

**OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY (OE)**  
**U.S. DEPARTMENT OF ENERGY**  
**Hurricane Katrina Situation Report #31**  
**September 10, 2005 (11:00 AM EDT)**

**HIGHLIGHTS**

- Currently, 589,737 customers remain without electric power in Louisiana and Mississippi due to Hurricane Katrina – this is an improvement of 17,818 from last night’s situation report. This is down by over 2.1 million from a peak of 2.7 million customers that were without power after Hurricane Katrina struck the region.
- Louisiana Department of Agriculture and Forestry (LADF) reports that a number of distribution refueling areas have been set up that allows trucks to deliver fuel to generators more quickly. A system is now in place to handle requests for large bulk fuel requests.
- DOE has received numerous reports of oil companies donating fuel, trucks, and drivers to aid in the restoration relief.
- The Department of Energy is working with the US Army Corps of Engineers to identify portable generator needs. Multiple generators are en-route from a DOE National Nuclear Security Administration site in Tennessee to various locations in Mississippi.
- NOAA on 9/9 issued another space weather warning for a power solar flare. NOAA cautions that satellite and communications groups are already experiencing problems due to this activity. Other agencies impacted by space weather are at increasing risk for service disruptions. This includes other space activities, electric power systems, high frequency communications and navigation systems such as global positioning systems.
- 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.
- The LOOP expects to be operating at 100 percent within the next week, when Fourchon becomes operational. Currently the LOOP is still operating at 75 percent.
- Mississippi Power reports that over 90% of those customers who can receive power will be back in service by 9/10. Some customers are currently unable to receive power.
- Ophelia officially became a hurricane again today, and virtually all weather models now predict a landfall somewhere along the U.S. Atlantic Coast.

- DOE staff are at the National Response Coordination Center (NRCC) at FEMA HQ, the Interagency Incident Management Team at HQ, FEMA Regions IV and VI, and the State Emergency Operation Centers (EOC) in Louisiana and Mississippi. FEMA Region VI will be deactivated today with staff going to Baton Rouge, LA. We are in the process of dispatching two teams for deployment tomorrow 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, so we will dispatch a relief crew there as well.

**PETROLEUM AND GAS INFORMATION**

- According to MMS reports on 9/10, 14.9 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 897,605 BOPD. The shut-in oil production is equivalent to 59.8 percent of the daily oil production in the GOM, which is currently approximately 1.5 million BOPD. Shut-in gas production was 3.821 BCFPD. This shut-in gas production is equivalent to 38.21 percent of the daily gas production in the GOM, which is currently approximately 10 BCFPD.

**Improvement in GOM Shut-in Oil and Gas 8/30/05 – 9/8/05**

Date	Percent of GOM Oil Shut-in	Percent of GOM Gas Shut-in
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

\*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.

**Status of Natural Gas Processing Plants (9/9/05 3PM):**

A total of 15 natural gas processing plants in the states of Alabama, Mississippi and Louisiana, were impacted either due to flooding, damage to equipment or power failure. (Note: there are a total of 572 natural gas processing plants in the US and around 75% of total marketed gas production is processed prior to delivery to energy markets).

Seven out of fifteen impacted plants have started operating again. This includes two CrossTex plants, Gibson and Plaquemine; four Enterprise Products plants, Calumet, Neptune, North Terrebone, and Pelican; and one Williams Midstream plant in Mobile Bay. It appears that only a few plants have sustained damage and could take a few weeks for them to come online again.

Natural Gas Processing Plant	State	Capacity as of Jan 1, 2005 (MMcfd)*	2004 Average Throughput (MMcfd)**	Current Status
Duke Energy – Mobile Bay	AL	600	172	Available for service but waiting on pipeline outlet for liquids.
BP - Pascagoula	MS	1000	768	Power restored. Waiting for pipelines to deliver gas.
Dynegy – Venice	LA	1300	997	Seawater damage. Could take 3-6 months to repair.
Dynegy - Yscloskey	LA	1850	1343	Seawater damage. Could take 3-6 months to repair.
Enterprise Products – Toca	LA	1100	468.4	Assessment ongoing.
ExxonMobil – Garden City	LA	630	NA	Waiting on power
ExxonMobil – Grand Isle	LA	115	72	Waiting on power
Marathon – Burns Point	LA	200	60	Waiting on power

\* Capacity in MMcfd (Million cubic feet per day) \*\* Average throughput based on average of 12 months for 2004 (Data from Worldwide Gas Processing Survey, Oil and Gas Journal, June 27, 2005 issue)

- 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.
- No current updates on refineries. See Situation Report 9/9/05 #30 for latest data.
- The U.S. Coast Guard, the Environmental Protection Agency and the state of Louisiana are working together with local industries to recover spilled oil and mitigate further environmental damage. The following table summarizes oil discharges and recovery efforts in Louisiana identified in a USCG Press Release last night.

Company / Location	Oil Discharged	Oil Recovered
Murphy Oil near Chalmette	16,000 bbl, mostly into secondary containment at refinery	1,645 bbl with vacuum trucks and drum skimmers
Shell Southern LA	10,000 bbl from above ground tank into Pilot town tank farm area	6,200 bbl via booms
	250 bbl from 20" pipeline in Nairn	Cleaning up; pipeline secured
Bass Enterprises	81,000 bbl from 2 storage tanks into secondary containment	Contained and transferring oil to a barge
Chevron Empire	23,000 bbl into secondary containment	Contained and being pumped out
Chevron Pipeline	200 bbl into West Bay	100 bbl evaporated; 100 bbl

near Venice		oil/water mix recovered
Venice Energy Tante Phine Pass	Unknown bbl into secondary containment	Beginning recovery
Chevron Pipeline near Venice	200 bbl into West Bay	100 bbl evaporated; 100 bbl oil/water mix recovered
Venice Energy Tante Phine Pass	Unknown bbl into secondary containment	Beginning recovery

## **ELECTRICITY INFORMATION**

### **STATE OUTAGE DATA**

<b>Utility</b>	<b>Customers w/o Power</b>	<b>% Customers w/o Power from Katrina</b>
Louisiana*	427,647	39%
Mississippi	162,090	11%

\*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 427,647 customers remain without power, as reported by the Louisiana Public Service Commission (LAPSC) (8:00 AM 9/10/05 latest report).

#### **Significant Louisiana Outage Data by Parish (8:00 AM 9/10/05)**

<b>UTILITY</b>	<b>OUTAGES</b>	<b>% customers w/o power</b>
Jefferson	112,122	54%
Lafourche	1,810	3%
Livingston	2,101	4%
Orleans	181,645	88%
Plaquemines	3,013	32%
St. Bernard	28,308	99%
St. Tammany	70,728	66%
Tangipahoa	8,723	15%
Washington	17,719	67%

\*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 (8:00 AM 9/10/05)**

<b>UTILITY</b>	<b>OUTAGES</b>	<b>% customers w/o power</b>
Entergy Louisiana	157,354	33%
Entergy Gulf States	0	0%

<b>Entergy New Orleans</b>	181,645	88%
<b>DEMCO</b>	1,533	2%
<b>SLECA</b>	362	2%
<b>Wash-St. Tammany</b>	40,650	90%
<b>CLECO</b>	46,103	57%
<b>Total</b>	<b>427,647</b>	<b>39%</b>

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

- As of 8:00 AM 9/10/05, Mississippi had 163,388 customers without power, which represents 11 percent of customers in the state, including 6,750 Entergy customers, 50,988 Mississippi Power customers, and 105,650 customers of the Electric Power Associations of Mississippi (EPAOFMS).
- Entergy Mississippi reported that 44 utilities and contractors are supporting restoration efforts. Entergy Louisiana reported that 85 utilities and contractors are supporting restoration efforts. Tables showing companies supporting Entergy appear in Situation Report #30 9/9/05.
- Mississippi Power reports that over 9,200 transmission and distribution workers from around the country have been brought into the area to assist with the effort. See table below for utilities and contractors assisting Mississippi Power.

**Mississippi Power – Utilities and Contractors Supporting Electricity Restoration**

AEP	Didado Electric, Inc.	MJ Electric, Inc.	SPE Utility
Allegheny Power	Dillard Smith	NE Utilities	State Electric Corp.
Asplundh	DTE Energy	Nelson Tree Service,	Sumter Utilities
Construction	Ertel Contruction,	Inc	Texas Electric
Asplundh Tree	Inc.	Osmose	Texas/New Mexico
Expert Co.	Henkles & McCoy	PAR	Thiro USA, Inc.
B & B Electric	J.Wm. Foley, Inc.	PECO	Townsend Tree Service
Bison Electric	Kent Power	Pike Electric Co. OH	Trees, Inc.
Bluegrass Central	Kentucky	Poor Boy	U.L.C.S.
C & C Power	Utilities/LG&E	Power Line	Utility Services
Chain Electric	Lewis Tree Service,	Consulting	Welsbach Electric Corp.
Con Edison	Inc.	PSE&G	Williams Electric
Davis H.	MasTec North	Riggs Distler & Co.,	Wolf Tree Experts, Inc.
Elliot/Oklahoma	America	Inc.	
Davey Tree Expert	Michels Power	SCE & Gas	
Co.		Service Electric	