

OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY (OE)
U.S. DEPARTMENT OF ENERGY
Hurricane Katrina Situation Report #32
September 11, 2005 (11:00 AM EDT)

HIGHLIGHTS

- Currently, 471,549 customers remain without electric power in Louisiana and Mississippi due to Hurricane Katrina – this is a significant improvement, over 118,000 customers restored, from yesterday’s situation report. This is down by close to 2.2 million from a peak of 2.7 million customers that were without power after Hurricane Katrina struck the region.
- 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 plant shut down as a precautionary measure on Aug. 28 when a warning for Hurricane Katrina was issued for St. Charles Parish, La., where the plant is located. Once operational, Waterford will supply electricity to support recovery of the regional infrastructure.
- Shell expects about 60% of its total Gulf of Mexico (GOM) production will be restored to pre-hurricane levels within Q4, 2005.
- Two Shell refineries: Motiva Convent and Motiva Norco – that had been affected were expected to return to pre-hurricane levels by the middle of next week.
- Shell reported yesterday that 100 percent of Shell-branded stations in Baton Rouge are operating, and 12 percent of locations in New Orleans have reopened. There are 42 other Shell-branded wholesale locations in the southern parts of Alabama, Louisiana and Mississippi impacted by Hurricane Katrina that are still being assessed.
- All Entergy electricity customers who can receive power in Mississippi have been restored.
- Mississippi Power exceeded its own 13-day goal of restoring power to all customers by 9/11 by restoring power by the end of 9/10. A total of 12 days was needed to restore power to all customers who could receive power. As the company’s restoration is completed, crews are being released to assist other companies. Many of the Georgia Power crews assisting Mississippi Power have left to prepare for the potential of Ophelia making landfall somewhere near their home areas.

- NOAA (8 AM EDT 9/11) reports that that Hurricane Ophelia has maximum sustained winds near 85 MPH and little change in strength is forecast during the next 24 hours. Hurricane force winds extend outward up to 30 miles from the center and tropical storm force winds extend outward up to 150 miles. At 8 AM EDT the center of Hurricane Ophelia was located about 255 miles east-southeast of Charleston, South Carolina and about 255 miles south of Cape Hatteras, North Carolina.
<http://www.nhc.noaa.gov/text/refresh/MIATCPAT1+shtml/110841.shtml>
- 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.
- 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.
- 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 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 – 9/10/05**

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. **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.**
- **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 9/9/05.

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 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
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ELECTRICITY INFORMATION

STATE OUTAGE DATA

Utility	Customers w/o Power	% Customers w/o Power from Katrina
Louisiana*	384,965	35%
Mississippi	86,584	7%

*Louisiana data is reported by the Louisiana Public Service Commission and their percentage outage numbers are used in calculating the percentage of total outage. Most recent information is from 6:00 PM 9/10/05.

STATE REPORTS

Mississippi and Louisiana

- In Louisiana 384,965 customers remain without power, as reported by the Louisiana Public Service Commission (LAPSC) (6:00 PM 9/10/05 latest report).

Significant Louisiana Outage Data by Parish (6:00 PM 9/10/05)

UTILITY	OUTAGES	% customers w/o power
Jefferson	87,544	42%
Lafourche	1,766	3%
Livingston	1,725	4%
Orleans	179,522	87%
Plaquemines	3,013	32%
St. Bernard	28,308	99%
St. Tammany	58,556	54%
Tangipahoa	7,015	12%
Washington	16,025	61%

*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 (6:00 PM 9/10/05)

UTILITY	OUTAGES	% customers w/o power
Entergy Louisiana	129,558	28%
Entergy Gulf States	0	0%
Entergy New Orleans	179,522	87%
DEMCO	1,533	2%
SLECA	362	2%
Wash-St. Tammany	36,050	79%
CLECO	37,200	46%
Total	384,965	35%

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

- As of 8:00 AM 9/11/05, Mississippi had 86,584 customers without power, which represents 7 percent of customers in the state, including 28,542 Mississippi Power customers and 58,042 customers of the Electric Power Associations of Mississippi (EPAOFMS). Entergy and TVA have completed initial restoration activities to customer able to receive power.
- Mississippi Power reported that 53 outside utilities and contractors had been supporting their restoration efforts. The table showing the list of companies supporting Mississippi Power appeared in Situation Report #31, 9/10/05.