

**OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY (OE)**  
**U.S. DEPARTMENT OF ENERGY**  
**Hurricane Katrina Situation Report #33**  
**September 12, 2005 (3:00 AM EDT)**

**HIGHLIGHTS**

- Currently, 435,966 customers remain without electric power in Louisiana and Mississippi due to Hurricane Katrina – this is an improvement of over 35,500 customers from yesterday’s situation report. This is down by over 2.2 million from a peak of 2.7 million customers that were without power after Hurricane Katrina struck the region.
- Entergy reports that transmission line work to the LOOP’s Fourchon facility is complete and that service was switched on at 6:30PM yesterday. This will restore additional offshore crude oil to refineries.
- NOAA reported this morning that tropical storm Ophelia is now located about 205 miles east-southeast of Charleston South Carolina, or about 260 miles south-southwest of Cape Hatteras, North Carolina. Ophelia is moving toward the west at nearly two miles per hour and a gradual turn toward the Northwest at a slow forward speed is expected during the next 24 hours. Its outer rainbands are very near the coast of the Carolinas. Maximum sustained winds are near 70 miles per hour with higher gusts. The storm may again strengthen into a hurricane during the next 24 hours. Tropical storm force winds extend outward 160 miles from the center.  
<http://www.nhc.noaa.gov/text/refresh/MIATCPAT1+shtml/120844.shtml>
- Warning of the possibility of coastal flooding from Hurricane Ophelia, Gov. Michael F. Easley of North Carolina has sent 200 National Guard soldiers to staging centers and ordered a mandatory evacuation of tourists on Ocracoke Island, on the Outer Banks (which is reachable only by ferry).
- NOAA on 9/11 issued another space weather warning for a power solar flare. NOAA cautions communications groups are already experiencing problems due to this activity. Electrical power systems are at increasing risk for service disruptions. The utilities through the ES ISAC are aware of the solar activity and possible geomagnetic effects. No electrical power system problems have been reported to DOE at this time.
- The U.S. Nuclear Regulatory Commission has authorized the restart of the Waterford Nuclear Plant, near Taft, Louisiana. Workers are performing maintenance unrelated to the hurricane prior to initiating procedures leading to restart of the reactor.
- The Brunswick nuclear reactor, on the southern coast of NC, is currently under a hurricane watch due to Hurricane Ophelia. All systems have been checked and are operating properly. If there is a hurricane warning, the unit must be in hot shutdown within two hours of winds reaching 73 mph.

- The Louis Armstrong New Orleans International Airport has set Tuesday, September 13, as the date to re-open the Airport to scheduled passenger air service following the aftermath of Hurricane Katrina. Cargo flights will resume immediately. Armstrong International Airport has been operational since Tuesday, August 30, for humanitarian relief flights and civilian and military rescue efforts.
- On 9/9/05, the Environmental Protection Agency extended two waivers for the Richmond, VA, and Atlanta, GA, areas. A second reformulated gasoline (RFG) waiver for the Richmond, VA, area was issued due to continued shortages of RFG. The waiver, which expired on 9/9/05, is now extended through September 23, 2005. A second extension was issued for counties in the Atlanta area waiving gasoline RVP and sulfur regulations until midnight on October 5, 2005.
- DOE staff are at the National Response Coordination Center (NRCC) at FEMA HQ, the Interagency Incident Management Team at HQ, FEMA Region IV, and the State Emergency Operation Centers (EOC) in Louisiana and Mississippi for several weeks. DOE staff have been deployed in North Carolina and South Carolina as part of the Ophelia Preparedness Plan. The FEMA Region IV office in Atlanta has resumed 24/7 operations.

## **PETROLEUM AND GAS INFORMATION**

- According to MMS reports on 9/12, 12.82 percent of 819 manned platforms and 2.24 percent of 134 rigs remain evacuated in the Gulf of Mexico (GOM). Today's shut-in oil production is 860,636 BOPD. The shut-in oil production is equivalent to 57.38 percent of the normal daily oil production in the GOM, which is currently approximately 1.5 million BOPD. Shut-in gas production was 3.784 BCFPD. This shut-in gas production is equivalent to 37.84 percent of the normal daily gas production in the GOM, which is currently approximately 10 BCFPD.
- **Improvement in GOM Shut-in Oil and Gas 8/30/05 – 9/10/05**

<b>Date</b>	<b>Percent of GOM Oil Shut-in</b>	<b>Percent of GOM Gas Shut-in</b>
August 30	95.20	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	No data reported
September 5	69.57	54.13
September 6	58.02	41.06
September 7	57.37	40.36
September 8	60.12 *	40.20
September 9	59.88	38.29
September 10	59.84	38.21
September 11	No data reported	No data reported
September 12	57.38	37.84

\*Oil Production Shut-ins continue to decline, despite the apparent rise in the figures released by MMS. According to MMS, this rise in the statistics occurred today because a company just reported a significant amount of shut-in oil production today that has been shut-in since the hurricane hit, but was not reported as such due to communications problems.

- **The repair or replacement of flooded substations will delay restoration of transmission service to several refineries downstream of New Orleans. Inspection of customer facilities is required before service can be restored.**
- According to the U.S. Coast Guard, Mobile Bay is open to all traffic with a draft of 43 feet or less. The Mobile River is open to all traffic with a draft of 40 feet or less. Theodore Channel is open to all traffic with a draft of 37 feet or less. The Port of Gulfport is now open to all traffic with a draft of 30 feet or less for daylight transit only. The Gulf Intracoastal Waterway is open to all traffic from the Inner Harbor Navigational Canal in New Orleans to MM 350 (Aucilla River, FL). The Baptiste Collete alternate route is open to vessels with a draft of 9.5 feet or less. The US Coast Guard reports that the Captain of the Port New Orleans has established a safety zone on the Lower Mississippi River from the Southwest Pass sea buoy to mile marker 116. All vessels with a draft of greater than 39 feet can only transit the area in daylight and with the permission of the Captain of the Port New Orleans. Note that the Inner Harbor Navigational Canal in New Orleans is still closed to all vessels.
- **The State University of New York Maritime College reported that its training ship, the 565-foot Empire State VI, will be utilized to berth up to 700 ConocoPhillips employees and contract workers as they begin repairs on strategic infrastructure and facilities at ConocoPhillips’ oil refinery in Belle Chasse, Louisiana. The ship should arrive in New Orleans on September 16th.**
- **The tables below show no change in the five shutdown refineries and company confirmation of status of two refineries with reduced runs.**

**Table 1. Shutdown Refineries**

Refinery	Location	State	Capacity (bbl/day)	Current Status
ConocoPhillips*	Belle Chasse	LA	247,000	No power - major damage
ExxonMobil	Chalmette	LA	187,200	No power - water damage
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	Awaiting Norco restart
ChevronTexaco*	Pascagoula	MS	325,000	Damage unknown – assessment being made

**Table 2. Refineries with Reduced Runs**

Refinery	Location	State	Capacity (bbl/day)	Current Status
Motiva (Shell)	Convent	LA	235,000	Restarted – <b>company confirmed</b> that refinery should reach full production this week.
Motiva (Shell)	Norco	LA	226,500	<b>Restarted – company confirmed</b>

## ELECTRICITY INFORMATION

### **STATE OUTAGE DATA**

<b>Utility</b>	<b>Customers w/o Power</b>	<b>% Customers w/o Power from Katrina</b>
Louisiana*	344,850	31%
Mississippi	91,116	6%

\*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

- In Louisiana 344,850 customers remain without power, as reported by the Louisiana Public Service Commission (LAPSC) (5:30 AM 9/12/05 latest report).

### **Significant Louisiana Outage Data by Parish (5:30 AM 9/12/05)**

<b>UTILITY</b>	<b>OUTAGES</b>	<b>% customers w/o power</b>
Jefferson	61,923	30%
Lafourche	1,749	3%
Livingston	1,271	3%
Orleans	176,292	86%
Plaquemines	7,619	81%
St. Bernard	28,308	99%
St. Tammany	49,633	46%
Tangipahoa	2,787	5%
Washington	14,297	54%

\*Louisiana data and percentages are reported by the Louisiana Public Service Commission. Only Parishes with outages of more than 1,000 customers are shown

### **Louisiana Outage Data by Utility (5:30 AM 9/12/05)**

<b>UTILITY</b>	<b>OUTAGES</b>	<b>% customers w/o power</b>
Entergy Louisiana	102,830	22%
Entergy Gulf States	286	>1%
Entergy New Orleans	176,292	86%
DEMCO	1,533	2%
SLECA	362	2%
Wash-St. Tammany	31,650	70%
CLECO	31,897	39%
<b>Total</b>	<b>344,850</b>	<b>31%</b>

\*Louisiana data and percentages are reported by the Louisiana Public Service Commission.

- As of 8:05 AM 9/11/05, Mississippi had 91,116 customers without power, which represents 7 percent of customers in the state, including 25,451 Mississippi Power customers and 65,665 customers of the Electric Power Associations of Mississippi (EPAOFMS). Mississippi Power, Entergy and TVA have completed initial restoration activities to customers able to receive power.
- Mississippi Power has completed initial restoration efforts and 6,500 workers were released to assist other companies as of 9/11/05. Mississippi Power will keep some workers for at least a few days to continue restoring service to customers when they are able to receive power.
- Entergy reports that they have sufficient generation on-line to support southeast Louisiana requirements.
- The repair or replacement of flooded substations will delay restoration of transmission service to several key loads, including refineries downstream of New Orleans, but customers have extensive damage as well. In flooded areas the safety of customer's facilities must be validated by the applicable local authorities before service can be restored. The repair and inspection of customer facilities may constrain restoration in some areas.