

## HOUSE OF REPRESENTATIVES STAFF ANALYSIS

**BILL #:** HB 229 CS Use of Land for the Exploration, Production, and Storage of  
Petroleum and Natural Gas  
**SPONSOR(S):** Clarke  
**TIED BILLS:** **IDEN./SIM. BILLS:** SB 2708

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REFERENCE	ACTION	ANALYST	STAFF DIRECTOR
1) <u>Water &amp; Natural Resources Committee</u>	<u>11 Y, 0 N, w/CS</u>	<u>Lotspeich</u>	<u>Lotspeich</u>
2) <u>Environmental Regulation Committee</u>	<u>7 Y, 0 N</u>	<u>Perkins</u>	<u>Kliner</u>
3) <u>Agriculture &amp; Environment Appropriations Committee</u>	<u></u>	<u>Dixon</u>	<u>Dixon</u>
4) <u>State Resources Council</u>	<u></u>	<u></u>	<u></u>
5) <u></u>	<u></u>	<u></u>	<u></u>

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### SUMMARY ANALYSIS

The bill directs the Department of Environmental Protection (DEP) to contract for a study relating to risk and potential adverse effects of hurricane wind and storm surge on field-erected aboveground storage tank systems at bulk product facilities.

The bill also directs the DEP to review and compile existing data and information to evaluate the environmental risks from all activities associated with the possible future exploration for and production of oil and natural gas in the eastern Gulf of Mexico currently subject to federal moratoria.

The DEP is authorized to use up to \$250,000 from the Inland Protection Trust Fund for the 2006-2007 and 2007-2008 fiscal years to pay the expenses of the study relating to aboveground storage tanks.

# FULL ANALYSIS

## I. SUBSTANTIVE ANALYSIS

### A. HOUSE PRINCIPLES ANALYSIS:

The bill does not appear to implicate any of the House Principles.

### B. EFFECT OF PROPOSED CHANGES:

## **BACKGROUND**

### **Offshore Drilling for Oil and Natural Gas**

#### The Outer Continental Shelf

The Outer Continental Shelf (OCS) consists of the submerged lands, subsoil, and seabed, lying between the seaward extent of the States' jurisdiction and the seaward extent of Federal jurisdiction. The continental shelf is the gently sloping undersea plain between a continent and the deep ocean. The United States OCS has been divided into four leasing regions. They are the Gulf of Mexico OCS Region, the Atlantic OCS Region, the Pacific OCS Region, and the Alaska OCS Region. In 1953, Congress designated the Secretary of the Department of Interior to administer mineral exploration and development of the entire OCS through the Outer Continental Shelf Lands Act (OCSLA). The OCSLA was amended in 1978 directing the secretary to:<sup>1</sup>

- conserve the Nation's natural resources;
- develop natural gas and oil reserves in an orderly and timely manner;
- meet the energy needs of the country;
- protect the human, marine, and coastal environments; and
- receive a fair and equitable return on the resources of the OCS.

*State jurisdiction* over the OCS is defined as follows:

- Texas and the Gulf coast of Florida are extended 3 marine leagues (approximately 9 nautical miles) seaward from the shoreline.
- Louisiana is extended 3 imperial nautical miles (imperial nautical mile = 6080.2 feet) seaward from the shoreline.
- All other States' seaward limits are extended 3 nautical miles (approximately 3.3 statute miles) seaward from the shoreline.

*Federal jurisdiction* over the OCS is defined under accepted principles of international law. The seaward limit is defined as the farthest of 200 nautical miles seaward of the shoreline or, if the continental shelf can be shown to exceed 200 nautical miles, a distance not greater than a line 100 nautical miles from the 2,500-meter isobath or a line 350 nautical miles from the shoreline.<sup>2</sup>

The OCS is a significant source of oil and gas for the nation's energy supply. The OCS supplies more than 25 percent of the country's natural gas production and more than 30 percent of total domestic oil production. The offshore areas of the United States contain the majority of future oil and gas

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<sup>1</sup> <http://www.gomr.mms.gov/homepg/whoismms/whatsocs.html>

<sup>2</sup> <http://www.gomr.mms.gov/homepg/whoismms/whatsocs.html>

resources. It is estimated that 60 percent of the oil and 59 percent of the gas yet to be discovered in the United States are located on the OCS.<sup>3</sup>

The OCS Lands Act requires the Department of Interior (DOI) to prepare a 5-year program that specifies the size, timing and location of areas to be assessed for Federal offshore natural gas and oil leasing. It is the role of DOI to ensure that the U.S. government receives fair market value for acreage made available for leasing and that any oil and gas activities conserve resources, operate safely, and take maximum steps to protect the environment. OCS oil and gas lease sales are held on an area-wide basis with annual sales in the Central and Western Gulf of Mexico with less frequent sales held in the Eastern Gulf of Mexico and offshore Alaska. The program operates along all the coasts of the United States - with oil and gas production occurring on the Gulf of Mexico, Pacific, and Alaska and OCS.<sup>4</sup>

### The Minerals Management Service

The Minerals Management Service (MMS), a bureau in the DOI, is the federal agency that manages the nation's natural gas, oil and other mineral resources on the OCS. The MMS also collects, accounts for and disburses more than \$8 billion per year in revenues from federal offshore mineral leases. The MMS oversees two major programs: Offshore Minerals and Minerals Revenue Management. The Offshore Minerals program, which manages the mineral resources on the OCS, comprises three regions: Alaska, the Pacific, and the Gulf of Mexico.<sup>5</sup>

The Gulf of Mexico OCS Region is made up of three planning areas along the Gulf Coast - the Western, Central, and Eastern Gulf of Mexico Planning Areas. These areas contain 43 million acres under lease. There are 3,911 offshore production platforms active in the search for natural gas and oil on the Gulf OCS. These production facilities contribute significantly to the nation's energy supply.<sup>6</sup>

### Eastern Gulf of Mexico Planning Area<sup>7</sup>

The Eastern Gulf of Mexico Planning Area extends along the Gulf's northeastern coast for some 700 miles, from Baldwin County, Alabama, southward to the Florida Keys. The area encompasses approximately 76 million acres, with water depths ranging from approximately 30 feet to nearly 10,000 feet. The area extends for more than 300 miles seaward of the state/federal boundary (9 miles off the Florida coast).

Since the late 1980's, a limited amount of OCS activity has taken place in the Eastern Gulf of Mexico Planning Area because of administrative deferrals and annual congressional moratoria.

The MMS has estimated that between 6.95 and 9.22 trillion cubic feet of natural gas and 1.57 and 2.78 billion barrels of oil and condensate are contained in the Eastern Gulf of Mexico Planning Area. Drilling for natural gas and oil has been occurring in the Eastern Gulf of Mexico offshore Alabama and Florida for more than three decades. The first of 11 natural gas and oil lease sales held offshore Florida occurred in 1959 and resulted in the issuance of 23 leases. Additional lease sales have been held periodically in the Eastern Gulf from 1973 through 2003. Currently, there are 241 active leases in the Eastern Gulf of Mexico Planning Area.

Exploratory drilling started in the Eastern Gulf of Mexico in the mid-1970's with the drilling of Destin Dome Block 162, located 40 miles south of Panama City, Florida. After two years of drilling and 15 dry holes, exploration stopped. To date, over 54 exploratory wells have been drilled in the Eastern Gulf of Mexico. Thirteen wells discovered natural gas, condensate, and crude oil.

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<sup>3</sup> <http://www.mms.gov/offshore/>

<sup>4</sup> <http://www.mms.gov/offshore/>

<sup>5</sup> <http://www.mms.gov/aboutmms/>

<sup>6</sup> <http://www.gomr.mms.gov/homepg/offshore/gulfocs/gulfocs.html>

<sup>7</sup> <http://www.gomr.mms.gov/homepg/offshore/egom/eastern.html>

Three Eastern Gulf lease sales were made in the 1980's and there was renewed industry interest in the Destin Dome area. In the late 1980's, Chevron U.S.A. and Gulfstar made natural gas discoveries in the area.

In October 1995, 73 oil and gas leases located *south* of 26° N. latitude (the approximate latitude of Naples, Florida) were returned to the federal government as part of a litigation settlement. Consequently, no active Federal natural gas and oil leases exist off southwest Florida. Likewise, no active leases exist in the Straits of Florida Planning Area or off Florida's east coast (South Atlantic Planning Area).

In 1996, a development plan was filed by Chevron U.S.A. and partners on the Destin Dome 56 Unit. On July 24, 2000, Chevron U.S.A. and partners filed a lawsuit against the U.S. government for denying the companies "timely and fair review" of plans and permits relating to the Destin Dome 56 Unit. In May 2002, the Department agreed to settle the litigation with the oil companies. The companies -- Chevron, Conoco and Murphy Oil -- relinquished seven of nine leases in the unit that were the subject of the litigation in exchange for \$115 million. The remaining two leases, Destin Dome Blocks 56 and 57, are to be held by Murphy and will be suspended until at least 2012, under the terms of the agreement. Murphy agreed not to submit a development plan on the two remaining leases before 2012, the year when the current moratoria will expire. Under the terms of the agreement, the leases can not be developed unless approved by both the federal government and the State of Florida.

Unocal began the first production in the Eastern Gulf Planning Area in mid-February 1999 on Pensacola Block 881. Located approximately 12 miles offshore Alabama, this site involves the production of some 5 million cubic feet of natural gas per day.

In October 1999, Gulfstream Natural Gas Systems (ANR) and Buccaneer Gas Pipeline Company (Transco/Williams) submitted pipeline right-of-way applications to the MMS for the construction of two 400-mile (36-inch) natural gas pipelines spanning the Eastern Gulf of Mexico. The Gulfstream right-of-way was approved by MMS on June 1, 2001. This line went into service in June 2002.

In November 1996, DOI released the OCS Oil and Gas Leasing Program (1997-2002). The program included 16 lease sales, with one sale proposed for the Eastern Gulf of Mexico in 2001. The original sale area was reviewed to be consistent with the State of Florida's opposition to offshore oil and gas activities within 100 miles of its coast. The first steps in the 3-year planning process began on January 25, 1999, with the release of the Call for Interest and Information and the Notice of Intent to Prepare an Environmental Impact Statement. A draft environmental impact statement was released in December 2000 and a final EIS was made available to the public in July 2001.

In July 2001, Sale 181 was adjusted from 5.9 million acres to about 1.5 million acres or 256 blocks. The adjusted area lies more than 100 miles off the Alabama/Florida State line. Twenty-three blocks in this area were under lease at that time. Lease Sale 181 was held on December 5, 2001. MMS awarded leases on 95 tracts involving \$340,474,113. Seventeen companies participated in this sale.

On December 10, 2003, Eastern Gulf of Mexico Sale 189 was held. Six companies participated in the lease sale that offered 138 blocks comprising approximately 794,880 acres offshore Alabama. The highest bid received was \$2.2 million, submitted by Shell and Nexen.

In an August 22, 2005, DOI news release, it was announced that the MMS is seeking initial public comment on the development of its 2007-2012 five-year leasing plan for energy development on the OCS and accompanying environmental impact statement.<sup>8</sup> This includes the Eastern Gulf of Mexico Planning Area. The announcement stated:

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<sup>8</sup> [http://www.doi.gov/news/05\\_News\\_Releases/050822.htm](http://www.doi.gov/news/05_News_Releases/050822.htm)

“The announcement is the first step in a two-year process to develop the leasing plan. It does not include proposals for new lease sales but instead asks the public for general information and comment not only on energy development but also on other economic and environmental issues in the OCS areas.

‘The OCS contains billions of barrels of oil and trillions of cubic feet of natural gas that can be safely produced,’ Interior Secretary Gale Norton said. ‘With our reliance on imports of foreign oil climbing each year, we would be irresponsible if we did not consider how we might develop these abundant domestic resources.’

Presidential withdrawals or congressional moratoria have placed more than 85 percent of the OCS off the lower 48 states off limits to energy development.

The Bush Administration has repeatedly expressed its support for the existing moratoria, based upon deference to the wishes of the states to determine what activities take place off their coasts.

However, recent energy legislation passed by Congress calls for a comprehensive inventory and analysis of the oil and natural gas resources for all areas of the OCS.

Therefore, as MMS undertakes the process of drafting its proposal, the agency is seeking comment on the potential resources available in all areas of the OCS, recognizing that many of these areas are subject to existing moratoria and will not be fully analyzed for possible leasing. In seeking public comment, Secretary Norton reaffirmed the Bush Administration’s pledge not to conduct any new leasing under the 2007-2012 five-year plan within 100 miles of Florida’s coast, in the Eastern Gulf of Mexico Planning Area. MMS is also asking the public to comment specifically on whether the existing withdrawals or moratoria should be modified or expanded to include other areas in the OCS; and whether the Interior Department should work with Congress to develop gas-only leases.

The 2007-2012 OCS oil and gas leasing program will be the seventh program prepared since Congress passed the OCS Lands Act in 1978. The Act requires the Secretary of the Interior to prepare and maintain five-year programs for offshore oil and natural gas leasing. The current program runs through June 30, 2007.

Once public comment is received, MMS will develop a draft proposed program followed by a proposed program and draft EIS. The public will have an opportunity to comment on both documents.

The following is the schedule for the 2007-2012 five-year program:”

Date	Step
August 24, 2005	Solicit comments and information (Federal Register Notice)
Winter 2005	Issue draft proposed program (60-day comment period)
Summer 2006	Issue proposed program and draft EIS (90-day comment period)
Winter 2007	Issue proposed final program and final EIS (60-day waiting period)
Spring 2007	Approve five-year program for July 2007-July 2012

## The Exploration and Development Process

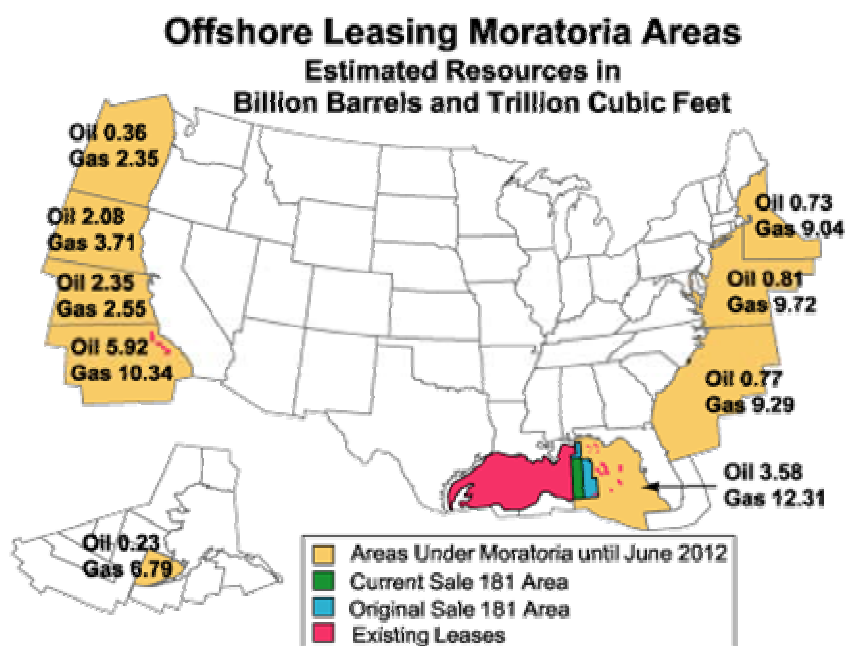
Once a company acquires a lease, the company has to prepare an exploration plan and have it approved by MMS and other federal and state agencies in order to drill a well. Typical exploration plans propose the drilling of one or more exploratory wells. The MMS conducts an environmental review of the impacts of drilling the well. Should a discovery be made, the company may then prepare and file a development plan. The exploration and development plans must be consistent with the affected state's Coastal Zone Management Plan

During exploratory drilling or production operations on the OCS, the MMS inspection program calls for MMS inspectors to review operations and periodically visit and inspect facilities to ensure clean and environmentally safe operations.

To prepare for lease sales and to protect the environment during offshore drilling operations, MMS conducts environmental studies. Several new studies are planned and/or currently underway.<sup>9</sup>

## Federal Moratoria

Congress and past Presidents have placed moratoria on offshore drilling and development on the OCS on both the U.S. East and West Coasts. Included in the moratoria is the Eastern Gulf of Mexico. The consequence of the moratoria is to foreclose until at least 2012 any effort to explore for critical oil and gas resources that are estimated to lie beneath these areas. In response to recent sharp increases in fuel and home heating oil, several attempts have been made in Congress to limit or remove these moratoria. The map below illustrates these moratoria areas.<sup>10</sup>



Note: Locations of existing leases offshore California and in Eastern Gulf of Mexico are approximate and intended to be representative only.

Source: Minerals Management Service

<sup>9</sup> <http://www.gomr.mms.gov/homepg/offshore/egom/eastern.html>

<sup>10</sup> <http://api-ep.api.org/issues/index.cfm>

## Current State Law

Under the provisions of Chapter 253, F.S., the Governor and Cabinet sitting as the Trustees of the Internal Improvement Trust Fund have been granted the powers and duties with regard to the control of private uses of state-owned submerged lands. These state-owned submerged lands extend waterward from the shoreline for approximately 9 miles into the Gulf of Mexico and 3 miles into Atlantic Ocean.<sup>11</sup> Section 253.61, F.S., expressly prohibits the Trustees from granting any “oil or natural gas *lease*” on state-owned submerged lands off the State’s west coast. A similar provision in section 377.24, F.S., prohibits the DEP from issuing a *permit* “to drill a well in search of oil or gas” on the same state-owned submerged lands.

## **Onshore Storage of Petroleum Products**

There are currently 11 ports along Florida’s coast where petroleum products are shipped into the State. Each of these ports has one or more bulk petroleum storage facilities. The largest such facilities are located at Tampa (11 facilities with 162 million gallons of unleaded gasoline and 65 million gallons of diesel), Port Everglades (13 facilities with 147 million gallons of unleaded gasoline and 51.5 million gallons of diesel), Jacksonville (9 facilities with 95.5 million gallons of unleaded gasoline and 53 million gallons of diesel), Pensacola (2 facilities with 13 million gallons of unleaded gasoline and 3 million gallons of diesel), and Cape Canaveral (1 facility with 12.5 million gallons of unleaded gasoline and 5 million gallons of diesel).

Hurricane Katrina caused significant damage to bulk petroleum storage facilities along the Louisiana coast. According to the U.S. Coast Guard, Hurricane Katrina caused 6 major spills (> 100,000 gallons) at such facilities, 4 medium spills (>10,000 gallons), and 134 minor spills (< 10,000 gallons) in Louisiana. The total volume from all spills was approximately 8 million gallons. As of November 5, 2005, 3.5 million gallons had been recovered, 2 million gallons evaporated, and 2 million gallons naturally dispersed, leaving approximately 400,000 gallons to be addressed.<sup>12</sup>

## **EFFECT OF PROPOSED CHANGES**

### Aboveground Storage Tanks Study

The bill requires the DEP to contract for a study that evaluates the exposure risk and potential adverse effects of hurricane wind and storm surge on field-erected aboveground storage tank systems (tanks, piping, pumps, and related components) at bulk product facilities, as defined in subsection 376.031(3), F.S.

The scope of the study, at a minimum, must include:

- An evaluation of the frequency, strength, and probability estimates for hurricane winds and storm surge on those areas of Florida coasts where existing bulk product facilities are located and where new bulk product facilities are likely to be constructed.
- An evaluation of the need and timing for requirements for the establishment of minimum ballast levels for field-erected aboveground storage tanks at bulk product facilities.
- An evaluation of the need and feasibility for requirements for temporary and permanent anchoring systems.

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<sup>11</sup> Section 1, Article II, Florida Constitution

<sup>12</sup> <http://www.uscgstormwatch.com/go/doc/1008/87976/>

- An evaluation of the need for potential siting considerations or engineering mitigation that would prevent or limit the installation of new field-erected aboveground storage tank systems at bulk product facilities in areas that are potentially high risk areas for hurricane winds and storm surge.
- Identification of all current and proposed industry standards for professionally engineered dike-fields surrounding field-erected aboveground storage tanks at bulk product facilities.

The study is to include recommendations for changes, if needed, to aboveground storage tank system laws and agency rules in order to decrease damage from hurricanes and improve recovery of field-erected aboveground storage tank systems after storm damage. All recommendations must be accompanied by a cost-benefit analysis which is to include an analysis of:

- The costs for modifying existing field-erected aboveground storage tank systems and dike fields, and the costs associated with new construction of field-erected aboveground storage tank systems and dike fields, to meet any proposed new requirements; and
- The potential adverse effect on petroleum inventory capacity in Florida resulting from any proposed new requirements. All industry segments with field-erected aboveground storage tanks shall be included in the petroleum inventory capacity analysis (e.g. petroleum, electric utility, etc.).

The department is required to report the findings and recommendations of the study to the Governor, the President of the Senate, and the Speaker of the House of Representatives by March 1, 2008.

The DEP is authorized to use up to \$250,000 from the Inland Protection Trust Fund for the 2006-2007 and 2007-2008 fiscal years to pay the expenses of the study.

#### Environmental Impacts from Oil and Natural Gas Drilling in the Eastern Gulf of Mexico

The bill also requires the DEP to review and compile existing data and information to evaluate the environmental risks from all activities associated with the possible future exploration for and production of oil and natural gas in the eastern Gulf of Mexico currently subject to federal moratoria.

The bill requires the DEP to immediately request from the appropriate state agencies and private research institutes all available data and information needed by DEP to complete the evaluation. The appropriate state agencies must submit the data and information to the department at the earliest possible date. Private research institutes that may have such data and information are encouraged to submit relevant data and information to DEP to the maximum extent practicable. The DEP's effort are also to include data and information available through appropriate federal executive branch agencies.

The DEP's evaluation must take into consideration current technologies for controlling discharges from oil and gas exploration rigs and production platforms, and must include, but need not be limited to:

- Evaluating the probability of a discharge from oil and gas exploration rigs and production platforms.
- Evaluating the magnitude of any probable discharge from oil and gas exploration rigs and production platforms.
- Evaluating Gulf of Mexico currents and circulation patterns and the likelihood of any probable discharge reaching Florida's coastal waters and shorelines.
- Evaluating the environmental impacts of any probable discharge on the fish and wildlife resources in Florida's coastal waters.

The DEP is required to present to the Governor, the President of the Senate, and the Speaker of the House of Representatives the results of its evaluation within 120 days after the effective date of the act.



C. SECTION DIRECTORY:

- Section 1. Directs the DEP to contract for a study relating to risk and potential adverse effects of hurricane wind and storm surge on field-erected aboveground storage tank systems at bulk product facilities.
- Section 2. Provides an appropriation for the study required by Section 1.
- Section 3. Directs the DEP to review and compile existing data and information to evaluate the environmental risks from all activities associated with the possible future exploration for and production of oil and natural gas in the eastern Gulf of Mexico currently subject to federal moratoria.
- Section 4. Provides an effective date.

**II. FISCAL ANALYSIS & ECONOMIC IMPACT STATEMENT**

A. FISCAL IMPACT ON STATE GOVERNMENT:

1. Revenues:

None

2. Expenditures:

The DEP is authorized to use up to \$250,000 from the Inland Protection Trust Fund for the 2006-2007 and 2007-2008 fiscal years to pay the expenses of the study relating to aboveground storage tanks as provided for in Section 1 of the bill.

B. FISCAL IMPACT ON LOCAL GOVERNMENTS:

1. Revenues:

None

2. Expenditures:

None

C. DIRECT ECONOMIC IMPACT ON PRIVATE SECTOR:

None

D. FISCAL COMMENTS:

None

**III. COMMENTS**

A. CONSTITUTIONAL ISSUES:

1. Applicability of Municipality/County Mandates Provision:

Not applicable, because this bill does not appear to: require the counties or cities to spend funds or take an action requiring the expenditure of funds; reduce the authority that cities or counties have to

raise revenues in the aggregate; or reduce the percentage of a state tax shared with cities or counties.

2. Other:

None

B. RULE-MAKING AUTHORITY:

The bill does not require the promulgation of rules by nor alter the rulemaking authority of any state agency.

C. DRAFTING ISSUES OR OTHER COMMENTS:

None

#### **IV. AMENDMENTS/COMMITTEE SUBSTITUTE & COMBINED BILL CHANGES**

On March 15, 2006, the Water and Natural Resources Committee adopted a strike-all amendment to HB 229. The strike-all amendment makes the following changes to the bill:

- Directs the DEP to contract for a study that evaluates the exposure risk and potential adverse effects of hurricane wind and storm surge on field-erected aboveground storage tanks at bulk product facilities.
- Provides that the DEP is authorized to use up to \$250,000 from the Inland Protection Trust Fund for the 2006-2007 and 2007-2008 fiscal years to pay the expenses of the study relating to aboveground storage tanks .
- Directs the DEP to review and compile existing data and information to evaluate the environmental risks from all activities associated with the possible future exploration for and production of oil and natural gas in the eastern Gulf of Mexico currently subject to federal moratoria.

This analysis has been revised to reflect the strike-all amendment.