

OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY (OE)
U.S. DEPARTMENT OF ENERGY
Hurricane Katrina Situation Report #34
September 13, 2005 (3:00 PM EDT)

HIGHLIGHTS

- Currently, 403,672 customers remain without electric power in Louisiana and Mississippi due to Hurricane Katrina. This is down by about 2.3 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. Presuming that there are no difficulties encountered, this will restore additional offshore crude oil will be available to refineries.
- NOAA reported at 11:00AM 9/13 that tropical storm Ophelia is now located about 130 miles south of Wilmington N.C. and about 120 miles east-southeast of Charleston S.C. Ophelia is moving at 3 MPH north-northwestward towards the southeastern U.S. Maximum sustained winds are near 70 miles per hour with higher gusts. Tropical storm force winds extend outward 160 miles from the center with the strongest winds located some 50-60 miles from the center. <http://www.nhc.noaa.gov/>
- 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.
- 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 for several weeks. DOE staff have been deployed in North Carolina and South Carolina as part of the Ophelia Preparedness Plan. DOE staff at the FEMA Region IV office in Atlanta have resumed 24/7 operations.

PETROLEUM AND GAS INFORMATION

- According to MMS reports on 9/13, 10.62 percent of 819 manned platforms and 1.49 percent of 134 rigs remain evacuated in the Gulf of Mexico (GOM). Today's shut-in oil production is 846,720 BOPD. The shut-in oil production is equivalent to 56.45 percent of the normal daily oil production in the GOM, which is currently approximately 1.5 million BOPD. Shut-in gas production is 3.72 BCFPD. This shut-in gas production is equivalent to 37.2 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 – 9/13/05

| 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 |
| September 11 | No data reported | No data reported |
| September 12 | 57.38 | 37.84 |
| September 13 | 56.45 | 37.20 |

*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.
- 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, which should be soon |
| 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 – company confirmed that refinery should reach full production this week. |
| Motiva (Shell) | Norco | LA | 226,500 | Restarted – operating at 95% |

ELECTRICITY INFORMATION

STATE OUTAGE DATA

| Utility | Customers w/o Power | % Customers w/o Power from Katrina |
|--------------------|----------------------------|---|
| Louisiana* | 319,345 | 29% |
| Mississippi | 84,327 | 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 319,345 customers remain without power, as reported by the Louisiana Public Service Commission (LAPSC) (9:00 AM 9/13/05 latest report).

Significant Louisiana Outage Data by Parish (9:00AM 9/13/05)

| UTILITY | OUTAGES | % customers w/o power |
|--------------------|----------------|------------------------------|
| Jefferson | 50,528 | 24% |
| Lafourche | 1,232 | 2% |
| Orleans | 173,605 | 84% |
| Plaquemines | 5,773 | 62% |
| St. Bernard | 28,308 | 99% |
| St. Tammany | 44,038 | 41% |
| Tangipahoa | 1,161 | 2% |
| Washington | 14,312 | 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 with Significant Outages (9:00AM 9/13/05)

| UTILITY | OUTAGES | % customers w/o power |
|--|----------------|------------------------------|
| Entergy Louisiana | 89,604 | 19% |
| Entergy New Orleans | 173,605 | 84% |
| Wash-St. Tammany | 26,019 | 57% |
| CLECO | 29,702 | 29% |
| Total for state shown includes companies with low percentage outages not shown in the Table | 319,345 | 29% |

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

- Mississippi had 84,329 customers without power, which represents 6 percent of customers in the state, including 25,451 Mississippi Power customers and 58,878 customers of the

Electric Power Associations of Mississippi (EPAOFMS) based on a report from the Mississippi EOC 9/12/05. Mississippi Power, Entergy and TVA have completed restoration activities to all customers able to receive power. Given the manner in which utilities count “customers”, there have been some seeming data anomalies during the restoration process. A building with one power meter is generally counted as one customer by utilities. If an apartment building is destroyed, for example, and several mobile units are established to house the former inhabitants, each with a separate meter, the result is an actual increased number in the total number of customers reported by the utility servicing them.

- Entergy reports that 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.
- Entergy reports that in flooded section of New Orleans restoration will take extended time - months - to restore. Six of their substations within the city have been reenergized and some distribution has been restored on a very limited basis.
- Ten of Entergy’s seventeen generating units in the New Orleans area that are fueled by natural gas and/or oil have been returned to service. Several of the units that are currently offline operate only a few days out of the year during peak periods.