



U.S. Department of Energy  
Office of Electricity Delivery & Energy Reliability

**Hurricane Isaac Situation Report # 14**  
**September 5, 2012 (3:00 PM EDT)**

[http://www.oe.netl.doe.gov/emergency\\_sit\\_rpt.aspx](http://www.oe.netl.doe.gov/emergency_sit_rpt.aspx)

**Highlights:**

- Hurricane Isaac made its first landfall on Tuesday, August 28 at 7:45 pm EDT in Plaquemines Parish, LA. Isaac made a second landfall along the coast of southeast Louisiana, just west of Port Fourchon, at 3:15 am EDT on Wednesday, August 29.

**Summary**

Electric Outages by State				
Impacted State	Current Customer Outages	Percentage of Customers Without Power	Peak Outages Reported in DOE SitReps	Customers Restored Since Peak
Louisiana	13,884	< 1%	889,517	875,633
<b>TOTAL:</b>	<b>13,884</b>			
Petroleum & Natural Gas				
	Amount	% Capacity Out*		
<b>Crude Oil Production Shut-In (b/d)</b>	680,749	49.33%		
<b>Natural Gas Production Shut-in (mmcf/d)</b>	1,156.9	25.71%		
<b>Refinery Capacity Shut down (b/d)</b>	247,000	NA		

**Note:** States with fewer than 1,000 outages are not included in the table. Due to a large number of service providers, including investor owned utilities and cooperatives, the number of customer outages reported may not be comprehensive.

**Sources:** Outages obtained from company web sites and DOE communications. Total State customers are based on 2010 EIA Customer Data.

\* % capacity out represents percent of production capacity in the Gulf of Mexico.

- As of 2:00 pm EDT September 5, Louisiana reports a total of 13,884 customers without power; this is a decrease from the 40,818 customer outages reported in Situation Report #13 at 3:00 pm September 4. Restoration estimates and efforts by electric utilities are reported below.
- As of 1:00 pm EDT, September 4, one refinery in the path of Isaac is shut down representing 247,000 barrels per day (B/D) of refining capacity, or 3 percent of total Gulf Coast refining capacity (7,671,585 B/D). Nine additional refineries in the path of the storm are restarting or at reduced rates. One refinery has returned to normal operations.
- On September 4, the US Environmental Protection Agency (EPA), in consultation with the US Department of Energy, issued an emergency wavier of the federal Reid Vapor Pressure (RVP) standards for conventional gasoline in Alabama, Florida, Georgia, Louisiana, Mississippi, North Carolina, South Carolina, and Tennessee and an emergency wavier of the Georgia Gasoline SIP.



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**ESF 12 Actions:**

- ESF 12 is staffing the FEMA National Response Coordination Center (NRCC) in Washington, DC and Baton Rouge, LA Joint Field Office (JFO). ESF 12 has been demobilized from the FEMA Region VI Regional Response Coordination Center (RRCC) in Denton, TX.

**Petroleum & Natural Gas Information:**

<b>Oil &amp; Gas Offshore Production Shut-In Status for Gulf of Mexico</b> <i>as of 12:30 pm EDT 9/4/12</i>			
<b>Location</b>	<b>Amount Shut-In</b>	<b>Pre-Event Production</b>	<b>Percent (%) Shut-In</b>
Crude Oil (B/D)	680,749	1,380,000	49.33
Natural Gas (MMCF/D)	1,156.87	4,500	25.71

**Source:** Bureau of Safety and Environmental Enforcement (BSEE)

- As of 12:30 pm EDT, September 5, the Bureau of Safety and Environmental Enforcement (BSEE) reports 680,749 barrels per day (B/D) of the Gulf of Mexico (GOM) crude oil production is shut-in, equivalent to 49.33 percent of the GOM crude oil production. BSEE reports 1,156.87 million cubic feet per day (MMCF/D) of the GOM natural gas production is shut-in, equivalent to 25.71 percent of the GOM natural gas production. Personnel have been evacuated from a total of 18 production platforms, or 3.02 percent of the 596 manned platforms in the GOM. Personnel have been evacuated from 1 rig, representing 1.32 percent of the 76 rigs currently operating in the GOM.

**Refineries**

- For a list of refineries impacted by Hurricane Isaac, see table below.

<b>Refineries in the Path of Isaac as of 1:00 pm EDT 9/5/12</b>						
<b>Refinery Impacted</b>	<b>Location</b>	<b>Capacity (B/D)</b>				
		<b>Operating Capacity</b>	<b>Shut Down</b>	<b>Restarting</b>	<b>Reduced Runs</b>	<b>Normal</b>
Chevron	Pascagoula, MS	330,000			X	
Shell	Saraland, AL	80,000			X	
Alon	Krotz Springs, LA	80,000			X	
Chalmette Refining	Chalmette, LA	192,500		X		
ExxonMobil	Baton Rouge, LA	502,500				X
Marathon	Garyville, LA	490,000			X	
Motiva	Convent, LA	235,000		X		
Motiva	Norco, LA	233,500		X		
Phillips 66	Belle Chasse, LA	247,000	X			
Placid Refining	Port Allen, LA	57,000		X		
Valero	Norco, LA	205,000		X		
<b>TOTAL</b>		<b>2,652,500</b>	<b>247,000</b>	<b>923,000</b>	<b>980,000</b>	<b>502,500</b>

**Sources:** Confirmed by company or on company web site.

**Note:** Valero’s Meraux refinery has been excluded from the table as it was already shutdown due to reasons unrelated to Isaac.



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**Ports and Terminals**

- As of 1:00 pm EDT, September 5, the U.S. Coast Guard reports that the Gulf Intercoastal Waterway, New Orleans, Baton Rouge, and ports along the Lower Mississippi River below mile marker 130 are open in Sector New Orleans. Lower Mississippi River ports above mile marker 130 are open with restrictions. In Sector Morgan City, the LOOP, and the Port of Houma are open. Port Fourchon is open with restrictions.

**Petroleum Pipelines**

- As of 1:00 pm EDT, September 5, the Capline, Ho-Ho, and the LOOP’s LOCAP pipelines are operating. Sections of Shell’s Offshore Gulf pipeline have resumed operation and other sections are expected to return to service over the next few days.

Status of Petroleum Pipelines as of 1:00 pm EDT 9/5/12					
Type	Name	Start	Terminus	Capacity (barrels/day)	Status
Crude	Capline Pipeline	LA	IL	1,200,000	Operating
Crude	Ho-Ho (Houma-to-Houston)	LA	TX	325,000	Operating
Crude	LOOP LOCAP	LA	LA	1,200,000	Operating
Crude	Shell Offshore Gulf Pipeline Network	GOM	LA	NA	Sections of the offshore pipeline have restarted. Other sections expected to return over the next few days.

Sources: Confirmed by company or on company web site

**Natural Gas Pipelines**

- As of 1:00 pm EDT, September 5, Dauphin Island Gathering System, Main Pass, Mississippi Canyon Gas Pipeline, South Pass, and Venice Gas Gathering System have declared Force Majeure on their pipeline systems due to production shut-ins in the GOM.
- Several companies have reported shut-ins in parts of their system. These include ANR Pipeline Company, Columbia Gulf Transmission Company, Gulf South Pipeline Company, Nautilus Pipeline Company, Sea Robin Pipeline Company, Southern Natural Gas, Stingray Pipeline Company, Tennessee Gas Pipeline Company, Transcontinental Gas Pipe Line Company, and Trunkline Gas Company.



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<b>Force Majeure / Critical Notice Posting by Natural Gas Pipelines as of 1:00 pm EDT 9/5/12</b>		
<b>Name</b>	<b>Time Stamp</b>	<b>Notice (Status)</b>
ANR Pipeline Company	8/28/2012	Scheduled maintenance and TS Isaac related capacity curtailment between Eunice and Patterson delivery points.
Columbia Gulf Transmission Company	8/27/2012	Curtailment at Venice, Acadia and Erath plant delivery points.
Dauphin Island Gathering System	8/27/2012	Force Majeure
Mississippi Canyon Gas Pipeline	8/27/2012	Force Majeure
Nautilus Pipeline Company	9/1/2012	The pipeline has begun accepting nominations for delivery to Acadian Gas Pipeline, Anaconda, ANR, Cleopatra, Cypress, Gulf South, Manta Ray, and Tenn 800 LEG receipt points. Force Majeure remains at other portions.
Gulf South Pipeline Company	9/2/2012	Duke-Mobile Bay location remains shut but other locations have been approved to flow.
Sea Robin Pipeline Company	9/1/2012	Inspections have been completed at facilities. Many locations have been cleared to flow.
Main Pass	9/4/2012	Spectra's Main Pass has been shut-in since August 28. No damage has been found after inspections.
South Pass	9/4/2012	Spectra's South Pass has been shut-in since August 28. No damage has been found after inspections.
Southern Natural Gas	9/2/2012	Facility inspections at several facilities have been completed. Main Pass, Sea Robin and Burns Point delivery points have been approved for flow.
Stingray Pipeline Company	8/20/2012	Stingray's facilities at West Cameron 509 platform have resumed operation. Other portions continue to remain shut-in.
Tennessee Gas Pipeline Company	9/5/2012	Some stations and delivery points have resumed. Inspections have found damage to the Bay Marchand 5 Central Gathering System. Force Majeure has been declared on the system.
Transcontinental Gas Pipe Line Company	9/3/2012	Inspections have been completed and most portions of the Southeast Louisiana Lateral have resumed flow. The Mobile Bay Station is up and running.
Trunkline Gas Company	9/1/2012	Inspections have been completed at facilities. Many locations have been cleared to flow.
Venice Gathering System	8/27/2012	Force Majeure

**Sources:** Confirmed by company or on company web site.

**Natural Gas Processing Plants**

- As of 1:30 pm EDT September 5, 11 processing plants with capacities greater than 100 million cubic feet per day (MMcf/d) are shut down due to Isaac. However, 8 of these plants are capable of restarting pending resumption of pipeline flows. The shut down plants have a combined capacity of 6.8 billion cubic feet per day (Bcf/d), and the plants capable of restarting account for 4.0 Bcf/d of this capacity. One of the plants shut down is undamaged and will be capable to restart once power returns. Additionally, there are 6 plants, with a combined capacity of 3.3 Bcf/d, operating at reduced levels, and 4 plants back to normal operations. There are 28 gas processing plants (with a combined processing capacity of 13.5 Bcf/d) with capacities exceeding 100 MMcf/d that are located in the Gulf of Mexico coastal area and in the path of Isaac. The shut-in capacity of the 3 plants currently incapable of restarting due to Isaac accounts for 21 percent of total capacity of plants in Isaac's path.



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Natural Gas Processing Plant<sup>1</sup> Status for Affected Area as of 1:30 PM EDT 9/5/12

Plant Name	Location	Capacity (million cubic feet per day) <sup>2</sup>				
		Design System Operation	Shutdown	Capable to Restart	Operating at Reduced Levels	Normal
Yscloskey Gas Plant	St. Bernard, LA	1,850	X			
North Terrebonne Plant	Gibson, LA	1,100			X	
Pascagoula Gas Processing Plant	Jackson, MS	1,100		X		
Toca Gas Plant	St. Bernard, LA	1,100		X		
Venice Gas Plant	Plaquemines, LA	750	X			
Sea Robin Gas Plant	Vermillion, LA	660			X	
Neptune Plant	St. Marys, LA	650			X	
Larose Plant	Lafourche, LA	600			X	
Pelican Plant	St. Marys, LA	600				X
Williams Mobile Bay Processing Plant	Mobile Bay, AL	600		X		
Mobile Bay Processing	Mobile, AL	300		X		
Sabine Pass Plant	Cameron, LA	300		X <sup>3</sup>		
Stingray Gas Plant	Cameron, LA	300				X
Lowry Gas Plant	Cameron, LA	240				X
Baton Rouge Gas Plant	West Baton Rouge, LA	225		X		
Plaquemine Plant	Iberville Parish, LA	225	X			
Yellowhammer Gas Plant	Mobile, AL	200		X		
Paterson II Plant	St. Marys, LA	180		X		
Burns Point Plant	St. Marys, LA	160			X	
PSI Kaplan Plant	Vermillion, LA	125				X
Gibson Plant	Terrebonne, LA	110			X	

Source: EIA-757B

Note: <sup>1</sup> List only includes plants with processing capacity greater than or equal to 100 million cubic feet per day.

<sup>2</sup>The capacity represents the design capacity of the plants and does not represent the actual gas flow through these plants.

<sup>3</sup>Sabine Pass Plant cannot resume operations due to a connecting pipeline undergoing maintenance.

## Restoration Information

- Entergy estimated that all customers whose homes or businesses are accessible and able to take service will be restored by Saturday (September 8), this includes customers in the west bank of Plaquemines Parish. In the east bank of Plaquemines Parish, Entergy estimates service restoration no later than September 20, due to flooding and road closures.
- Entergy stated today (September 5) that flooding in St. John the Baptist Parish has hindered restoration efforts. The company will start restoration actions once water recedes in the eastern side of the parish.



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- Entergy' full contingency of crews were in Plaquemines Parish yesterday (September 4). According to the company, work in the parish will shut down each afternoon to comply with the government-mandated exiting of the area each night.
- In Mississippi and Arkansas, Entergy stated Monday (September 3) they have restored power to all customers who can receive power.
- Washington-St. Tammany, a Louisiana electric cooperative, reported September 2 that service should be restored to all members except those who are inaccessible because of high water or those that have damage to their property that prevents them from being reconnected.