

OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY (OE)
U.S. DEPARTMENT OF ENERGY
Hurricane Katrina Situation Report #24
September 6, 2005 (6:00 PM EDT)

HIGHLIGHTS

- Less than 858,758 customers remain without electric power due to Hurricane Katrina in Louisiana and Mississippi. This is down by more than 1.8 million from a peak of about 2.7 million customers that were without power after Hurricane Katrina struck the region.
- DOE has announced the intent to sell 30 million barrels of crude oil from the Strategic Petroleum Reserve. Offers from interested bidders are due by Friday, September 9; depending on the bids, the amount of oil actually sold could be more or less than 30 million barrels. The delivery date of availability of the crude to the winning bidders is during the month of October, but DOE will release it sooner if a winning bidder can take possession earlier.
- U.S. crude oil futures ended more than \$1 lower today, as oil production and refinery operations slowly returned from the devastation wrought by Hurricane Katrina last week. October crude oil on the New York Mercantile Exchange settled at \$65.96 a barrel, down \$1.61 from Friday's close.
- DOE continues to work with the FEMA HQ Fuel Task Force to examine and mitigate emergency fuel supply issues. Currently there are no major issues in supplying fuel to first responders.
- The LOOP reports that it has two of its three berths open, which allows dual discharging while also eliminating the turnaround time between pumping sessions. The LOOP is currently operating at about 75% of its maximum. Entergy expects to have the LOOP's tank facility power back today, which will allow LOOP to access the special crudes. Outbound deliveries are resuming with the exception of a few large refineries located in the New Orleans area. Entergy is working with GE to obtain a 22 MW generator to provide power to the Fourchon Booster Station. Operations may return to normal by this weekend. Seven ships are awaiting entrance into LOOP. Outbound deliveries are resuming with the exception of a few large refineries located in the New Orleans area.
- ESF-12 was activated by the Federal Emergency Management Agency to support multiple locations. OE staff are at the National Response Coordination Center (NRCC) at FEMA HQ, FEMA Regions IV and VI, and the State Emergency Operation Centers (EOC) in Louisiana and Mississippi.

PETROLEUM AND GAS INFORMATION

- According to Tuesday's MMS reports, 23.4 percent of the 819 manned platforms and 20.2 percent of the 137 rigs are evacuated in the Gulf of Mexico (GOM). Yesterday's shut-in oil production was 870,374 BOPD. The shut-in oil production is equivalent to 58 percent % of the daily oil production in the GOM, which is currently approximately 1.5 million BOPD. This represents a 9 percent improvement from yesterday's figures. Monday's shut-in gas production was 4.160 BCFPD. This shut-in gas production is equivalent to 41.60 percent of the daily gas production in the GOM, which is currently approximately 10 BCFPD. This represents an 11 percent improvement from the previous day's figures.
- There has been significant reduction in the amount of GOM oil and gas shut-in over the past week and in particular over the past 4 days. See table below.

Improvement in GOM Shut-in Oil and Gas Over the Past Week

Date	Percent of GOM Oil Shut-in	Percent of GOM Gas Shut-in
August 30	95.2%	87.99%
August 31	91.45%	83.46%
September 1	90.43%	78.66%
September 2	88.53%	72.48%
September 3	78.98%	57.80%
September 4	No data reported	
September 5	69.57%	54.13%
September 6	58.02%	41.06%

- As of 9:00 PM 9/5, at least 55 miles of the Gulf Intracoastal Waterway were still closed to navigation (from Mile Marker 15 to Mile Marker 70.) This is in the area between the Lower Mississippi and Gulfport, Mississippi. The US Coast Guard is surveying the waterway and replacing navigational aids at a rate of about 20 miles per day. At this rate the entire waterway should be open between the Lower Mississippi and all points east by the end of Wednesday. The Port of Gulfport is still closed and the Port of Pascagoula is only allowing vessels to operate in the day, if they have draughts of less than 12 feet. Other ports east of Pascagoula (in AL and FL) are open.
- Port of Mobile is operating during daylight hours only with temporary navigation aids in place. **The Mississippi River is now officially open to ships with a draft of 39 feet during daylight hours.** The US Army Corps of Engineers is currently dredging the channel so that Shell Oil company's dock can receive a 40-foot draught crude oil tanker (arriving in a few days), to traverse channel and safely dock and unload. Currently the channel to Shell can only take ships with a draught of 38 feet or less.

- The Table below shows, as of September 5, the current status of the refineries impacted by Hurricane Katrina. Refineries in the Midwest are now receiving crude oil supplies off the Capline pipeline.

Table 1. Shutdown Refineries

Refinery	Location	State	Capacity (bbl/day)	Current Status
Shell Chemical	Saraland	AL	80,000	No information – unable to contact
ConocoPhillips*	Belle Chasse	LA	247,000	No power - major damage
ExxonMobil	Chalmette	LA	187,200	No power - water damage
Marathon	Garyville	LA	245,000	Restarting – will be fully operational by the end of today
Motiva (Shell)	Convent	LA	235,000	Restarting – may be fully operational in a few days
Motiva (Shell)	Norco	LA	226,500	Limited damage, continue to make repairs - may restart by mid-week
Murphy	Meraux	LA	120,000	No power – water is starting to recede, currently making assessment of damage, leaking crude oil tank repaired
Shell Chemical	St Rose	LA	55,000	No information – unable to contact
Valero	St. Charles	LA	185,000	Restarting; may take up to two weeks to be operational – unable to contact
ChevronTexaco*	Pascagoula	MS	325,000	Damage unknown – assessment being made

Table 2. Refineries with Reduced Runs

Refinery	Location	State	Capacity (bbl/day)	Current Status
Marathon	Catlettsburg	KY	222,000	Maintenance; will be at full capacity by Tuesday morning
ConocoPhillips*	Lake Charles	LA	239,400	Returning to full rate
ExxonMobil*	Baton Rouge	LA	493,500	Ok – fully operational, receiving SPR
Valero	Krotz Springs	LA	80,000	Close to 100 percent; fully operational tomorrow Expecting full rate by Tuesday – receiving SPR
Total*	Port Arthur	TX	211,500	OK - fully operational, receiving SPR

Table 3. Refineries at Normal Production

Refinery	Location	State	Capacity (bbl/day)	Current Status
ConocoPhillips	Wood River	IL	306,000	OK
ExxonMobil*	Joliet	IL	238,000	OK
PDV Midwest	Lemont	IL	160,000	OK
Marathon	Robinson	IL	192,000	OK
BP	Whiting	IN	410,000	OK – receiving SPR
Citgo*	Lake Charles	LA	324,300	OK
Placid Oil*	Port Allen	LA	48,500	OK – receiving SPR
Marathon	Detroit	MI	74,000	OK
BP	Toledo	OH	160,000	OK – receiving SPR
Marathon	Canton	OH	73,000	OK
Premcor	Lima	OH	158,400	OK – receiving SPR
Premcor*	Memphis	TN	180,000	OK – receiving SPR
ExxonMobil*	Beaumont	TX	348,500	OK
Motiva (Shell)*	Port Arthur	TX	285,000	OK
Premcor	Port Arthur	TX	247,000	OK

* Refineries with company owned and operated on-site power generation.

ELECTRICITY INFORMATION

STATE OUTAGE DATA

Utility	Customers w/o Power	% Customers w/o Power from Katrina
Louisiana	529,105	54%
Mississippi	329,653	23%

*Louisiana data is reported by the Louisiana Public Service Commission and their percentage outage numbers are used in calculating the percentage of total outage.

STATE REPORTS

Mississippi and Louisiana

- Louisiana has 529,105 customers remaining without power, as reported by the Louisiana Public Service Commission (2:00 PM 9/6/05). This represents about 54 percent of customers in the state. About 414,000 of these are serviced by Entergy. See table below.

Louisiana Outage Data

UTILITY	OUTAGES	% customers w/o power
Entergy Louisiana	216,903	50%
Entergy Gulf States	75	<1%
Entergy New Orleans	197,749	92%
DEMCO	2,307	6%
SLECA	362	2%
Wash-St. Tammany	43,909	98%
CLECO	67,800	85%
Total	529,105	54%

- As of 12:00 PM Tuesday 9/6, Mississippi has 329,653 customers without power, which represents 23 percent of customers in the state, including 41,358 Entergy customers, 104,000 Mississippi Power customers, and 184,295 Mississippi Electric Power Association customers.
- Mississippi Power re-energized several substations on Sunday including Picayune, Bay St. Louis and Waveland, Richton, Poplarville, Shubuta and Carriere. Transmission service to substations serving the company’s wholesale rural electric customers continues. The few remaining delivery points are expected to be completed in the next day or two. Mississippi Power expects to have nearly 9,200 outside workers overall. The company reports that it will take months to restore the system to normal but has released restoration goals for restoring service to customers who can receive power. These goals include:

 - September 6: Ocean Springs
 - September 7: Leakesville, Lucedale, Meridian, Richton
 - September 8: Bay St. Louis, Long Beach, Wiggins/Saucier
 - September 9: Pascagoula/Moss Point, Pass Christian, DeLisle
 - September 10: Hattiesburg, Laurel
 - September 11: Biloxi, Gulfport, Picayune, Poplarville
- At 10:00 AM 9/6, Entergy’s transmission system had 46 lines and 36 substations out of service. Overall, restoration of the transmission system is progressing well except in the areas impacted by flood waters or security issues.
- Natural gas utilities from as far away as the Pacific Northwest have offered their assistance to the affected utilities of Entergy, CenterPoint, Mobile Gas and Atmos Energy in the Gulf Coast states. Loaned crews and equipment will be arriving into these areas.
- Entergy reports that there has been extensive damage to Entergy’s gas distribution system which has affected service to many of Entergy’s 147,000 natural gas customers in New Orleans. Entergy will have to shut off gas service in many areas of the New Orleans before repairs can be made. This will help reduce gas leakage in the city which will help with public safety and aid in restoration of the gas system. **Natural gas is critical to operating the water**

and sewage system pumps, and hospitals. Work crews will work to cap any broken natural gas mains, while maintaining gas flow to critical facilities.

Florida

- The State of Florida reported today that it received a shipment of fuel at its Pensacola Port. The Port of Pensacola is open to receive tanker truck deliveries from Mobile, Niceville, Freeport, Bainbridge, and Jacksonville. Florida officials anticipate it will take several weeks for supply and demand to stabilize to pre-storm levels.