



U.S. Department of Energy
Emergency Support Function 12

Hurricane Gustav Situation Report # 14
September 10, 2008 (12:00 PM EDT)
http://www.oe.netl.doe.gov/emergency_sit_rpt.aspx

Summary

Electricity		
Impacted State	Electric Customer Outages	% of State Out
Louisiana	135,897	6%
TOTAL:	135,897	
Petroleum & Natural Gas		
	Amount	% Capacity Out*
Crude Oil Production Shut-In (b/d)	1,007,389	77.5%
Natural Gas Production Shut-in (mmcf/d)	4,795	64.8%
Refinery Capacity Shut down (b/d)	247,000	NA

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 State of Louisiana, as of approximately 10:00 AM EDT September 10, there are 135,897 customers reported without power. This represents a decrease of 55,576 customers without power from Situation Report #13 when 191,473 customer outages were reported. Since that report, power has been restored to 55,261 customers in Louisiana. Power has been fully restored to customers in Mississippi. See Restoration Updates below.
- As of the morning (September 10), the Nuclear Regulatory Commission reports that the Waterford 3 nuclear unit is restarting and has powered up to 18% of its capacity. River Bend nuclear unit is still shut down.
- As of 10:00 AM September 10, the U.S. Coast Guard reports that In the New Orleans area, a safety zone remains in place from the locks of the Inner Harbor Navigation Canal to mile marker 11 East of Harvey Locks. The Lower Mississippi River is open with regular draft restrictions to mile marker 303 **except for a safety zone restricting vessels with drafts greater than 30 feet above Mile Marker 191 to mile marker 303 for daylight transit only**



U.S. Department of Energy Emergency Support Function 12

ESF 12 Actions:

- ESF-12 personnel are en route to FEMA Region VI Joint Field Office in Austin, TX today, September 10, in preparation for Hurricane Ike. ESF-12 is staffing the FEMA Region VI Regional Response Coordination Center (RRCC) in Denton, TX, the FEMA Region VI Joint Field Office (JFO) in Baton Rouge, LA, and the National Response Coordination Center (NRCC) in Washington, DC. The FEMA Region IV RRCC in Atlanta, GA has been demobilized.

Situation Report Detail

Petroleum & Gas Information

Oil & Gas Offshore Production Shut In Status for Affected Area			
Location	Amount Shut In	Pre-event Production	% Shut In
Crude Oil (B/D)	1,007,389	1,300,000	77.5%
Natural Gas (MMCF/D)	4,795	7,400	64.8%

Source: Minerals Management Service

- As of 12:30 PM EDT, September 9, the Minerals Management Service (MMS) reports 4,795 million cubic feet per day of the Gulf’s natural gas production remains shut-in, equivalent to 64.8 percent of the Gulf production. MMS reports 1,007,389 barrels/day of the Gulf’s crude production remains shut-in, equivalent to 77.5 percent of the Gulf’s crude production. A total of 167 production platforms, or 23.3 percent of the Gulf’s 717 manned platforms, have been evacuated. Personnel from 44 rigs, representing 36.4 percent of those operating in the region, have been removed. Off shore shut-in rates are beginning to increase due to Hurricane Ike.
- On the evening of September 8, 2008, DOE initiated the delivery of 250,000 barrels of oil from the Strategic Petroleum Reserve to Marathon Petroleum Company’s Midwest refineries along the Capline pipeline system. The oil was requested by Marathon because of disruptions in supply caused by Hurricane Gustav.
- As of this morning, September 10, there are no refinery status changes from yesterday’s report.
- As of 7:00 AM EDT September 10, there are three natural gas pipelines reporting no gas flow from offshore points and the pipelines’ force majeure remains in effect as a result of Hurricane Gustav:
 - Mississippi Canyon Pipeline (restart TBD),
 - Venice Gathering System (restart TBD), and
 - Offshore points along Destin Pipeline Co.
- Natural Gas producers, pipeline and processing plant operators are closely monitoring Hurricane Ike and some facilities are taking advanced precaution to shut-in and shut down operations. There are no reports of processing plants shutting down at this time due to the approaching



U.S. Department of Energy Emergency Support Function 12

Hurricane Ike. As of 9:00 AM EDT September 10, four natural gas pipelines have reported force majeure and have shut-in their systems in preparation for Hurricane Ike:

- Enbridge UTOS
 - Stingray Pipeline Co
 - Garden Banks Gas Pipeline
 - Manta Ray Gathering
-
- As of 11:00 AM EDT September 10, there are three processing plants that are ready to operate (capable to restart) once power is restored and/or gas flow from upstream commences service. Currently, 24 plants have resumed operations either at reduced or normal levels (14 plants reporting reduced levels and 10 plants that are operating at normal levels). There are four plants that are shut down which includes one plant that remains shut down due to scheduled maintenance, the latter expects to restart by September 10. See table below.
 - As of 10:00 AM EDT, September 10, Texas Gas Transmission has notified that customers can resume gas flow deliveries to the Eunice gas processing plant in Acadia Parish, LA.
 - As of 9:00 AM EDT, September 10, Discovery Gas Transmission reports that all receipt and delivery points along their system are available to flow gas. The Larose processing plant in Lafourche Parish, LA will operate at reduced levels until the gas flow increases.



**U.S. Department of Energy
Emergency Support Function 12**

Natural Gas Processing Plants in the Path of Gustav						
Plant Name	Location	Capacity (million cubic feet per day) ¹				
		Design System Operation	Shut Down	Capable to Restart ²	Operating at Reduced Level	Back to Normal
Yscloskey	St. Bernard, LA	1,850	1,850			
Calumet	St. Mary, LA	1,680			1,680	
North Terrebonne	Terrebonne, LA	1,350			1,350	
Venice	Plaquemines, LA	1,300	1,300			
Eunice	Acadia, LA	1,200			1,200	
Toca I & II	St. Bernard, LA	1,100				1,100
Bluewater	Acadia, LA	950			950	
Sea Robin	Vermilion, LA	950			950	
Neptune	St. Mary, LA	650			650	
Larose	Lafourche, LA	600			600	
Pelican	St. Mary, LA	600		600		
Patterson II	St. Mary, LA	600			600	
Cameron Meadows	Cameron, LA	500			500	
Iowa Gas	Jefferson Davis, LA	500				500
Grand Chenier II	Cameron, LA	400				400
Sabine Pass	Cameron, LA	300			300	
Stingray	Cameron, LA	300		300		
Lowry	Cameron, LA	265			265	
Barracuda	Cameron, LA	225				225
Baton Rouge	W. Baton Rouge, LA	225			225	
Plaquemine	Iberville, LA	225		225		
Gillis	Calcasieu, LA	180				180
Dubach Plant	Lincoln, LA	175				175
Burns Point	St. Mary, LA	160	160			
Mobile Bay (Williams)	Mobile, AL	700			700	
Mobile Bay (Duke)	Mobile, AL	300	300			
Yellowhammer	Mobile, AL	200				200
Pascagoula	Jackson, MS	1,500			1,500	
Port Arthur	Jefferson, TX	200				200
Markham	Matagorda, TX	300				300
West Beaumont	Jefferson, TX	100				100

¹ The capacity in each column represents the design capacity of the plants and does not represent the actual gas flow through these plants.

² Those plants that are capable to restart after electricity is restored or when upstream gas flow commences service.

Sources: Confirmed by company or on company web site. Various trade press sources.

Restoration Updates:

- As of 6:00 AM EDT September 10, Entergy has restored power to more than 846,000 customers in Louisiana, Mississippi, and Arkansas who lost power due to Hurricane Gustav. Power has been restored to all Entergy customers in Arkansas and Mississippi. See table below on restoration progress in Louisiana. Entergy reports that its restoration rate surpasses that accomplished following either Katrina or Rita.



**U.S. Department of Energy
Emergency Support Function 12**

Restoration Progress in Louisiana as of September 10, 2008 7:00 AM EDT*

Utility Name	Peak Outages	Customers Restored	Current Outages	Percent Restored
Entergy Gulf States, Entergy Louisiana, and Entergy New Orleans (combined)	828,982	711,392	117,590	86%
CLECO Power	246,092	246,043	49	100%
SWEPCO	8,562	8,562	0	100%
All Cooperatives	272,327	254,069	18,258	93%
Totals	1,355,963	1,220,066	135,897	90%

*Peak totals based on LA State PSC reports with the exception of Entergy. Entergy outages are based on Entergy's website

- Entergy reports as of 6:30 AM EDT September 10, remaining damage to the transmission system includes 33 lines and 18 substations, down from a peak of 241 transmission lines and 352 substations immediately following the storm. More than 8,200 poles, 12,500 spans of wire and 1,900 transformers have been confirmed as damaged or destroyed.
- Entergy has restored power to Orleans and Washington Parishes.
- Entergy currently has nearly 13,000 workers continuing restoration work in Louisiana.
- 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 9	Jefferson (upper portion, including Metairie and Kenner), Livingston, St. Helena, St. Tammany, St. Landry, 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