



U.S. Department of Energy
Emergency Support Function 12

Hurricane Gustav Situation Report # 10

September 6, 2008 (11:00 AM EDT)

http://www.oe.netl.doe.gov/emergency_sit_rpt.aspx

Summary

Table with 3 columns: Impacted State, Electric Customer Outages, % of State Out. Includes sub-sections for Electricity and Petroleum & Natural Gas.

Total state customers are based on 2006 EIA Customer Data. Data obtained from State agencies and company websites. Note: due to a large number of service providers, including investor owned utilities and cooperatives, the number of customer outages reported may not be comprehensive.

Source:

- Crude Oil and Natural Gas Production Data from Minerals Management Service.
Refinery Status confirmed by company or on company web site and through various trade press sources.
* % capacity out represents percent of production capacity in the Gulf of Mexico.

Highlights:

- In the States of Arkansas, Louisiana and Mississippi, as of approximately 10:00 AM EDT September 6, there are 545,191 customers reported without power, including 526,125 in Louisiana, 9,866 in Mississippi, and 9,200 in Arkansas. This represents a decrease of 142,530 customers without power from Situation Report #9 when 687,721 customer outages were reported. Since that report, power has been restored to 127,979 customers in Louisiana, 13,476 customers in Arkansas, and 1,075 customers in Mississippi.
On September 5, the Environmental Protection Agency (EPA), in collaboration with the Department of Energy, issued a multi-state emergency fuel waiver, due to the consequences of Hurricane Gustav and the pending shortages and damage expected from Tropical Storm Hanna. EPA moved to waive the 7.0/7.8 psi Reid Vapor Pressure (RVP) maximum and ethanol additive federal requirement for gasoline in the states of AL, GA, LA and NC through September 15. The waivers will allow the use of 9 psi RVP fuel. The justification for the EPA waiver is that shutdowns of several Gulf Coast area petroleum refiners and widespread power outages in LA



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caused the curtailment in production and delivery of low volatility gasoline. On August 31, EPA waived the requirement for reformulated gasoline in the state of Texas through September 8.

- On September 4, Federal Energy Regulatory Commission (FERC) granted Entergy a waiver of the one-month minimum term for unit power sales and resales between the Entergy operating companies to permit the affected Entergy operating companies to enter into transactions for periods shorter than one month. FERC also is allowing Entergy's operating companies to enter into transactions that include capacity from the Grand Gulf nuclear power plant without advance FERC approval. These waivers will be in effect only where an Entergy operating company has experienced a significant loss of load as a result of the hurricane, and only until the emergency conditions from the hurricane have subsided.
- As of 10:00 AM EDT September 5, the LOOP reported that it has resumed tanker offloading and made its first pipeline delivery.
- Shell reports that it is moving crude oil through the Capline from Liberty, MS to the pipeline's termination point in Patoka, IL. Shell is also working to restart the pipeline from St. James, LA today (September 6) using a combination of portable generators and local utility power as it comes online.
- As of 3:00 PM EDT, September 5, Shell reports it planned to complete testing of the Houma-to-Houston Crude Oil System and anticipates some crude movements today (September 6).
- As of 1:00 PM EDT, September 5, the Gulf Intracoastal Waterway (GIW) is open from the Louisiana/Mississippi border (mile marker 40) east to St. Marks, FL. The U.S. Coast Guard reports that most of the GIW in Louisiana is open. Use of the Inner Harbor Navigation Canal in New Orleans is limited. The Mississippi River is open with regular draft restrictions from mile 303 to mile 20, but movement is restricted in some areas of the lower Mississippi above mile 150 to daylight hours for vessels with drafts greater than 30 feet. The Houma Navigational Canal is now open. The Morgan City - Port Allen alternate route is open; but effectively closed at the Bayou-Sorrel Pontoon Bridge. Mobile Harbor, AL is open, but some draft restrictions are back in effect for Mobile Bay (44 feet), Mobile Bar (46 feet), and the Mobile River (39 feet). Port Fourchon has opened for vessels with drafts less than 18 feet.

ESF 12 Actions:

- ESF-12 personnel are staffing the FEMA Region VI Regional Response Coordination Center (RRCC) in Denton, TX, FEMA Region VI Joint Field Office (JFO) in Baton Rouge, LA, the FEMA Region IV RRCC in Atlanta, GA, the FEMA Region III RRCC in Philadelphia, PA and the National Response Coordination Center (NRCC) in Washington, DC.

Situation Report Detail

Petroleum & Gas Information



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Oil & Gas Offshore Production Shut In Status for Affected Area

Location	Amount Shut In	Pre-event Production	% Shut In
Crude Oil (B/D)	1,176,738	1,300,000	90.5%
Natural Gas (MMCF/D)	5,907	7,400	79.8%

Source: Minerals Management Service

- As of 12:30 PM EDT, September 5, the Minerals Management Service (MMS) reports 5,907 million cubic feet per day (MMcf) of the Gulf’s natural gas production remains shut-in, equivalent to 79.8 percent of the Gulf production. MMS reports 1,176,738 barrels/day of the Gulf’s crude production remains shut-in, equivalent to 90.5 percent of the Gulf’s crude production. A total of 334 production platforms, or 46.6 percent of the Gulf’s 717 manned platforms, have been evacuated. Personnel from 34 rigs, representing 28.1 percent of those operating in the region, had been removed.
- As of September 5, six refineries are still shut down in Louisiana: ConocoPhillips’ Alliance in Belle Chasse, Motiva’s Convent, Murphy’s Meraux, Shell’s Saint Rose, Alon’s Krotz Springs, and Valero’s Norco. Six Louisiana refineries are in restart: Chalmette’s Refining’s Chalmette, ConocoPhillips’ Westlake, ExxonMobil’s Baton Rouge, Marathon’s Garyville, Motiva’s Norco, and Placid Refining’s Port Allen. One Louisiana refinery, Citgo’s Lake Charles, is operating at reduced runs.
- Plantation has received generators and expects to increase flows on the line. Colonial pipeline is operating on reduced flows. In addition, Centennial pipeline is working to restart its operations.
- As of 6:00 PM EDT September 4, the Strategic Petroleum Reserve (SPR) reports that the status of its facilities has not changed. The Bryan Mound, TX, Big Hill, TX, and West Hackberry, LA facilities are operational. Its facility in Bayou Choctaw, LA, remains shut down due to lack of commercial power.
- As of 7:00 AM EDT, September 6, there are five natural gas pipelines reporting no gas flow from offshore points: Manta Ray Offshore Gathering (restart estimated Sep. 8), Mississippi Canyon Pipeline (restart estimated Sep. 10), Nautilus Pipeline Co. (restart estimated Sep. 9), Venice Gathering System (restart TBD), and offshore points along Destin Pipeline Co. Garden Banks Gas Pipeline is fully operational and ready to flow gas; however, the interconnecting pipelines upstream are not accepting flow at this time. The pipelines, currently flowing at reduced rates or have portions of their system shut-in, continue to conduct inspections at their facilities.
- As of 6:00 PM EDT, September 5, there are 10 confirmed natural gas processing plants that remain shut down, but are ready to operate once power is restored and/or gas flow from upstream commences service. **Currently, 15 plants that have resumed operations either at reduced or normal levels.** Four plants that are shut down have reported that clean up and restoration efforts are underway. Currently, there is no timeline of when these facilities will return to service.

Restoration Updates:



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- Power has been restored to nearly all customers in Arkansas and Mississippi.
- As of 10:00 AM EDT September 6, Entergy has restored power to more than 500,000 customers in Louisiana, Mississippi, and Arkansas who lost power due to Hurricane Gustav. Entergy reports that its restoration rate surpasses that accomplished following either Katrina or Rita.
- As of 6:00 PM September 5, SLEMCO has restored power to nearly 76,000 customers.
- Entergy estimates electric power service will be restored to New Orleans customers by Monday night September 8. Electric power restoration estimates for all Entergy customers are shown in the table below.

Electric Power Restoration Estimates for Entergy Customers

Estimated date for 100% restoration	Parishes
September 5	Caldwell, Catahoula, Concordia, Franklin, Grant, LaSalle, Lincoln, Natchitoches, Ouachita, Richland, Tensas
September 6	Avoyelles, Jackson, Sabine, Winn
September 8	Acadia, Lafayette, Orleans, St. Landry, Vermillion
September 9	Jefferson (upper portion, including Metairie and Kenner), Livingston, St. Helena, St. Tammany, Tangipahoa, Washington
September 10	Ascension (except Donaldsonville), St. James, St. John the Baptist
September 12	Pointe Coupee, West Baton Rouge, West Feliciana
September 15	Jefferson (lower portion only), Plaquemines, St. Bernard, St. Charles
September 16	East Feliciana
September 24	Ascension (Donaldsonville only), Assumption, East Baton Rouge, Iberville, St. Martin
October 1	Terrebonne, Lafourche

- Entergy is making steady progress in Arkansas and expects to restore power to most customers by September 6.
- Over 14,000 workers are assisting in restoration of the Entergy system. This includes 3,000 Entergy workers and contract employees plus 11,000 from 25 states, the District of Columbia and Canada.
- DEMCO continues to repair the damage to infrastructure resulting from Hurricane Gustav and is receiving assistance from 2,000 workers from more than eight states. It has restored power to more than 25,000 customers.