TESTIMONY OF CHETT CHAISSON EXECUTIVE DIRECTOR GREATER LAFOURCHE PORT COMMISSION BEFORE THE HOUSE COMMITTEE ON NATURAL RESOURCES MARCH 16, 2011

Good morning Mr. Chairman and Members of the Committee. I appreciate the opportunity to appear before you today. My name is Chett Chiasson, and I am the Executive Director of the Greater Lafourche Port Commission, otherwise known as Port Fourchon.

With this testimony, I hope to impress upon you several points: the importance of Port Fourchon to the offshore oil and gas industry; the contribution that Port Fourchon therefore makes to the national economy; the impact that the Deepwater Horizon incident had on our Port; and the impact that the President's moratorium on offshore drilling has had and continues to have on our Port as a result of the continued delays in the permitting process.

By way of background, The Greater Lafourche Port Commission, a political subdivision of the state of Louisiana, facilitates the economic growth of the communities in which it operates by maximizing the flow of trade and commerce. We do this to grow our economy and preserve our environment and heritage. The Port Commission exercises jurisdiction over the Tenth Ward of Lafourche Parish, south of the Intracoastal Waterway, including Port Fourchon and the South Lafourche Leonard Miller, Jr. Airport. The Port Commission has been in existence since 1960 and the 9 member Board of Commissioners is the only elected Port Commission in the State of Louisiana. Port Fourchon is located on the Gulf of Mexico near the mouth of Bayou Lafourche and it is the only Louisiana port directly on the Gulf of Mexico. Although 675 million barrels of crude oil per year are transported via pipelines through the Port, Port Fourchon does not handle any bulk oil and gas per se. Rather, we are an intermodal offshore supply port -- more than 250 companies utilize Port Fourchon in servicing offshore rigs in the Gulf of Mexico, carrying equipment, supplies and personnel to offshore locations. In terms of service, Port Fourchon's tenants provide services to 90 percent of all deepwater rigs in the Gulf of Mexico and roughly 45 percent of all shallow water rigs in the Gulf. 70% of all Gulf oil now comes from deepwater Gulf of Mexico operations. In sum, Port Fourchon plays a vital role in 18% of the nation's oil supply.

In a recent study conducted by Dr. Loren C. Scott, former Chair of the LSU Economics Department, of the economic impact to the nation of Port Fourchon, Dr. Scott finds that more than \$63 billion in total value of oil and gas are associated with Port Fourchon. With the Chairman's permission, I would like to submit this study to the Committee for the Record. The Port commissioned Dr. Scott to conduct this economic study as a means of documenting the importance of Port Fourchon to the Nation. The study contemplates the economic impact to the Nation of a three-week disruption of activities at the Port. We did this to demonstrate to Congress and to Executive Branch Departments the significance of our Port, as a means of

justifying federal participation for a variety of infrastructure development needs, such as modernizing Louisiana Highway One which connects the Port to the rest of the world, or for seaport security funding, or for additional hurricane protection. Indeed, in back to back years, Port Fourchon itself and the oil and gas rigs it services were impacted to varying degrees by Hurricanes Katrina, Rita, Ike and Gustav. All of these were significant storm events. We live with these every year. Our port, our community and the offshore industry know how to recover, and in these and many more similar events, we recovered quickly. But never did we consider that the interruption of our operations and the impact it would have would be at the hands of our own government. Before I discuss this impact though, let me speak for a moment on the BP spill itself.

First and foremost, our community and our industry lost eleven lives on April 20th. This was a tragedy that should not have occurred. And for as significant as the environmental damage from this incident was on our community, the loss of eleven lives impacted us in a much deeper way, albeit and unfortunately with much less media coverage than the spill itself or even the impacts of the subsequent moratorium. As a community and as an industry, we applaud the government's attempt to ensure a safer work environment. With respect to the effects of the oil spill, the impact was seen at least as far west as Terrebone Parish, and as far east as Pensacola, Florida. Lafourche Parish was not at all spared. And Port Fourchon was not at all spared. Our beaches were fouled, and our marshes were severely damaged in many places by the oil. To date, Fourchon Beach remains closed to pedestrians and vehicles due to continued oil spill response efforts. Port Fourchon engaged in significant response efforts to protect our own property. We incurred significant costs for our own cleanup response, and in providing additional governmental services. To date, our response costs are over \$550,000. Our Port continues to incur increased operational costs; our community continues to be pensive over what additional oil may turn up in the future, or what the long term impact on our natural resources and commercial fisheries may be from this spill. And to the extent that worker safety and the environmental impacts of this spill are within this Committee's jurisdiction, I urge you to maintain a focus on these issues in the coming years. But as Parish President Randolph states in her testimony today, there is no better place than Lafourche Parish to observe the coexistence of energy activities on the one hand, and commercial fishing or recreation on the other. This coexistence is for a variety of reasons – perhaps it's due to our heritage; perhaps it's because we are a close-nit community. But mostly, it's because it's what we have. We have been blessed with abundant marshes and beaches which serve as nurseries to support commercial and recreational fishing and other activities. And we have been blessed with abundant fossil resources beneath our marshes and off our coastlines. We have been blessed with the heritage of earning a living off the land and the water. Today, the resources available to us help to feed our Nation with our seafood, and fuel our Nation with the energy we help to produce. And so the coexistence which occurs in our part of the country is not limited there; it is reflected across the entire Nation. The average citizen of this country is not aware of where the shrimp that they are eating comes from any more than from where the gasoline that fuels their cars come. And, at least perhaps until the BP spill last year, they did not realize that there is a good chance they come from the same place. Which brings me back to Lafourche Parish and Port Fourchon.

Mr. Chairman, I indicated that my Port, our community and our industry have proven our ability to respond to and recover from any natural disaster set upon us. But never did we imagine the

type of sustained and substantial economic impact that has resulted from the President's moratorium, the length of time in developing new permitting requirements, and the delay in issuing new permits by BOEMRE. Soon after the moratorium was initiated, the Port Commission was forced to reduce the basic rent charged to our tenants by 30% and suspend annual escalation, anticipating the severe economic impact that would come. This has resulted in a loss of revenues to the Port to date of nearly \$2.4 million. This loss of revenue reduces the basic services and capital construction that the Port Commission can provide to create jobs and economic development. Our fears of loss of tenant business in Port Fourchon are becoming reality. Just last week I had a tenant come to me literally crying, saying if something does not change soon, he will be lucky to keep his doors open until May. This is a small, family owned supply business that employs four people. Not too devastating in and of itself, but the problem is that there are several businesses in Port Fourchon that will realize the same fate, without a dramatic increase in the number of permits being issued by BOEMRE.

What is more concerning to me as the Port Director and as a citizen of South Louisiana is the long term impact that this moratorium and delayed permitting process will have. I can count the cost of responding to the oil spill; I can document the reduction in rents that my Port Commission had to approve last year in order to help business facing significant economic distress. But what I cannot predict is the continued harm in the future caused by the delay in the government's actions.

When President Obama enacted his moratorium, assurances were made by the Administration that BP would pay for the economic consequences caused by the *moratorium*. Secretary Salazar strongly assured this Committee and the Senate Committee on Energy and Natural Resources that BP would pay all "legitimate claims", which included those arising from the moratorium. Then Press Secretary Robert Gibbs, speaking on behalf of President Obama, confirmed that assurance in a public statement.

Unfortunately, those commitments have apparently not been remembered.

- BP's Fund, administered in part by Mr. Feinberg and in part by BP itself, is denying claims which it finds to be caused by the Moratorium. Port Fourchon recently submitted a claim to BP for compensation of loss revenues, which was denied by BP for being a moratorium-related damage. With the Chairman's permission, I would like to submit this letter for the record.
- The Oil Spill Liability Trust Fund is also denying claims on that same basis;
- Finally, our counsel advises us that BP is likely to defend against any action to obtain restitution from it by arguing that the moratorium is an unforeseeable "supervening cause" which excuses BP from liability.

The law provides the Administration with powerful tools to provide injured parties with prompt and adequate compensation for spill related injuries or to require the Responsible Parties to do so. Although Secretary Salazar, when he appeared before this Committee last May, gave assurances that these tools would be used, those assurances are yet to be fulfilled. As a result of

these failures, the Government's actions to date have, on balance, impeded, rather than facilitated the ability of injured parties to obtain the compensation to which they are entitled.

BP was responsible for the spill, but the President is responsible for the moratorium and responsible for the continued slow pace in the permitting process. Therefore the government should be held accountable for damages caused to numerous companies, ports, local and state governments throughout the country who have been impacted by this moratorium. Some mechanism -- if not the OPA Fund then some other means -- must be identified to compensate the severe economic impact that has occurred as a result of this moratorium and continued delays in permitting. But just as important as addressing past harms is to avoid any future harm. This can only happen with the permitting process once again functioning properly.

As Secretary Angelle indicated in his testimony, the oil industry has worked steadfast with the government in developing a robust regulatory environment to ensure increased safety for our workers in the offshore industry, and protection of our natural resources. I am confident that industry has fulfilled its obligation to a new regulatory regime, several times over. Our industry and our community embrace increased safety measures. We never again want to see such an incident that occurred on April 20th of last year, and I am confident that as a result of industry and government working together since the spill, we never again will. But it is now time to get the critical projects back on schedule that create the economic activity which fuels our economy, and the energy resources which literally fuel our Nation. And it is now time to end the government-induced harm to our local and National economies.

The Economic Impacts of Port Fourchon on the National and Houma MSA Economies



Released April 2008

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In Cooperation with





EXECUTIVE SUMMARY

Near the mouth of Bayou Lafourche in Lafourche Parish is the equivalent of a small city which is vital to the U.S. energy supply and to the Houma MSA economy. It is Port Fourchon. This port services about 90 percent of all deepwater rigs and platforms in the Gulf of Mexico and it is also the host for the Louisiana Offshore Oil Port (LOOP). We estimate that in 2006 about \$63.4 billion worth of oil and natural gas was tied to this port via the LOOP and the offshore platforms the port helps to service.

The purpose of this report is two-fold. First, we estimate the impact on the U.S. economy of a temporary loss of the services of Port Fourchon. Secondly, we estimate the impact of this port on the Houma MSA economy. Regarding the first task, we use a model developed by Richardson and Scott and the experience from Hurricanes Katrina and Rita to estimate the impact on the U.S. economy of a three-week loss in services from Port Fourchon due to damage from a hurricane, a terrorist attack, or some other destructive phenomenon. We conservatively estimate that a three-week loss in services from Port Fourchon would lead to:

- A loss of \$9,994.7 million in sales at U.S. firms;
- A loss of \$2,890.9 million in household earnings in the U.S., and;
- A loss of 77,440 jobs in the nation.

The longer it takes to restore activity at the port or the longer it takes to shift services to other ports along the coast, the greater these losses will be.

We used a survey of a sample of firms operating at the port in 2006 to generate a "lower bound" estimate of the impact of the port on the Houma MSA economy. This is "lower bound" estimate because we could not secure a 100 percent response rate by firms located at the port to our questionnaire. We did secure data from the largest players at the port, but still we were not able to include data from a non-trivial number of firms that did not respond. Based on the replies we did receive, we estimated the following impacts on the Houma MSA of both on-going activities and construction spending by our sample of firms:

- \$1,501 million in business sales in the MSA are tied to the port;
- \$351.4 million in household earnings of MSA residents can be traced back to the port;
- There are 8,169 jobs in the Houma MSA that are dependent on the presence of the port, and:
- At least \$12,053,899 in sales taxes was collected by local governments in the MSA because of the presence of the port. This figure does not include direct sales taxes or any property taxes paid by these firms.

Though located on a relatively small piece of land, Port Fourchon plays a vital role in both the U.S. and Houma MSA economies.

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THE ECONOMIC IMPACTS OF PORT FOURCHON ON THE NATIONAL AND HOUMA MSA ECONOMIES

I. Introduction

Port Fourchon is located near the mouth of Bayou Lafourche in Lafourche Parish Louisiana. It is the only Louisiana port directly on the Gulf of Mexico. Port Fourchon plays two crucial roles in the US economy: (1) **servicing offshore rigs** in the Gulf of Mexico and (2) serving as a **host for the Louisiana Offshore Port** (LOOP). In terms of service, Port Fourchon provides catering to 90 percent of all deepwater rigs in the Gulf of Mexico and roughly 45 percent of all shallow water rigs in the gulf. The Gulf of Mexico (GOM) accounted for 470.7 million barrels or roughly 80 percent of US offshore oil in 2006. With regard to natural gas, the GOM accounted for 2.9 trillion cubic feet (tcf) of production or 88 percent of total US offshore production in 2005.

The LOOP is the only port in the United States capable of handling Ultra Large Crude Carriers and Very Large Crude Carriers.³ Oil is shipped north to the Galliano Salt Dome. The LOOP had unloaded more than 3.5 billion barrels of oil from over 3000 tankers from its beginning in 1981 to March 2007.⁴ The Greater Lafourche Port Commission reports that the LOOP handles roughly 15 percent of US imports of foreign oil and its pipeline distribution connects to over 50% of US refining capacity. This translates into 1.5 million barrels per day (bd) of oil (1.15 million barrels of imported crude and 350,000 barrels of domestic production).

Given the role of oil and natural gas in our economy, the economic significance of Port Fourchon is apparent. Hollywood took notice of Port Fourchon's importance in the 2005

¹ Great Lafourche Port Commission

² Energy Information Administration, Official Energy Statistics for the United States.

³ Energy Information Administration, State Energy Profiles, www.tonto.eia.doe.gov/state/state_energy_profiles.

⁴ Energy API, http://www.api.org/aboutoilgas/sectors/marine/loop-supertankers.cfm.

television docudrama *Oil Storm*, which begins with the fictional Hurricane Julia "crippling the primary nerve center of the gulf coast petroleum industry at Port Fourchon, Louisiana." The docudrama shows how the effects of that disaster could have significant consequences throughout the United States, even in areas far removed from landfall.⁵ A fictional motion picture is hardly the way to judge the economic importance of Port Fourchon, but the plot does start with an observation of Port Fourchon's crucial role in the US economy.

Servicing Offshore Rigs

To provide a more realistic assessment of the importance of Port Fourchon, Table 1 starts with an estimate of the value of 2006 production serviced by Port Fourchon. The first column contains GOM production data obtained from the US Energy Information Administration. The second column uses the proportion of deepwater and shallow water rigs serviced by Port Fourchon to convert these figures into estimates of production serviced by the port. The final column uses the average 2006 prices, \$66.05 per barrel for oil and \$6.42 per thousand cubic feet (mcf) for natural gas to convert production into dollars. Note that these figures would significantly understate the value of production at current prices as of this report (February 2008).

⁵ Wikipedia, http://en.wikipedia.org/wiki/Oil_Storm.

Table 1
Value of 2006 Oil and Gas Production Serviced by Port Fourchon

		2006 Serviced by Port	
Oil Production	2006 Annual Barrels	Fourchon (Barrels)	Value (\$millions)
Deepwater Gulf	340,936,596	306,842,936	\$20,267.0
Onshore	129,822,673	58,420,203	\$3,858.7
Total			
GOM Production	470,759,269	365,263,139	\$24,125.6
		2006 Serviced by Port	
Gas Production	2006 Annual MCF	Fourchon (mcf)	Value (\$millions)
Deepwater Gulf	1,093,476,288	984,128,659	\$6,318.1
Onshore	1,812,205,568	815,492,506	\$5,235.5
Total			
GOM Production	2,905,681,856	1,799,621,165	\$11,553.6

Host for LOOP

The second component of Port Fourchon's economic contribution is the LOOP. As previously stated, 15 percent of the nation's foreign oil comes through the LOOP (including an increasing amount of domestic deepwater production). Because, we have already accounted for a portion of the deepwater production which flows through the LOOP, consider only imported crude oil handled by the LOOP. US imports of crude oil topped 5 billion barrels in 2006. The LOOP handles an estimated 1.15 million barrels per day or almost 420 million barrels per year. Using the 2006 price of \$66.05 per barrel for oil, this translates into \$27.7 billion of imported oil flowing through Port Fourchon.

Total Value of Oil and Natural Gas Associated with the Port

Table 2 provides a handy summary of the value of oil and natural gas associated with Port Fourchon. The first two rows document the values associated with servicing offshore rigs and the last row shows the value associated with LOOP. A total of over \$63.4 billion in oil and natural gas was supported by Port activities in 2006.

Table 2
Total Value of Oil and Gas Associated with Port Fourchon

Item	Value (\$mm)
Oil Production at Rigs Serviced by the Port	\$24,125.6
Gas Production Serviced by the Port	\$11,553.6
Imported Oil handled by the LOOP	\$27,724.5
Total	\$63,403.7

To the extent that the LOOP handles foreign (Port Fourchon services all domestic oil handled by LOOP) oil not serviced by Port Fourchon, the \$63.4 billion figure is a conservative estimate of the Port's role in the US oil and gas sector. With \$63.4 billion of oil and gas dependent on Port Fourchon, James Erkine and Caroline Levy's decision to focus on this area as the nerve center of US oil production in their movie seems quite logical. With US gross domestic product (GDP) at just over \$13.1 trillion in 2006, the oil and gas production associated with Port Fourchon was just under 0.5% of US GDP. However, given the key role of energy in the US economy, the economic significance of this oil and gas is obviously larger.

II. Impact of Port Fourthon on the U.S. Economy

The figures in Table 2 clearly suggest that Port Fourchon plays an important role in the US economy, but they do not <u>quantify</u> that role. That is one purpose of this study. Perhaps the best way to quantify that role is to attempt to estimate the impact of losing the services of Port Fourchon for a time.

Rather than a fictional movie account, economic data are required for a more serious approach to this problem. Fortunately, Dr. James Richardson and Dr. Loren Scott considered a very similar scenario in their report "The Economic Impact of Coastal Erosion in Louisiana on State, Regional, and National Economies" in February 2004. Unfortunately, many of the conjectures in this study were realized in fall 2005 when Hurricanes Katrina and Rita ravaged the

Louisiana coastline. Our approach will be to review the Richardson and Scott report, compare their predictions to what actually occurred in the fall of 2005, and then evaluate the economic importance of Port Fourchon in the context of these results.

The Richardson/Scott Coastal Study—Impact on Oil

Richardson and Scott focused on losses in access to Louisiana's oil and natural gas production. They evaluated two scenarios, a three week and a five week disruption in supplies. For simplicity, we focus on the three week scenario.

With regard to crude oil, the Richardson and Scott study focused only on the largest economic cost---rising gasoline prices. They argue that a three week disruption to Louisiana's pipeline system would <u>raise gasoline prices by 21.6 cents per gallon</u> nationwide. Over a three-week period, this translates into a \$1.74 billion cost to consumers.

When consumers spend more on gasoline, they tend to cut spending elsewhere to balance the budget, causing the shock to gasoline prices to echo throughout the US economy. Richardson and Scott used the US Bureau of Economic Analysis (BEA) input-output tables to compute the total impact of this disruption in access to Louisiana crude to various parts of the US economy.

Table 3 presents their results. Note on the top row the impacts of this disruption on the total U.S. economy. According to Richardson/Scott, such a disruption would cost the U.S economy (1) nearly \$4 billion in lost business sales, (2) over \$1.1 billion in lost household earnings, and (3) 30,800 jobs.

Table 3
The Impact of a Three-Week Louisiana Oil
Disruption on Sales, Earnings, and Employment

Area	Lost Sales	Lost Earnings	Lost
	(Millions \$)	(Millions \$)	Employment
Continental US	\$3,975.2	\$1,149.8	30,800
Eastern US	\$2,497.7	\$702.0	23,344
Western US	\$344.5	\$19.9	831

Notes: Reprinted from Richardson and Scott, *The Economic Impact of Coastal Erosion in Louisiana on State, Regional, and National Economies*. Continental US totals have been updated based on current BEA RIMS II Input/Output tables.

The Richardson/Scott Coastal Study—Impact on Natural Gas

Richardson and Scott also considered a similar exercise based on a three-week disruption in supplies of **natural gas** from Louisiana. Overall, they project the disruption would lead to an 11.4 percent increase in the price of natural gas. They estimated that the total increased cost to residential, commercial, industrial, and electric power generation users would be approximately \$740 million, with over 70 percent of the increased cost occurring in the Eastern US. Again, the impact ripples throughout the economy. Table 4 contains the total impact of the three-week disruption in natural gas estimated by Richardson and Scott. Note in row 1 that they estimated such a disruption would cost the total U.S economy (1) nearly \$1.7 billion in lost business sales, (2) \$489 million in lost household earnings, and (3) 13,099 jobs.

Table 4
The Impact of a Three-Week Louisiana Natural Gas
Disruption on Sales, Earnings, and Employment

Area	Lost Sales (Millions \$)	Lost Earnings (Millions \$)	Lost Employment
Continental US	\$1,690.6	\$489.0	13,099
Eastern US	\$1,257.3	\$316.4	9,049
Western US	\$198.6	\$48.4	1,290

Notes: Reprinted from Richardson and Scott, *The Economic Impact of Coastal Erosion in Louisiana on State, Regional, and National Economies.*

The Richardson/Scott Coastal Study—Total Impact of Three-Week Disruption

The data in Table 5 summarize the impacts of both the loss of oil production and natural gas production from a three-week disruption on the continental U.S. economy. Such a disruption would cost the U.S. economy (1) nearly \$5.7 billion in lost business sales, (2) over \$1.6 billion in lost household earnings, and (3) 43,899 jobs.

Table 5
The Total Impact of a Three-Week Louisiana Oil & Natural Gas
Disruption on Sales, Earnings, and Employment in the Continental U.S.

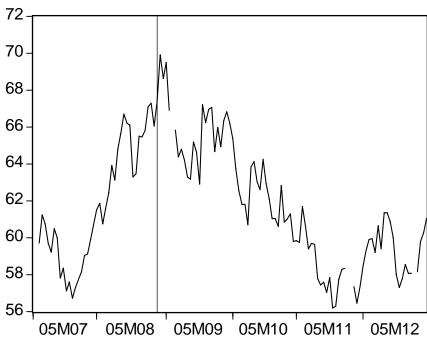
Area	Lost Sales	Lost Earnings	Lost
	(Millions \$)	(Millions \$)	Employment
Lost Oil Impacts	\$3,975.2	\$1,149.8	30,800
Lost Natural Gas Impacts	\$1,690.6	\$489.0	13,099
Total Impacts	\$5,665.8	\$1,638.8	43,899

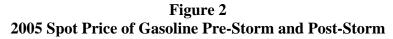
Accuracy of Richardson/Scott Model---Evidence from Katrina/Rita

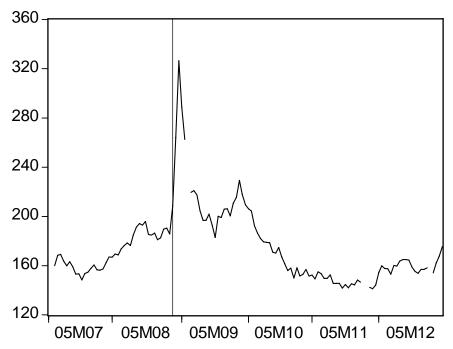
Of course, the accuracy of the results in Tables 3 through 5 depends crucially on the accuracy of the underlying assumptions of the models. Hurricanes Katrina and Rita provide an obvious test of these assumptions.

Figure 1 graphs the daily price of crude oil from July 1 2005 to the end of 2005. The line reflects, August 29, 2005, the day Katrina made landfall. Figure 2 contains a similar graph of the spot price of gasoline in cents, measured at New York Harbor. Both clearly reflect the impact of Hurricane Katrina on the crude oil market and price of gasoline---a fact that is generally consistent with the predictions of Richardson and Scott.

Figure 1 2005 Spot Price of Oil Pre-Storm and Post-Storm







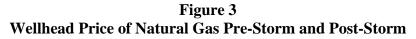
Looking more closely at the data, we can compare the magnitudes of the impacts observed during Hurricanes Katrina and Rita to those projected by Richardson and Scott. Table 6 contains the weekly spot price of gasoline for the three major spot markets reported by the US Energy Information Administration. The results show an average increase of 75 cents, over triple the 21.6 cent increase used by Richardson and Scott, during the first week immediately following Hurricane Katrina. Prices fell during the week of 9/16/2005 and then rose again near the onset of Hurricane Rita. Overall, the results indicate that Hurricanes Katrina and Rita had a larger and longer lasting impact than the three-week 21.6 cent increase used by Richardson and Scott.

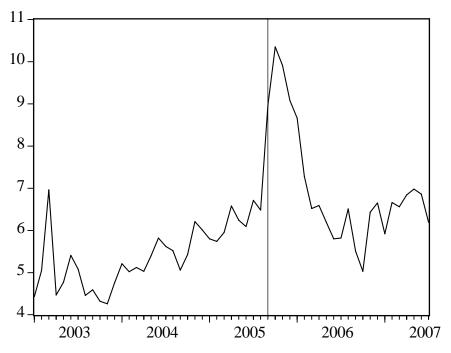
Table 6
Effects of Hurricanes Katrina and Rita on the Price of Gasoline

	New York	US			Average
Date	Harbor	Gulf Coast	Los Angeles	Average	Increase
8/26/2005	\$ 1.86	\$ 1.83	\$ 2.02	\$ 1.91	
9/2/2005	\$ 2.70	\$ 2.61	\$ 2.65	\$ 2.65	\$ 0.75
9/9/2005	\$ 2.16	\$ 2.20	\$ 2.14	\$ 2.16	\$ 0.26
9/16/2005	\$ 1.94	\$ 1.85	\$ 2.11	\$ 1.97	\$ 0.06
9/23/2005	\$ 2.02	\$ 2.25	\$ 2.23	\$ 2.17	\$ 0.26
9/30/2005	\$ 2.17	\$ 2.77	\$ 2.28	\$ 2.40	\$ 0.50
10/7/2005	\$ 1.94	\$ 2.18	\$ 2.04	\$ 2.05	\$ 0.15
10/14/2007	\$ 1.76	\$ 1.86	\$ 1.89	\$ 1.83	\$(0.07)

Source: US Energy Information Administration

With regard to natural gas prices, the US Energy Information Administration only reports monthly prices. The wellhead spot price of natural gas rose from \$6.48 MCF in August 2005 to \$8.96 in September 2005, \$10.35 in October 2005, and \$9.91 in November 2005. Just as with gasoline, the increases due to Katrina and Rita significantly outpaced the 11.4% increase in the price of natural gas used by Richardson and Scott.





Katrina/Rita Effects as Model for Loss of Port Fourchon

Both Richardson and Scott (2004) and the movie *Oil Storm* focus on Port Fourchon as the source of a major disruption to U.S. crude oil and natural gas supplies. We would argue that the impacts of Hurricanes Katrina and Rita serve as a reasonably accurate model of what would happen if the services of Port Fourchon were lost

Some credence for this model can be found in comparing the oil and natural gas lost due to these hurricanes with the production flowing through Port Fourchon. If the amounts are reasonably comparable, that is reassuring evidence that the Richardson/Scott model can be used to estimate the loss of Port Fourchon. By converting the figures in Table 1 to <u>daily</u> production levels, we find the average daily production of rigs serviced by Port Fourchon is just over 1 million barrels of oil per day. In terms of natural gas, just under 5 billion cubic feet per day of

production is serviced by the port. Another 1.15 million barrels per day of imported oil flow through the LOOP.

How does 1 million barrels of crude oil per day production (plus another 1.15 million b/d in the LOOP) and 5 billion cubic feet of natural gas production compare to losses during Hurricanes Katrina and Rita? Table 7 contains a synopsis of the estimated amounts of crude oil and natural gas lost to the U.S. during Hurricanes Katrina and Rita. The level of oil shut in slightly exceeds the production <u>serviced</u> by Port Fourchon but never approaches the sum of production plus the LOOP pipeline. It makes sense that the oil losses would be more associated with the amount serviced by the port versus the amount flowing through LOOP, since LOOP production was hardly impacted by the hurricanes. Though the LOOP pipeline flows through the port, most of the activity at the port is associated with servicing offshore platforms.

Table 7
Effects of Hurricanes Katrina and Rita on U.S. Access to Crude oil and Natural Gas

Week	Crude oil shut in	Natural Gas shut in
2. Aug. 28-Sept. 3	1.4 million barrels/day	8.8 billion cubic feet/day
3. Sept. 4-10	1.2 million barrels/day	5.8 billion cubic feet/day
4. Sept. 11-17	934,000 barrels/day	3.8 billion cubic feet/day
5. Sept. 18-24	1.5 million barrels/day	7.5 billion cubic feet/day
6. Sept. 25-Oct. 1	1.5 million barrels/day	8.05 billion cubic feet/day
7. Oct. 2-Oct.8	1.4 million barrels/day	7.5 billion cubic feet/day
8. Oct. 9-Oct.17	1.06 million barrels/day	6.04 billion cubic feet/day

Source: U.S. Department of Energy, www.energy.gov/news/2404.htm

Note in Table 7 that natural gas shut in hovers at levels slightly above the 5 billion cubic feet level serviced by Port Fourchon. This can be explained by the fact that some of the gas shut in was outside of the port's servicing limit. The bottom line is that the evidence from the impact of Katrina/Rita on oil and gas production suggests the Richardson/Scott model would be a reasonable tool for estimating the loss of Port Fourchon for a period.

Estimating the Loss of Port Fourchon Services for Three Weeks

Using the Richardson/Scott model we are able to estimate the loss of services at Port Fourchon for various time periods. We take the conservative position that some event occurs---a hurricane, terrorist attack, etc.---that causes Port Fourchon to be unable to service offshore extraction activities. We conservatively assume that after a period of three-weeks lost functionality at the port could either (1) be restored at the port or (2) activities could be transferred to other ports in Louisiana, Texas, and/or Mississippi. To the extent that replacement of port activities will take longer than three weeks, our estimates will be significantly understated.

Table 8 contains our estimate of the impact on the U.S. economy of the loss of Port Fourchon activities for a three-week period. Figures in this table were generated using the actual gasoline and natural gas price changes caused by the hurricanes and lost production volumes limited by the port's servicing area.

Table 8
Impact of Three Week Gasoline Disruption on
Continental US Output by Industry

Category	Gasoline Disruption	Natural Gas Disruption	Total Port Impact
Lost Sales	\$6,468.2	\$3,526.5	\$9,994.7
Lost Earnings	\$1,870.9	\$1,020.0	\$2,890.9
Lost Jobs	50,116	27,324	77,440

These estimates demonstrate just how vital this port is to the nation's economy. Just a three-week cessation of port activities would cause **a loss of nearly \$10 billion in sales at U.S. businesses**. About two-thirds of this loss would be due to the interruption of oil production (\$6.5 billion) and about one-third would be due to the loss of natural gas (\$3.5 billion).

Of course a loss in business sales translates into a loss of earnings by U.S. citizens. According to the middle row of Table 8, households in the U.S. would find their **incomes falling** by nearly \$2.9 billion, with the split being again about two-thirds due to oil disruption and one-third due to natural gas shortages. Finally, Table 8 shows the job impact of the loss of Port Fourchon activities. A total of 77,440 jobs would vanish, about 50,116 due to oil disruption and 27,324 due to the loss of natural gas. Note again that these should be considered conservative estimates of the sales, earnings and job losses. If it takes longer than three weeks to restore the port's operations or to shift their activities to other ports the numbers in Table 8 would rise proportionately.

Industry Impacts of Disruption of Port Activities

In Table 8 we presented the total impacts on business sales, household earnings and jobs of the disruption of Port Fourchon activities. In this section we show how the disruption of oil production affects different industries in the country.

Business sales impacts. Back in Table 8 it was shown that the disruption of port activities would create a loss of \$9,994.7 million in business sales in the country. Table 9 illustrates how those losses would be spread across various industries in the country. The biggest losers would be industries in the manufacturing sector with sales losses of just over \$1.6 billion. Over one billion dollars in sales would be lost in real estate (\$1.3 billion), health care (\$1.1 billion), and finance/insurance (\$1 billion).

Table 9
Total Impact of Three Week Disruption on
Continental US Business Sales by Industry

Category	Lost Sales (Millions of \$)
Manufacturing	\$1,627.0
Real estate and rental and leasing	\$1,320.8
Health care and social assistance	\$1,116.9
Finance and insurance	\$1,001.8
Retail trade	\$850.0
Information	\$567.0
Professional, scientific, and technical services	\$510.1
Wholesale trade	\$453.2
Accommodation and food services	\$441.9
Other services	\$428.3
Transportation and warehousing	\$326.4
Administrative and waste management services	\$294.4
Utilities	\$245.9
Total	\$9,994.7

Sources: U.S. Bureau of Economic Analysis RIMS II Input/Output Tables and author's calculations. The total is the sum over all 20 industrial sectors. Only those with over \$200 million in lost sales included in this table.

Household earnings impacts. Table 10 shows how the total of \$2,890.9 million in household earnings losses shown in Table 8 is distributed across industries. Employees in the health care sector would be the biggest losers experiencing a loss of \$521.9 million in earnings. Over \$200 million in household earnings would be lost by workers in finance/insurance (\$320.2 million), manufacturing (\$299.7 million), retail trade (\$298.4 million), and professional/scientific/technical services (\$227.5 million).

Table 10
Total Impact of Three Week Disruption on
Continental US Household Earnings by Industry

Category	Lost Earnings (millions of \$)
Health care and social assistance	\$521.9
Finance and insurance	\$320.2
Manufacturing	\$299.7
Retail trade	\$298.4
Professional, scientific, and technical services	\$227.5
Other services	\$151.8
Wholesale trade	\$151.4
Accommodation and food services	\$130.8
Transportation and warehousing	\$118.1
Administrative and waste management services	\$118.1
Real estate and rental and leasing	\$112.9
Information	\$111.6
Total	\$2,890.9

Sources: U.S. Bureau of Economic Analysis RIMS II Input/Output Tables and author's calculations. The total is the sum over all 20 industrial sectors. Only those with over \$100 million in lost earnings included in this table.

Job impacts. Back in Table 8 we estimated that a three-week disruption in activities at Port Fourchon would create a loss of 77,440 jobs. Table 11 illustrates how those losses would be distributed across various industries in the country. Job losses are especially heavy in the health care industry (-13,233 jobs) and retail trade (-12,145 jobs). Three other sectors would suffer job losses in excess of 5,000 including (1) hotels and restaurants (-7,414 jobs), (2) other services (-5,729 jobs), and manufacturing (-5,267 jobs). There are ten other sectors where job losses would be between 1,500 and 5,000 jobs. Clearly, the loss of Port Fourchon activities for even a short 3-week period would have serious consequences across a wide variety of industries.

Table 11 Impact of Three-Week Disruption on Continental US Employment by Industry

Category	Lost Jobs
Health care and social assistance	13,233
Retail trade	12,145
Accommodation and food services	7,414
Other services	5,729
Manufacturing	5,267
Finance and insurance	4,848
Administrative and waste management services	4,666
Professional, scientific, and technical services	3,791
Real estate and rental and leasing	3,775
Educational services	3,041
Transportation and warehousing	2,801
Wholesale trade	2,572
Arts, entertainment, and recreation	2,175
Agriculture, forestry, fishing, and hunting	1,794
Information	1,674
Total	77,440

Sources: U.S. Bureau of Economic Analysis RIMS II Input/Output Tables and author's calculations. The total is the sum over all 20 industrial sectors. Only those with over 1,000 lost jobs are included in this table.

III. The Impact of Port Fourchon on the Houma MSA

The activities of Port Fourchon play a crucial role in the Houma area economy by creating jobs, earnings and sales for area businesses. Port Fourchon businesses hire workers directly and spend in the community. However the effect doesn't stop there. Like a rock dropped into a pond, the impact of the spending ripples throughout the community. As workers buy groceries at the local market, that creates new jobs at the market and the spending continues as the market hires additional workers. Economists label the first round of spending as the direct effect and the second round as the indirect impact.

Survey of Port Businesses

To measure the direct effect of Port Fourchon businesses, we conducted a survey of businesses at the port. To measure both the direct and multiplier effects of the port firms were asked to provide some rather sensitive information to our team. This information involved requesting both construction expenditure data and annual revenue for 2006. Firms were assured that individual firm information would be kept strictly confidential by our team and that final results would be reported only in aggregate form and in such way that no information on an individual firm would be discoverable.

Not surprisingly, firm were very reluctant to release information that is this sensitive. Initially, responsibility for gathering this information fell to the staff of the South Louisiana Economic Council (SLEC) at Nichols University. Some information was gathered through this group, then follow up phone calls were made by Dr. Loren Scott. Data were gathered from 17 firms that operate at the port. It is important to note that our sample included (1) all of the large firms operating at the port and (2) some of the 17 had several different operations at the port. As an example of the latter, the Edison Chouest Company was one of the 17 responders, but Chouest was responding in aggregate for at least 10 different operational units at the port.

Estimate of the "Direct Effect" of the Port on the MSA

The results from our sample revealed that in 2006 construction expenditures at the port by these firms totaled \$49.3 million. Annual revenues in 2006 of those port businesses exceeded \$922.6 million. These would represent a very conservative estimate of the direct impact of the port on the Houma MSA, because it does not include data from the firms that did not respond to our survey. In effect, these represent dollars that were pumped into the Houma MSA economy that would not have been there if this port had been located somewhere else---say

in Texas or Mississippi. An economist would describe these as the <u>direct effect</u> of the port on the MSA's economy.

Estimate of the "Total Effect" of Construction at the Port on the MSA

The U.S. Bureau of Economic Analysis provides Input/Output tables which allow us to convert these spending and revenue figures into to the total effect (direct and indirect) on employment, earnings, and sales created by Port Fourchon businesses. We first estimate the impact of the **construction spending** on the MSA. We treat construction impacts separately because they (1) vary considerably from year-to-year and (2) they are one-time expenditures, as contrasted to revenues from on-going operations which tend to be more or less repeated each year.

Construction impacts on business sales. As previously stated, \$49.3 million was spent by Port businesses on construction projects in 2006. Tables 12-14 reveal the I/O table estimates of the impact of this construction spending on the MSA economy. Table 12 reveals that these projects translated into over \$106 million in new sales for Houma area business. Not surprising, the largest beneficiary of this spending was the construction sector, where the direct spending originated. However, this construction spending translated into over \$2 million a piece in sales in retail trade (\$6.5 million), real estate (\$4 million), health care (\$3.9 million) and professional/scientific/technical services (\$2.2 million). According to the data in Table 12, there were seven other sectors in the Houma MSA where sales jumped by \$1 million or more due to construction spending at the port.

Table 12
Impact of 2006 Port Fourchon Construction
On Business Sales in the Houma MSA

Category	Sales (Millions of \$)
Construction	\$49.5
Retail trade	\$6.5
Real estate and rental and leasing	\$4.0
Health care and social assistance	\$3.9
Professional, scientific, and technical services	\$2.2
Manufacturing	\$1.8
Wholesale trade	\$1.6
Other services	\$1.4
Accommodation and food services	\$1.4
Transportation and warehousing	\$1.3
Information	\$1.1
Finance and insurance	\$1.0
Total	\$106.1

Sources: U.S. Bureau of Economic Analysis RIMS II Input/Output Tables and author's calculations. The total is the sum over all 20 industrial sectors. Only those with over \$1 million in 2006 sales attributable to Port Fourchon construction are included in this table.

Construction impacts on household earnings. All those new business sales tabulated in Table 12 will result in new household earnings for residents of the MSA. Table 13 details these impacts of construction spending at the port on household earnings. According to the I/O tables, 2006 construction spending at the port created \$28 million in additional earnings for MSA residents. Most of those earnings accrued to workers in the construction sector, where the direct dollars are initially injected. Earnings jumps of \$1 million or more also occurred for workers in the MSA's retail trade (\$2.2 million) and health care (\$1.8 million) sectors.

Table 13 Impact of 2006 Port Fourchon Construction On Household Earnings in the Houma MSA

Category	Earnings (Millions of \$)
Construction	\$19.1
Retail trade	\$2.2
Health care and social assistance	\$1.8
Professional, scientific, and technical services	\$0.9
Wholesale trade	\$0.5
Other services	\$0.5
Total	\$28.0

Sources: U.S. Bureau of Economic Analysis RIMS II Input/Output Tables and author's calculations. The total is the sum over all 20 industrial sectors. Only those with over \$.5 million in 2006 earnings attributable to Port Fourchon construction are included in this table.

Construction impacts on jobs. Finally, Table 14 reports the I/O table estimates of the impact of construction spending at the port on jobs in the MSA. According to the I/O table, construction spending at the port in 2006 supported a total of 868 jobs in the Houma MSA. By way of reference, between December 2006 and December 2007, non-farm employment in this MSA increased by 2,800 jobs. Thus, the jobs supported by construction spending alone at the port were equivalent to about one-third of the entire MSA's job growth in 2007. Most of these jobs---550---were in the construction sector. However, 104 jobs were supported in retail trade, and over fifty were in the health care sector.

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⁶ Louisiana Workforce at a Glance, January 25, 2008, p. 9b.

Table 14
Impact of 2006 Port Fourchon Construction
On Employment in the Houma MSA

Category	Jobs
Construction	550
Retail trade	104
Health care and social assistance	53
Accommodation and food services	30
Other services	23
Administrative and waste management services	20
Professional, scientific, and technical services	19
Wholesale trade	11
Manufacturing	10
Transportation and warehousing	10
Total	868

Sources: U.S. Bureau of Economic Analysis RIMS II Input/Ouput Tables and author's calculations. The total is the sum over all 20 industrial sectors. Only those with 10 or more jobs attributable to Port Fourchon construction are included in this table.

Estimate of the "Total Effect" of On-Going Operations at the Port on the MSA

Tables 15-17 focus on the impact of on-going operations at the port on the Houma MSA economy. Not surprisingly, given almost a billion dollars of revenue, those impacts are quite large.

Operations impacts on business sales. Table 15 documents the I/O estimates of the impact of on-going operations at the port on business sales in the MSA. According to the I/O tables over \$1.4 billion in business sales in the MSA are supported by the presence of the port. By any measure, this is a very significant number. Note in Table 15 that two-thirds of a billion dollars (\$672.4 million) in sales are supported in firms involved in the mining sector due to the presence of the port. This would include firms in the extraction sector, lift ship firms, etc. An estimated \$318.4 million in sales are supported at firm classified in the transportation and warehousing industry. Over \$50 million in sales at firms in the management-of-companies

sector (\$73.6 million) and real estate firms (\$55.3 million) can be traced to the presence of the port in the MSA.

Table 15
Impact of 2006 Port Fourchon Operations
On Business Sales in the Houma MSA

Category	Sales (Millions of \$)
Mining	\$672.4
Transportation and warehousing	\$318.4
Management of companies and enterprises	\$73.6
Real estate and rental and leasing	\$55.3
Health care and social assistance	\$45.5
Manufacturing	\$45.0
Retail trade	\$44.9
Professional, scientific, and technical services	\$31.4
Other services	\$25.8
Wholesale trade	\$25.8
Total	\$1,422.9

Sources: U.S. Bureau of Economic Analysis RIMS II Input/Ouput Tables and author's calculations. The total is the sum over all 20 industrial sectors. Only those with over \$25 million in 2006 sales attributable to Port Fourchon operations are included in this table.

Operations impacts on household earnings. According to the I/O tables, about one-third of a billion dollars (\$324.4 million) in household earnings in the Houma MSA can be traced to on-going operations at the port (see the bottom line of Table 16). As a reference point, this is about equivalent to all the money earned by workers in the MSA's wholesale trade, finance and insurance companies, and real estate/rental/leasing firms combined.⁷

Workers in the MSA's mining sector are particularly big winners from the presence of the port, adding \$128.1 million a year to their pocketbooks. The number two most winning slot

⁷ Regional Economic Information System, Bureau of Economic Analysis, April 2007, cd-rom.

goes to workers in the transportation/warehousing sector where \$58.6 million in household earnings is generated by the presence of the port.

Table 16 Impact of 2006 Port Fourchon Operations On Household Earnings in the Houma MSA

Category	Earnings (Millions of \$)
Mining	\$128.1
Transportation and warehousing	\$58.6
Management of companies and enterprises	\$29.9
Health care and social assistance	\$20.8
Retail trade	\$15.4
Professional, scientific, and technical services	\$13.1
Manufacturing	\$10.8
Other services	\$9.3
Wholesale trade	\$8.6
Finance and insurance	\$5.6
Accommodation and food services	\$5.2
Total	\$323.4

Sources: U.S. Bureau of Economic Analysis RIMS II Input/Ouput Tables and author's calculations. The total is the sum over all 20 industrial sectors. Only those with over \$5 million in 2006 earnings attributable to Port Fourchon operations are included in this table.

Operations impacts on jobs. Finally, Table 17 details the impact of on-going operations at the port on jobs in the MSA. According to the I/O tables there are 7,301 jobs in the MSA that would not be there absent the on-going operations at the port. Almost a third of those jobs are located in the MSA's mining sector. Over a thousand jobs exist in the MSa's transportation/warehousing sector (1,009) because of on-going operations at the port.

Table 17

Impact of 2006 Port Fourchon Operations
On Jobs in the Houma MSA

Category	Jobs
Mining	2,132
Transportation and warehousing	1,009
Retail trade	723
Health care and social assistance	612
Management of companies and enterprises	545
Other services	410
Accommodation and food services	395
Professional, scientific, and technical services	279
Administrative and waste management services	230
Manufacturing	205
Wholesale trade	183
Total	7,301

Sources: U.S. Bureau of Economic Analysis RIMS II Input/Ouput Tables and author's calculations. The total is the sum over all 20 industrial sectors. Only those with 150 or more jobs attributable to Port Fourchon operations are included in this table.

Estimate of the "Total Effect" of Both Construction & On-Going Operations at the Port on the MSA

In Tables 12 through 17 we have documented the impact on the Houma MSA economy of first construction spending and then on-going operations at Port Fourchon in 2006. In Table 18 we sum these two impacts together to get the total impact of all activity at the port in 2006 on the MSA's economy. Recall that our surveys revealed that in 2006, our sample of firms spent \$9.3 million on construction and received \$922.6 million in revenues.

That is a huge amount of money to be circulating in the MSA's economy that would not have been there if this port had been located elsewhere. Consequently, the total impacts on the MSA's economy are quite large. According to the I/O tables, the presence of the port in 2006 created (1) over \$1.5 billion in sales at firms in the MSA, (2) \$351.4 million in household earnings for MSA residents, and (3) 8,169 jobs for citizens of the MSA. It is very important

to note that this is a very conservative estimate of the impact of the port, because the estimate is based on a sample of firms surveyed at the port. Had we received a complete census of responses from port tenants, our impact estimates would have been noticeably larger.

Table 18
Total Impact of Port Fourchon on the Houma MSA Economy in 2006

Category	Total Port Impact
Business Sales (millions)	\$1,501.0
Household Earnings (millions)	\$351.4
Jobs	8,169

Estimate of the Impact on Local Government Sales Tax Collections in 2006

It is possible to use the data in the middle row of Table 18 to generate a lower estimate of the local government sales taxes collected in Lafourche and Terrebonne governments in 2006 because of the presence of Port Fourchon. In 2005, total personal income for this two parish MSA was \$5,175,679,000.⁸ In that same year, local governments in the two parishes collected \$130,755,954 in sales taxes. That is, for every dollar of income earned in these two parishes, local governments collected about 2.5 cents in sales tax collections (\$130,755,954 divided by \$5,175,679,000).

Note in Table 18 that we estimate activities at Port Fourchon in 2006 created \$351.4 million in earnings. Multiplying that figure by 2.5 percent generates a lower estimate of \$12,053,899 in local sales taxes collected in 2006 due to the presence of Port Fourchon. Note that we refer to this as a "lower" estimate. We know the sales impact number is higher because (1) our survey did not capture all the firms operating at the port so our earnings estimate of

⁸ Ibid

\$341.4 million is a lower bound, and (2) our estimates do not include the direct sales taxes paid by the companies at Port Fourchon when they purchased taxable materials and supplies.

Too, notice that the \$12 million figure we estimate is for sales taxes only. These companies also pay property taxes, license fees and other taxes to local government that positively impact local budgets and are not included in our local government revenue estimates.

IV. Summary and Conclusions

Near the mouth of Bayou Lafourche in Lafourche Parish is the equivalent of a small city which is vital to the U.S. energy supply and to the Houma MSA economy. It is Port Fourchon. This port services about 90 percent of all deepwater rigs and platforms in the Gulf of Mexico and it is also the host for the Louisiana Offshore Oil Port (LOOP). We estimate that in 2006 about \$63.4 billion worth of oil and natural gas was tied to this port via the LOOP and the offshore platforms the port helps to service.

The purpose of this report is two-fold. First, we estimate the impact on the U.S. economy of a temporary loss of the services of Port Fourchon. Secondly, we estimate the impact of this port on the Houma MSA economy.

Regarding the first task, we use a model developed by Richardson and Scott and the experience from Hurricanes Katrina and Rita to estimate the impact on the U.S. economy of a three-week loss in services from Port Fourchon due to damage from a hurricane, a terrorist attack, or some other destructive phenomenon. We conservatively estimate that a three-week loss in services from Port Fourchon would lead to:

- A loss of \$9,994.7 million in sales at U.S. firms;
- A loss of \$2,890.9 million in household earnings in the U.S., and;

• A loss of 77,440 jobs in the nation.

The longer it takes to restore activity at the port or the longer it takes to shift services to other ports along the coast, the greater these losses will be.

We used a survey of a sample of firms operating at the port in 2006 to generate a "lower bound" estimate of the impact of the port on the Houma MSA economy. This is "lower bound" estimate because we could not secure a 100 percent response rate by firms located at the port to our questionnaire. We did secure data from the largest players at the port, but still we were not able to include data from a non-trivial number of firms that did not respond. Based on the replies we did receive, we estimated the following impacts on the Houma MSA of both on-going activities and construction spending by our sample of firms:

- \$1,501 million in business sales in the MSA are tied to the port;
- \$351.4 million in household earnings of MSA residents can be traced back to the port;
- There are 8,169 jobs in the Houma MSA that are dependent on the presence of the port, and:
- At least \$12,053,899 in sales taxes was collected by local governments in the MSA because of the presence of the port. This figure does not include direct sales taxes or any property taxes paid by these firms.

Though located on a relatively small piece of land, Port Fourchon plays a vital role in both the U.S. and Houma MSA economies.



Geir Robinson

Director of Claims Gulf Coast Restoration Organization

> BP America, Inc. P.O. Box 3092 Houston, Texas 77253-3092

24 January 2011

Greater Lafourche Port Commission Ms. Serena Bruce P.O. Box # 490 Thibodaux, LA 70354

Re: Claim No. 17-170212-01-2; Greater Lafourche Port Commission, Lost Revenue Related to Reduction of Lease Rates

Dear Ms. Bruce:

The Greater Lafourche Port Commission ("GLPC") has filed a claim for lost revenue resulting from its reduction of lease rates at Port Fourchon. Your Invoice No. 17-170212-01-2 is for \$1,046,290.22. The materials you submitted in connection with this claim clearly indicate that the Port Commission unilaterally and voluntarily reduced the lease rate for its tenants by 30% in response to the federal government's drilling moratorium, and not as a result of any impediment caused by the Deepwater Horizon Incident and the resulting oil spill. Indeed, the letter the GLPC sent to Lessees of Port Fourchon stated that the lease rate was reduced for the period July 1, 2010 to either the end of 2010 or the date upon which "deepwater drilling resumes in the Gulf of Mexico, at which time the Board of Commissioners will reassess the reduction of the Basic Rental." The reduction in the rate was clearly related to the drilling moratorium.

The Oil Pollution Act of 1990 requires a responsible party to reimburse losses of rents and fees, etc., "due to the injury, destruction, or loss of real property, personal property, or natural resources...." 33 U.S.C. $\int 2702(b)(2)(D)$. The lease rate reductions at issue in your claim were not caused by an impact to natural resources, but rather by GLPC's own reaction to the drilling moratorium.

Therefore, we are denying your claim No. 17-170212-01-2 for reduced lease revenue and we are closing our file related to these invoices. We look forward to working with the GLPC on any other claims it might have.

Sincerely.

Geir Robinson

Director of Claims, BP Gulf Coast Restoration Organization