

Hurricane Isaac Situation Report # 3 August 29, 2012 (10:00 AM EDT)

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

Highlights:

- Hurricane Isaac made its first landfall on Tuesday, August 28th 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, around 3:15 am EDT on Wednesday, August 29th. As of 8:00 am EDT August 29, the National Hurricane Center (NHC) reports the center of Hurricane Isaac is 40 miles southwest of New Orleans, LA. Isaac is moving northwest near 6 mph with maximum sustained winds of 80 mph. The NHC reported hurricane-force winds extend outward up to 60 mph from the center.
- A State of Emergency has been declared for Alabama, Florida, Louisiana, and Mississippi.

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				
Alabama	7,307	< 1%	7,307	0				
Florida	4,140	< 1%	65,459	61,319				
Louisiana	533,959	24%	533,959	0				
Mississippi	18,585	1%	18,585	0				
TOTAL:	563,991							

Petroleum & Natural Gas

	Amount	% Capacity Out*
Crude Oil Production Shut-In (b/d)	1,287,275	93.28%
Natural Gas Production Shut-in (mmcf/d)	3,001.52	66.70%
Refinery Capacity Shut down (b/d)	936,500	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

- As of 9:00 am EDT August 29, the impacted States report a total of 563,991 customers without power; this is an increase from the 24,834 customer outages reported in Situation Report #2 at 3:00 pm August 28. Restoration estimates and efforts by electric utilities are reported below.
- Yesterday (August 28), the US Environmental Protection Agency (EPA), in consultation with the US Department of Energy, issued an emergency waiver of the federal 7.8 psi Reid Vapor Pressure (RVP) gasoline requirement for fourteen parishes in Louisiana. The wavier is issued in response to

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^{* %} capacity out represents percent of production capacity in the Gulf of Mexico.



- gasoline supply concerns as a result of Hurricane Isaac. The waiver will be in effect until September 6, 2012.
- As of 8:00 am EDT August 29, five refineries in the path of Isaac have shut down representing 936,500 barrels per day (B/D) of refining capacity, or 12 percent of total Gulf Coast refining capacity (7,671,585 B/D). Four additional refineries in the path of the storm with an aggregated capacity of 1,306,000 B/D are operating at reduced rates
- Yesterday evening (August 28), the Nuclear Regulatory Commission (NRC) reported that Entergy's 1,075 MW Waterford Nuclear Generating Station, located about 20 miles west of New Orleans, has shutdown due to the possibility of adverse conditions generated by the storm. Both River Bend (St. Francisville, LA.) and Grand Gulf (Port Gibson, MS.) Nuclear Generating Stations, also owned by Entergy, remain at full power.

ESF 12 Actions:

• ESF 12 is staffing the FEMA National Response Coordination Center (NRCC) in Washington, DC, the FEMA Region IV Response Coordination Center (RRCC) in Atlanta, GA, the FEMA Region VI RRCC in Denton, TX, the Baton Rouge, LA Incident Management Assistance Team (IMAT) and the Mississippi Emergency Operations Center (EOC).

Petroleum & Natural Gas Information:

Oil & Gas Offshore Production Shut-In Status for Gulf of Mexico as of 12:30 pm EDT 8/28/12						
Location	Amount Shut In	Pre-Event Production	Percent (%) Shut In			
Crude Oil (B/D) 1,287,275		1,380,000	93.28			
Natural Gas (MMCF/D)	3,001.52	4,500	66.7			

Source: Bureau of Safety and Environmental Enforcement (BSEE)

• As of 12:30 pm EDT August 28, the Bureau of Safety and Environmental Enforcement (BSEE) reports 1,287,275 barrels per day (B/D) of the Gulf of Mexico (GOM) crude oil production is shutin, equivalent to 93.28 percent of the GOM crude oil production. BSEE reports 3,001.52 million cubic feet per day (MMCF/D) of the GOM natural gas production is shut-in, equivalent to 66.7 percent of the GOM natural gas production. Personnel have been evacuated from a total of 503 production platforms, or 84.4 percent of the 596 manned platforms in the GOM. Personnel have been evacuated from 49 rigs, representing 64.47 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 8:00 am EDT 8/29/12						
		Capacity (B/D)				
Refinery Impacted	Location	Operating Capacity	Shut Down	Restarting	Reduced Runs	Normal
Chevron	Pascagoula, MS	330,000				330,000
Shell	Saraland, AL	80,000			80,000	
Alon	Krotz Springs, LA	80,000				80,000
Chalmette Refining	Chalmette, LA	192,500	192,500			
ExxonMobil	Baton Rouge, LA	502,500			502,500	
Marathon	Garyville, LA	490,000			490,000	
Motiva	Convent, LA	235,000	235,000			
Motiva	Norco, LA	233,500			233,500	
Phillips 66	Belle Chasse, LA	247,000	247,000			
Placid Refining	Port Allen, LA	57,000	57,000			
Valero	Norco, LA	205,000	205,000			
TOTAL		2,652,500	936,500	0	1,306,000	410,000

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.

Ports and Terminals

- At 7:00 pm EDT, August 28, the Louisiana Offshore Oil Port (LOOP) reported it halted deliveries
 of crude oil from its onshore facilities at Clovelly, LA due to deteriorating weather conditions. The
 LOOP stated it will continue to make limited deliveries out of the LOCAP system at St. James, LA
 as conditions allow. Marine operations remain suspended.
- Shell reported its St. James crude oil terminal was temporarily shut down on August 27.
- As of 8:00 am EDT, August 29, the U.S. Coast Guard reports that ports in Sector Mobile are closed, including the Port of Pascagoula. The Port of Panama City remains open with restrictions. In Sector New Orleans, all ports along the Lower Mississippi River south of mile 233 are closed, including the ports of New Orleans and Baton Rouge. The Gulf Intercoastal Waterway remains open with restrictions. In Sector Morgan City, the LOOP and Port Fourchon are closed. Houma remains open with restrictions.

Petroleum Pipelines

• As of August 29, the Capline Pipeline Shell's Offshore Gulf pipeline network, the Ho-Ho Pipeline, and William's Mountaineer pipeline have been shut-in due to weather conditions.

	Status of Petroleum Pipelines as of 8:00 am EDT 8/29/12						
Туре	Name	Start	Terminus	Capacity (barrels/ day)	Status		
Crude	Shell Offshore Gulf Pipeline Network	GOM	LA	NA	Shut-in		
Crude	Capline Pipeline	LA	IL	1,200,000	Shut-in		
Crude	Ho-Ho (Houma-to-Houston)	LA	TX	325,000	Houma to DOE Junction section shut-in.		
Crude	Williams Mountaineer	GOM	LA	NA	Shut-in		

Sources: Confirmed by company or on company web site

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Natural Gas Pipelines

- As of August 29, Dauphin Island Gathering System, Destin Pipeline Company, Florida Gas Transmission Company, Mississippi Canyon Gas Pipeline, Southern Natural Gas 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, Nautilus Pipeline Company, Sabine Pipe Line, Sea Robin Pipeline Company, Southern Natural Gas, Stingray Pipeline Company and Transcontinental Gas Pipe Line Company.

Force Majeure / Critical Notice Posting by Natural Gas Pipelines as of 8:00 am EDT 8/29/12						
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				
Destin Pipeline Company	8/25/2012	Force Majeure on offshore receipt points.				
Discovery Gas Transmission	8/27/2012	Not accepting nominations for Tuesday 8/28/2012.				
Florida Gas Transmission Company	8/28/2012	Force Majeure at Napoleonville Storage Rec.				
Mississippi Canyon Gas Pipeline	8/27/2012	Force Majeure				
Nautilus Pipeline Company	8/27/2012	Force Majeure at Anaconda meter.				
Sabine Pipe Line	8/28/2012	Sea Robin/Henry Hub Interconnect shut-in.				
Sea Robin Pipeline Company	8/28/2012	Sea Robin Pipeline system shut-in.				
Southern Natural Gas	8/28/2012	Force Majeure at numerous delivery points including Toca, Lake Washington, Main Pass, West Delta, Venice-Mississippi Canyon, Sea Robin and many others.				
Stingray Pipeline Company	8/27/2012	Capacity Constraint along ANR, Bridgeline, NGPL and Tennessee meters – these delivery points are not available.				
Transcontinental Gas Pipe Line Company	8/27/2012	Southeast Louisiana Lateral (SELA) shut-in at Station 62 (near Gibson, LA).				
Venice Gathering System	8/27/2012	Force Majeure				

Sources: Confirmed by company or on company web site.

Natural Gas Processing Plants

• As of 8:30 am EDT August 29, 11 natural gas processing plants with capacities greater than 100 Million cubic feet per day are shutdown due to Hurricane Isaac. These plants have a combined capacity of 7.5 Billion cubic feet per day (Bcf/d). There are a total of 29 gas processing plants with capacities exceeding 100 MMcf/d which are located in the Gulf of Mexico coastal area and in the path of Hurricane Isaac. These 29 plants have a combined processing capacity of 13.7 Bcf/d. The shut-in capacity accounts for 55 percent of total capacity.



Natural Gas Processing Plant ¹ Status for Affected Area as of 08:30 AM EDT 8/29/12							
		Capacity (million cubic feet per day) ²					
Plant Name	Location	Design System Operation	Shutdown	Capable to Restart	Operating at Reduced Levels	Normal	
Yscloskey Gas Plant	St.Bernard, LA	1,850	1,850				
Pascagoula Gas Processing Plant	Jackson, MS	1,100	1,100				
North Terrebonne Plant	Gibson, LA	1,100	1,100				
Venice Gas Plant	Plaquemines, LA	750	750				
Sea Robin Gas Plant	Vermillion, LA	660	660				
Williams Mobile Bay Processing Plant	Mobile Bay, AL	600	600				
Larose Plant	Lafourche, LA	600	600				
Stingray Gas Plant	Cameron, LA	300	300				
Baton Rouge Gas Plant	West Baton Rouge, LA	225	225				
Paterson II Plant	St. Marys, LA	180	180				
PSI Kaplan Plant	Vermillion, LA	125	125				

Note: ¹List 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.

Restoration Information

Alabama

 Alabama Power reported yesterday (August 28) that most outages are in downtown Mobile, West Mobile, Prichard and south Mobile County. The company reported bringing in 300 line workers from across the Southeast.

Florida

- Gulf Power reported yesterday (August 28) they have more than 400 out of state workers helping in the restoration effort.
- Florida Power and Light (FPL) reported yesterday (August 28) that their restoration process was almost complete and less than 350 customers remain without power.

Louisiana and Mississippi

- Entergy, serving customers in Louisiana and Mississippi, reported today (August 29) they have roughly 5,000 company and contract workers to respond to Isaac's impacts. The company anticipates facing a range of rebuilding and restoration challenges, including debris damage, downed power lines and significant damage due to trees falling on equipment and taking down power lines.
- Cleco, a utility serving Louisiana customers, has a workforce of more than 2,400 company and contract workers from across the southeast United States ready to restore power throughout its service territory when weather permits.
- The Mississippi Power Association reports it has more than 1,000 power restoration crew members ready to respond immediately to power outages anticipated from Hurricane Isaac.

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