

OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY (OE)
U.S. DEPARTMENT OF ENERGY
Hurricane Katrina Situation Report #13
August 31, 2005 (6:00 PM EDT)

HIGHLIGHTS

- About 2.3 million customers remain without electric power due to Hurricane Katrina in Louisiana, Mississippi, Alabama, Florida, and Georgia (see table below).
- Extensive flooding continues to be a major issue for electricity restoration as is the unprecedented scope of the damage. Availability of line crews is also an issue. As Florida utilities finish their restoration work their crews will begin to head towards other states. Crews from other states are also beginning to arrive to assist in the restoration.
- ESF-12 has been activated by the Federal Emergency Management Agency to support multiple locations. OE staff are now at the National Response Coordination Center (NRCC) at FEMA HQ, FEMA Regions IV and VI, and the State Emergency Operation Centers (EOC) in Alabama, Louisiana, and Mississippi.
- The Waterford III Nuclear Power plant sustained no damage except to buildings off site. Post disaster preparations are being initiated by FEMA and the NRC to clear the facility for a restart.
- Electricity outages are a major issue in restoration of the Colonial Pipeline and the Plantation Pipeline. Key pump stations in LA and MS are without power. The LA Public Service Commission is working with power companies to assess the situation and provide guidance on priorities. FEMA Region IV is working with the MS EKOC on the same subject.
- More detail about the status of the Colonial Pipeline and the LOOP is below (see Petroleum and Gas section).
- EPA issued waivers for all 50 states to make fuel available to first responders that is currently restricted due to Clean Air Act restrictions. EPA will allow all parties in the fuel distribution system to supply and sell a 9.0 – 11.5. RVP gasoline and a 500 ppm-sulfur diesel with visible red dye. OE worked with EPA to obtain the waivers, which are effective immediately and will run through Sept. 15.
- Secretary Bodman announced that DOE has already approved one request for loans of crude oil from the Strategic Petroleum Reserve.

PETROLEUM AND GAS INFORMATION

- MMS reports (MMS news release #3329 8/31/05) that of the 70 companies reporting, 482 platforms and 79 rigs have been evacuated. Oil production shut in is 1,371,814 barrels per day, which represents 91 percent of daily oil production in the Gulf. Natural gas production shut in is 8,345 billion cubic feet per day, or 83 percent of daily gas production. Evacuations represent 59 percent of platforms and rigs operating in the Gulf of Mexico. For companies reporting to MMS, cumulative shut in production for the period 8/26/05 – 8/31/05, represents about 1 percent each of the yearly production of oil and natural gas in the Gulf of Mexico. www.mms.gov
- The LOOP has suffered minimal damage at a booster station and the storage terminal. Emergency generators are in place and repairs are scheduled. Deliveries from the St. James Terminal are expected to commence tomorrow.
- The Strategic Petroleum Reserve at New Orleans Elmwood complex remains shut down. Bayou Choctaw, Bryan Mound, Big Hill and West Hackberry sites, however, are operational and will be able to provide crude oil in the loan program noted above.
- Colonial and Plantation petroleum product pipelines, which provide the majority of gasoline, diesel fuel, and jet fuel to the Southeast, Mid-Atlantic, and Northeast states, have not been operating due to loss of power at key pump stations in LA and MS.
 - Colonial, however, is starting up pump stations and will monitor movements through MS. Starting this afternoon, they will operate at reduced throughput (750,000 million barrels per day) until generators are activated at inactive pump stations. At that time, production will increase to 1.2 to 1.3 million barrels per day. Further increases cannot be made until normal power is restored. The capacity of Colonial is about 2.4 million barrels per day. Colonial has surveyed the affected pipeline and has not seen any hazardous conditions.
 - Plantation pipeline plans to restart their system manually. They are also looking at a work-around and hope to be up to 50% of normal throughput by Friday
- Capline, a crude oil pipeline serving the Midwest, is planning to restart operations in the next day or two. Power has been restored to almost every pumping station. Capline plans to restart this evening and has sufficient supply at St. James Terminal to run at reduced rates for three days.
- Gulf Coast refiners dependent upon sour crude supplies (Mars and Poseidon) will not be able to obtain new supplies as long as the production platforms remain closed.
- The following table displays refineries located in states impacted by Hurricane Katrina:

LA/MS/AL – Gulf Coast Refiner Impacts

Refinery	Location	State	Capacity (bbl/day)	Impact
ExxonMobil	Baton Rouge	LA	493,500	Reduced Runs
Valero	Krotz Springs	LA	80,000	Reduced Runs
Placid Oil	Port Allen	LA	48,500	Reduced Runs
ConocoPhillips	Belle Chasse	LA	247,000	Shutdown
Marathon	Garyville	LA	245,000	Shutdown; minor damage
Motiva (Shell)	Convent	LA	235,000	Shutdown
Motiva (Shell)	Norco	LA	226,500	Shutdown
Shell Chem	St Rose	LA	55,000	Shutdown
Chalmette	Chalmette	LA	187,200	Shutdown
Valero	St. Charles	LA	185,000	Shutdown; 1 or 2 weeks; water damage
Murphy	Meraux	LA	120,000	Shutdown
ChevronTexaco *	Pascagoula	MS	325,000	Shutdown
Shell Chem	Saraland	AL	80,000	?

Port Arthur/Lake Charles Refiner Impacts

Refinery	Location	State	Capacity (bbl/day)	Impact
ExxonMobil	Beaumont	TX	348,500	OK
Motiva (Shell)	Port Arthur	TX	285,000	OK
Premcor	Port Arthur	TX	247,000	OK
Koch *	Corpus Christi	TX	156,000	OK
Total	Port Arthur	TX	211,500	Reduced Runs (Mars)
Citgo *	Lake Charles	LA	324,300	Tot Supply Loss (1)
ConocoPhillips *	Lake Charles	LA	239,400	Tot Supply Loss (1)

(1) Due to Calcasieu Ship Channel is closed and Offshore Production Shut-In

Capline Pipeline – Midwest Refiner Impacts

Refinery	Location	State	Capacity (bbl/day)	Impact
BP	Whiting	IN	410,000	Reduced Runs
BP	Toledo	OH	160,000	Reduced Runs
ExxonMobil	Joliet	IL	238,000	None
PDV Midwest	Lemont	IL	160,000	OK; LOOP delivery
Marathon	Robinson	IL	192,000	Reduced Runs
Marathon	Catlettsburg	KY	222,000	Reduced Runs
Marathon	Detroit	MI	74,000	OK
Marathon	Canton	OH	73,000	OK
ConocoPhillips	Wood River	IL	306,000	Reduced Runs; Supply Loss
Premcor	Memphis	TN	180,000	Reduced Runs

* 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 (1)
Alabama	310,047	18.5%
Florida	80,705	<1%
Georgia	12,500	<1%
Louisiana	863,652	41%
Mississippi	990,425	70%
Total	2,257,329	16%

(1) based on reported outages/14,966,077 (total customers in states shown as reported by EIA)

STATE REPORTS

Alabama

- Alabama Power reports that as of 1 p.m. Wednesday, 310,047 customers were without power. Alabama Power has set 99 percent restoration goals according to the following schedule:
 - In Anniston and surrounding areas - restored by end of today
 - In Birmingham and surrounding areas - restored by end of day 9/2
 - In the Tuscaloosa area - restored by end of day 9/4
 - In the Mobile area - restored by end of day 9/7.
- Restoration to 99 percent of customers in the Eufaula and Montgomery areas has been completed. Crews from utilities as far away as New York, New Jersey, Massachusetts, Ohio and Oklahoma will be supporting Alabama Power in its restoration efforts. Additional crews are limited, however, as help is also needed in hard hit areas in Mississippi, and Louisiana. Katrina is the second-worst storm in the Alabama Power history in terms of outages, but company officials estimate it may be the worst in terms of damage to the company's system.
- Alabama Power has at least 700 poles down and almost 6,400 spans of distribution wire down. The company has warned customers that although crews have already restored power to many of the customers who lost power during Katrina, remaining outages may take longer to restore.

Mississippi

- Approximately 990,400 (as of 8/31/05 3:00 PM) customers are without power in Mississippi due to Katrina. This is an increase from the morning report. Of these, 233,136 are in the Entergy service area, 195,000 are in the Mississippi Power service area, 449,000 are in the Mississippi Electric Power Association service area, and 113,289 are in the TVA area.
- Mississippi Power estimates that about 70 percent of its 8,000 miles of transmission and distribution lines will need to be repaired or replaced. Over 2,500 outside crews arrived Tuesday to provide assistance. About 5,000 outside crews are expected to be available by

Thursday. Mississippi Power estimates that it may take as long as four weeks to restore power in hard hit areas.

Louisiana

- Louisiana Public Service Commission reports approximately 863,700 customers, or 41% of the 2.1 million customers in the state, are without power (as of 11:00 AM 8/31/05). This is an increase from this morning's situation report. 702,309, or 81 percent of outages, are Entergy customers.
- Entergy expects a long and difficult restoration. It will restore service first to areas not inhibited by flood waters. Entergy has 6,000 line and vegetation workers committed to restoring service and is working to bring in more. Entergy is in contact with other utilities and contract workers to bring in additional workers and pre-position as many out-of-state utility crews as possible to quickly move in to help restore service.

Louisiana Outages by Major Utility (8/31/05 11:00 AM)

Electric Utility	Customers w/o Power	% customers w/o power(1)
Entergy Louisiana Inc	421,390	64%
Entergy Gulf States Inc	76,681	22%
Cleco Power LLC	79,672	31%
Entergy New Orleans Inc	215,163	100%
Dixie Electric Membership Corp	36,774	43%
Washington-St Tammany E C, Inc	20,000	48%
South Louisiana Elec Coop Assn	13,912	72%
City of Morgan	60	<1%

(1) % w/o power = reported outages/number of utility customers as reported by EIA Electric Sales and Revenues 2003

Florida

- Approximately 80,700 customers, 1 percent of customers in the state, remain without power in Florida due to Katrina. This includes 69,450 Florida Power & Light customers and 11,255 Gulf Power customers. All Cooperative customers have been restored. FPL expects to restore all of Broward County customers by Thursday night, and all of Miami-Dade by Friday night. They report that as soon as work is completed in Florida, line personnel and contractors will support restoration efforts in other parts of the Gulf Coast area. Gulf Power anticipates the remaining 11,255 will have power today. Gulf Power plans to send crews on 9/1 to support Mississippi Power restoration efforts.