



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

Hurricane Isaac Situation Report # 15
September 7, 2012 (3:00 PM EDT)

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	6,213	< 1%	889,517	883,304
TOTAL:	6,213			
Petroleum & Natural Gas				
	Amount	% Capacity Out*		
Crude Oil Production Shut-In (b/d)	501,863	36.35%		
Natural Gas Production Shut-in (mmcf/d)	847.27	19.43%		
Refinery Capacity Shut down (b/d)	0	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 7, Louisiana reports a total of 6,213 customers without power; this is a decrease from the 13,884 customer outages reported in Situation Report #14 at 3:00 pm September 5. Restoration estimates and efforts by electric utilities are reported below.
- As of 1:00 pm EDT, September 4, all refineries in the path of Isaac are restarting, at reduced rates, or have returned to normal operations.
- On September 4, the US Environmental Protection Agency (EPA), in consultation with the US Department of Energy, issued an emergency waiver 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 waiver of the Georgia Gasoline SIP.

ESF 12 Actions:

- ESF 12 is staffing the Baton Rouge, LA Joint Field Office (JFO). **ESF 12 has been demobilized from the FEMA National Response Coordination Center (NRCC) in Washington, DC.**

Petroleum & Natural Gas Information:

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Oil & Gas Offshore Production Shut-In Status for Gulf of Mexico
as of 12:30 pm EDT 9/7/12

Location	Amount Shut-In	Pre-Event Production	Percent (%) Shut-In
Crude Oil (B/D)	501,683	1,380,000	36.35
Natural Gas (MMCF/D)	847.27	4,500	19.43

Source: Bureau of Safety and Environmental Enforcement (BSEE)

- As of 12:30 pm EDT, September 7, the Bureau of Safety and Environmental Enforcement (BSEE) reports 501,683 barrels per day (B/D) of the Gulf of Mexico (GOM) crude oil production is shut-in, equivalent to 36.35 percent of the GOM crude oil production. BSEE reports 847.27 million cubic feet per day (MMCF/D) of the GOM natural gas production is shut-in, equivalent to 19.43 percent of the GOM natural gas production. Personnel have been evacuated from a total of 6 production platforms, or 1.01 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.

Refineries in the Path of Isaac as of 1:00 pm EDT 9/7/12

Refinery Impacted	Location	Capacity (B/D)				
		Operating Capacity	Shut Down	Restarting	Reduced Runs	Normal
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	
TOTAL		2,652,500	0	439,500	1,220,500	992,500

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.

Petroleum Pipelines

- As of 1:00 pm EDT, September 7, the Capline, Ho-Ho, and the LOOP’s LOCAP pipelines are operating and Shell’s Offshore GOM pipeline is operating at reduced or near-normal rates.

Natural Gas Pipelines

- As of 1:00 pm EDT, September 7, 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.



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- 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**.

Force Majeure / Critical Notice Posting by Natural Gas Pipelines as of 1:00 pm EDT 9/7/12		
Name	Time Stamp	Notice (Status)
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	9/6/2012	Some locations have resumed flow after inspections. Inspections continue at other locations.
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	9/6/2012	All stations and points with the exception of the Bay Marchand 5 Central Gathering System, are resuming operations. Force Majeure remains on the Bay Marchand 5 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	9/6/2012	Some locations have resumed flow after inspections. Inspections continue at other locations.
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 7, 7 processing plants with capacities greater than 100 million cubic feet per day (MMcf/d) are shut down but 5 of these plants are capable of restarting pending resumption of pipeline flows. The shut down plants have a combined capacity of 5.6 billion cubic feet per day (Bcf/d), and the plants capable of restarting account for 3.0 Bcf/d of this capacity. Additionally, there are 9 plants, with a combined capacity of 3.9 Bcf/d, operating at reduced levels, and 5 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



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Isaac. The shut-in capacity of the 2 plants currently incapable of restarting due to Isaac accounts for 19 percent of total capacity of plants in Isaac’s path.

Natural Gas Processing Plant ¹ Status for Affected Area as of 1:30 PM EDT 9/7/12						
Plant Name	Location	Capacity (million cubic feet per day) ²				
		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 ³		
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: ¹ List only includes plants with processing capacity greater than or equal to 100 million cubic feet per day.

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

³Sabine Pass Plant cannot resume operations due to a connecting pipeline undergoing maintenance.

Restoration Information

- Entergy stated yesterday (September 6) that it has more than 600 workers are focusing on Plaquemines Parish. They noted that improved road conditions on the East Bank of Plaquemines will allow complete restoration by September 10 instead of their original estimate of the September 20. Complete restoration for the West Bank of Plaquemines is now projected for September 12; 80 percent restoration is projected for September 8.