor to the Secretary  
U.S. Department of the Interior  
1849 C Street, N.W., MS 7229  
Washington, D.C. 20240  
Phone: 202-208-4123  
Fax: 202-208-4561  
e-mail: steve\_black@ios.doi.gov

**From:** Black, Steve  
**To:** Ford Brett; Kemkar, Neal;  
**cc:** Ishee, Mary Katherine; Hanley, Kallie;  
**Subject:** RE: Brett Comments: U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Tuesday, May 18, 2010 3:25:04 PM

---

Ford, thank you. These are very helpful comments, including your editorial comments. Many thanks for your timely response.

Steve

**From:** Ford Brett [mailto:FBrett@PetroSkills.com]  
**Sent:** Tuesday, May 18, 2010 1:11 PM  
**To:** Kemkar, Neal; Black, Steve  
**Cc:** Ishee, Mary Katherine; Hanley, Kallie  
**Subject:** Brett Comments: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Neal and Steve --

As I understand my instructions, I was NOT to send to other 'discussants'.

Attached are my Suggested Revisions (should be in purple), and my "Editorial Comments" (*shown in purple parenthetical italics*) – to explaining my thinking. These comments may be helpful in combining with other 'discussants'. Besides edits to the current recommendations, I've added unique ideas, and have highlighted the purple edits in yellow.

I've included a one page general comment at the bottom of the document, that explains my approach to the '30 day effort' as I understand it.

One comment that I didn't include: I'd say who(m?) ever came up with this original did a pretty good job to start with. I hope my contribution helps.

I'm at DC time + 6hrs – call any time at 918-408-9516 if I can be helpful, (or email [fbrett@petroskills.com](mailto:fbrett@petroskills.com)).

Thank you for your efforts. Please let me know if I can be of further assistance.

Sincerely,

Ford Brett  
President  
**PetroSkills**

(o) +1 918 828 2511 (*I pick up messages frequently*)

(m) +1 918 408 9516 (*works in most of world*)

Skype Ford.Brett

or call Rozanne at +1 918 828 2505

[www.PetroSkills.com](http://www.PetroSkills.com)

---

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** Friday, May 14, 2010 6:50 PM  
**To:** 'acstancell@██████████'; 'hans.juvkam-wold@pe.tamu.edu'; 'per.holland@sintef.no'; 'bbaugh@radoil.com'; 'mechenevert@mail.utexas.edu'; Ford Brett; 'bea@ce.berkeley.edu'  
**Cc:** Black, Steve; Hanley, Kallie; pblair@nas.edu

**Subject:** U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

**Importance:** High

As you heard from Dr. Peter Blair of the National Academies earlier this week, the U.S. Department of Interior (DOI) is preparing a report at the President's request which reviews and reports what, if any, additional precautions and technologies should be required to prevent accidents like the BP Oil Spill from happening again. The report is due to the President on May 28, 2010.

I am writing today to ask you to provide brief but important service in a peer review of our report on increased safety measures for energy development on the outer continental shelf.

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- (2) to vet, again informally, a series of proposed recommendations the department is formulating that would be included in this report. After reviewing who was involved in ongoing related Academy activities and consultation with many colleagues, Dr. Blair's team generated a list of recommended experts, including you.

Although this discussion will be convened directly by us here in the Office of the Secretary of the Interior, not by the National Academies, the Academies have recommended that the DOI consider you as a discussant.

We will convene a 90-minute conference call of all interested discussants at **5pm eastern time on Monday, May 17, 2010.** The call will last until approximately 6:30pm.

If you are willing and available to participate, please **sign and return the attached non-disclosure agreement either to this email to return fax number +1-202-208-4561** before 3pm eastern time on Monday, May 17.

If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Black, Steve  
**To:** "Per.Holand@exprosoft.com"; Kemkar, Neal;  
**cc:** Hanley, Kallie;  
**Subject:** Re: U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Tuesday, May 18, 2010 8:46:17 AM

---

Per, thank you very much for your prompt reply and helpful comments.

Steve

---

**From:** Per Holand <Per.Holand@exprosoft.com>  
**To:** Kemkar, Neal  
**Cc:** Hanley, Kallie; Black, Steve  
**Sent:** Tue May 18 08:24:50 2010  
**Subject:** RE: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Neal

Please find enclosed your document modified by me with track changes.

I have only commented on the BOP issues. I have deleted some of your proposed actions that I found not be practical and I have added some new and modified some.

I hope that you find my comments useful.

Best regards

**Per Holand**  
Senior Consultant, Ph.D.

**ExproSoft AS**  
Location: Prof. Brochs gt. 2, Trondheim, Norway  
Mail address: N-7465 Trondheim, Norway

Office phone: (+47) 73 20 04 08  
Mobile phone: (+47) 93 20 55 41  
Mail to: [per.holand@exprosoft.com](mailto:per.holand@exprosoft.com)  
Web: [www.exprosoft.com](http://www.exprosoft.com)

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** 15. mai 2010 18:12  
**To:** Per Holand  
**Cc:** Hanley, Kallie; Black, Steve

**Subject:** Re: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Thanks Per. Glad you can make the call--sorry for the late hour in your time zone. Look forward to speaking on Monday.

Neal

---

**From:** Per Holand <Per.Holand@exprosoft.com>  
**To:** Kemkar, Neal  
**Cc:** Hanley, Kallie; Black, Steve  
**Sent:** Sat May 15 06:32:41 2010  
**Subject:** RE: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Neal

I am willing to be a peer reviewer. Please find enclosed the signed Non-disclosure agreement.

I can participate in the conference call on Monday 17<sup>th</sup> of May, it will be at 2300 Norwegian time.

If you instead want to contact me separately that is OK as well, but then it has to be on Tuesday 18<sup>th</sup> of May.

Best regards

**Per Holand**  
Senior Consultant, Ph.D.

**ExproSoft AS**  
Location: Prof. Brochs gt. 2, Trondheim, Norway  
Mail address: N-7465 Trondheim, Norway

Office phone: (+47) 73 20 04 08  
Mobile phone: (+47) 93 20 55 41  
Mail to: [per.holand@exprosoft.com](mailto:per.holand@exprosoft.com)  
Web: [www.exprosoft.com](http://www.exprosoft.com)

---

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** 15. mai 2010 01:54  
**To:** Per Holand  
**Cc:** Hanley, Kallie; Black, Steve  
**Subject:** FW: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Importance:** High

Per -- good to talk to you earlier this week.

I recognize you are unlikely to make this conference call given the time difference but please work with Kallie to set up a separate 30 minute check-in call with Kallie and me if you are willing to be a peer reviewer as described below.

Thanks,  
Neal

Neal Kemkar  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

As you heard from Dr. Peter Blair of the National Academies earlier this week, the U.S. Department of Interior (DOI) is preparing a report at the President's request which reviews and reports what, if any, additional precautions and technologies should be required to prevent accidents like the BP Oil Spill from happening again. The report is due to the President on May 28, 2010.

I am writing today to ask you to provide brief but important service in a peer review of our report on increased safety measures for energy development on the outer continental shelf.

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- (2) to vet, again informally, a series of proposed recommendations the department is formulating that would be included in this report. After reviewing who was involved in ongoing related Academy activities and consultation with many colleagues, Dr. Blair's team generated a list of recommended experts, including you.

Although this discussion will be convened directly by us here in the Office of the Secretary of the Interior, not by the National Academies, the Academies have recommended that the DOI consider you as a discussant.

We will convene a 90-minute conference call of all interested discussants at **5pm eastern time on Monday, May 17, 2010**. The call will last until approximately 6:30pm.

If you are willing and available to participate, please **sign and return the attached non-disclosure agreement either to this email to return fax number +1-202-208-4561** before 3pm eastern time on Monday, May 17.

If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

**From:** Black, Steve  
**To:** Per.Holand@exprosoft.com; "hans.juvkam-wold@pe.tamu.edu";  
"bbaugh@radoil.com"; "FBrett@Petroskills.com"; "bea@ce.berkeley.edu";  
acstancell@██████████  
**cc:** Ishee, Mary Katherine; Kemkar, Neal; Hanley, Kallie;  
**Subject:** API Task Force Recommendations  
**Date:** Monday, May 17, 2010 1:37:40 PM  
**Attachments:** DRAFT JITF Recommendations.pdf  
65-2 e1.pdf  
IADC HSE Case Guidelines-MODU Offshore.pdf

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All – in further preparation for this evening’s conference call, please see the attached draft recommendations from the API task forces. I received these earlier today. Please do not distribute without permission from API.

Please contact one of us if you have any questions. Thanks for your assistance.

Steve

Steve Black  
Counselor to the Secretary  
U.S. Department of the Interior  
1849 C Street, N.W., MS 7229  
Washington, D.C. 20240  
Phone: 202-208-4123  
Fax: 202-208-4561  
e-mail: steve\_black@ios.doi.gov

**From:** Black, Steve  
**To:** Per.Holand@exprosoft.com;  
**cc:** Kemkar, Neal; Hanley, Kallie;  
**Subject:** FW: U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Sunday, May 16, 2010 10:19:28 PM  
**Attachments:** 100516 Candidate Recommendations.doc

---

Dr. Holand, please see below. My e-mail to your address below was returned undeliverable.

Thank you.

Steve

**From:** Black, Steve  
**Sent:** Sunday, May 16, 2010 10:16 PM  
**To:** hans.juvkam-wold@pe.tamu.edu; per.holland@sintef.no; bbaugh@radoil.com; FBrett@Petroskills.com; bea@ce.berkeley.edu  
**Cc:** Ishee, Mary Katherine; Kemkar, Neal; Hanley, Kallie  
**Subject:** FW: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Importance:** High

**CONFIDENTIAL DRAFT – PREDICISIONAL**  
**CONTAINS INTERAGENCY DELIBERATIVE PROCESS INFORMATION**  
This draft may not be disclosed under FOIA

---

Thank you for returning signed confidentiality and non-disclosure agreements. Further to Neal's message and request below, would you kindly review and be prepared to comment on the attached draft safety recommendations during the conference call tomorrow. These proposed recommendations are compiled from several sources. They are organized in four major topic categories, and they are formatted to show clearly some specific additional recommendations from the Department of Energy (DOE).

Thanks in advance for your assistance. We look forward to our discussion tomorrow.

Steve

Steve Black  
Counselor to the Secretary  
U.S. Department of the Interior  
1849 C Street, N.W., MS 7229  
Washington, D.C. 20240  
Phone: 202-208-4123  
Fax: 202-208-4561  
e-mail: steve\_black@ios.doi.gov

**From:** Kemkar, Neal  
**Sent:** Friday, May 14, 2010 7:50 PM  
**To:** 'acstancell@[REDACTED]'; 'hans.juvkam-wold@pe.tamu.edu'; 'per.holland@sintef.no'; 'bbaugh@radoil.com'; 'mechenevert@mail.utexas.edu'; 'FBrett@Petroskills.com'; 'bea@ce.berkeley.edu'  
**Cc:** Black, Steve; Hanley, Kallie; pblair@nas.edu  
**Subject:** U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Importance:** High

As you heard from Dr. Peter Blair of the National Academies earlier this week, the U.S. Department of Interior (DOI) is preparing a report at the President's request which reviews and reports what, if any, additional precautions and technologies should be required to prevent accidents like the BP Oil Spill from happening again. The report is due to the President on May 28, 2010.

I am writing today to ask you to provide brief but important service in a peer review of our report on increased safety measures for energy development on the outer continental shelf.

As Dr. Blair indicated, we asked that the Academy identify a number of recognized academic and industry experts in the relevant fields to:

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If you are willing and available to participate, please **sign and return the attached non-disclosure agreement either to this email to return fax number +1-202-208-4561** before 3pm eastern time on Monday, May 17.

If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Black, Steve  
**To:** [hans.juvkam-wold@pe.tamu.edu](mailto:hans.juvkam-wold@pe.tamu.edu); [per.holland@sintef.no](mailto:per.holland@sintef.no); [bbaugh@radoil.com](mailto:bbaugh@radoil.com); [FBrett@Petroskills.com](mailto:FBrett@Petroskills.com); [bea@ce.berkeley.edu](mailto:bea@ce.berkeley.edu);  
**cc:** [ishee](mailto:ishee), [Mary Katherine Kemkar](mailto:Mary Katherine Kemkar), [Neal Hanley](mailto:Neal Hanley), [Kallie](mailto:Kallie);  
**Subject:** FW: U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Sunday, May 16, 2010 10:15:31 PM  
**Attachments:** [100516 Candidate Recommendations.doc](#)

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**CONFIDENTIAL DRAFT – PREDICISIONAL  
CONTAINS INTERAGENCY DELIBERATIVE PROCESS INFORMATION**  
This draft may not be disclosed under FOIA

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Steve

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Phone: 202-208-4123  
Fax: 202-208-4561  
e-mail: [steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)

---

**From:** Kemkar, Neal  
**Sent:** Friday, May 14, 2010 7:50 PM  
**To:** 'acstancell@' [REDACTED]; 'hans.juvkam-wold@pe.tamu.edu'; 'per.holland@sintef.no'; 'bbaugh@radoil.com'; 'mechenevert@mail.utexas.edu'; 'FBrett@Petroskills.com'; 'bea@ce.berkeley.edu'  
**Cc:** Black, Steve; Hanley, Kallie; [pblair@nas.edu](mailto:pblair@nas.edu)  
**Subject:** U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Importance:** High

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safety measures for energy development on the outer continental shelf.

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Best,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Kemkar, Neal  
**To:** Benton Baugh; hans.juvkam-wold@pe.tamu.edu; FBrett@Petroskills.com; bea@ce.berkeley.edu; Per.Holand@exprosoft.com; "Chenevert, Martin E"; "Arnold Stancell";  
**cc:** Ishee, Mary Katherine; Hanley, Kallie; Black, Steve; PBlair@nas.edu;  
**Subject:** FINAL 30-DAY SAFETY REPORT  
**Date:** Thursday, May 27, 2010 1:53:47 PM  
**Attachments:** Interim Measures Report 100527 FINAL.pdf  
30day report transmittal letter.pdf

---

Final report and transmittal letter are attached, with thanks from the Secretary and the whole team.

Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Barkoff, Kendra  
**To:** Benton Baugh; Kemkar, Neal; "Arnold Stancell";  
**cc:** Black, Steve; Hanley, Kallie;  
**Subject:** RE: Invite to Be an Expert at DOI Technical Briefing -- 3pm tomorrow  
**Date:** Thursday, May 27, 2010 8:07:46 AM

---

Thanks Benton,

Lets see if someone who is in the country can do it. Worse comes to worse, we can cal always get you a number.

Kendra

**From:** Benton Baugh [mailto:bbaugh@radoil.com]  
**Sent:** Thursday, May 27, 2010 2:12 AM  
**To:** Kemkar, Neal; 'Arnold Stancell'  
**Cc:** Black, Steve; Barkoff, Kendra; Hanley, Kallie  
**Subject:** RE: Invite to Be an Expert at DOI Technical Briefing -- 3pm tomorrow

I am willing but unsure if I can be of much help. I am on a cruise ship on the inside passage west of Canada and am not sure of the phone connections.

If you give me a number I will call in and try.

Benton

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** Wednesday, May 26, 2010 9:50 PM  
**To:** bbaugh@radoil.com; Arnold Stancell  
**Cc:** Black, Steve; Barkoff, Kendra; Hanley, Kallie  
**Subject:** Invite to Be an Expert at DOI Technical Briefing -- 3pm tomorrow

Benton and Arnie – would either or both of you like to participate in a quick “technical briefing” for reporters after we announce the 30-day safety report tomorrow at 3pm eastern? If so, please let our press secretary, Kendra Barkoff know by 10am eastern.

Thanks,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior

(202) 208-5379

From: Kemkar, Neal  
Sent: Friday, May 14, 2010 7:50 PM  
To: 'acstancell@[REDACTED]'; 'hans.juvkam-wold@pe.tamu.edu'; 'per.holland@sintef.no';  
'bbaugh@radoil.com'; 'mechenevert@mail.utexas.edu'; 'FBrett@Petroskills.com'; 'bea@ce.berkeley.edu'  
Cc: Black, Steve; Hanley, Kallie; pblair@nas.edu  
Subject: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
Importance: High

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As Dr. Blair indicated, we asked that the Academy identify a number of recognized academic and industry experts in the relevant fields to:

- (1) discuss informally with DOI officials the current state of the art of offshore drilling safety and blowout protection and the degree to which such practices are currently in use in the U.S. and incorporated broadly into industry best practices, and
- (2) to vet, again informally, a series of proposed recommendations the department is formulating that would be included in this report. After reviewing who was involved in ongoing related Academy activities and consultation with many colleagues, Dr. Blair's team generated a list of recommended experts, including you.

Although this discussion will be convened directly by us here in the Office of the Secretary of the Interior, not by the National Academies, the Academies have recommended that the DOI consider you as a discussant.

We will convene a 90-minute conference call of all interested discussants at 5pm eastern time on Monday, May 17, 2010. The call will last until approximately 6:30pm.

If you are willing and available to participate, please sign and return the attached non-disclosure agreement either to this email to return fax number +1-202-208-4561 before 3pm

eastern time on Monday, May 17.

If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

Neal Kemkar  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Benton Baugh  
**To:** Kemkar, Neal; "Arnold Stancell";  
**cc:** Black, Steve; Barkoff, Kendra; Hanley, Kallie;  
**Subject:** RE: Invite to Be an Expert at DOI Technical Briefing -- 3pm tomorrow  
**Date:** Thursday, May 27, 2010 2:12:52 AM

---

I am willing but unsure if I can be of much help. I am on a cruise ship on the inside passage west of Canada and am not sure of the phone connections.

If you give me a number I will call in and try.

Benton

---

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** Wednesday, May 26, 2010 9:50 PM  
**To:** bbaugh@radoil.com; Arnold Stancell  
**Cc:** Black, Steve; Barkoff, Kendra; Hanley, Kallie  
**Subject:** Invite to Be an Expert at DOI Technical Briefing -- 3pm tomorrow

Benton and Arnie – would either or both of you like to participate in a quick “technical briefing” for reporters after we announce the 30-day safety report tomorrow at 3pm eastern? If so, please let our press secretary, Kendra Barkoff know by 10am eastern.

Thanks,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

From: Kemkar, Neal  
Sent: Friday, May 14, 2010 7:50 PM  
To: 'acstancell@██████████'; 'hans.juvkam-wold@pe.tamu.edu'; 'per.holland@sintef.no'; 'bbaugh@radoil.com'; 'mechenevert@mail.utexas.edu'; 'FBrett@Petroskills.com'; 'bea@ce.berkeley.edu'  
Cc: Black, Steve; Hanley, Kallie; pblair@nas.edu

Subject: U.S. Department of Interior Peer Review Request for Offshore Energy  
Development Safety Report (Time-Sensitive)  
Importance: High

As you heard from Dr. Peter Blair of the National Academies earlier this week, the U.S. Department of Interior (DOI) is preparing a report at the President's request which reviews and reports what, if any, additional precautions and technologies should be required to prevent accidents like the BP Oil Spill from happening again. The report is due to the President on May 28, 2010.

I am writing today to ask you to provide brief but important service in a peer review of our report on increased safety measures for energy development on the outer continental shelf.

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- (2) to vet, again informally, a series of proposed recommendations the department is formulating that would be included in this report. After reviewing who was involved in ongoing related Academy activities and consultation with many colleagues, Dr. Blair's team generated a list of recommended experts, including you.

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If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

Neal Kemkar  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Per Holand  
**To:** Black, Steve; hans.juvkam-wold@pe.tamu.edu; Bob Bea; Ford Brett; mechenevert@austin.utexas.edu; Arnold Stancell; Benton Baugh;  
**cc:** Kemkar, Neal; Hanley, Kallie;  
**Subject:** RE: Question re BOP stacks  
**Date:** Thursday, May 27, 2010 2:11:52 AM

---

Goodmorning.

Offshore Magazine each year publish a Worldwide survey of deepwater drilling rigs (Operational for > than 4000 feet). In this survey the number of rams for each rig is listed. The survey is on a big sheet that I cannot scan and send. On the sheet it is stated that it may be downloaded from [www.offshore-mag.com](http://www.offshore-mag.com), alternatively you may request a copy through E-mail to [posters@pennwell.com](mailto:posters@pennwell.com).

I have quickly gone through the 2008 version of this overview. The number of rams in each BOP was distributed as follows

| Rig type               | No of rigs with number of rams |        |        |        |        |
|------------------------|--------------------------------|--------|--------|--------|--------|
|                        | 3 rams                         | 4 rams | 5 rams | 6 rams | 7 rams |
| Dynamically positioned |                                | 26     | 30     | 21     | 1      |
| Conventionally moored  | 1                              | 34     | 8      | 1      |        |

You can assume that most BOPs with 4 rams have one shear blind ram. BOPs with 5 rams may have one or two shear blind rams. BOPs with 6 rams should normally have two blind shear rams. Most rigs from after built after 2000 have 5 or more rams.

This is the worldwide data. I do not know how it is in the US GoM.

For the study I completed in 1999 that was based on 1996/1997 drilling, that should represent the deepwater (> 1000 feet) rigs in US GoM that time 1 of the 26 rigs had two blind shear rams. This BOP had four rams. One of the BOPs had five rams, but only one blind shear ram.

Best regards

**Per Holand**  
Senior Consultant, Ph.D.

**ExproSoft AS**  
Location: Prof. Brochs gt. 2, Trondheim, Norway  
Mail address: N-7465 Trondheim, Norway

Office phone: (+47) 73 20 04 08  
Mobile phone: (+47) 93 20 55 41  
Mail to: [per.holand@exprosoft.com](mailto:per.holand@exprosoft.com)  
Web: [www.exprosoft.com](http://www.exprosoft.com)

**From:** Black, Steve [mailto:[steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)]

**Sent:** 27. mai 2010 02:36

**To:** [hans.juvkam-wold@pe.tamu.edu](mailto:hans.juvkam-wold@pe.tamu.edu); Bob Bea; Ford Brett; Per Holand; [mechenevert@austin.utexas.edu](mailto:mechenevert@austin.utexas.edu); Arnold Stancell; Benton Baugh

**Cc:** Kemkar, Neal; Hanley, Kallie

**Subject:** Question re BOP stacks

Good evening: I don't remember if one of us asked you this question. In connection with our proposed recommendation I.4, do you know whether any of the 33 active MODU's BOPs in GoM have 2 blind shear rams?

Many thanks.

Steve

Steve Black

Counselor to the Secretary

U.S. Department of the Interior

1849 C Street, N.W., MS 7229

Washington, D.C. 20240

Phone: 202-208-4123

Fax: 202-208-4561

e-mail: [steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)

**From:** Kemkar, Neal  
**To:** bbaugh@radoil.com; Arnold Stancell;  
**cc:** Black, Steve; Barkoff, Kendra; Hanley, Kallie;  
**Subject:** Invite to Be an Expert at DOI Technical Briefing -- 3pm tomorrow  
**Date:** Thursday, May 27, 2010 12:49:32 AM

---

Benton and Arnie – would either or both of you like to participate in a quick “technical briefing” for reporters after we announce the 30-day safety report tomorrow at 3pm eastern? If so, please let our press secretary, Kendra Barkoff know by 10am eastern.

Thanks,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

From: Kemkar, Neal  
Sent: Friday, May 14, 2010 7:50 PM  
To: 'acstancell@██████████'; 'hans.juvkam-wold@pe.tamu.edu'; 'per.holland@sintef.no'; 'bbaugh@radoil.com'; 'mechenevert@mail.utexas.edu'; 'FBrett@Petroskills.com'; 'bea@ce.berkeley.edu'  
Cc: Black, Steve; Hanley, Kallie; pblair@nas.edu  
Subject: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
Importance: High

As you heard from Dr. Peter Blair of the National Academies earlier this week, the U.S. Department of Interior (DOI) is preparing a report at the President's request which reviews and reports what, if any, additional precautions and technologies should be required to prevent accidents like the BP Oil Spill from happening again. The report is due to the President on May 28, 2010.

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- (1) discuss informally with DOI officials the current state of the art of offshore drilling

safety and blowout protection and the degree to which such practices are currently in use in the U.S. and incorporated broadly into industry best practices, and

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Best,  
Neal

Neal Kemkar  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Ford Brett  
**To:** Ford Brett;  
**cc:** Black, Steve; hans.juvkam-wold@pe.tamu.edu; Bob Bea; Per Holand;  
mechenevert@austin.utexas.edu; Arnold Stancell; Benton Baugh;  
Kemkar, Neal; Hanley, Kaille;  
**Subject:** More: Question re BOP stacks  
**Date:** Wednesday, May 26, 2010 9:00:01 PM

---

My previous note describes my reasoning behind having the 2 shear requirement for 'unmoored' rigs. Perhaps 'unmoored' or rigs operating in water deeper than say 800'.

Ford Brett

(m) +1 918 408 9516

On May 26, 2010, at 7:55 PM, "Ford Brett" <[FBrett@PetroSkills.com](mailto:FBrett@PetroSkills.com)> wrote:

Steve

I don't know for sure. But I believe that many of the older MODUs drilling in shallower water would not have enough RAM bodies to have 2 shears and the pipe rams needed for a well. I'm also concerned that these older rigs would not be capable of handling BOPs with sufficient number of RAMs because of the height of the deck. If I am correct, many shallower water MODUs (which are moored andore easily spaced out) would not be able to work.

I'm reasonably certain most of the deep water rigs could have 2 shears.

The question is answerable in about 2 hrs tomorrow AM. I you'd like me to run this down please let me know.

Ford Brett

(m) +1 918 408 9516

On May 26, 2010, at 7:36 PM, "Black, Steve"

<[steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)> wrote:

Good evening: I don't remember if one of us asked you this question. In connection with our proposed recommendation I.4, do you know whether any of the 33 active MODU's BOPs in GoM have 2 blind shear rams?

Many thanks.

Steve

Steve Black

Counselor to the Secretary

U.S. Department of the Interior

1849 C Street, N.W., MS 7229

Washington, D.C. 20240

Phone: 202-208-4123

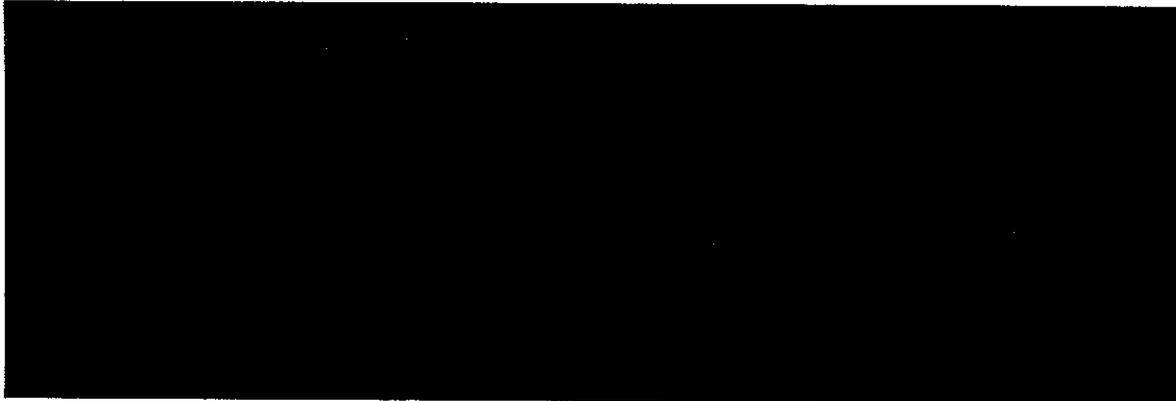
Fax: 202-208-4561

e-mail: [steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)

**From:** Ford Brett  
**To:** Black, Steve;  
**cc:** hans.juvkam-wold@pe.tamu.edu; Bob Bea; Per Holand;  
mechenevert@austin.utexas.edu; Arnold Stancell; Benton Baugh;  
Kemkar, Neal; Hanley, Kallie;  
**Subject:** Re: Question re BOP stacks  
**Date:** Wednesday, May 26, 2010 8:55:19 PM

---

Steve



The question is answerable in about 2 hrs tomorrow AM. I you'd like me to run this down please let me know.

Ford Brett

(m) +1 918 408 9516.

On May 26, 2010, at 7:36 PM, "Black, Steve" <[steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)> wrote:

Good evening: I don't remember if one of us asked you this question. In connection with our proposed recommendation I.4, do you know whether any of the 33 active MODU's BOPs in GoM have 2 blind shear rams?

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Steve Black

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U.S. Department of the Interior

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Washington, D.C. 20240

Phone: 202-208-4123

Fax: 202-208-4561

e-mail: [steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)

**From:** Benton Baugh  
**To:** Kemkar, Neal; hans.juvkam-wold@pe.tamu.edu; FBrett@Petroskills.com; bea@ce.berkeley.edu; Per.Holand@exprosoft.com; "Chenevert, Martin E"; "Arnold Stancell";  
**cc:** Ishee, Mary Katherine; Hanley, Kallie; Black, Steve;  
**Subject:** RE: FINAL DRAFT REPORT ATTACHED: U.  
S. Department of Interior Peer Review for Offshore Energy Development Safety Report  
**Date:** Tuesday, May 25, 2010 8:43:46 PM  
**Attachments:** BAUGH COMMENTS MAY 25.doc

---

Regards,

Benton F. Baugh

*Radoil, Inc.*

ISO 9001:2008

12551 FM 529 RD  
Houston, TX 77041  
office: (713) 937-4494  
cell: (713) 419-8683  
bbaugh@radoil.com  
[www.radoil.com](http://www.radoil.com)

The information contained in this e-mail may contain confidential or privileged mater and is intended only for the stated addressee(s). If you are not a valid addressee, the use, disclosure, copying or distribution of this information is prohibited and may be unlawful. If you have received this message in error, please notify the sender immediately and delete all copies of the message from your computer.

**From:** Hanley, Kallie  
**To:** hans.juvkam-wold@pe.tamu.edu; Bob Bea; Ford Brett; Per Holand;  
mechenevert@austin.utexas.edu; Arnold Stancell; Benton Baugh;  
**cc:** Kemkar, Neal; Black, Steve; Ishee, Mary Katherine; Graves, Carmiece;  
**Subject:** Call today with Interior  
**Date:** Tuesday, May 25, 2010 10:38:18 AM  
**Attachments:** Interim Measures Report 100525 nk FINAL.PDF

---

Good Morning

Please confirm that you will be on today's follow-up conference call at 5:00pm eastern time. Additionally, please review the attached report in advance of today's call.

The conference call information for today's call:

Call in number: [REDACTED]  
Participant access code: [REDACTED]

Thank you,

Kallie Hanley  
Office of the White House Liaison  
The U.S. Department of the Interior  
desk: (202) 208-5397 | cell: (202) 374-7694  
[kallie\\_hanley@ios.doi.gov](mailto:kallie_hanley@ios.doi.gov)

---

**From:** Hanley, Kallie  
**Sent:** Monday, May 24, 2010 12:56 PM  
**To:** 'hans.juvkam-wold@pe.tamu.edu'; 'Bob Bea'; 'Ford Brett'; 'Per Holand';  
'mechenevert@austin.utexas.edu'; 'Arnold Stancell'; 'Benton Baugh'  
**Cc:** Kemkar, Neal; Black, Steve; Ishee, Mary Katherine; Graves, Carmiece  
**Subject:** NAE Peer Review Panel - follow up call

NAE Peer Review Panel Members:

We look forward to speaking with you on tomorrow's follow-up call: Tuesday, May 25 at 5:00pm Eastern Time. Please use the following conference call information:

Call in number: [REDACTED]  
Participant access code: [REDACTED]

Thank you,

**Kallie Hanley**  
Office of the White House Liaison  
The U.S. Department of the Interior  
desk: (202) 208-5397 | cell: (202) 374-7694  
[kallie\\_hanley@ios.doi.gov](mailto:kallie_hanley@ios.doi.gov)

**From:** Kemkar, Neal  
**To:** Kemkar, Neal; hans.juvkam-wold@pe.tamu.edu; bbaugh@radoil.com; FBrett@Petroskills.com; bea@ce.berkeley.edu; Per.Holand@exprosoft.com; Chenevert, Martin E; Arnold Stancell;  
**cc:** Ishee, Mary Katherine; Hanley, Kallie; Black, Steve;  
**Subject:** FINAL DRAFT REPORT ATTACHED: U.  
S. Department of Interior Peer Review for Offshore Energy Development Safety Report  
**Date:** Tuesday, May 25, 2010 9:30:26 AM  
**Attachments:** InterIm Measures Report 100525 nk FINAL.pdf

---

Please review the final draft copy of the 30-day report in advance of our 5pm eastern time call this evening.

Thank you.  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Kemkar, Neal  
**Sent:** Friday, May 21, 2010 4:08 PM  
**To:** hans.juvkam-wold@pe.tamu.edu; bbaugh@radoil.com; FBrett@Petroskills.com; bea@ce.berkeley.edu; Per.Holand@exprosoft.com; 'Chenevert, Martin E'; 'Arnold Stancell'  
**Cc:** Ishee, Mary Katherine; Hanley, Kallie; Black, Steve  
**Subject:** MAY 25, 2010 5pm CALL: U.S. Department of Interior Peer Review for Offshore Energy Development Safety Report

Thank you for your earlier comments.

Please **HOLD Tuesday, May 25 from 5:00 to 6:30 eastern time** for a follow-up conversation.

Kallie Hanley will confirm the date and time and distribute meeting details in advance of the meeting.

Best,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Black, Steve

**Sent:** Sunday, May 16, 2010 10:16 PM  
**To:** hans.juvkam-wold@pe.tamu.edu; per.holland@sintef.no; bbaugh@radoil.com; FBrett@Petroskills.com; bea@ce.berkeley.edu  
**Cc:** Ishee, Mary Katherine; Kemkar, Neal; Hanley, Kallie  
**Subject:** FW: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Importance:** High

**CONFIDENTIAL DRAFT – PREDICISIONAL  
CONTAINS INTERAGENCY DELIBERATIVE PROCESS INFORMATION**  
This draft may not be disclosed under FOIA

---

Thank you for returning signed confidentiality and non-disclosure agreements. Further to Neal's message and request below, would you kindly review and be prepared to comment on the attached draft safety recommendations during the conference call tomorrow. These proposed recommendations are compiled from several sources. They are organized in four major topic categories, and they are formatted to show clearly some specific additional recommendations from the Department of Energy (DOE).

Thanks in advance for your assistance. We look forward to our discussion tomorrow.

Steve

Steve Black  
Counselor to the Secretary  
U.S. Department of the Interior  
1849 C Street, N.W., MS 7229  
Washington, D.C. 20240  
Phone: 202-208-4123  
Fax: 202-208-4561  
e-mail: [steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)

**From:** Kemkar, Neal  
**Sent:** Friday, May 14, 2010 7:50 PM  
**To:** 'acstancell@██████████'; 'hans.juvkam-wold@pe.tamu.edu'; 'per.holland@sintef.no'; 'bbaugh@radoil.com'; 'mechenevert@mail.utexas.edu'; 'FBrett@Petroskills.com'; 'bea@ce.berkeley.edu'  
**Cc:** Black, Steve; Hanley, Kallie; pblair@nas.edu  
**Subject:** U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

**Importance: High**

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As Dr. Blair indicated, we asked that the Academy identify a number of recognized academic and industry experts in the relevant fields to:

- (1) discuss informally with DOI officials the current state of the art of offshore drilling safety and blowout protection and the degree to which such practices are currently in use in the U. S. and incorporated broadly into industry best practices, and
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Although this discussion will be convened directly by us here in the Office of the Secretary of the Interior, not by the National Academies, the Academies have recommended that the DOI consider you as a discussant.

We will convene a 90-minute conference call of all interested discussants at **5pm eastern time on Monday, May 17, 2010.** The call will last until approximately 6:30pm.

If you are willing and available to participate, please **sign and return the attached non-disclosure agreement either to this email to return fax number +1-202-208-4561** before 3pm eastern time on Monday, May 17.

If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Hanley, Kallie  
**To:** hans.juvkam-wold@pe.tamu.edu; Bob Bea; Ford Brett; Per Holand;  
mechenevert@austin.utexas.edu; Arnold Stancell; Benton Baugh;  
**cc:** Kemkar, Neal; Black, Steve; Ishee, Mary Katherine; Graves, Carmiece;  
**Subject:** NAE Peer Review Panel - follow up call  
**Date:** Monday, May 24, 2010 12:56:07 PM

---

NAE Peer Review Panel Members:

We look forward to speaking with you on tomorrow's follow-up call: Tuesday, May 25 at 5:00pm Eastern Time. Please use the following conference call information:

Call in number: [REDACTED]  
Participant access code: [REDACTED]

Thank you,

**Kallie Hanley**  
Office of the White House Liaison  
The U.S. Department of the Interior  
desk: (202) 208-5397 | cell: (202) 374-7694  
[kallie\\_hanley@ios.doi.gov](mailto:kallie_hanley@ios.doi.gov)

**From:** Juvkam-Wold, Hans  
**To:** Kemkar, Neal; bbaugh@radoil.com; FBrett@Petroskills.com; bea@ce.berkeley.edu; Per.Holand@exprosoft.com; Chenevert, Martin E; Arnold Stancell;  
**cc:** Ishee, Mary Katherine; Hanley, Kallie; Black, Steve;  
**Subject:** RE: MAY 25, 2010 5pm CALL: U.  
S. Department of Interior Peer Review for Offshore Energy Development Safety Report  
**Date:** Saturday, May 22, 2010 4:05:08 PM

---

All,

The following website provides a semi-technical analysis of the events that resulted in the blowout at the BP well in the GOM.

[www.theoil drum.com/node6493#more](http://www.theoil drum.com/node6493#more)

The analysis is based on what is known or believed at this time, so some of the conclusions may change.

I am sending this to you all because I am concerned that we may end up recommending regulatory changes that may or may not address the actual causes of this incident.

Hans

~~~~~

-----Original Message-----

From: Kemkar, Neal [[mailto:Neal\\_Kemkar@ios.doi.gov](mailto:Neal_Kemkar@ios.doi.gov)]  
Sent: Fri 5/21/2010 3:07 PM  
To: Juvkam-Wold, Hans; bbaugh@radoil.com; FBrett@Petroskills.com; bea@ce.berkeley.edu; Per.Holand@exprosoft.com; Chenevert, Martin E; Arnold Stancell  
Cc: Ishee, Mary Katherine; Hanley, Kallie; Black, Steve  
Subject: MAY 25, 2010 5pm CALL: U.S. Department of Interior Peer Review for Offshore Energy Development Safety Report

Thank you for your earlier comments.

Please HOLD Tuesday, May 25 from 5:00 to 6:30 eastern time for a follow-up conversation.

Kallie Hanley will confirm the date and time and distribute meeting details in advance of the meeting.

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Neal

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U.S. Department of the Interior  
(202) 208-5379

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Cc: Ishee, Mary Katherine; Kemkar, Neal; Hanley, Kallie  
Subject: FW: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
Importance: High

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e-mail: [steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)<[mailto:steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)>

From: Kemkar, Neal  
Sent: Friday, May 14, 2010 7:50 PM  
To: 'acstancell@██████████'; 'hans.juvkam-wold@pe.tamu.edu'; 'per.holland@sintef.no'; 'bbaugh@radoil.com'; 'mechenevert@mail.utexas.edu'; 'FBrett@Petroskills.com'; 'bea@ce.berkeley.edu'  
Cc: Black, Steve; Hanley, Kallie; pblair@nas.edu  
Subject: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
Importance: High

As you heard from Dr. Peter Blair of the National Academies earlier this week, the U.S. Department of Interior (DOI) is preparing a report at the President's request which reviews and reports what, if any, additional precautions and technologies should be

required to prevent accidents like the BP Oil Spill from happening again. The report is due to the President on May 28, 2010.

I am writing today to ask you to provide brief but important service in a peer review of our report on increased safety measures for energy development on the outer continental shelf.

As Dr. Blair indicated, we asked that the Academy identify a number of recognized academic and industry experts in the relevant fields to:

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If you are willing and available to participate, please sign and return the attached non-disclosure agreement either to this email to return fax number +1-202-208-4561 before 3pm eastern time on Monday, May 17.

If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

Neal Kemkar  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Bob Bea  
**To:** Kemkar, Neal;  
**cc:** hans.juvkam-wold@pe.tamu.edu; bbaugh@radoil.com; FBrett@Petroskills.com; Per. Holland@exprosoft.com; Chenevert, Martin E; Arnold Stancell; Ishee, Mary Katherine; Hanley, Kallie; Black, Steve;  
**Subject:** Re: MAY 25, 2010 5pm CALL: U.  
S. Department of Interior Peer Review for Offshore Energy Development Safety Report  
**Date:** Saturday, May 22, 2010 3:12:07 PM  
**Attachments:** BobBeaPreliminaryAnalysesrev5.pdf

---

attached is update i prepared after our last tele conference.

i will be on standby for the tuesday call access instructions.

have a great weekend.

bob

Kemkar, Neal wrote:

Thank you for your earlier comments.

Please **HOLD Tuesday, May 25 from 5:00 to 6:30 eastern time** for a follow-up conversation.

Kallie Hanley will confirm the date and time and distribute meeting details in advance of the meeting.

Best,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
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**From:** Black, Steve  
**Sent:** Sunday, May 16, 2010 10:16 PM  
**To:** hans.juvkam-wold@pe.tamu.edu; per.holland@sintef.no; bbaugh@radoil.com; FBrett@Petroskills.com; bea@ce.berkeley.edu  
**Cc:** Ishee, Mary Katherine; Kemkar, Neal; Hanley, Kallie  
**Subject:** FW: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Importance:** High

**CONFIDENTIAL DRAFT – PREDICISIONAL**

**CONTAINS INTERAGENCY DELIBERATIVE PROCESS  
INFORMATION**

This draft may not be disclosed under FOIA

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Thank you for returning signed confidentiality and non-disclosure agreements. Further to Neal's message and request below, would you kindly review and be prepared to comment on the attached draft safety recommendations during the conference call tomorrow. These proposed recommendations are compiled from several sources. They are organized in four major topic categories, and they are formatted to show clearly some specific additional recommendations from the Department of Energy (DOE).

Thanks in advance for your assistance. We look forward to our discussion tomorrow.

Steve

Steve Black  
Counselor to the Secretary  
U.S. Department of the Interior  
1849 C Street, N.W., MS 7229  
Washington, D.C. 20240  
Phone: 202-208-4123  
Fax: 202-208-4561  
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**Cc:** Black, Steve; Hanley, Kallie; [pblair@nas.edu](mailto:pblair@nas.edu)  
**Subject:** U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
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Best,  
Neal

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(202) 208-5379

--  
Professor Robert Bea, PhD, PE

Department of Civil & Environmental Engineering  
212 McLaughlin Hall  
University of California Berkeley  
Berkeley, CA 94720-1710  
Telephone/fax 510-642-0967  
Telefax 510-643-8919  
Email: [bea@ce.berkeley.edu](mailto:bea@ce.berkeley.edu)

Home Office  
Risk Assessment & Management Services  
60 Shuey Drive  
Moraga, California 94556  
Telephone 925-631-1587  
Cell 925-699-3503  
Email: [BeaRAMS@](mailto:BeaRAMS@) [REDACTED]

**From:** Kemkar, Neal  
**To:** hans.juvkam-wold@pe.tamu.edu; bbaugh@radoll.com; FBrett@Petroskills.com; bea@ce.berkeley.edu; Per.Holand@exprosoft.com; Chenevert, Martin E; Arnold Stancell;  
**cc:** Ishee, Mary Katherine; Hanley, Kallie; Black, Steve;  
**Subject:** MAY 25, 2010 5pm CALL: U.  
S. Department of Interior Peer Review for Offshore Energy Development Safety Report  
**Date:** Friday, May 21, 2010 4:07:51 PM

---

Thank you for your earlier comments.

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Best,  
Neal

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Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

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**Cc:** Ishee, Mary Katherine; Kemkar, Neal; Hanley, Kallie  
**Subject:** FW: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Importance:** High

**CONFIDENTIAL DRAFT – PREDICISIONAL**  
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1849 C Street, N.W., MS 7229  
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**From:** Kemkar, Neal  
**Sent:** Friday, May 14, 2010 7:50 PM  
**To:** 'acstancell@'; 'hans.juvkam-wold@pe.tamu.edu'; 'per.holland@sintef.no'; 'bbaugh@radoil.com'; 'mechenevert@mail.utexas.edu'; 'FBrett@Petroskills.com'; 'bea@ce.berkeley.edu'  
**Cc:** Black, Steve; Hanley, Kallie; pblair@nas.edu  
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If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Kemkar, Neal  
**To:** Per Holand; Black, Steve;  
**cc:** Hanley, Kallie;  
**Subject:** RE: U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Thursday, May 20, 2010 4:17:09 PM

---

Thanks for your follow up Per.

If you follow your proposed route, please do disclose to BP the fact of your involvement with our 30-day safety report but do not disclose any confidential communications or documents that you have or will receive from Interior.

I know your expertise is in high demand so thanks for your understanding about our need to run checks here.. And again, thank you for your help with his project.

Best,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Per Holand [mailto:Per.Holand@exprosoft.com]  
**Sent:** Thursday, May 20, 2010 4:08 PM  
**To:** Kemkar, Neal; Black, Steve  
**Cc:** Hanley, Kallie  
**Subject:** SV: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Neal

I promised BP an answer today.

I plan to say that I would be pleased to participate in their investigation team, but I cannot join it before May 31.

Then your report should be public and my Peer Review obligation finished, so I assume that it will not cause any problems.

Best regards Per

---

**Fra:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sendt:** on 19/05/2010 21:10  
**Til:** Per Holand; Black, Steve  
**Kopi:** Hanley, Kallie  
**Emne:** RE: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Per -- thanks for checking. Before you accept, please allow us some time to consider this question with

appropriate counsel and get back to you quickly.

Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Per Holand [mailto:Per.Holand@exprosoft.com]  
**Sent:** Wednesday, May 19, 2010 3:08 PM  
**To:** Black, Steve; Kemkar, Neal  
**Cc:** Hanley, Kallie  
**Subject:** SV: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Steve, Neal

I have been requested by BP to support them in their investigation related to MC252/Deepwater Horizon incident. I would like to accept that. Is that OK for you?

I will of course not mention that I have been involved with you before May 28.

Per

---

**Fra:** Black, Steve [mailto:steve\_black@ios.doi.gov]  
**Sendt:** ti 18/05/2010 14:46  
**Til:** Per Holand; Kemkar, Neal  
**Kopi:** Hanley, Kallie  
**Emne:** Re: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Per, thank you very much for your prompt reply and helpful comments.

Steve

---

**From:** Per Holand <Per.Holand@exprosoft.com>  
**To:** Kemkar, Neal  
**Cc:** Hanley, Kallie; Black, Steve  
**Sent:** Tue May 18 08:24:50 2010  
**Subject:** RE: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Neal

Please find enclosed your document modified by me with track changes.

I have only commented on the BOP issues. I have deleted some of your proposed actions that I found not be practical and I have added some new and modified some.

I hope that you find my comments useful.

Best regards

**Per Holand**  
Senior Consultant, Ph.D.

**ExproSoft AS**  
Location: Prof. Brochs gt. 2, Trondheim, Norway  
Mail address: N-7465 Trondheim, Norway

Office phone: (+47) 73 20 04 08  
Mobile phone: (+47) 93 20 55 41  
Mail to: [per.holand@exprosoft.com](mailto:per.holand@exprosoft.com)  
Web: [www.exprosoft.com](http://www.exprosoft.com)

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** 15. mai 2010 18:12  
**To:** Per Holand  
**Cc:** Hanley, Kallie; Black, Steve  
**Subject:** Re: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Thanks Per. Glad you can make the call--sorry for the late hour in your time zone. Look forward to speaking on Monday.

Neal

---

**From:** Per Holand <Per.Holand@exprosoft.com>  
**To:** Kemkar, Neal  
**Cc:** Hanley, Kallie; Black, Steve  
**Sent:** Sat May 15 06:32:41 2010  
**Subject:** RE: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Neal

I am willing to be a peer reviewer. Please find enclosed the signed Non-disclosure agreement.

I can participate in the conference call on Monday 17<sup>th</sup> of May, it will be at 2300 Norwegian time.

If you instead want to contact me separately that is OK as well, but then it has to be on Tuesday 18<sup>th</sup> of May.

Best regards

**Per Holand**  
Senior Consultant, Ph.D.

**ExproSoft AS**  
Location: Prof. Brochs gt. 2, Trondheim, Norway  
Mail address: N-7465 Trondheim, Norway

Office phone: (+47) 73 20 04 08  
Mobile phone: (+47) 93 20 55 41  
Mail to: [per.holand@exprosoft.com](mailto:per.holand@exprosoft.com)  
Web: [www.exprosoft.com](http://www.exprosoft.com)

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** 15. mai 2010 01:54  
**To:** Per Holand  
**Cc:** Hanley, Kallie; Black, Steve  
**Subject:** FW: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Importance:** High

Per – good to talk to you earlier this week.

I recognize you are unlikely to make this conference call given the time difference but please work with Kallie to set up a separate 30 minute check-in call with Kallie and me if you are willing to be a peer reviewer as described below.

Thanks,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

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Neal

**From:** Kemkar, Neal  
**To:** Per Holand; Black, Steve;  
**cc:** Hanley, Kallie;  
**Subject:** RE: U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Wednesday, May 19, 2010 3:10:06 PM

---

Per -- thanks for checking. Before you accept, please allow us some time to consider this question with appropriate counsel and get back to you quickly.

Neal

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**Cc:** Hanley, Kallie; Black, Steve  
**Subject:** FW: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
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Neal

**From:** Kemkar, Neal  
**To:** "acstancell@ [REDACTED]"  
**cc:** Black, Steve;  
**Subject:** Re: NAE peer review panel call with DOI tomorrow 5.17 at 5pm Eastern -- AGENDA  
**Date:** Wednesday, May 19, 2010 9:13:29 AM

---

Many thanks Arnie. We look forward to reviewing.

---

**From:** Arnold Stancell <acstancell@[REDACTED]>  
**To:** Kemkar, Neal  
**Sent:** Wed May 19 08:20:08 2010  
**Subject:** Re: NAE peer review panel call with DOI tomorrow 5.17 at 5pm Eastern -- AGENDA

Neal,

Please see my comments attached. Nice meeting you over the phone.

Best regards,  
Arnie

----- Original Message -----

**From:** Kemkar, Neal  
**To:** hans.juvkam-wold@pe.tamu.edu ; bbaugh@radoil.com ; FBrett@Petroskills.com ; bea@ce.berkeley.edu ; per.holand@exprosoft.com ; Chenevert, Martin E ; Arnold Stancell  
**Cc:** Hanley, Kallie ; Black, Steve ; Ishee, Mary Katherine  
**Sent:** Monday, May 17, 2010 2:42 PM  
**Subject:** RE: NAE peer review panel call with DOI tomorrow 5.17 at 5pm Eastern -- AGENDA

**NAE Peer Review Panel Call with DOI 5.17.10  
AGENDA**

- I. Introductions
  - a. DOI introductions
  - b. NAE Panelist Introductions
- II. Overview of NAE Peer Review Panel task
- III. Walk through document to be reviewed
- IV. Questions from NAE Panel on document
- V. Discussion on document
- VI. Next steps ; Panelists each submit comments on document to DOI by 9am on 5.19.10

**Neal Kemkar**  
Office of the Secretary

U.S. Department of the Interior  
(202) 208-5379

**From:** Hanley, Kallie  
**Sent:** Sunday, May 16, 2010 2:52 PM  
**To:** [hans.juvkam-wold@pe.tamu.edu](mailto:hans.juvkam-wold@pe.tamu.edu); [per.holland@sintef.no](mailto:per.holland@sintef.no); [bbaugh@radoil.com](mailto:bbaugh@radoil.com);  
[FBrett@Petroskills.com](mailto:FBrett@Petroskills.com); [bea@ce.berkeley.edu](mailto:bea@ce.berkeley.edu)  
**Cc:** Kemkar, Neal  
**Subject:** NAE peer review panel call with DOI tomorrow 5.17 at 5pm Eastern

Thank you for agreeing to participate in the NAE Peer Review Panel. We would like to convene the panel for a call tomorrow, Monday, May 17th at 5pm Eastern. Please use the following conference call number:

**Call in number:** [REDACTED]

**Participant Access Code:** [REDACTED]

Please let us know if you have any questions before then. We look forward to speaking with you tomorrow.

Thanks,

**Kallie Hanley**  
Office of the White House Liaison  
The U.S. Department of the Interior  
desk: (202) 208-5397 | cell: (202) 374-7694  
[kallie\\_hanley@ios.doi.gov](mailto:kallie_hanley@ios.doi.gov)

**From:** Kemkar, Neal  
**To:** Ford Brett; Black, Steve;  
**cc:** Ishee, Mary Katherine; Hanley, Kaille;  
**Subject:** RE: Brett Comments: U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Tuesday, May 18, 2010 1:10:08 PM

---

Thanks Ford. You understood correctly that your comments are to come directly to the Department of the Interior. We have received your comments and look forward to reviewing.

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Ford Brett [mailto:FBrett@PetroSkills.com]  
**Sent:** Tuesday, May 18, 2010 1:11 PM  
**To:** Kemkar, Neal; Black, Steve  
**Cc:** Ishee, Mary Katherine; Hanley, Kaille  
**Subject:** Brett Comments: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Neal and Steve –

As I understand my instructions, I was NOT to send to other 'discussants'.

Attached are my Suggested Revisions (should be in purple), and my "Editorial Comments" (*shown in purple parenthetical italics*) – to explaining my thinking. These comments may be helpful in combining with other 'discussants'. Besides edits to the current recommendations, I've added unique ideas, and have highlighted the purple edits in yellow.

I've included a one page general comment at the bottom of the document, that explains my approach to the '30 day effort' as I understand it.

One comment that I didn't include: I'd say who(m?) ever came up with this original did a pretty good job to start with. I hope my contribution helps.

I'm at DC time + 6hrs – call any time at 918-408-9516 if I can be helpful, (or email [fbrett@petroskills.com](mailto:fbrett@petroskills.com)).

Thank you for your efforts. Please let me know if I can be of further assistance.

Sincerely,

Ford Brett  
President  
**PetroSkills**  
(o) +1 918 828 2511 (*I pick up messages frequently*)  
(m) +1 918 408 9516 (*works in most of world*)  
Skype Ford.Brett  
or call Rozanne at +1 918 828 2505

[www.PetroSkills.com](http://www.PetroSkills.com)

---

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** Friday, May 14, 2010 6:50 PM

**To:** 'acstancell@[REDACTED]'; 'hans.juvkam-wold@pe.tamu.edu'; 'per.holland@sintef.no'; 'bbaugh@radoil.com'; 'mechenevert@mail.utexas.edu'; Ford Brett; 'bea@ce.berkeley.edu'  
**Cc:** Black, Steve; Hanley, Kallie; pblair@nas.edu  
**Subject:** U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Importance:** High

As you heard from Dr. Peter Blair of the National Academies earlier this week, the U.S. Department of Interior (DOI) is preparing a report at the President's request which reviews and reports what, if any, additional precautions and technologies should be required to prevent accidents like the BP Oil Spill from happening again. The report is due to the President on May 28, 2010.

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We will convene a 90-minute conference call of all interested discussants at **5pm eastern time on Monday, May 17, 2010**. The call will last until approximately 6:30pm.

If you are willing and available to participate, please **sign and return the attached non-disclosure agreement either to this email to return fax number +1-202-208-4561** before 3pm eastern time on Monday, May 17.

If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Kemkar, Neal  
**To:** hans.juvkam-wold@pe.tamu.edu; bbaugh@radoll.com; FBrett@Petroskills.com; bea@ce.berkeley.edu; per.holand@exprosoft.com; Chenevert, Martin E; Arnold Stancell;  
**cc:** Hanley, Kallie; Black, Steve; Ishee, Mary Katherine;  
**Subject:** RE: NAE peer review panel call with DOI tomorrow 5.17 at 5pm Eastern -- AGENDA  
**Date:** Monday, May 17, 2010 2:42:55 PM

---

**NAE Peer Review Panel Call with DOI 5.17.10  
AGENDA**

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- V. Discussion on document
- VI. Next steps : Panelists each submit comments on document to DOI by 9am on 5.19.10

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Hanley, Kallie  
**Sent:** Sunday, May 16, 2010 2:52 PM  
**To:** hans.juvkam-wold@pe.tamu.edu; per.holland@sintef.no; bbaugh@radoil.com; FBrett@Petroskills.com; bea@ce.berkeley.edu  
**Cc:** Kemkar, Neal  
**Subject:** NAE peer review panel call with DOI tomorrow 5.17 at 5pm Eastern

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Call in number: [REDACTED]  
Participant Access Code: [REDACTED]

Please let us know if you have any questions before then. We look forward to speaking with you tomorrow.

Thanks,

**Kallie Hanley**  
Office of the White House Liaison  
The U.S. Department of the Interior  
desk: (202) 208-5397 | cell: (202) 374-7694  
[kallie\\_hanley@ios.doi.gov](mailto:kallie_hanley@ios.doi.gov)

**From:** Black, Steve  
**To:** Per.Holand@exprosoft.com; "hans.iuvkam-wold@pe.tamu.edu";  
"bbaugh@radoil.com"; "FBrett@Petroskills.com"; "bea@ce.berkeley.edu";  
acstancell@ [REDACTED]  
**cc:** Ishee, Mary Katherine; Kemkar, Neal; Hanley, Kallie;  
**Subject:** API Task Force Recommendations  
**Date:** Monday, May 17, 2010 1:37:40 PM  
**Attachments:** DRAFT JITF Recommendations.pdf  
65-2 e1.pdf  
IADC HSE Case Guidelines-MODU Offshore.pdf

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All – in further preparation for this evening's conference call, please see the attached draft recommendations from the API task forces. I received these earlier today. Please do not distribute without permission from API.

Please contact one of us if you have any questions. Thanks for your assistance.

Steve

Steve Black  
Counselor to the Secretary  
U.S. Department of the Interior  
1849 C Street, N.W., MS 7229  
Washington, D.C. 20240  
Phone: 202-208-4123  
Fax: 202-208-4561  
e-mail: steve\_black@ios.doi.gov

**From:** Kemkar, Neal  
**To:** Arnold Stancell;  
**cc:** Hanley, Kallie; Black, Steve;  
**Subject:** RE: U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Monday, May 17, 2010 1:16:44 PM

---

Thanks – we received your agreement and look forward to your participation this afternoon. Kallie will send you meeting details and documents in short order.

**From:** Arnold Stancell [mailto:acstancell@ ]  
**Sent:** Monday, May 17, 2010 12:59 PM  
**To:** Kemkar, Neal  
**Subject:** Re: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Neal,

I was away, just returned. I have signed and faxed the confidentiality agreement to 202-208-4561. I will participate in the 5 pm EST call today.

Best regards,  
Arnold

----- Original Message -----

**From:** Kemkar, Neal  
**To:** 'acstancell@'  
**Cc:** Hanley, Kallie  
**Sent:** Sunday, May 16, 2010 2:31 PM  
**Subject:** FW: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Dr. Stancell – we have not heard from you yet. I just left you a voicemail along these same lines but to confirm your participation in this review, please (1) review the attached confidentiality agreement and return to this email or to fax number 1-202-208-4561 and (2) confirm your ability to participate in a 5pm eastern time call on Monday.

Many thanks,  
Neal

Neal Kemkar

Neal Kemkar  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Kemkar, Neal  
**Sent:** Friday, May 14, 2010 7:50 PM  
**To:** 'acstancell@'; 'hans.juvkam-wold@pe.tamu.edu'; 'per.holland@sintef.no'; 'bbaugh@radoil.

com'; 'mechenevert@mail.utexas.edu'; 'FBrett@Petroskills.com'; 'bea@ce.berkeley.edu'

**Cc:** Black, Steve; Hanley, Kallie; 'pblair@nas.edu'

**Subject:** U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

**Importance:** High

As you heard from Dr. Peter Blair of the National Academies earlier this week, the U.S. Department of Interior (DOI) is preparing a report at the President's request which reviews and reports what, if any, additional precautions and technologies should be required to prevent accidents like the BP Oil Spill from happening again. The report is due to the President on May 28, 2010.

I am writing today to ask you to provide brief but important service in a peer review of our report on increased safety measures for energy development on the outer continental shelf.

As Dr. Blair indicated, we asked that the Academy identify a number of recognized academic and industry experts in the relevant fields to:

- (1) discuss informally with DOI officials the current state of the art of offshore drilling safety and blowout protection and the degree to which such practices are currently in use in the U.S. and incorporated broadly into industry best practices, and
- (2) to vet, again informally, a series of proposed recommendations the department is formulating that would be included in this report. After reviewing who was involved in ongoing related Academy activities and consultation with many colleagues, Dr. Blair's team generated a list of recommended experts, including you.

Although this discussion will be convened directly by us here in the Office of the Secretary of the Interior, not by the National Academies, the Academies have recommended that the DOI consider you as a discussant.

We will convene a 90-minute conference call of all interested discussants at **5pm eastern time on Monday, May 17, 2010**. The call will last until approximately 6:30pm.

If you are willing and available to participate, please **sign and return the attached non-disclosure agreement either to this email to return fax number +1-202-208-4561** before 3pm eastern time on Monday, May 17.

If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Black, Steve  
**To:** [hans.juvkam-wold@pe.tamu.edu](mailto:hans.juvkam-wold@pe.tamu.edu); [per.holland@sintef.no](mailto:per.holland@sintef.no); [bbaugh@radoil.com](mailto:bbaugh@radoil.com); [FBrett@Petroskills.com](mailto:FBrett@Petroskills.com); [bea@ce.berkeley.edu](mailto:bea@ce.berkeley.edu);  
**cc:** [ishee](mailto:ishee), Mary Katherine; [kemkar](mailto:kemkar), Neal; [hanley](mailto:hanley), Kallie;  
**Subject:** FW: U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Sunday, May 16, 2010 10:15:31 PM  
**Attachments:** [100516 Candidate Recommendations.doc](#)

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**CONFIDENTIAL DRAFT – PREDICISIONAL  
CONTAINS INTERAGENCY DELIBERATIVE PROCESS INFORMATION**  
This draft may not be disclosed under FOIA

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Thank you for returning signed confidentiality and non-disclosure agreements. Further to Neal's message and request below, would you kindly review and be prepared to comment on the attached draft safety recommendations during the conference call tomorrow. These proposed recommendations are compiled from several sources. They are organized in four major topic categories, and they are formatted to show clearly some specific additional recommendations from the Department of Energy (DOE).

Thanks in advance for your assistance. We look forward to our discussion tomorrow.

Steve

Steve Black  
Counselor to the Secretary  
U.S. Department of the Interior  
1849 C Street, N.W., MS 7229  
Washington, D.C. 20240  
Phone: 202-208-4123  
Fax: 202-208-4561  
e-mail: [steve\\_black@ios.doi.gov](mailto:steve_black@ios.doi.gov)

**From:** Kemkar, Neal  
**Sent:** Friday, May 14, 2010 7:50 PM  
**To:** 'acstancell@██████████'; [hans.juvkam-wold@pe.tamu.edu](mailto:hans.juvkam-wold@pe.tamu.edu); 'per.holland@sintef.no'; 'bbaugh@radoil.com'; 'mechenevert@mail.utexas.edu'; 'FBrett@Petroskills.com'; 'bea@ce.berkeley.edu'  
**Cc:** Black, Steve; Hanley, Kallie; [pblair@nas.edu](mailto:pblair@nas.edu)  
**Subject:** U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Importance:** High

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safety measures for energy development on the outer continental shelf.

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If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Bob Bea  
**To:** Kemkar, Neal;  
**cc:** "acstanceli@ [REDACTED]"; "hans.juvkam-wold@pe.tamu.edu"; "per.holland@sintef.no"; "bbaugh@radoll.com"; "mechenevert@mail.utexas.edu"; "FBrett@Petroskills.com"; Black, Steve; Hanley, Kallie; pblair@nas.edu;  
**Subject:** Re: U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Saturday, May 15, 2010 5:50:56 PM  
**Attachments:** [DOI Agreement May 15, 2010.pdf](#)  
[OTC02-14293-deepwater operations HOF.pdf](#)  
[Professor Bob Bea- CCRM Deepwater Horizon.pdf](#)

---

Attached is the completed signed disclosure agreement. I have attached my summary resume.

With the assistance of my colleagues, I am preparing a short list of key elements I suggest to position the DOI - MMS as a world leader in the regulatory regimes associated with the offshore oil and gas infrastructure. I plan to send that list to you before I depart for DC early Monday morning.

Attached is a paper I published in the 2002 Proceedings of the Offshore Technology Conference that applies to the design and operation of deepwater offshore structures. The Risk Based Management (RBM) approaches and strategies have been employed by several major offshore platform and pipeline operators (e.g. Woodside Energy Ltd, Chevron, Unocal, Amoco). I think RBM should form one of the major building blocks of an advanced U.S. industry - government regulatory regime. RBM has proven to be an important part of the offshore platform and pipeline regimes implemented by the Norwegian Petroleum Directorate and the UK Health and Safety Executive.

I look forward to making contributions to this very important effort. Thank you for inviting me to help.

Bob Bea

Kemkar, Neal wrote:

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<!--[if !supportLists]-->(1) <!--[endif]--> discuss informally with DOI officials the current state of the art of offshore drilling safety and blowout protection and the degree to which such practices are currently in use in the U.S. and incorporated broadly into industry best practices, and  
<!--[if !supportLists]-->(2) <!--[endif]--> to vet, again informally, a series of proposed recommendations the department is formulating that would be included in this report.

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If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

--  
Professor Robert Bea, PhD, PE  
Department of Civil & Environmental Engineering  
212 McLaughlin Hall  
University of California Berkeley  
Berkeley, CA 94720-1710  
Telephone/fax 510-642-0967  
Telefax 510-643-8919  
Email: [bea@ce.berkeley.edu](mailto:bea@ce.berkeley.edu)

Home Office  
Risk Assessment & Management Services  
60 Shuey Drive  
Moraga, California 94556  
Telephone 925-631-1587  
Cell 925-699-3503  
Email: [BeaRAMS@](mailto:BeaRAMS@) 

**From:** Kemkar, Neal  
**To:** "bea@ce.berkeley.edu";  
**cc:** Hanley, Kallie; Black, Steve;  
**Subject:** Re: U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Saturday, May 15, 2010 3:18:46 PM

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Thanks Bob. The spirit of the confidentiality agreement is to ensure the integrity of your involvement. You may inform/disclose to your university so long as they do not, in turn, publicly announce your involvement until after publication of the report. Thanks for understanding.

Please do join the call when you can on Monday. Safe travels.

---

**From:** Bob Bea <bea@ce.berkeley.edu>  
**To:** Kemkar, Neal  
**Cc:** 'acstancell@' <acstancell@msn.com>; 'hans.juvkam-wold@pe.tamu.edu' <hans.juvkam-wold@pe.tamu.edu>; 'per.holland@sintef.no' <per.holland@sintef.no>; 'bbaugh@radoil.com' <bbaugh@radoil.com>; 'mechenevert@mail.utexas.edu' <mechenevert@mail.utexas.edu>; 'FBrett@Petroskills.com' <FBrett@Petroskills.com>; Black, Steve; Hanley, Kallie; pblair@nas.edu <pblair@nas.edu>  
**Sent:** Fri May 14 20:32:08 2010  
**Subject:** Re: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Happy Friday Evening Neal (and others),

I will arrive at Kennedy airport at 4:09 PM EST. I do not think I can travel from the airport to my hotel and be checked in (Embassy Suites, 900 10 th Street NW) by the time of the conference call. Given that we can address my concerns regarding the non-disclosure agreement (see below), I will connect with the conference call as soon as I can from the hotel.

I will be in Washington from Monday evening through Thursday evening. I have a meeting scheduled for Tuesday. I have tentative meetings scheduled for Thursday (the Thursday PM meeting can be rescheduled). I have reserved a part of Wednesday to be service to this committee - if you want.

please let me know if you would like to meet with me - the day, time, and place.

I have scanned the non-disclosure agreement. The agreement requires that "his or her role in it is confidential." Given my understanding of my employment contract with the University of California, I think this clause could be a problem (public university).

tomorrow morning, I will carefully review the non-disclosure agreement. If I think there could be a problem, I will have to have the University Counsel review the agreement before I can sign it.

as I said earlier, I will depart California early Monday morning (8 AM). Given that it is now the end of semester commencement weekend, I do not think that it will be possible for me to have the University Counsel review the agreement and revert their opinion by the deadline you have specified below.

**given this situation, how do you suggest I proceed ?**

i truly want to assist this effort in any way that i can.

sincerely,

Bob Bea

Kemkar, Neal wrote:

As you heard from Dr. Peter Blair of the National Academies earlier this week, the U.S. Department of Interior (DOI) is preparing a report at the President's request which reviews and reports what, if any, additional precautions and technologies should be required to prevent accidents like the BP Oil Spill from happening again. The report is due to the President on May 28, 2010.

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<!--[if !supportLists]-->(2) <!--[endif]--> to vet, again informally, a series of proposed recommendations the department is formulating that would be included in this report. After reviewing who was involved in ongoing related Academy activities and consultation with many colleagues, Dr. Blair's team generated a list of recommended experts, including you.

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If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

--

Professor Robert Bea, PhD, PE  
Department of Civil & Environmental Engineering  
212 McLaughlin Hall  
University of California Berkeley  
Berkeley, CA 94720-1710  
Telephone/fax 510-642-0967  
Telefax 510-643-8919  
Email: [bea@ce.berkeley.edu](mailto:bea@ce.berkeley.edu)

Home Office  
Risk Assessment & Management Services  
60 Shuey Drive  
Moraga, California 94556  
Telephone 925-631-1587  
Cell 925-699-3503  
Email: [BeaRAMS@](mailto:BeaRAMS@) 

**From:** Benton Baugh  
**To:** Kemkar, Neal; acstancell@ [REDACTED] hans.juvkam-wold@pe.tamu.edu; per.holland@sintef.no; mechenevert@mail.utexas.edu; FBrett@Petroskills.com; bea@ce.berkeley.edu;  
**cc:** Black, Steve; Hanley, Kallie; pblair@nas.edu;  
**Subject:** RE: U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Saturday, May 15, 2010 12:55:14 PM  
**Attachments:** BAUGH NON-DISCLOSURE.pdf

---

Neal: Let me know if this is adequate.

Regards,

Benton F. Baugh

*Radoil, Inc.*

ISO 9001:2008

12551 FM 529 RD  
Houston, TX 77041  
office: (713) 937-4494  
cell: (713) 419-8683  
bbaugh@radoil.com  
[www.radoil.com](http://www.radoil.com)

The information contained in this e-mail may contain confidential or privileged mater and is intended only for the stated addressee(s). If you are not a valid addressee, the use, disclosure, copying or distribution of this information is prohibited and may be unlawful. If you have received this message in error, please notify the sender immediately and delete all copies of the message from your computer.

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** Friday, May 14, 2010 6:50 PM  
**To:** 'acstancell@ [REDACTED] 'hans.juvkam-wold@pe.tamu.edu'; 'per.holland@sintef.no'; 'bbaugh@radoil.com'; 'mechenevert@mail.utexas.edu'; 'FBrett@Petroskills.com'; 'bea@ce.berkeley.edu'  
**Cc:** Black, Steve; Hanley, Kallie; pblair@nas.edu  
**Subject:** U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Importance:** High

As you heard from Dr. Peter Blair of the National Academies earlier this week, the U.S. Department of Interior (DOI) is preparing a report at the President's request which reviews and reports what, if any, additional precautions and technologies should be required to prevent accidents like the BP Oil Spill from happening again. The report is due to the President on May 28, 2010.

I am writing today to ask you to provide brief but important service in a peer review of our report on increased safety measures for energy development on the outer continental shelf.

As Dr. Blair indicated, we asked that the Academy identify a number of recognized academic and industry experts

in the relevant fields to:

- (1) discuss informally with DOI officials the current state of the art of offshore drilling safety and blowout protection and the degree to which such practices are currently in use in the U.S. and incorporated broadly into industry best practices, and
- (2) to vet, again informally, a series of proposed recommendations the department is formulating that would be included in this report. After reviewing who was involved in ongoing related Academy activities and consultation with many colleagues, Dr. Blair's team generated a list of recommended experts, including you.

Although this discussion will be convened directly by us here in the Office of the Secretary of the Interior, not by the National Academies, the Academies have recommended that the DOI consider you as a discussant.

We will convene a 90-minute conference call of all interested discussants at **5pm eastern time on Monday, May 17, 2010**. The call will last until approximately 6:30pm.

If you are willing and available to participate, please **sign and return the attached non-disclosure agreement either to this email to return fax number +1-202-208-4561** before 3pm eastern time on Monday, May 17.

If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

**Neal Kemlar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Kemkar, Neal  
**To:** "Per.Holand@exprosoft.com";  
**cc:** Hanley, Kallie; Black, Steve;  
**Subject:** Re: U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Saturday, May 15, 2010 12:11:32 PM

---

Thanks Per. Glad you can make the call--sorry for the late hour in your time zone. Look forward to speaking on Monday.

Neal

---

**From:** Per Holand <Per.Holand@exprosoft.com>  
**To:** Kemkar, Neal  
**Cc:** Hanley, Kallie; Black, Steve  
**Sent:** Sat May 15 06:32:41 2010  
**Subject:** RE: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

Neal

I am willing to be a peer reviewer. Please find enclosed the signed Non-disclosure agreement.

I can participate in the conference call on Monday 17<sup>th</sup> of May, it will be at 2300 Norwegian time.

If you instead want to contact me separately that is OK as well, but then it has to be on Tuesday 18<sup>th</sup> of May.

Best regards

**Per Holand**  
Senior Consultant, Ph.D.

**ExproSoft AS**  
Location: Prof. Brochs gt. 2, Trondheim, Norway  
Mail address: N-7465 Trondheim, Norway

Office phone: (+47) 73 20 04 08  
Mobile phone: (+47) 93 20 55 41  
Mail to: [per.holand@exprosoft.com](mailto:per.holand@exprosoft.com)  
Web: [www.exprosoft.com](http://www.exprosoft.com)

**From:** Kemkar, Neal [mailto:Neal\_Kemkar@ios.doi.gov]  
**Sent:** 15. mai 2010 01:54  
**To:** Per Holand  
**Cc:** Hanley, Kallie; Black, Steve  
**Subject:** FW: U.S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)

**Importance:** High

Per – good to talk to you earlier this week.

I recognize you are unlikely to make this conference call given the time difference but please work with Kallie to set up a separate 30 minute check-in call with Kallie and me if you are willing to be a peer reviewer as described below.

Thanks,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

As you heard from Dr. Peter Blair of the National Academies earlier this week, the U.S. Department of Interior (DOI) is preparing a report at the President's request which reviews and reports what, if any, additional precautions and technologies should be required to prevent accidents like the BP Oil Spill from happening again. The report is due to the President on May 28, 2010.

I am writing today to ask you to provide brief but important service in a peer review of our report on increased safety measures for energy development on the outer continental shelf.

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If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

**From:** Bob Bea  
**To:** Kemkar, Neal;  
**cc:** "acstancell@ [REDACTED]"; "hans.juvkam-wold@pe.tamu.edu"; "per.holland@sintef.no"; "bbaugh@radoll.com"; "mechenevert@mail.utexas.edu"; "FBrett@Petroskills.com"; Black, Steve; Hanley, Kallie; pblair@nas.edu;  
**Subject:** Re: U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Friday, May 14, 2010 8:32:12 PM

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Happy Friday Evening Neal (and others),

i will arrive at Kennedy airport at 4:09 PM EST. i do not think i can travel from the airport to my hotel and be checked in (Embassy Suites, 900 10 th Street NW) by the time of the conference call. given that we can address my concerns regarding the non-disclosure agreement (see below), i will connect with the conference call as soon as i can from the hotel.

i will be in Washington from Monday evening through Thursday evening. i have a meeting scheduled for Tuesday. i have tentative meetings scheduled for Thursday (the Thursday PM meeting can be rescheduled). i have reserved a part of Wednesday to be service to this committee - if you want.

please let me know if you would like to meet with me - the day, time, and place.

i have scanned the non-disclosure agreement. The agreement requires that "his or her role in it is confidential." Given my understanding of my employment contract with the University of California, i think this clause could be a problem (public university).

tomorrow morning, i will carefully review the non-disclosure agreement. if i think there could be a problem, i will have to have the University Counsel review the agreement before i can sign it.

as i said earlier, i will depart California early Monday morning (8 AM). given that it is now the end of semester commencement weekend, i do not think that it will be possible for me to have the University Counsel review the agreement and revert their opinion by the deadline you have specified below.

**given this situation, how do you suggest i proceed ?**

i truly want to assist this effort in any way that i can.

sincerely,

Bob Bea

Kemkar, Neal wrote:

As you heard from Dr. Peter Blair of the National Academies earlier this week, the U.S. Department of Interior (DOI) is preparing a report at the President's request which reviews and reports what, if any, additional precautions and technologies should be required to prevent accidents like the BP Oil Spill from happening again. The report is due to the President on May 28, 2010.

I am writing today to ask you to provide brief but important service in a peer review of our report on increased safety measures for energy development on the outer continental shelf.

As Dr. Blair indicated, we asked that the Academy identify a number of recognized academic and industry experts in the relevant fields to:

<!--[if !supportLists]-->(1) <!--[endif]--> discuss informally with DOI officials the current state of the art of offshore drilling safety and blowout protection and the degree to which such practices are currently in use in the U.S. and incorporated broadly into industry best practices, and  
<!--[if !supportLists]-->(2) <!--[endif]--> to vet, again informally, a series of proposed recommendations the department is formulating that would be included in this report. After reviewing who was involved in ongoing related Academy activities and consultation with many colleagues, Dr. Blair's team generated a list of recommended experts, including you.

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If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

--  
Professor Robert Bea, PhD, PE  
Department of Civil & Environmental Engineering  
212 McLaughlin Hall  
University of California Berkeley  
Berkeley, CA 94720-1710  
Telephone/fax 510-642-0967  
Telefax 510-643-8919  
Email: [bea@ce.berkeley.edu](mailto:bea@ce.berkeley.edu)

Home Office  
Risk Assessment & Management Services

60 Shuey Drive  
Moraga, California 94556  
Telephone 925-631-1587  
Cell 925-699-3503  
Email: BeaRAMS@ [REDACTED]

**From:** Kemkar, Neal  
**To:** per.holand@exprosoft.com;  
**cc:** Hanley, Kallie; Black, Steve;  
**Subject:** FW: U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Friday, May 14, 2010 7:54:02 PM  
**Attachments:** Peer Review - Consultant NonDisclosureAgtFINAL.PDF

---

Per – good to talk to you earlier this week.

I recognize you are unlikely to make this conference call given the time difference but please work with Kallie to set up a separate 30 minute check-in call with Kallie and me if you are willing to be a peer reviewer as described below.

Thanks,  
Neal

Neal Kemkar  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

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If you have any questions, please feel free to contact me directly on this email.

Best,

Neal

**From:** Kemkar, Neal  
**To:** "acstancell@ [REDACTED]"; "hans.juvkam-wold@pe.tamu.edu"; "per.holland@sintef.no"; "bbaugh@radoil.com"; "mechenevert@mail.utexas.edu"; "FBrett@Petroskills.com"; "bea@ce.berkeley.edu";  
**cc:** Black, Steve; Hanley, Kalle; pblair@nas.edu;  
**Subject:** U.  
S. Department of Interior Peer Review Request for Offshore Energy Development Safety Report (Time-Sensitive)  
**Date:** Friday, May 14, 2010 7:50:07 PM  
**Attachments:** Peer Review - Consultant NonDisclosureAgmtFINAL.PDF

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As you heard from Dr. Peter Blair of the National Academies earlier this week, the U.S. Department of Interior (DOI) is preparing a report at the President's request which reviews and reports what, if any, additional precautions and technologies should be required to prevent accidents like the BP Oil Spill from happening again. The report is due to the President on May 28, 2010.

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If you have any questions, please feel free to contact me directly on this email.

Best,  
Neal

**Neal Kemkar**  
Office of the Secretary  
U.S. Department of the Interior  
(202) 208-5379

**From:** Hanley, Kallie  
**To:** Bob Bea;  
**cc:** Blair, Peter; Kemkar, Neal; Black, Steve; Roxanne Makasdjian; Sarah Yang; Karlene Roberts;  
**Subject:** RE: U.S. Department of Interior Reviews of Deepwater Horizon Incident  
**Date:** Friday, May 14, 2010 10:25:50 AM

---

Thanks Bob.

I will discuss with folks here this afternoon and get back to you by this evening.

Thanks,

**Kallie Hanley**  
Office of the White House Liaison  
The U.S. Department of the Interior  
desk: (202) 208-5397 | cell: (202) 374-7694  
[kallie\\_hanley@ios.doi.gov](mailto:kallie_hanley@ios.doi.gov)

**From:** Bob Bea [mailto:bea@ce.berkeley.edu]  
**Sent:** Friday, May 14, 2010 10:18 AM  
**To:** Hanley, Kallie  
**Cc:** Blair, Peter; Kemkar, Neal; Black, Steve; Roxanne Makasdjian; Sarah Yang; Karlene Roberts  
**Subject:** Re: U.S. Department of Interior Reviews of Deepwater Horizon Incident

Happy Friday Kallie,

here is link to radio interview i did on development of the Deepwater Horizon blowout :

[http://www.webwiseforradio.com/site\\_files/244/File/INO\\_051210\\_H3.mp3](http://www.webwiseforradio.com/site_files/244/File/INO_051210_H3.mp3)

**please let me know as soon as you can if i could be useful next week on Wednesday or Thursday afternoon (Thursday morning now scheduled for another meeting).**

Bob Bea

Hanley, Kallie wrote:  
Dr. Bea

Thank you for your willingness to participate and share your depth of knowledge. We will be in touch in the very near future.

Best,

**Kallie Hanley**

Office of the White House Liaison  
The U.S. Department of the Interior  
desk: (202) 208-5397 | cell: (202) 374-7694  
[kallie\\_hanley@ios.doi.gov](mailto:kallie_hanley@ios.doi.gov)

---

**From:** Bob Bea [<mailto:bea@ce.berkeley.edu>]

**Sent:** Wednesday, May 12, 2010 9:39 AM

**To:** Blair, Peter

**Cc:** Kemkar, Neal; Hanley, Kallie; Black, Steve; Roxanne Makasdjian; Sarah Yang; Karlene Roberts

**Subject:** Re: U.S. Department of Interior Reviews of Deepwater Horizon Incident

Happy Wednesday Peter.

Thank you for the invitation. I will be pleased to serve as a discussant.

As this very important process continues to develop, I will be pleased to help when, where, and how I can be most effective. I and my colleagues in academia, industry, and government see this disaster as a very important opportunity to help this vital public - governmental - industrial - environmental enterprise take major steps forward to continue to develop this precious natural resource in ways that meet our stewardship responsibilities.

Earlier this year, the University of California granted me a sabbatical leave for the 2010 Fall semester. Currently, we are concluding our 2010 Spring semester. Thus I will be on academic leave during the period May 16 through January 18, 2011. This academic leave period will make available much more time for me to help with this important work.

During the early days following the initiation of our investigation of the failures of the flood protection system for the Greater New Orleans Area, we formed the Center for Catastrophic Risk Management (CCRM) at the University of California, Berkeley ( <http://ccrm.berkeley.edu/> ). CCRM served as the home for our 2 year National Science Foundation (NSF) sponsored Independent Levee Investigation Team activities. CCRM is a collation of highly qualified interdisciplinary academics and practitioners. During the past 2 years, members of this group have focused on a NSF research project on development of advanced Risk Assessment and Management (RAM) based approaches to enhance the resilience and sustainability of California's Sacramento and San Joaquin Delta infrastructure systems ( <http://>

[ccrm.berkeley.edu/resin/](http://ccrm.berkeley.edu/resin/) ).

Shortly after I became engaged in this disaster (7 PM April 20th by former students engaged in all parts of the Gulf Coast oil and gas industry), I turned to my CCRM colleagues and asked for their help. The present director of CCRM, Professor Karlene Roberts (career expert in High Reliability Organizations), has agreed to help form that group. Karlene and I have served as RAM consultants to the international oil and gas industry, including British Petroleum and the U.S. Minerals Management Service. Also, I have asked my colleagues in the international oil and gas industry for their help. Many of these colleagues have agreed to help with this work. This group is being formed to support our research to help investigate causes for the failures and successes associated with the Deepwater Horizon drilling unit and the subsequent containment and clean-up operations. As in the case of our investigation of the Hurricane Katrina flood protection failures, we plan to address ways to help improve our stewardship responsibilities for U.S. offshore oil and gas resources. Again, we are turning to the NSF to provide funds to help defray expenses associated with this work.

Sincerely,

Bob Bea

---

Blair, Peter wrote:

Dear Dr. Bea:

I am writing to alert you that you may be asked by the U.S. Department of Interior (DOI), Office of the Secretary, to provide brief but important service with regard to the Department's formulation of an early action plan in response to the oil blowout at Deepwater Horizon.

As you are no doubt now aware, the oil well blowout at Deepwater Horizon has generated many questions about offshore drilling safety and blowout prevention. In the wake of the incident, The Offshore Drilling Interim Safety Measures Report ("30-Day Safety Report") ordered by President Obama on April 30, 2010, requests Interior Secretary Salazar to review and report what, if any, additional precautions and technologies should be required to prevent accidents like the Deepwater Horizon incident from happening again. The Report will include a discussion of known legal and regulatory requirements as well as current industry practices. It will focus on recommendations for interim measures that will increase offshore

drilling safety, including but not limited to engineering and operating practices aimed at reducing the chance of a future blowout and the appropriate testing and operation of backup safety equipment such as blowout preventers. The Report will also include an action plan for moving forward on achieving increased offshore drilling safety in the near term, including suggested additional study. This Report is not a full investigation of the incident—such an investigation will be undertaken jointly by the Minerals Management Service and U.S. Coast Guard and Secretary Salazar intends to commission an independent technical assessment by the National Academy of Engineering (NAE).

In the course of preliminary discussions directed toward commissioning the NAE assessment, DOI officials asked that we at the Academy identify a number of recognized academic and industry experts in the relevant fields to (1) discuss informally with DOI officials the current state of the art of offshore drilling safety and blowout protection and the degree to which such practices are currently in use in the U.S. and incorporated broadly into industry best practices, and (2) to vet, again informally, a series of proposed recommendations the department is formulating that would be included in the 30-Day Safety Report. After reviewing who was involved in ongoing related Academy activities and consultation with many colleagues, we generated a list of recommended experts, including you. Although this discussion will be convened directly by the Office of the Secretary of the Interior, not by the National Academies, we have recommended that the DOI consider you as a discussant. In the coming days DOI officials copied on this message will be following up directly with you to explore your availability. Whether you agree to help DOI or not is, of course, entirely up to you, but if you are available, I hope you will give serious consideration to participating.

With best wishes,

Peter D. Blair, Ph.D.

Executive Director

Division on Engineering and Physical Sciences

The National Academies

500 Fifth Street, N.W.

Washington, DC 20001

Email: [pblair@nas.edu](mailto:pblair@nas.edu); Tel: 202-334-2400; Fax: 202-334-3373

--

Professor Robert Bea, PhD, PE  
Department of Civil & Environmental Engineering  
212 McLaughlin Hall  
University of California Berkeley  
Berkeley, CA 94720-1710  
Telephone/fax 510-642-0967  
Telefax 510-643-8919  
Email: [bea@ce.berkeley.edu](mailto:bea@ce.berkeley.edu)

Home Office  
Risk Assessment & Management Services  
60 Shuey Drive  
Moraga, California 94556  
Telephone 925-631-1587  
Cell 925-699-3503  
Email: [BeaRAMS@](mailto:BeaRAMS@) [REDACTED]

---

Professor Robert Bea, PhD, PE  
Department of Civil & Environmental Engineering  
212 McLaughlin Hall  
University of California Berkeley  
Berkeley, CA 94720-1710  
Telephone/fax 510-642-0967  
Telefax 510-643-8919  
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Home Office  
Risk Assessment & Management Services  
60 Shuey Drive  
Moraga, California 94556  
Telephone 925-631-1587  
Cell 925-699-3503  
Email: [BeaRAMS@](mailto:BeaRAMS@) [REDACTED]

**From:** Hanley, Kallie  
**To:** Arnold Stancell; Blair, Peter;  
**cc:** Kemkar, Neal; Black, Steve;  
**Subject:** RE: U.S. Department of Interior Reviews of Deepwater Horizon Incident  
**Date:** Wednesday, May 12, 2010 7:22:08 PM

---

Mr. Stancell,

Thank you for your willingness to participate and share your depth of knowledge. We will be in touch soon.

Best,

Kallie Hanley  
Office of the White House Liaison  
The U.S. Department of the Interior  
desk: (202) 208-5397 | cell: (202) 374-7694  
[kallie\\_hanley@ios.doi.gov](mailto:kallie_hanley@ios.doi.gov)

---

**From:** Arnold Stancell [mailto:acstancell@msn.com]  
**Sent:** Wednesday, May 12, 2010 10:41 AM  
**To:** Blair, Peter  
**Cc:** Kemkar, Neal; Hanley, Kallie; Black, Steve  
**Subject:** Re: U.S. Department of Interior Reviews of Deepwater Horizon Incident

Dear Peter,

I look forward to hearing from DOI.

Best regards,  
Arnold

----- Original Message -----

**From:** Blair, Peter  
**To:** 'acstancell@[REDACTED]'  
**Cc:** 'Kemkar, Neal' ; Hanley, Kallie ; Black, Steve  
**Sent:** Wednesday, May 12, 2010 7:37 AM  
**Subject:** RE: U.S. Department of Interior Reviews of Deepwater Horizon Incident

Dear Arnold:

I am writing to alert you that you may be asked by the U.S. Department of Interior (DOI), Office of the Secretary, to provide brief but important service with regard to the Department's formulation of an early action plan in response to the oil blowout at Deepwater Horizon.

As you are no doubt now aware, the oil well blowout at Deepwater Horizon has generated many questions about offshore drilling safety and blowout prevention. In the wake of the incident, The Offshore Drilling Interim Safety Measures Report ("30-Day Safety Report") ordered by President Obama on April 30, 2010, requests Interior Secretary Salazar to review and report what, if any, additional precautions and technologies should be required to prevent accidents like the Deepwater Horizon incident from happening again. The Report will include a discussion of known legal and regulatory requirements as well as current industry practices. It will focus on recommendations for interim measures that will increase offshore drilling safety, including but not limited to engineering and operating practices aimed at reducing the chance of a future blowout and the appropriate testing and operation of backup safety equipment such as blowout preventers. The Report will also include an action plan for moving forward on achieving increased offshore drilling safety in the near term, including suggested additional study. This Report is not a full investigation of the incident—such an investigation will be undertaken jointly by the Minerals Management Service and U.S. Coast Guard and Secretary Salazar intends to commission an independent technical assessment by the National Academy of Engineering (NAE).

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With best wishes,

Peter D. Blair, Ph.D.

Executive Director  
Division on Engineering and Physical Sciences  
The National Academies  
500 Fifth Street, N.W.  
Washington, DC 20001  
Email: [pblair@nas.edu](mailto:pblair@nas.edu); Tel: 202-334-2400; Fax: 202-334-3373

**From:** Hanley, Kallie  
**To:** Bob Bea; Blair, Peter;  
**cc:** Kemkar, Neal; Black, Steve; Roxanne Makasdjian; Sarah Yang;  
Karlene Roberts;  
**Subject:** RE: U.S. Department of Interior Reviews of Deepwater Horizon Incident  
**Date:** Wednesday, May 12, 2010 7:21:19 PM

---

Dr. Bea

Thank you for your willingness to participate and share your depth of knowledge. We will be in touch in the very near future.

Best,

**Kallie Hanley**  
Office of the White House Liaison  
The U.S. Department of the Interior  
desk: (202) 208-5397 | cell: (202) 374-7694  
[kallie\\_hanley@ios.doi.gov](mailto:kallie_hanley@ios.doi.gov)

**From:** Bob Bea [mailto:bea@ce.berkeley.edu]  
**Sent:** Wednesday, May 12, 2010 9:39 AM  
**To:** Blair, Peter  
**Cc:** Kemkar, Neal; Hanley, Kallie; Black, Steve; Roxanne Makasdjian; Sarah Yang; Karlene Roberts  
**Subject:** Re: U.S. Department of Interior Reviews of Deepwater Horizon Incident

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Thank you for the invitation. I will be pleased to serve as a discussant.

As this very important process continues to develop, I will be pleased to help when, where, and how I can be most effective. I and my colleagues in academia, industry, and government see this disaster as a very important opportunity to help this vital public - governmental - industrial - environmental enterprise take major steps forward to continue to develop this precious natural resource in ways that meet our stewardship responsibilities.

Earlier this year, the University of California granted me a sabbatical leave for the 2010 Fall semester. Currently, we are concluding our 2010 Spring semester. Thus I will be on academic leave during the period May 16 through January 18, 2011. This academic leave period will make available much more time for me to help with this important work.

During the early days following the initiation of our investigation of the failures of the flood protection system for the Greater New Orleans Area, we formed the Center for Catastrophic Risk Management (CCRM) at the University of California, Berkeley ( <http://ccrm.berkeley.edu/> ). CCRM served as the home for our 2 year National Science Foundation (NSF) sponsored Independent Levee Investigation Team activities. CCRM is a collation of highly qualified interdisciplinary academics and practitioners. During the past 2 years, members of this group have focused on a NSF research project on development of advanced Risk Assessment and Management (RAM) based approaches to enhance the resilience and sustainability of California's Sacramento and San Joaquin Delta infrastructure systems ( <http://ccrm.berkeley.edu/resin/> ).

Shortly after I became engaged in this disaster (7 PM April 20th by former students engaged in all parts of the Gulf Coast oil and gas industry), I turned to my CCRM colleagues and asked for their help. The present director of CCRM, Professor Karlene Roberts (career expert in High Reliability Organizations), has agreed to help form that group. Karlene and I have served as RAM consultants to the international oil and gas industry, including British Petroleum and the U.S. Minerals Management Service. Also, I have asked my colleagues in the international oil and gas industry for their help. Many of these colleagues have agreed to help with this work. This group is being formed to support our research to help investigate causes for the failures and successes associated with the Deepwater Horizon drilling unit and the subsequent containment and clean-up operations. As in the case of our investigation of the Hurricane Katrina flood protection failures, we plan to address ways to help improve our stewardship responsibilities for U.S. offshore oil and gas resources. Again, we are turning to the NSF to provide funds to help defray expenses associated with this work.

Sincerely,

Bob Bea

---

Blair, Peter wrote:

Dear Dr. Bea:

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In the course of preliminary discussions directed toward commissioning the NAE assessment, DOI officials asked that we at the Academy identify a number of recognized academic and industry experts in the relevant fields to (1) discuss informally with DOI officials the current state of the art of offshore drilling safety and blowout protection and the degree to which such practices are currently in use in the U.S. and incorporated broadly into industry best practices, and (2) to vet, again informally, a series of proposed recommendations the department is formulating that would be included in the 30-Day Safety Report. After reviewing who was involved in ongoing related Academy activities and consultation with many colleagues, we generated a list of recommended experts, including you. Although this discussion will be convened directly by the Office of the Secretary of the Interior, not by the National Academies, we have recommended that the DOI consider you as a discussant. In the coming days DOI officials copied on this message will be following up directly with you to explore your availability. Whether you agree to help DOI or not is, of course, entirely up to you, but if you are available, I hope you will give serious consideration to participating.

With best wishes,

Peter D. Blair, Ph.D.  
Executive Director

Division on Engineering and Physical Sciences  
The National Academies  
500 Fifth Street, N.W.  
Washington, DC 20001  
Email: [pblair@nas.edu](mailto:pblair@nas.edu); Tel: 202-334-2400; Fax: 202-334-3373

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Professor Robert Bea, PhD, PE  
Department of Civil & Environmental Engineering  
212 McLaughlin Hall  
University of California Berkeley  
Berkeley, CA 94720-1710  
Telephone/fax 510-642-0967  
Telefax 510-643-8919  
Email: [bea@ce.berkeley.edu](mailto:bea@ce.berkeley.edu)

Home Office  
Risk Assessment & Management Services  
60 Shuey Drive  
Moraga, California 94556  
Telephone 925-631-1587  
Cell 925-699-3503  
Email: [BeaRAMS@](mailto:BeaRAMS@) 

**From:** Hanley, Kallie  
**To:** Ford Brett; Blair, Peter;  
**cc:** Kemkar, Neal; Black, Steve;  
**Subject:** RE: U.S. Department of Interior Reviews of Deepwater Horizon Incident  
**Date:** Wednesday, May 12, 2010 7:20:39 PM

---

Mr. Brett

Thank you for your willingness to participate and share your depth of knowledge. We will be in touch in the very near future to set something up.

Best,

Kallie Hanley  
Office of the White House Liaison  
The U.S. Department of the Interior  
desk: (202) 208-5397 | cell: (202) 374-7694  
kallie\_hanley@ios.doi.gov

-----Original Message-----

From: Ford Brett [<mailto:FBrett@PetroSkills.com>]  
Sent: Wednesday, May 12, 2010 8:13 AM  
To: Blair, Peter  
Cc: Kemkar, Neal; Hanley, Kallie; Black, Steve  
Subject: Re: U.S. Department of Interior Reviews of Deepwater Horizon Incident

Dr Blair -

I would be honored to participate - I'd certainly do my best to help understand the cause, and how to prevent regrettable incidents like this in the future.

Please let me know how I may be able to help.

Sincerely,

Ford Brett

(m) +1 918 408 9516

On May 12, 2010, at 6:34 AM, "Blair, Peter" <PBlair@nas.edu> wrote:

> Dear Mr. Brett:

>

>

>

> I am writing to alert you that you may be asked by the U.S.  
> Department of Interior (DOI), Office of the Secretary, to provide  
> brief but important service with regard to the Department's  
> formulation of an early action plan in response to the oil blowout  
> at Deepwater Horizon.

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>

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> Horizon has generated many questions about offshore drilling safety  
> and blowout prevention. In the wake of the incident, The Offshore  
> Drilling Interim Safety Measures Report ("30-Day Safety Report")  
> ordered by President Obama on April 30, 2010, requests Interior Sec  
> etary Salazar to review and report what, if any, additional precauti  
> ons and technologies should be required to prevent accidents like th  
> e Deepwater Horizon incident from happening again. The Report will  
> include a discussion of known legal and regulatory requirements as w  
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> for interim measures that will increase offshore drilling safety, i  
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> d at reducing the chance of a future blowout and the appropriate tes  
> ting and operation of backup safety equipment such as blowout preven  
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> d on achieving increased offshore drilling safety in the near term,  
> including suggested additional study. This Report is not a full inv  
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> jointly by the Minerals Management Service and U.S. Coast Guard and  
> Secretary Salazar intends to commission an independent technical ass  
> essment by the National Academy of Engineering (NAE).

>

>

>

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> commissioning the NAE assessment, DOI officials asked that we at the  
> Academy identify a number of recognized academic and industry  
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> officials the current state of the art of offshore drilling safety  
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>

> With best wishes,

>

>

>

> Peter D. Blair, Ph.D.

>

> Executive Director

>

> Division on Engineering and Physical Sciences

>

> The National Academies

>

> 500 Fifth Street, N.W.

>

> Washington, DC 20001

>

> Email: [pblair@nas.edu](mailto:pblair@nas.edu); Tel: 202-334-2400; Fax: 202-334-3373

>

>

**From:** Roxanne Makasdjian  
**To:** Bob Bea; Blair, Peter;  
**cc:** Kemkar, Neal; Hanley, Kallie; Black, Steve; Sarah Yang; Karlene Roberts;  
rsanders@berkeley.edu;  
**Subject:** RE: U.S. Department of Interior Reviews of Deepwater Horizon Incident  
**Date:** Wednesday, May 12, 2010 12:20:33 PM

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Thank you, Bob. This information is useful for our media relations work on your behalf, too.

*Sincerely,*

*Roxanne Makasdjian*  
*Manager, Broadcast Communications*  
*UC Berkeley Media Relations*  
*2200 Bancroft Way, 4204*  
*Berkeley, CA 94720-4204*  
*(510) 642-6051*  
*roxannem@berkeley.edu*

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**From:** Bob Bea [mailto:bea@ce.berkeley.edu]  
**Sent:** Wednesday, May 12, 2010 6:39 AM  
**To:** Blair, Peter  
**Cc:** 'Kemkar, Neal'; Hanley, Kallie; Black, Steve; Roxanne Makasdjian; Sarah Yang; Karlene Roberts  
**Subject:** Re: U.S. Department of Interior Reviews of Deepwater Horizon Incident

Happy Wednesday Peter.

Thank you for the invitation. I will be pleased to serve as a discussant.

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Sincerely,

Bob Bea

---

Blair, Peter wrote:

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With best wishes,

Peter D. Blair, Ph.D.  
Executive Director

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500 Fifth Street, N.W.  
Washington, DC 20001  
Email: [pblair@nas.edu](mailto:pblair@nas.edu); Tel: 202-334-2400; Fax: 202-334-3373

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Professor Robert Bea, PhD, PE  
Department of Civil & Environmental Engineering  
212 McLaughlin Hall  
University of California Berkeley  
Berkeley, CA 94720-1710  
Telephone/fax 510-642-0967  
Telefax 510-643-8919  
Email: [bea@ce.berkeley.edu](mailto:bea@ce.berkeley.edu)

Home Office  
Risk Assessment & Management Services  
60 Shuey Drive  
Moraga, California 94556  
Telephone 925-631-1587  
Cell 925-699-3503  
Email: [BeaRAMS@](mailto:BeaRAMS@) 

**From:** Blair, Peter  
**To:** "acstancell@ [REDACTED]"  
**cc:** Kemkar, Neal; Hanley, Kallie; Black, Steve;  
**Subject:** RE: U.S. Department of Interior Reviews of Deepwater Horizon Incident  
**Date:** Wednesday, May 12, 2010 7:38:47 AM

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Dear Arnold:

I am writing to alert you that you may be asked by the U.S. Department of Interior (DOI), Office of the Secretary, to provide brief but important service with regard to the Department's formulation of an early action plan in response to the oil blowout at Deepwater Horizon.

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With best wishes,

Peter D. Blair, Ph.D.  
Executive Director  
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500 Fifth Street, N.W.  
Washington, DC 20001  
Email: [pblair@nas.edu](mailto:pblair@nas.edu); Tel: 202-334-2400; Fax: 202-334-3373

**From:** Blair, Peter  
**To:** "hans.juvkam-wold@pe.tamu.edu";  
**cc:** Kemkar, Neal; Hanley, Kallie; Black, Steve;  
**Subject:** RE: U.S. Department of Interior Reviews of Deepwater Horizon Incident  
**Date:** Wednesday, May 12, 2010 7:38:14 AM

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Dear Juvkam-Wold:

I am writing to alert you that you may be asked by the U.S. Department of Interior (DOI), Office of the Secretary, to provide brief but important service with regard to the Department's formulation of an early action plan in response to the oil blowout at Deepwater Horizon.

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Executive Director  
Division on Engineering and Physical Sciences  
The National Academies  
500 Fifth Street, N.W.  
Washington, DC 20001  
Email: [pblair@nas.edu](mailto:pblair@nas.edu); Tel: 202-334-2400; Fax: 202-334-3373

**From:** Blair, Peter  
**To:** "per.holland@sintef.no";  
**cc:** Kemkar, Neal; Hanley, Kallie; Black, Steve;  
**Subject:** RE: U.S. Department of Interior Reviews of Deepwater Horizon Incident  
**Date:** Wednesday, May 12, 2010 7:36:22 AM

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Dear Holland:

I am writing to alert you that you may be asked by the U.S. Department of Interior (DOI), Office of the Secretary, to provide brief but important service with regard to the Department's formulation of an early action plan in response to the oil blowout at Deepwater Horizon.

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500 Fifth Street, N.W.  
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Email: [pblair@nas.edu](mailto:pblair@nas.edu); Tel: 202-334-2400; Fax: 202-334-3373

**From:** Blair, Peter  
**To:** "mechenevert@mail.utexas.edu";  
**cc:** Kemkar, Neal; Hanley, Kallie; Black, Steve;  
**Subject:** RE: U.S. Department of Interior Reviews of Deepwater Horizon Incident  
**Date:** Wednesday, May 12, 2010 7:35:38 AM

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Dear Dr. Chenevert:

I am writing to alert you that you may be asked by the U.S. Department of Interior (DOI), Office of the Secretary, to provide brief but important service with regard to the Department's formulation of an early action plan in response to the oil blowout at Deepwater Horizon.

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**From:** Blair, Peter  
**To:** "FBrett@Petroskills.com"  
**cc:** Kemkar, Neal; Hanley, Kallie; Black, Steve;  
**Subject:** RE: U.S. Department of Interior Reviews of Deepwater Horizon Incident  
**Date:** Wednesday, May 12, 2010 7:34:00 AM

---

Dear Mr. Brett:

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With best wishes,

Peter D. Blair, Ph.D.  
Executive Director  
Division on Engineering and Physical Sciences  
The National Academies  
500 Fifth Street, N.W.  
Washington, DC 20001  
Email: [pblair@nas.edu](mailto:pblair@nas.edu); Tel: 202-334-2400; Fax: 202-334-3373

**From:** Blair, Peter  
**To:** "bea@ce.berkeley.edu";  
**cc:** Kemkar, Neal; Hanley, Kallie; Black, Steve;  
**Subject:** RE: U.S. Department of Interior Reviews of Deepwater Horizon Incident  
**Date:** Wednesday, May 12, 2010 7:32:02 AM

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Dear Dr. Bea:

I am writing to alert you that you may be asked by the U.S. Department of Interior (DOI), Office of the Secretary, to provide brief but important service with regard to the Department's formulation of an early action plan in response to the oil blowout at Deepwater Horizon.

As you are no doubt now aware, the oil well blowout at Deepwater Horizon has generated many questions about offshore drilling safety and blowout prevention. In the wake of the incident, The Offshore Drilling Interim Safety Measures Report ("30-Day Safety Report") ordered by President Obama on April 30, 2010, requests Interior Secretary Salazar to review and report what, if any, additional precautions and technologies should be required to prevent accidents like the Deepwater Horizon incident from happening again. The Report will include a discussion of known legal and regulatory requirements as well as current industry practices. It will focus on recommendations for interim measures that will increase offshore drilling safety, including but not limited to engineering and operating practices aimed at reducing the chance of a future blowout and the appropriate testing and operation of backup safety equipment such as blowout preventers. The Report will also include an action plan for moving forward on achieving increased offshore drilling safety in the near term, including suggested additional study. This Report is not a full investigation of the incident—such an investigation will be undertaken jointly by the Minerals Management Service and U.S. Coast Guard and Secretary Salazar intends to commission an independent technical assessment by the National Academy of Engineering (NAE).

In the course of preliminary discussions directed toward commissioning the NAE assessment, DOI officials asked that we at the Academy identify a number of recognized academic and industry experts in the relevant fields to (1) discuss informally with DOI officials the current state of the art of offshore drilling safety and blowout protection and the degree to which such practices are currently in use in the U.S. and incorporated broadly into industry best practices, and (2) to vet, again informally, a series of proposed recommendations the department is formulating that would be included in the 30-Day Safety Report. After reviewing who was involved in ongoing related Academy activities and consultation with many colleagues, we generated a list of recommended experts, including you.

Although this discussion will be convened directly by the Office of the Secretary of the Interior, not by the National Academies, we have recommended that the DOI consider you as a discussant. In the coming days DOI officials copied on this message will be following up directly with you to explore your availability. Whether you agree to help DOI or not is, of course, entirely up to you, but if you are available, I hope you will give serious consideration to participating.

With best wishes,

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**From:** Blair, Peter  
**To:** "bbaugh@radoll.com":  
**cc:** Kemkar, Neal; Hanley, Kallie; Black, Steve;  
**Subject:** RE: U.S. Department of Interior Reviews of Deepwater Horizon Incident  
**Date:** Wednesday, May 12, 2010 7:31:03 AM

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Dear Dr. Baugh:

I am writing to alert you that you may be asked by the U.S. Department of Interior (DOI), Office of the Secretary, to provide brief but important service with regard to the Department's formulation of an early action plan in response to the oil blowout at Deepwater Horizon.

As you are no doubt now aware, the oil well blowout at Deepwater Horizon has generated many questions about offshore drilling safety and blowout prevention. In the wake of the incident, The Offshore Drilling Interim Safety Measures Report ("30-Day Safety Report") ordered by President Obama on April 30, 2010, requests Interior Secretary Salazar to review and report what, if any, additional precautions and technologies should be required to prevent accidents like the Deepwater Horizon incident from happening again. The Report will include a discussion of known legal and regulatory requirements as well as current industry practices. It will focus on recommendations for interim measures that will increase offshore drilling safety, including but not limited to engineering and operating practices aimed at reducing the chance of a future blowout and the appropriate testing and operation of backup safety equipment such as blowout preventers. The Report will also include an action plan for moving forward on achieving increased offshore drilling safety in the near term, including suggested additional study. This Report is not a full investigation of the incident—such an investigation will be undertaken jointly by the Minerals Management Service and U.S. Coast Guard and Secretary Salazar intends to commission an independent technical assessment by the National Academy of Engineering (NAE).

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With best wishes,

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Email: [pblair@nas.edu](mailto:pblair@nas.edu); Tel: 202-334-2400; Fax: 202-334-3373

**From:** Hanley, Kallie  
**To:** Per.Holand@exprosoft.com;  
**cc:** McCammon, Joanne; Black, Steve; Ishee, Mary Katherine;  
Hauser, William;  
**Subject:** RE: Email message from Per Holand  
**Date:** Friday, May 07, 2010 5:52:10 PM

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Per

I work with Bill Hauser. Please contact me so we can set something up.

Best Regards,

Kallie

Kallie Hanley  
Office of the White House Liaison  
The U.S. Department of the Interior  
202-208-5397 (desk)  
202-374-7694 (cell)  
[kallie\\_hanley@ios.doi.gov](mailto:kallie_hanley@ios.doi.gov)

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**From:** Hauser, William [mailto:William.Hauser@mms.gov]  
**Sent:** Friday, May 07, 2010 5:27 PM  
**To:** Ishee, Mary Katherine; Black, Steve  
**Cc:** Hanley, Kallie; McCammon, Joanne JMc  
**Subject:** Email message from Per Holand

William Hauser  
Acting Chief, Office of Offshore Regulatory Programs  
Offshore Energy and Minerals Management  
Minerals Management Service  
Department of the Interior  
703 787-1613  
[william.hauser@mms.gov](mailto:william.hauser@mms.gov)

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**From:** Per Holand [mailto:Per.Holand@exprosoft.com]  
**Sent:** Wednesday, April 28, 2010 12:51 AM  
**To:** Hauser, William  
**Subject:** BOPs and Blowouts

Bill,

The last week blowout in the US GoM was not what we wanted. Beside the tragic loss of lives, I assume that this will make it more difficult to drill in more vulnerable areas in the US as well as it also will be here in Norway. There is presently a big political and public debate related to drilling in the Norwegian Lofoten area (west of the northern part of Norway).

This is the first drilling blowout with a major spill in the US OCS area, Norwegian waters and UK waters since 1980.

Since I still am dealing with blowouts and BOPs I also have a professional interest in the incident.

Firstly, I am curious to find out what really happened on Deepwater Horizon. As always in such accidents there are several contributing causes that affect the development of an incident, both human and technical aspects. I do only have access to the public information, and from that information it seems that a malfunctioning BOP have played a major role.

As I understand they have taken a kick, but not been able to close the BOP. Since the riser was holding the rig in place and that the flow came through the riser it does not seem that the loss of BOP control is related to the riser attached control or hydraulic lines. I then suspect that there may have been a hydraulic leak subsea that has affected the operability of both pods. In the study I carried out for you in the late 90-ties some of the multiplex system had some weaknesses in the hydraulic system. It may also be software related or design related.

As you know in Norway it is mandatory to have an acoustic back-up system for subsea BOPs. I think it is mandatory in Canada as well. It is also frequently used in Brazil and in the UK, but I do not know if it is mandatory. As I understand an acoustic backup system could have been used to stop the flow. In my opinion acoustic backup systems also should have been mandatory in the US as well, especially for DP rigs.

Are you able to confirm some of my assumptions?

I assume that there will be a thorough investigation after this incident. I am still responsible for the SINTEF Offshore Blowout Database, although it is 9 years since I left SINTEF. If there is any need for any studies related to historic blowout occurrences I may assist you. Further, this incident may make people wonder how reliable the subsea BOPs are. I have not done any comprehensive study since I worked for you the last time. I have not seen any results from the West

Engineering study that was launched by the US industry in 2007. I would be interested in more or less repeating the 1999 study. It should be possible to involve other areas as Norway, UK and Brazil as well.

Please let me know if this is of any further interest.

Best regards

**Per Holand**

Senior Consultant, Ph.D.

**ExproSoft AS**

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