

Appendix F

Final comments submitted with vote on draft by committee members

The following pages are responses to the final draft from the committee members. Attachments sent by them were also included, the only exception being the following document sent by Mr. Davis, excluded only for the sake of brevity, as it was over 100 pages:

http://www.mms.gov/tarprojects/581/44814183_MMS_Katrina_Rita_PL_Final%20Report%20Rev1.pdf

The final vote was 12-3, in favor of the draft.

Gene Hogan

From: Ralph Thomas [rthomas@scpowerteam.com]
Sent: Friday, August 21, 2009 4:08 PM
To: Gene Hogan
Subject: RE: Natural Gas Exploration Feasibility Study Committee - Vote on Draft

Gene, I approve of the draft as presented. Ralph Thomas

From: Gene Hogan [mailto:GeneHogan@scsenate.gov]
Sent: Friday, August 21, 2009 3:53 PM
To: Michael D. Thompson; Paul Campbell; Tracy R. Edge; jrembold@wardedwards.com; Jeff Duncan; Tran, Minh; Ted Vick; fdavis006@sc.rr.com; brad.dean@visitmyrtlebeach.com; Thomas, Ralph; rafael.menendez@lafarge-na.com; dwinkles@scfb.com; sdozier@scana.com; hamiltond@scccl.org; jimmerrill@schouse.gov; Harry L. Ott; Brad Hutto; jedwards.epmi@charter.net; jmdean@sc.edu; Danny Verdin
Cc: Andy Fiffick; paulcampbell07@aol.com
Subject: Natural Gas Exploration Feasibility Study Committee - Vote on Draft

To all committee members:

As you will recall, during our previous meeting, a teleconference on August 3, there were issues raised by Mr. Davis, including an item previously stated by Dr. Dean. The decision of the committee was to take these issues into account, make further modifications to the draft and send it out electronically for a vote. That version is attached.

Anything new to this draft is underlined or struck, just as you'd see it in a bill. Additionally, those sections are highlighted (this includes a new minutes attachment which covers the teleconference).

I was unable to merge the attachments and create a seamless document. However, the cover pages will signal the attachment that fits into the report at the appropriate place. They are listed in order on the attachment box, with the exception of the body of the draft, which is listed last.

As for the MMS documents, we are only using summaries. For this reason, those PDFs begin with the word "Partial."

Any questions, give me a call. Please respond with your vote to approve or disapprove the draft.

Sen. Campbell plans to release the report, if approved, on September 1. Any response you wish to make beyond your vote should be submitted immediately.

Gene Hogan
Research Director
Agriculture & Natural Resources
(803) 212 - 6232
(803) 556 - 9421

Gene Hogan

From: Brad Dean [Brad.Dean@VisitMyrtleBeach.com]
Sent: Friday, August 21, 2009 9:20 PM
To: Gene Hogan
Cc: Paul Campbell
Subject: RE: Natural Gas Exploration Feasibility Study Committee - Vote on Draft

Gene,

Thank you for sending. I vote to approve.

Brad Dean

From: Gene Hogan [mailto:GeneHogan@scsenate.gov]
Sent: Friday, August 21, 2009 3:53 PM
To: Michael D. Thompson; Paul Campbell; Tracy R. Edge; jrembold@wardedwards.com; Jeff Duncan; Tran, Minh; Ted Vick; fdavis006@sc.rr.com; Brad Dean; Thomas, Ralph; rafael.menendez@lafarge-na.com; dwinkles@scfb.com; sdozier@scana.com; hamiltond@scccl.org; jimmerrill@schouse.govl; Harry L. Ott; Brad Hutto; jedwards.epmi@charter.net; jmdean@sc.edu; Danny Verdin
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Gene Hogan

From: Hamilton Davis [HamiltonD@sccl.org]
Sent: Monday, August 24, 2009 2:42 PM
To: Gene Hogan; Michael D. Thompson; Paul Campbell; Tracy R. Edge; jrembold@wardedwards.com; Jeff Duncan; Tran, Minh; Ted Vick; fdavis006@sc.rr.com; brad.dean@visitmyrtlebeach.com; Thomas, Ralph; rafael.menendez@lafarge-na.com; dwinkles@scfb.com; sdozier@scana.com; jimmerrill@schouse.govl; Harry L. Ott; Brad Hutto; jedwards.epmi@charter.net; jmdean@sc.edu; Danny Verdin
Cc: Andy Fiffick; paulcampbell07@aol.com
Subject: RE: Natural Gas Exploration Feasibility Study Committee - Vote on Draft

To all committee members,

As discussed on the previous conference call, here is the additional bullet point that was agreed upon by the committee:

The development of a comprehensive state energy policy that evaluates the appropriate combination of energy efficiency, renewable energy, and traditional energy sources necessary to meet the state's future energy needs.

I recommend this language be used in place of the current language.

Here is my suggested language related to spills as a result of hurricanes:

While exploration and development of offshore natural gas resources pose limited environmental hazards, the same cannot be said for offshore oil development. South Carolina should take every precaution to avoid the types of environmental impacts experienced in the Gulf of Mexico, especially those related to hurricane activity. MMS estimates over 8 million gallons of oil spilled from refineries, storage facilities, pipelines, and rigs as a consequence of hurricanes Katrina and Rita. Considering oil and natural gas are typically found together and the MMS leasing process does not differentiate between the two, South Carolina should adopt every safeguard necessary to ensure the onshore impacts of offshore drilling do not undermine our coastal ecosystems or the quality of life for coastal residents. ([CBS News](#); [MMS Study](#))

I recommend this language be added to the report.

Thoughts from committee members?

Regards,

Hamilton

PS – A recent example of the problems still prevalent with new drilling technology:

Australian oil well to gush for nearly two months

Sun Aug 23, 2009 4:35am EDT

SYDNEY, Aug 23 (Reuters) - A leaking Australian oil well is likely to pour oil into the Timor Sea for nearly two months before it can be stopped, the operator said on Sunday, as environmentalists expressed grave fears for rare wildlife.

Rig operator PTTEP Australasia said it planned to drill a relief well and pour mud to stop the leak, which began on Friday with a blow-out more than three kilometres (two miles) deep.

It would take 20 days to bring a new offshore drilling rig by barge from Singapore, plus four weeks to drill, the company said in a statement.

Asked if this meant the well would flow for nearly two months, a company spokesman told Reuters: "That is pretty much the estimation."

Environmentalists have expressed concern about the giant slick, saying the entire area is ecologically significant and part of an "ocean super highway" for migrating animals between the Indian and Pacific Oceans.

Many breathe air and could surface in the oil, an official of WWF Australia said.

Earlier on Sunday the Australian Maritime Safety Authority used C-130 Hercules aircraft to spray dispersant chemicals on the slick, which was in excess of 8 nautical miles (15 kilometres) in length.

Spokeswoman Tracey Jiggins said the results were encouraging but the agency was prepared for a long operation.

PTTEP Australasia, a unit of Thailand's PTT Exploration and Production PCL (PTTE.BK: [Quote](#), [Profile](#), [Research](#), [Stock Buzz](#)), said a team of international experts recommended drilling a relief well, to intersect the existing well and stop its flow.

Company spokesman Ian Williams gave no estimate of the amount of oil that would be released, but said the company believed it would be possible to prevent the slick spreading.

"There is a blow-out of some kind. It is very deep," Williams told Reuters, putting the depth at around 3,500 metres.

An air exclusion zone had been set up and ships advised to stay more than 20 nautical miles away from the rig, considered too dangerous to board.

WWF Australia called for changes to ensure better preparations for such disasters, noting it took three days for the first dispersant to be sprayed.

"From a global scale this is one of the most important places on the planet for ocean wildlife," Gilly Llewelyn, WWF Australia's director of conservation, told Reuters.

Among the animals affected were three endangered species of turtles, plus sea snakes, she said. Even a pygmy blue whale has been monitored there.

"It seems to be one of these critical migration routes -- an oceanic super highway," she said.

The spill occurred at the Montara development, a project due to come on stream later this year. The West Atlas drilling unit is owned by Norway's SeaDrill Ltd (SDRL.OL: [Quote](#), [Profile](#), [Research](#), [Stock Buzz](#)), but operated by PTTEP Australasia.

The location has been given as about 250 km (155 miles) off the far north Kimberley coast of Western Australia state.

Australia's official overseer for the petroleum industry, the National Offshore Petroleum Safety Authority, was investigating the incident. (Editing by Jerry Norton) (Sydney Newsroom +612 6273 2730)

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<http://www.reuters.com/article/asiaCrisis/idUSB17593>

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(CBS) By CBSNews.com producer David Morgan.

It has been a common talking point among advocates of increasing offshore oil drilling that Hurricanes Katrina and Rita caused no environmental damage when they decimated the oil infrastructure in the Gulf of Mexico in 2005.

This is aimed at assuaging the fears of many who believe opening up additional tracts of offshore areas to oil exploration will pose hazards to the environment and to tourism.

Ever since President Bush and Sen. John McCain announced last month that they would support expanding drilling beyond currently-allowed offshore leases (and Mr. Bush even signed an executive order allowing it), officials and pundits have continually put forth a dramatic talking point in the media about the safety of offshore drilling, even in the midst of a natural disaster.

As former Sen. Trent Lott told MSNBC on Tuesday, "We didn't have one drop of oil spilt when we had the biggest hurricane in, you know, recent history, Hurricane Katrina."

Former Gov. Mike Huckabee, R-Ark., also told Fox News on June 27, "When Katrina, a Cat-5 hurricane, hit the Gulf Coast, not one drop of oil was spilled off of those rigs out in the Gulf of Mexico. So we know that the technology to drill offshore is extraordinarily safe and environmentally friendly. And it's not something that we have to be as worried about as we do a refinery on shore or some other type of issue."

Newspaper columnists and editorial boards also jumped on the "not one drop" bandwagon. The Wall Street Journal published an editorial on June 12 saying, "Hurricanes Katrina and Rita flattened terminals across the Gulf of Mexico but didn't cause a single oil spill."

Meanwhile, on Monday Nancy Pfotenhauer, an energy lobbyist and senior energy adviser to McCain, said on MSNBC, "We withstood Hurricanes Rita and Katrina, and we didn't spill a drop."

And the Washington Post on Monday quoted Sen. Mitch McConnell, R-Ky., as saying, "I think people are reassured that not a drop of oil was spilled during Katrina or Rita. Those rigs in the Gulf, there was not a single incident of spillage that anyone reported."

Others have used slightly hedged terms, such as Gov. Bobby Jindal, R-La., who told Fox News on June 26, "That's one of the great unwritten success stories, after Katrina and Rita, these awful storms - no major spills." And Interior Secretary Dirk Kempthorne told the Fox Business Channel, "When Katrina and Rita hit the Gulf Coast where we have about 4,000 oil and gas platforms ... we had no significant oil spill." (July 15)

Gee, if so many people believe it, it must be true - except it isn't.

In May 2006, the U.S. Minerals Management Service (MMS) issued a report stating that as a result of both Hurricanes Katrina and Rita, the number of pipelines damaged was 457, and the number of offshore platforms destroyed was 113, with a total of 146 oil spills recorded.

A study of environmental impacts written for MMS by Det Norske Veritas and Company and published March 22, 2007 told an even more detailed story.

As a result of both storms, a total volume of 17,652 barrels (or roughly *three-quarters of a million gallons*) of total petroleum products, of which 13,137 barrels were crude oil and condensate, was spilled from platforms, rigs and pipelines. 4,514 barrels were refined products from platforms and rigs.

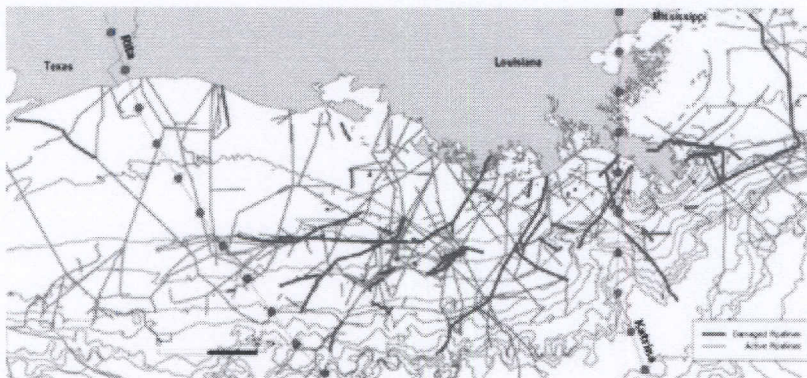
There were 542 reports related to offshore pipelines that were damaged or displaced, of which 72 resulted in spills that had a volume of one barrel or more of crude oil or condensate. These pipelines were reported to be dented, kinked, pulled up, twisted or bent, pinhole or valve leaks or other damages.

The 72 pipeline spills were accountable for about 7,300 barrels of crude oil and condensate spilled into the Gulf.

The report noted that response and recovery efforts kept the environmental impacts to a minimum, with no onshore impacts from these specific spill events.

However, MMS also noted that an estimated 8 million gallons (or 191,000 barrels) of oil was spilled from nine onshore facilities in the Louisiana Delta, where large holding tanks were breached by Katrina.

The graphic below shows all 542 pipeline damages reported for both Hurricanes Katrina (299 reports) and Rita (243). Damaged pipelines are in red; undamaged active pipelines are shown in gray. Pipeline breaks accounted for approximately half of the more than 17,000 barrels of oil leaked into the Gulf. (Source: MMS)



(MMS)

Gene Hogan

From: Paul G. Campbell, Jr. [paulcampbell07@aol.com]
Sent: Monday, August 24, 2009 4:49 PM
To: Gene Hogan
Attachments: MMS Rita Report.doc

To all:

In reading the MMS Report attached to Hamilton's email, I find the follow to be very revealing:

"Hurricane Katrina was a category 5 hurricane when it entered the OCS, destroying 46 platforms and damaging 20 others, making landfall on August 29, 2005. Katrina's path is the easterly one in Figure 9. **There were about 211 minor pollution incidents reported to the MMS. Minor pollution incidents are categorized as incidents involving less than 500 barrels of oil that do not reach the coast line.**" (Page 16)

Equally as interesting and revealing is Secretary of the Interior Gale Norton's comments as follows:

Immediately following Hurricane Rita, Secretary Gale A. Norton, Department of the Interior shared the following lessons learned and observations from the hurricane recovery process following Hurricanes Katrina and Rita.

"There is good news regarding offshore operations. Katrina and Rita – both reaching Category 5 strength as they spun through the Gulf and the heart of the offshore energy production – caused no loss of life among offshore industry personnel or significant spills from any offshore wells on the Outer Continental Shelf (OCS). This bears repeating: We faced down two of the most devastating hurricanes ever to hit the Gulf of Mexico without one significant spill from any offshore well on the Outer Continental Shelf. Although there were some minor pollution events from lines or equipment, all subsurface safety valves installed beneath the seafloor successfully prevented uncontrolled releases of hydrocarbons into the Gulf of Mexico....."

Lessons Learned

Damage reports post-Rita have highlighted a problem with Mobile Offshore Drilling Units (MODU). Nineteen MODU's broke loose from their moorings and were set adrift; some causing damage to pipelines as anchors dragged along the ocean floor. To address this issue, I have called for a Conference on Mobile Offshore Drilling Units to be held at the Department, here in Washington, D.C. on November 17, 2005. During this conference we will assess lessons learned and we will define a path forward.

Hurricanes Katrina and Rita confirmed that our offshore oil and gas industry produces environmentally safe energy for America. Even in the face of two back-to-back major hurricanes, all subsurface safety valves held on the OCS and there was no significant spill from production. The small amounts of oil observed in the water surrounding platforms may have come from damaged pipelines or petroleum supplies for running platform machinery, but, as stated, it did not come from OCS production wells.

In addition, the Katrina/Rita scenario has confirmed that our domestic offshore oil and gas resources are key components in the energy mix which provide some of the basic necessities Americans have come to expect – gasoline for our cars, heating fuel for our homes, natural gas to cook our meals, to power our factories, and to generate the electricity that is critical to our way of life and critical to powering our advanced economy. At present, more than 25% of America's total domestic oil and natural gas production comes from only 10% of the total OCS acreage. (Page 65)

Based on this report, I do not agree with Hamilton's recommended spill language.

On the bullet points, we as Gene and I discovered, have a SC Comprehensive Energy Plan. This is why we modified the bullet point as stated. We can certainly expand as a better comprehensive plan can be accomplished. However, off-shore natural gas, in my opinion and after all the information I have looked at, needs to be part of our future.

Paul

DNV evaluated the available failure reports and industry practices and has concluded that the vast majority of GOM offshore pipelines performed well during the passage of Hurricanes Katrina and Rita. Public and personnel safety experience with respect to the offshore pipeline operations has been excellent. Evacuations of non-essential personnel, and other operational precautions taken prior to hurricane events, including training, planning, spill response exercises, and industry alliances provided results that have protected life as the first priority. **The impact to the environment has been minimal in hurricane events, primarily due to the design features, and industry practices intended for protection of life that are also focused on minimizing releases to the environment through planning, preparedness and response. The most significant impacts appear to have been the disruption of the oil and gas supply, and financial losses from the oil and gas infrastructure damage. While these are not desirable outcomes, the overall goal of prioritizing protection of life and the environment is clear in the demonstrated performance of the industry, meeting two of the major goals of the MMS for personal and environmental safety.** Page 3

The study further concluded that the design standards appeared to be adequate, and the overall procedures followed by operators with regard to planning and recovery for hurricanes were also deemed to be adequate. **Overall pollution from pipeline damages during all storms was low and was deemed not to be a major concern in the study report.**

The summary recommendations from this study were:

- Efforts should be made to improve safety of platforms and jackets to withstand 100 year events to minimize pipeline damage
- Efforts should be made to improve anchoring and stationkeeping of mobile rigs
- Improvements for protection of small sized lines in shallow water depths
- Improvements for self burial installation stability for storm conditions
- Riser supporting clamps and adjacent pipeline sections should be carefully analyzed to verify integrity for the 100 year storm conditions
- Periodic inspection and maintenance of risers and supporting clamps are key in ensuring satisfactory performance to the intended design stress level. Page 10 and 11

The DNV study concluded that by and large, the pipelines performed well during Hurricane Ivan. **Additionally, the practices used in design, construction, operations, and the planning and response to hurricanes were effective in protecting life and the environment.** There were no significant findings with respect to design or construction practices that would suggest a need for revising the codes utilized in offshore GOM pipeline design. Page 15

Hurricane Katrina was a category 5 hurricane when it entered the OCS, destroying 46 platforms and damaging 20 others, making landfall on August 29, 2005. Katrina's path is the easterly one in Figure 9. **There were about 211 minor pollution incidents reported to the MMS. Minor pollution incidents are categorized as incidents involving less**

than 500 barrels of oil that do not reach the coast line. Hurricane Rita was a category 4 hurricane when it entered the OCS and destroyed 69 platforms and damaged 32 others, making landfall on September 24, 2005. Rita's path is the westerly one shown Figure 9. Page 16

Offshore environmental impacts as a result of hurricane events in the GOMR have typically been minor due to the downhole safety valves at wells and operating practices conducted by the oil and gas industry with respect to platforms and pipelines in advance of approaching hurricanes, and the Oil Spill Response Plans that are developed by operators and submitted to the MMS. The impacts from Hurricanes Katrina and Rita were typical of this historical experience. While cleanup was required. The volume of oil spilled and impacts to shore from the offshore infrastructure were categorized as minor. Onshore impacts from localized tank failures resulting from flooding were more significant, but are not in the scope of the damage assessment carried out by DNV. The summary analysis of oil spills was presented by the Region Response Team for the MMS and was the source of the data in Table 2. The data is categorized by storm and source locations, and captures all spills one barrel or larger from federal OCS facilities that resulted from damages related to Hurricanes Katrina and Rita. As a result of both storms, 124 spills were reported with a total volume of roughly 17,700 barrels of total petroleum products, of which about 13,200 barrels were crude oil and condensate from platforms, rigs and pipelines, and 4,500 barrels were refined products from platforms and rigs. Pipelines were accountable for 72 spills totaling about 7,300 barrels of crude oil and condensate spilled into the GOM. **Response and recovery efforts kept the impacts to a minimum with no onshore impacts from these spill events.** Page 29

The experience with respect to safety and environmental protection in the GOM with respect to hurricanes has been excellent, with no loss of life or significant environmental impact. Page 30

8 PLANNING & PREPAREDNESS

The MMS has three overriding principles in dealing with tropical storms or hurricanes:

- Evacuate workers so there is no loss of life or injury
- Protect the Nation's supply of oil and gas from long-term disruption of production
- Protect the environment from oil spills

The MMS works on each of these goals in close cooperation with partners in the USCG and with the regulated oil and gas industry.

The oil and gas industry has very similar principles in dealing with tropical storms and hurricanes:

- Evacuate the workers so there is no loss of life or injury
- Protect company assets
- Protect the environment from oil spills
- Return to operations as soon as safely possible

The planning and preparedness begins long before a tropical storm develops. Policies, procedures and practices are developed, tested, refined and put into action, typically at the beginning of the official hurricane season.

As a standard practice, oil and gas operators shut in production when they evacuate the platform. In some cases, natural gas production is monitored remotely from onshore through Supervisory Control and Data Acquisition or SCADA systems. This allows the production to be stopped remotely if necessary.

MMS has mandatory requirements for the use of downhole safety valves to shut off the flow of oil and gas in the event of a well failure, for the prevention of oil release in a catastrophic failure. Page 60

Immediately following Hurricane Katrina, the lessons learned as a result of Hurricane Ivan by MMS were summarized in testimony to the Senate in a statement given by Rebecca Watson, Assistant Secretary for Land and Minerals Management, U. S. Department of the Interior before the Committee on Energy and Natural Resources on September 6, 2005.

“Following major hurricanes, we make a systematic effort to identify lessons learned and take steps to prepare for future hurricane seasons. Following Hurricane Ivan, we focused on five principal areas:

First, MMS concluded that the basic design standards for deep water floating production systems seem adequate. We had no floating production facility failures. Second, MMS saw that some drilling units installed on the floating production platforms moved on their supports and caused damage. In consultation with MMS, industry has tightened the bolting mechanism and strengthened the clamps that secure these drilling packages on the floating platforms.

Third, MMS issued a new reporting requirement for the 2005 hurricane season – NTL 2005 G-6. This requires industry to submit statistics to the MMS Gulf of Mexico Region (GOMR) regarding evacuation of personnel and curtailment of production because of hurricanes, tropical storms, or other natural disasters. Operators must include both those platforms and drilling rigs that are evacuated and those that they anticipate will be evacuated. Evacuation is defined as the removal of any personnel (both essential and non-essential) from a platform or drilling rig. In addition, operators submit a report regarding facilities remaining shut-in. This report includes basic platform information, prior production information, estimated time to resumption of operations and the reason for shut-in (facility damage or transportation system damage). Operators must notify the MMS GOMR when production is resumed.

Fourth, MMS issued contracts for six new engineering and technical studies to look closely at the damage caused by Hurricane Ivan and what design or operational changes may need to be made.

Fifth, MMS consulted heavily with industry experts and in July jointly sponsored with the American Petroleum Institute (API) a conference in Houston, Texas, on offshore hurricane readiness and recovery to more fully discuss these issues.

Immediately following Hurricane Rita, Secretary Gale A. Norton, Department of the Interior shared the following lessons learned and observations from the hurricane recovery process following Hurricanes Katrina and Rita.

“There is good news regarding offshore operations. Katrina and Rita – both reaching Category 5 strength as they spun through the Gulf and the heart of the offshore energy

production – caused no loss of life among offshore industry personnel or significant spills from any offshore wells on the Outer Continental Shelf (OCS). This bears repeating: We faced down two of the most devastating hurricanes ever to hit the Gulf of Mexico without one significant spill from any offshore well on the Outer Continental Shelf. Although there were some minor pollution events from lines or equipment, all subsurface safety valves installed beneath the seafloor successfully prevented uncontrolled releases of hydrocarbons into the Gulf of Mexico.....

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In addition, the Katrina/Rita scenario has confirmed that our domestic offshore oil and gas resources are key components in the energy mix which provide some of the basic necessities Americans have come to expect – gasoline for our cars, heating fuel for our homes, natural gas to cook our meals, to power our factories, and to generate the electricity that is critical to our way of life and critical to powering our advanced economy. At present, more than 25% of America's total domestic oil and natural gas production comes from only 10% of the total OCS acreage. Page 65

To all:

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Lessons Learned

Damage reports post-Rita have highlighted a problem with Mobile Offshore Drilling Units (MODU). Nineteen MODU's broke loose from their moorings and were set adrift; some causing damage to pipelines as anchors dragged along the ocean floor. To address this issue, I have called for a Conference on Mobile Offshore Drilling Units to be held at the Department, here in Washington, D.C. on November 17, 2005. During this conference we will assess lessons learned and we will define a path forward.

Hurricanes Katrina and Rita confirmed that our offshore oil and gas industry produces environmentally safe energy for America. Even in the face of two back-to-back major hurricanes, all subsurface safety valves held on the OCS and there was no significant spill from production. The small amounts of oil observed in the water surrounding platforms may have come from damaged pipelines or petroleum supplies for running platform machinery, but, as stated, it did not come from OCS production wells.

In addition, the Katrina/Rita scenario has confirmed that our domestic offshore oil and gas resources are key components in the energy mix which provide some of the basic necessities Americans have come to expect – gasoline for our cars, heating fuel for our homes, natural gas to cook our meals, to power our factories, and to generate the

electricity that is critical to our way of life and critical to powering our advanced economy. At present, more than 25% of America's total domestic oil and natural gas production comes from only 10% of the total OCS acreage. (Page 65)

Based on this report, I do not agree with Hamilton's recommended spill language.

On the bullet points, we, as Gene and I discovered,, have a SC Comprehensive Energy Plan. This is why we modified the bullet point as stated to say **"Execution of state energy policy in a manner that maximizes the benefit of the entire portfolio of energy resources"**. This statement even supports utilizing wind energy as more than likely, a peaking gas turbine would be used with the wind farm since wind only produces power 30 to 40 % on the time. We can certainly expand as a better comprehensive plan can be accomplished. However, potential off-shore natural gas, in my opinion and after all the information I have looked at, needs to be part of our future.

As Hamilton and I learned (or maybe relearned for me) last week in Myrtle Beach thanks to a great panel discussion promoted by Brad Dean and the Myrtle Beach Chamber, the comment period for the Draft Proposed Plan (DPP) for MMS ends 9/21. We need to remain in this stage as there are two more stages-Proposed Plan and Final Plan-we have to clear to be part of the MMS 2010-2015 plan. Once we drop out, we are out until the next plan after 2015. Just by staying in the DPP is no guarantee we will make the final plan as we can drop out or be dropped at either of the next two stages.

Paul

From: Hamilton Davis [mailto:HamiltonD@scccl.org]

Sent: Monday, August 24, 2009 2:42 PM

To: Gene Hogan; Michael D. Thompson; Paul Campbell; Tracy R. Edge; jrembold@wardedwards.com; Jeff Duncan; Tran, Minh; Ted Vick; fdavis006@sc.rr.com; brad.dean@visitmyrtlebeach.com; Thomas, Ralph; rafael.menendez@lafarge-na.com; dwinkles@scfb.com; sdozier@scana.com; jimmerrill@schouse.gov; Harry L. Ott; Brad Hutto; jedwards.epmi@charter.net; jmdean@sc.edu; Danny Verdin

Cc: Andy Fiffick; paulcampbell07@aol.com

Subject: RE: Natural Gas Exploration Feasibility Study Committee - Vote on Draft

To all committee members,

As discussed on the previous conference call, here is the additional bullet point that was agreed upon by the committee:

The development of a comprehensive state energy policy that evaluates the appropriate combination of energy efficiency, renewable energy, and traditional energy sources necessary to meet the state's future energy needs.

I recommend this language be used in place of the current language.

Here is my suggested language related to spills as a result of hurricanes:

While exploration and development of offshore natural gas resources pose limited environmental hazards, the same cannot be said for offshore oil development. South Carolina should take every precaution to avoid the types of environmental impacts experienced in the Gulf of Mexico, especially those related to hurricane activity. MMS estimates over 8 million gallons of oil spilled from refineries, storage facilities, pipelines, and rigs as a consequence of hurricanes Katrina and Rita. Considering oil and natural gas are typically found together and the MMS leasing process does not differentiate between the two, South Carolina should adopt every safeguard necessary to ensure the onshore impacts of offshore drilling do not undermine our coastal ecosystems or the quality of life for coastal residents. (CBS News; MMS Study)

I recommend this language be added to the report.

Gene Hogan

From: John Mark Dean [john.dean@earthlink.net]
Sent: Wednesday, August 26, 2009 10:39 AM
To: Paul Campbell; 'Hamilton Davis'; Gene Hogan; Michael D. Thompson; Paul G. Campbell, Jr.; Tracy R. Edge; jrembold@wardedwards.com; Jeff Duncan; 'Tran, Minh'; Ted Vick; fdavis006@sc.rr.com; brad.dean@visitmyrtlebeach.com; 'Thomas, Ralph'; rafael.menendez@lafarge-na.com; dwinkles@scfb.com; sdozier@scana.com; jimmerrill@schouse.gov; Harry L. Ott; C. Bradley "Brad" Hutto; jedwards.epmi@charter.net; jmdean@sc.edu; Daniel B. "Danny" Verdin III
Cc: Andy Fiffick
Subject: Natural Gas Exploration Feasibility Study Committee - Vote on Draft

Would you consider the following:

The development of a comprehensive state energy policy that evaluates the appropriate combination of energy efficiency, renewable energy, and traditional energy sources necessary to meet the state's future energy needs.

South Carolina should adopt every safeguard necessary to ensure the onshore impacts of energy development such as wind farms and offshore drilling for oil and gas do not undermine our coastal ecosystems or the quality of life for coastal residents.

JMD

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

From: Paul Campbell
Sent: Aug 26, 2009 9:55 AM
To: 'Hamilton Davis', 'Gene Hogan', '"Michael D. Thompson"', 'Paul Campbell', '"Tracy R. Edge"', jrembold@wardedwards.com, 'Jeff Duncan', '"Tran, Minh"', 'Ted Vick', fdavis006@sc.rr.com, brad.dean@visitmyrtlebeach.com, '"Thomas, Ralph"', rafael.menendez@lafarge-na.com, dwinkles@scfb.com, sdozier@scana.com, jimmerrill@schouse.gov, '"Harry L. Ott"', 'Brad Hutto', jedwards.epmi@charter.net, jmdean@sc.edu, 'Danny Verdin'
Cc: 'Andy Fiffick'
Subject: {SpamScore: ssss} RE: Natural Gas Exploration Feasibility Study Committee - Vote on Draft

Gene Hogan

From: Jon Rembold [jrembold@wardedwards.com]
Sent: Wednesday, August 26, 2009 11:09 AM
To: John Mark Dean; Paul Campbell; Hamilton Davis; Gene Hogan; Michael D. Thompson; Paul G. Campbell, Jr.; Tracy R. Edge; Jeff Duncan; Tran, Minh; Ted Vick; fdavis006@sc.rr.com; brad.dean@visitmyrtlebeach.com; Thomas, Ralph; rafael.menendez@lafarge-na.com; dwinkles@scfb.com; sdozier@scana.com; jimmerrill@schouse.gov; Harry L. Ott; C. Bradley "Brad" Hutto; jedwards.epmi@charter.net; jmdean@sc.edu; Daniel B. "Danny" Verdin III
Cc: Andy Fiffick
Subject: RE: Natural Gas Exploration Feasibility Study Committee - Vote on Draft

If this language is basically acceptable, I'd add the following (shown inserted in red).

All the best,

Jon Rembold
Ward Edwards

From: John Mark Dean [mailto:john.dean@earthlink.net]
Sent: Wednesday, August 26, 2009 10:39 AM
To: Paul Campbell; 'Hamilton Davis'; 'Gene Hogan'; 'Michael D. Thompson'; 'Paul Campbell'; 'Tracy R. Edge'; Jon Rembold; 'Jeff Duncan'; 'Tran, Minh'; 'Ted Vick'; fdavis006@sc.rr.com; brad.dean@visitmyrtlebeach.com; 'Thomas, Ralph'; rafael.menendez@lafarge-na.com; dwinkles@scfb.com; sdozier@scana.com; jimmerrill@schouse.gov; 'Harry L. Ott'; 'Brad Hutto'; jedwards.epmi@charter.net; jmdean@sc.edu; 'Danny Verdin'
Cc: 'Andy Fiffick'
Subject: Natural Gas Exploration Feasibility Study Committee - Vote on Draft

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JMD

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From: Paul Campbell
Sent: Aug 26, 2009 9:55 AM
To: 'Hamilton Davis'; 'Gene Hogan'; 'Michael D. Thompson'; 'Paul Campbell'; 'Tracy R. Edge'; jrembold@wardedwards.com; 'Jeff Duncan'; 'Tran, Minh'; 'Ted Vick'; fdavis006@sc.rr.com; brad.dean@visitmyrtlebeach.com; 'Thomas, Ralph'; rafael.menendez@lafarge-na.com; dwinkles@scfb.com; sdozier@scana.com; jimmerrill@schouse.gov; 'Harry L. Ott'; 'Brad Hutto'; jedwards.epmi@charter.net; jmdean@sc.edu; 'Danny Verdin'
Cc: 'Andy Fiffick'
Subject: {SpamScore: ssss} RE: Natural Gas Exploration Feasibility Study Committee - Vote on Draft

Gene Hogan

From: Hamilton Davis [HamiltonD@ccccl.org]
Sent: Wednesday, August 26, 2009 11:48 AM
To: Jon Rembold; John Mark Dean; Paul Campbell; Gene Hogan; Michael D. Thompson; Paul G. Campbell, Jr.; Tracy R. Edge; Jeff Duncan; Tran, Minh; Ted Vick; fdavis006@sc.rr.com; brad.dean@visitmyrtlebeach.com; Thomas, Ralph; rafael.menendez@lafarge-na.com; dwinkles@scfb.com; sdozier@scana.com; jimmerrill@schouse.gov; Harry L. Ott; C. Bradley "Brad" Hutto; jedwards.epmi@charter.net; jmdean@sc.edu; Daniel B. "Danny" Verdin III
Cc: Andy Fiffick
Subject: RE: Natural Gas Exploration Feasibility Study Committee - Vote on Draft

John, this language is acceptable and preferable in my opinion.

I still maintain that we should mention the distinction between oil and gas and the need for SC to safeguard itself from environmental and quality of life implications associated with oil exploration and development.

Regardless of the characterizations by industry representatives and the former Sec of Interior about the safety of the industry, these numbers speak for themselves:

The First Year After Hurricane Katrina: What the Federal Government Did (Department of Homeland Security)

http://www.dhs.gov/xfoia/archives/gc_1157649340100.shtm

NOAA has contributed to environmental stewardship of the Gulf Coast by collecting of over 10,000 digital aerial images for damage assessments, oil spill response prioritization, search and rescue, and access routes for evacuation. **NOAA has also assisted in the clean up of over 8 million gallons of spilled oil in the Gulf**, has partnered with other Federal and local agencies to address issues and plan for reviving a sustainable fishing industry in the Gulf and is investing \$10 million in environmental impact analyses, resource management and general cleanup efforts.

The Coast Guard coordinated the cleanup of more than 8 million gallons of spilled oil. There were six major and four medium facility oil spills located primarily along the lower Mississippi River. Additionally, there were more than 1,000 minor oil spills throughout the Gulf region. Pollution responses were extremely difficult because of the total loss of infrastructure and support facilities for responders. The oil pollution response effort has been completed in all the affected states.

T. HAMILTON DAVIS IV
PROJECT MANAGER
COASTAL CONSERVATION LEAGUE
P.O. BOX 1765
328 EAST BAY
CHARLESTON, SC 29402-1765
843.725.2061
HAMILTOND@CCCCL.ORG

Learn More About Coastal Conservation League Issues: www.scccl.org

From: Jon Rembold [mailto:jrembold@wardedwards.com]

Sent: Wednesday, August 26, 2009 11:09 AM

To: John Mark Dean; Paul Campbell; Hamilton Davis; Gene Hogan; Michael D. Thompson; Paul Campbell; Tracy R. Edge; Jeff Duncan; Tran, Minh; Ted Vick; fdavis006@sc.rr.com; brad.dean@visitmyrtlebeach.com; Thomas, Ralph; rafael.menendez@lafarge-na.com; dwinkles@scfb.com; sdozier@scana.com; jimmerrill@schouse.gov; Harry L. Ott; Brad Hutto; jedwards.epmi@charter.net; jmdean@sc.edu; Danny Verdin

Cc: Andy Fiffick

Subject: RE: Natural Gas Exploration Feasibility Study Committee - Vote on Draft

If this language is basically acceptable, I'd add the following (shown inserted in red).

All the best,

Jon Rembold
Ward Edwards

From: John Mark Dean [mailto:john.dean@earthlink.net]

Sent: Wednesday, August 26, 2009 10:39 AM

To: Paul Campbell; 'Hamilton Davis'; 'Gene Hogan'; 'Michael D. Thompson'; 'Paul Campbell'; 'Tracy R. Edge'; Jon Rembold; 'Jeff Duncan'; 'Tran, Minh'; 'Ted Vick'; fdavis006@sc.rr.com; brad.dean@visitmyrtlebeach.com; 'Thomas, Ralph'; rafael.menendez@lafarge-na.com; dwinkles@scfb.com; sdozier@scana.com; jimmerrill@schouse.gov; 'Harry L. Ott'; 'Brad Hutto'; jedwards.epmi@charter.net; jmdean@sc.edu; 'Danny Verdin'

Cc: 'Andy Fiffick'

Subject: Natural Gas Exploration Feasibility Study Committee - Vote on Draft

Would you consider the following:

The development of a comprehensive state energy policy that evaluates the appropriate combination of energy conservation, energy efficiency, renewable energy, and traditional energy sources necessary to meet the state's future energy needs.

South Carolina should adopt every feasible safeguard necessary to demonstrate appropriate due diligence to ensure the onshore impacts of energy development such as wind farms and offshore drilling for oil and gas do not undermine our coastal ecosystems or the quality of life for coastal residents.

JMD

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

From: Paul Campbell

Sent: Aug 26, 2009 9:55 AM

To: 'Hamilton Davis', 'Gene Hogan', '"Michael D. Thompson"', 'Paul Campbell', '"Tracy R. Edge"', jrembold@wardedwards.com, 'Jeff Duncan', '"Tran, Minh"', 'Ted Vick', fdavis006@sc.rr.com, brad.dean@visitmyrtlebeach.com, '"Thomas, Ralph"', rafael.menendez@lafarge-na.com, dwinkles@scfb.com, sdozier@scana.com, jimmerrill@schouse.gov, '"Harry L. Ott"', 'Brad Hutto', jedwards.epmi@charter.net, jmdean@sc.edu, 'Danny Verdin'

Cc: 'Andy Fiffick'

Subject: {SpamScore: ssss} RE: Natural Gas Exploration Feasibility Study Committee - Vote on Draft

No virus found in this incoming message.

Checked by AVG - www.avg.com

Version: 8.5.392 / Virus Database: 270.13.67/2326 - Release Date: 08/25/09 18:07:00

Gene Hogan

From: Carolyn Brown [fdavis006@sc.rr.com]
Sent: Wednesday, August 26, 2009 3:13 PM
To: Jon Rembold
Cc: John Mark Dean; Paul Campbell; Hamilton Davis; Gene Hogan; Michael D. Thompson; Paul G. Campbell, Jr.; Tracy R. Edge; Jeff Duncan; Tran, Minh; Ted Vick; brad.dean@visitmyrtlebeach.com; Thomas, Ralph; rafael.menendez@lafarge-na.com; dwinkles@scfb.com; sdozier@scana.com; jimmerrill@schouse.gov; Harry L. Ott; C. Bradley "Brad" Hutto; jedwards.epmi@charter.net; jmdean@sc.edu; Daniel B. "Danny" Verdin III; Andy Fiffick
Subject: Re: Natural Gas Exploration Feasibility Study Committee - Vote on Draft

I would suggest an additional sentence (shown in blue) to protect our inland ecosystems and residents.

The development of a comprehensive state energy policy that evaluates the appropriate combination of energy conservation, energy efficiency, renewable energy, and traditional energy sources necessary to meet the state's future energy needs.

South Carolina should adopt every feasible safeguard necessary to demonstrate appropriate due diligence to ensure the onshore impacts of energy development such as wind farms and offshore drilling for oil and gas, do not undermine our coastal ecosystems or the quality of life for coastal residents. South Carolina should also adopt every feasible safeguard necessary to ensure that any associated refining industry does not negatively impact our inland ecosystems and the quality of life for its inland residents.

Carolyn Brown

On Aug 26, 2009, at 11:08 AM, Jon Rembold wrote:

If this language is basically acceptable, I'd add the following (shown inserted in red).

All the best,

Jon Rembold
Ward Edwards

From: John Mark Dean [mailto:john.dean@earthlink.net]
Sent: Wednesday, August 26, 2009 10:39 AM
To: Paul Campbell; 'Hamilton Davis'; 'Gene Hogan'; 'Michael D. Thompson'; 'Paul Campbell'; 'Tracy R. Edge'; Jon Rembold; 'Jeff Duncan'; 'Tran, Minh'; 'Ted Vick'; fdavis006@sc.rr.com; brad.dean@visitmyrtlebeach.com; 'Thomas, Ralph'; rafael.menendez@lafarge-na.com; dwinkles@scfb.com; sdozier@scana.com; jimmerrill@schouse.gov; 'Harry L. Ott'; 'Brad Hutto'; jedwards.epmi@charter.net; jmdean@sc.edu; 'Danny Verdin'
Cc: 'Andy Fiffick'
Subject: Natural Gas Exploration Feasibility Study Committee - Vote on Draft

Would you consider the following:

The development of a comprehensive state energy policy that evaluates the appropriate combination of energy conservation, energy efficiency, renewable energy, and traditional energy sources necessary to meet the state's future energy needs.

South Carolina should adopt every feasible safeguard necessary to demonstrate appropriate due diligence to ensure the onshore impacts of energy development such as wind farms and offshore drilling for oil and gas do not undermine our coastal ecosystems or the quality of life for coastal residents.

JMD

Gene Hogan

From: Carolyn Brown [fdavis006@sc.rr.com]
Sent: Wednesday, August 26, 2009 3:36 PM
To: Gene Hogan
Subject: Re: Natural Gas Exploration Feasibility Study Committee - Vote on Draft

Gene,

In regard to my characterization of the process, I think that I said that "the presentations for the most part were biased in favor of exploration." I have throughout the process said that we needed to have someone from the biological side speak to us. "The MMS's mission is to manage the ocean energy and mineral resources on the Outer Continental Shelf and Federal and Indian mineral revenues to enhance public and trust benefits, promote responsible use, and realize fair value. " Its primary mission is not the protection of fisheries or coastal ecosystems. Mr. Campbell from LA Natural Resources was not a biologist nor was his focus on LA fisheries; it was pipelines. Shell's representative was certainly a proponent of exploration, as were most of the other presentators.

Carolyn Brown

On Aug 21, 2009, at 3:52 PM, Gene Hogan wrote:

<FINAL_Draft_Report_for_NGEFSC_Vote.docx>

Gene Hogan

From: Minh.Tran@piedmontng.com
Sent: Thursday, August 27, 2009 8:59 AM
To: Jon Rembold; John Mark Dean; Paul Campbell; Hamilton Davis; Gene Hogan; Michael D. Thompson; Paul G. Campbell, Jr.; Tracy R. Edge; Jeff Duncan; Ted Vick; fdavis006; brad dean; Thomas,Ralph; rafael menendez; dwinkles; sdozier; jimmerrill; Harry L. Ott; C. Bradley "Brad" Hutto; jedwards epmi; jmdean; Daniel B. "Danny" Verdin III
Cc: Andy Fiffick; Henry McCullough
Subject: Re: Natural Gas Exploration Feasibility Study Committee - Vote on Draft

I am good with the concept of the language, but I would like to add "full cycle energy efficiency" to the body.

From: "Jon Rembold" [jrembold@wardedwards.com]
Sent: 08/26/2009 11:08 AM AST
To: "John Mark Dean" <john.dean@earthlink.net>; "Paul Campbell" <paulcampbell07@aol.com>; "Hamilton Davis" <HamiltonD@scccl.org>; "Gene Hogan" <GeneHogan@scsenate.gov>; "Michael D. Thompson" <MichaelThompson@schouse.gov>; "Paul Campbell" <PaulCampbell@scsenate.gov>; "Tracy R. Edge" <TracyEdge@schouse.gov>; "Jeff Duncan" <JeffDuncan@schouse.gov>; Minh Tran; "Ted Vick" <TedVick@schouse.gov>; <fdavis006@sc.rr.com>; <brad.dean@visitmyrtlebeach.com>; "Thomas,Ralph" <rthomas@scpowerteam.com>; <rafael.menendez@lafarge-na.com>; <dwinkles@scfb.com>; <sdozier@scana.com>; <jimmerrill@schouse.gov>; "Harry L. Ott" <HarryOtt@schouse.gov>; "Brad Hutto" <BradHutto@scsenate.gov>; <jedwards.epmi@charter.net>; <jmdean@sc.edu>; "Danny Verdin" <DannyVerdin@scsenate.gov>
Cc: "Andy Fiffick" <AndyFiffick@schouse.gov>
Subject: RE: Natural Gas Exploration Feasibility Study Committee - Vote on Draft

If this language is basically acceptable, I'd add the following (shown inserted in red).

All the best,

Jon Rembold
Ward Edwards

From: John Mark Dean [mailto:john.dean@earthlink.net]
Sent: Wednesday, August 26, 2009 10:39 AM
To: Paul Campbell; 'Hamilton Davis'; 'Gene Hogan'; 'Michael D. Thompson'; 'Paul Campbell'; 'Tracy R. Edge'; Jon Rembold; 'Jeff Duncan'; 'Tran,Minh'; 'Ted Vick'; fdavis006@sc.rr.com; brad.dean@visitmyrtlebeach.com; 'Thomas,Ralph'; rafael.menendez@lafarge-na.com; dwinkles@scfb.com; sdozier@scana.com; jimmerrill@schouse.gov; 'Harry L. Ott'; 'Brad Hutto'; jedwards.epmi@charter.net; jmdean@sc.edu; 'Danny Verdin'
Cc: 'Andy Fiffick'
Subject: Natural Gas Exploration Feasibility Study Committee - Vote on Draft

Would you consider the following:

The development of a comprehensive state energy policy that evaluates the appropriate combination of energy conservation, energy efficiency, renewable energy, and traditional energy sources necessary to meet the state's future energy needs.

South Carolina should adopt every feasible safeguard necessary to demonstrate appropriate due diligence to ensure the onshore impacts of energy development such as wind farms and offshore drilling for oil and gas do not undermine our coastal ecosystems or the quality of life for coastal residents.

JMD

Gene Hogan

From: Ted Vick [tvmotorco@hotmail.com]
Sent: Thursday, August 27, 2009 12:14 PM
To: Gene Hogan
Subject: FW: For Rep. Vick: Natural Gas Exploration Feasibility Study Committee - Vote on Draft

Put me down as voting for it...

Thanks,
Rep. Ted Vick

Date: Thu, 27 Aug 2009 08:33:06 -0700
From: cfieldcodelegation@yahoo.com
Subject: For Rep. Vick: Natural Gas Exploration Feasibility Study Committee - Vote on Draft
To: tvmotorco@hotmail.com

**There are 5 attachments and I couldn't send them all at one time so I'm forwarding them separate...
Thanks!**

--- On Thu, 8/27/09, Gene Hogan <GeneHogan@scsenate.gov> wrote:

From: Gene Hogan <GeneHogan@scsenate.gov>
Subject: For Rep. Vick: Natural Gas Exploration Feasibility Study Committee - Vote on Draft
To: "'cfieldcodelegation@yahoo.com'" <cfieldcodelegation@yahoo.com>
Date: Thursday, August 27, 2009, 9:51 AM

From: Gene Hogan
Sent: Friday, August 21, 2009 3:53 PM
To: Michael D. Thompson; Paul Campbell; Tracy R. Edge; jrembold@wardedwards.com; Jeff Duncan; Tran, Minh; Ted Vick; fdavis006@sc.rr.com; brad.dean@visitmyrtlebeach.com; Thomas, Ralph; rafael.menendez@lafarge-na.com; dwinkles@scfb.com; sdozier@scana.com; hamiltond@scccl.org; jimmerrill@schouse.gov; Harry L. Ott; Brad Hutto; jedwards.epmi@charter.net; jmdean@sc.edu; Danny Verdin
Cc: Andy Fiffick; paulcampbell07@aol.com
Subject: Natural Gas Exploration Feasibility Study Committee - Vote on Draft

To all committee members:

As you will recall, during our previous meeting, a teleconference on August 3, there were issues raised by Mr. Davis, including an item previously stated by Dr. Dean. The decision of the committee was to take these issues into account, make further modifications to the draft and send it out electronically for a vote. That version is attached.

Anything new to this draft is underlined or struck, just as you'd see it in a bill. Additionally, those sections are highlighted (this includes a new minutes attachment which covers the teleconference).

I was unable to merge the attachments and create a seamless document. However, the cover pages will signal the attachment that fits into the report at the appropriate place. They are listed in order on the attachment box, with the exception of the body of the draft, which is listed last.

Gene Hogan

From: Daniel B. "Danny" Verdin III
Sent: Friday, August 28, 2009 4:56 PM
To: Gene Hogan
Subject: Re: FINAL CALL FOR VOTE

My vote is yes.

From: Gene Hogan
To: Michael D. Thompson; Paul G. Campbell, Jr.; Tracy R. Edge; jrembold@wardedwards.com ; Jeff Duncan; Tran, Minh ; Ted Vick; fdavis006@sc.rr.com ; brad.dean@visitmyrtlebeach.com ; Thomas, Ralph ; dwinkles@scfb.com ; sdozier@scana.com ; hamiltond@sccl.org ; Harry L. Ott; C. Bradley "Brad" Hutto; jedwards.epmi@charter.net ; Daniel B. "Danny" Verdin III; 'dean@mailbox.sc.edu' ; 'jmgeech@homesc.com'
Cc: 'PAUL CAMPBELL,'
Sent: Fri Aug 28 16:45:01 2009
Subject: FINAL CALL FOR VOTE
To all committee members:

Sen. Campbell has asked me to give a FINAL CALL for voting on the latest draft. This is the version which I last e-mailed to you, which is also attached here.

Anything new to this draft is underlined or struck, just as you'd see it in a bill. Additionally, those sections are highlighted (this includes a new minutes attachment which covers the teleconference).

I was unable to merge the attachments and create a seamless document. However, the cover pages will signal the attachment that fits into the report at the appropriate place. They are listed in order on the attachment box, with the exception of the body of the draft, which is listed last.

As for the MMS documents, we are only using summaries. For this reason, those PDFs begin with the word "Partial."

Thanks for your responses given over the last few days. However, if we attempt to further refine the report by more alterations, we will create a delay in the process. As I informed you in the last e-mail, Sen. Campbell needs to be able to release this document by Sep. 1 -- that is the commitment he has made to the President Pro Tem and the Speaker.

ALL comments that you've sent in will be retained and will be included as an appendix in the final report. The following "bullet point" language, "protection of natural resources and quality of life issues, including attention to the concerns inherent in hurricane activity and the potential development of the companion industries of oil and gas" is a response to issues raised by several and reflects important changes and should cover those concerns.

IMPORTANT: Keep in mind, if we do not have a definitive "YES" or "NO" vote, based on the attached draft, you do not have a vote recorded. If you have done so already, you may disregard this reminder.

IMPORTANT: Please be sure you have responded by MONDAY, AUGUST 31 at 3 PM.

Your cooperation is greatly appreciated. Feel free to contact me with any questions.

Gene Hogan

From: Winkles, David [dwinkles@scfb.com]
Sent: Friday, August 28, 2009 5:14 PM
To: Gene Hogan
Subject: RE: FINAL CALL FOR VOTE

Gene,

I vote Yes.

David Winkles

From: Gene Hogan [mailto:GeneHogan@scsenate.gov]
Sent: Friday, August 28, 2009 4:45 PM
To: Michael D. Thompson; Paul G. Campbell, Jr.; Tracy R. Edge; jrembold@wardedwards.com; Jeff Duncan; Tran, Minh; Ted Vick; fdavis006@sc.rr.com; brad.dean@visitmyrtlebeach.com; Thomas, Ralph; Winkles, David; sdozier@scana.com; hamiltond@sccl.org; Harry L. Ott; C. Bradley "Brad" Hutto; jedwards.epmi@charter.net; Daniel B. "Danny" Verdin III; 'dean@mailbox.sc.edu'; 'jmgeechee@homesc.com'
Cc: 'PAUL CAMPBELL,'
Subject: FINAL CALL FOR VOTE

To all committee members:

Sen. Campbell has asked me to give a FINAL CALL for voting on the latest draft. This is the version which I last e-mailed to you, which is also attached here.

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Gene Hogan

From: Minh.Tran@piedmontng.com
Sent: Friday, August 28, 2009 5:25 PM
To: Gene Hogan
Subject: Re: FINAL CALL FOR VOTE

I am good with yes.

From: Gene Hogan [GeneHogan@scsenate.gov]
Sent: 08/28/2009 04:45 PM AST
To: "Michael D. Thompson" <MichaelThompson@schouse.gov>; "Paul G. Campbell, Jr." <PaulCampbell@scsenate.gov>; "Tracy R. Edge" <TracyEdge@schouse.gov>; "jrembold@wardedwards.com" <jrembold@wardedwards.com>; Jeff Duncan <JeffDuncan@schouse.gov>; Minh Tran; Ted Vick <TedVick@schouse.gov>; "fdavis006@sc.rr.com" <fdavis006@sc.rr.com>; "brad.dean@visitmyrtlebeach.com" <brad.dean@visitmyrtlebeach.com>; "Thomas, Ralph" <rthomas@scpowerteam.com>; "dwinkles@scfb.com" <dwinkles@scfb.com>; "sdozier@scana.com" <sdozier@scana.com>; "hamiltond@scccl.org" <hamiltond@scccl.org>; "Harry L. Ott" <HarryOtt@schouse.gov>; "C. Bradley \"Brad\" Hutto" <BradHutto@scsenate.gov>; "jedwards.epmi@charter.net" <jedwards.epmi@charter.net>; "Daniel B. \"Danny\" Verdin III" <DannyVerdin@scsenate.gov>; "dean@mailbox.sc.edu" <dean@mailbox.sc.edu>; "jmgeechee@homesc.com" <jmgeechee@homesc.com>
Cc: "PAUL CAMPBELL," <paulcampbell07@aol.com>
Subject: FINAL CALL FOR VOTE

To all committee members:

Sen. Campbell has asked me to give a FINAL CALL for voting on the latest draft. This is the version which I last e-mailed to you, which is also attached here.

Anything new to this draft is underlined or struck, just as you'd see it in a bill. Additionally, those sections are highlighted (this includes a new minutes attachment which covers the teleconference).

I was unable to merge the attachments and create a seamless document. However, the cover pages will signal the attachment that fits into the report at the appropriate place. They are listed in order on the attachment box, with the exception of the body of the draft, which is listed last.

As for the MMS documents, we are only using summaries. For this reason, those PDFs begin with the word "Partial."

Thanks for your responses given over the last few days. However, if we attempt to further refine the report by more alterations, we will create a delay in the process. As I informed you in the last e-mail, Sen. Campbell needs to be able to release this document by Sep. 1 -- that is the commitment he has made to the President Pro Tem and the Speaker.

ALL comments that you've sent in will be retained and will be included as an appendix in the final report. The following "bullet point" language, "protection of natural resources and quality of life issues, including attention to the concerns inherent in hurricane activity and the potential development of the companion industries of oil and gas" is a response to issues raised by several and reflects important changes and should cover those concerns.

Gene Hogan

From: jedwards.epmi@charter.net
Sent: Friday, August 28, 2009 5:59 PM
To: Gene Hogan
Subject: Vote on draft

My vote is yes on draft john p edwards
Sent from my Verizon Wireless BlackBerry

Gene Hogan

From: Jon Rembold [jrembold@wardedwards.com]
Sent: Saturday, August 29, 2009 11:51 AM
To: Gene Hogan
Subject: RE: FINAL CALL FOR VOTE

Thumbs-up in support. Thanks Gene.

All the best,

Jon Rembold
Ward Edwards

From: Gene Hogan [mailto:GeneHogan@scsenate.gov]
Sent: Friday, August 28, 2009 4:45 PM
To: Michael D. Thompson; Paul G. Campbell, Jr.; Tracy R. Edge; Jon Rembold; Jeff Duncan; Tran, Minh; Ted Vick; fdavis006@sc.rr.com; brad.dean@visitmyrtlebeach.com; Thomas, Ralph; dwinkles@scfb.com; sdozier@scana.com; hamiltond@sccl.org; Harry L. Ott; C. Bradley "Brad" Hutto; jedwards.epmi@charter.net; Daniel B. "Danny" Verdin III; 'dean@mailbox.sc.edu'; 'jmgeech@homesc.com'
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Gene Hogan

From: Carolyn Brown [fdavis006@sc.rr.com]
Sent: Sunday, August 30, 2009 11:14 PM
To: Gene Hogan
Subject: RE: FINAL CALL FOR VOTE

I vote no.

Carolyn Brown

From: Gene Hogan [mailto:GeneHogan@scsenate.gov]
Sent: Friday, August 28, 2009 4:45 PM
To: Michael D. Thompson; Paul G. Campbell, Jr.; Tracy R. Edge; jrembold@wardedwards.com; Jeff Duncan; Tran, Minh; Ted Vick; fdavis006@sc.rr.com; brad.dean@visitmyrtlebeach.com; Thomas, Ralph; dwinkles@scfb.com; sdozier@scana.com; hamiltond@sccl.org; Harry L. Ott; C. Bradley "Brad" Hutto; jedwards.epmi@charter.net; Daniel B. "Danny" Verdin III; 'dean@mailbox.sc.edu'; 'jmgeech@homesc.com'
Cc: 'PAUL CAMPBELL,'
Subject: FINAL CALL FOR VOTE

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IMPORTANT: Please be sure you have responded by MONDAY, AUGUST 31 at 3 PM.

Gene Hogan

From: paulcampbell07@aol.com
Sent: Monday, August 31, 2009 12:02 PM
To: Gene Hogan
Subject: Natural Gas Study Committee

I vote yes.

Thanks for all the support. Your leadership was a big help to both the committee and me.

See you Thursday.

Paul
Sent via BlackBerry from T-Mobile

Gene Hogan

From: Jeff Duncan [jeffduncan22@gmail.com]
Sent: Monday, August 31, 2009 1:38 PM
To: Gene Hogan
Subject: Re: FW: FINAL CALL FOR VOTE

I vote AYE in the affirmative in favor of the report.

Jeff Duncan

On Mon, Aug 31, 2009 at 1:30 PM, Gene Hogan <GeneHogan@scsenate.gov> wrote:

From: Gene Hogan
Sent: Monday, August 31, 2009 12:22 PM
To: Michael D. Thompson; Tracy R. Edge; Jeff Duncan; Harry L. Ott; C. Bradley "Brad" Hutto; 'jmgeech@homesc.com'
Cc: 'PAUL CAMPBELL,'
Subject: FINAL CALL FOR VOTE

Gentlemen:

Senator Campbell has asked me to give a final reminder to you, as legislators, that the cutoff for voting on the Natural Gas Exploration Feasibility Study Committee draft is 3 PM TODAY. All you need to do is simply respond to this e-mail.

Several of you were an important part of the process, so you'll want your vote counted as the work of the committee is completed. Thank you for your attention to this matter.

Gene Hogan

(803) 212 -6232

(803) 556 - 9421

From: Gene Hogan
Sent: Friday, August 28, 2009 4:45 PM
To: Michael D. Thompson; Paul G. Campbell, Jr.; Tracy R. Edge; 'jrembold@wardedwards.com'; Jeff Duncan; Tran, Minh; Ted Vick;

Gene Hogan

From: mdt1016@yahoo.com
Sent: Monday, August 31, 2009 2:32 PM
To: Gene Hogan
Subject: Re: FINAL CALL FOR VOTE

Please record my vote as "aye".
Thanks.

Rep. Michael D Thompson

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

From: Gene Hogan
To: 'mdt1016@yahoo.com'
To: 'jeffduncan22@gmail.com'
Subject: FW: FINAL CALL FOR VOTE
Sent: Aug 31, 2009 1:30 PM

Message truncated due to size.

Sent from my Verizon Wireless BlackBerry

Gene Hogan

From: Hamilton Davis [HamiltonD@scccl.org]
Sent: Monday, August 31, 2009 2:27 PM
To: Gene Hogan; Michael D. Thompson; Paul G. Campbell, Jr.; Tracy R. Edge; jrembold@wardedwards.com; Jeff Duncan; Tran, Minh; Ted Vick; fdavis006@sc.rr.com; brad.dean@visitmyrtlebeach.com; Thomas, Ralph; dwinkles@scfb.com; sdozier@scana.com; Harry L. Ott; C. Bradley "Brad" Hutto; jedwards.epmi@charter.net; Daniel B. "Danny" Verdin III; dean@mailbox.sc.edu; jmgeechee@honesc.com
Cc: PAUL CAMPBELL,
Subject: RE: FINAL CALL FOR VOTE

Unfortunately, I do not think this report reflects the committee's recommended language on the future of South Carolina's energy policies. Additionally, I believe the report fails to sufficiently address threats posed by the oil industry to our state's coastal ecosystem, tourism industry, and quality of life.

I must therefore vote "no."

Below is the additional language that would have made the report acceptable in my opinion:

- The development of a comprehensive state energy policy that evaluates the appropriate combination of energy conservation, energy efficiency, renewable energy, and traditional energy sources necessary to meet the state's future energy needs.

South Carolina should adopt every feasible safeguard necessary to demonstrate appropriate due diligence to ensure the onshore impacts of energy development such as wind farms and offshore drilling for oil and gas do not undermine our coastal ecosystems or the quality of life for coastal residents.

- While exploration and development of offshore natural gas resources pose limited environmental hazards, the same cannot be said for offshore oil development. South Carolina should take every precaution to avoid the types of environmental impacts experienced in the Gulf of Mexico, especially those related to hurricane activity. MMS estimates over 8 million gallons of oil spilled from refineries, storage facilities, pipelines, and rigs as a consequence of hurricanes Katrina and Rita. Considering oil and natural gas are typically found together and the MMS leasing process does not differentiate between the two, South Carolina should adopt every safeguard necessary to ensure the onshore impacts of offshore drilling do not undermine our coastal ecosystems or the quality of life for coastal residents.

Hamilton

T. HAMILTON DAVIS IV
PROJECT MANAGER
COASTAL CONSERVATION LEAGUE
P.O. Box 1765
328 EAST BAY
CHARLESTON, SC 29402-1765
843.725.2061
HAMILTOND@SCCCL.ORG

Gene Hogan

From: DOZIER, SAMUEL L. [SDOZIER@scana.com]
Sent: Monday, August 31, 2009 2:57 PM
To: Gene Hogan
Subject: Re: FINAL CALL FOR VOTE

I can support Sen. Campbell's latest draft.
Sam Dozier

From: Gene Hogan <GeneHogan@scsenate.gov>
To: DOZIER, SAMUEL L.
Sent: Mon Aug 31 14:51:31 2009
Subject: FW: FINAL CALL FOR VOTE

From: Gene Hogan
Sent: Monday, August 31, 2009 12:22 PM
To: Michael D. Thompson; Tracy R. Edge; Jeff Duncan; Harry L. Ott; C. Bradley "Brad" Hutto; 'jmgeech@homesc.com'
Cc: 'PAUL CAMPBELL,'
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Gene Hogan

From: John Mark Dean [john.dean@earthlink.net]
Sent: Monday, August 31, 2009 3:17 PM
To: Gene Hogan
Subject: Re: FW: FINAL CALL FOR VOTE

Gene,

This just arrived and I hope my vote will be considered. I remain unconvinced that the report is clear enough on the role of natural gas exploration and production as one alternative for energy production for the coast of South Carolina. The report only indirectly refers to the state Energy Plan rather than show how this report can develop policies that can be integrated into that plan to the greatest benefit for the citizens of South Carolina. Therefore, I am voting no on the final report.

John Mark Dean

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

From: Gene Hogan
Sent: Aug 31, 2009 2:52 PM
To: "dean@mailbox.sc.edu" , "john.dean@earthlink.net"
Subject: FW: FINAL CALL FOR VOTE