



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

Hurricane Isaac Situation Report # 6
August 31, 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, around 3:15 am EDT on Wednesday, August 29. **As of 2:00 pm EDT August 30, the National Hurricane Center (NHC) reports the center of Tropical Storm Isaac is 25 miles southeast of Monroe, LA. Isaac is moving north-northwest near 9 mph with maximum sustained winds of 40 mph. The NHC expects Isaac to become a tropical depression by this evening.**
- 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	6,262	< 1%	7,507	1,245
Arkansas	7,329	< 1%	7,329	0
Louisiana	846,409	37%	889,517	43,108
Mississippi	140,457	9%	155,604	15,147
TOTAL:	1,000,457			
Petroleum & Natural Gas				
	Amount	% Capacity Out*		
Crude Oil Production Shut-In (b/d)	1,310,801	94.99%		
Natural Gas Production Shut-in (mmcf/d)	3,262.57	72.52%		
Refinery Capacity Shut down (b/d)	879,500	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 Customer Data.

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

- **As of 2:00 pm EDT August 30, the impacted States report a total of 1,000,457 customers without power; this is a decrease from the 1,045,121 customer outages reported in Situation Report #5 at 10:00 AM August 30. Restoration estimates and efforts by electric utilities are reported below.**
- **As of 1:00 pm EDT August 30, four refineries in the path of Isaac remain shut down representing 879,500 barrels per day (B/D) of refining capacity, or 11 percent of total Gulf Coast refining capacity (7,671,585 B/D). Seven additional refineries in the path of the storm are restarting or at reduced rates.**

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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 <i>as of 12:30 pm EDT 8/30/12</i>			
Location	Amount Shut In	Pre-Event Production	Percent (%) Shut In
Crude Oil (B/D)	1,310,801	1,380,000	94.99
Natural Gas (MMCF/D)	3,263.57	4,500	72.52

Source: Bureau of Safety and Environmental Enforcement (BSEE)

- As of 12:30 pm EDT August 30, the Bureau of Safety and Environmental Enforcement (BSEE) reports 1,310,801 barrels per day (B/D) of the Gulf of Mexico (GOM) crude oil production is shut-in, equivalent to 94.99 percent of the GOM crude oil production. BSEE reports 3,263.57 million cubic feet per day (MMCF/D) of the GOM natural gas production is shut-in, equivalent to 72.52 percent of the GOM natural gas production. Personnel have been evacuated from a total of 509 production platforms, or 85.4 percent of the 596 manned platforms in the GOM. Personnel have been evacuated from 50 rigs, representing 65.79 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 <i>as of 1:00 pm EDT 8/30/12</i>						
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	879,500	57,000	1,716,000	0

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 11:00 am EDT, August 30, marine operations remained suspended at the Louisiana Offshore Oil Port (LOOP). The LOOP expects operations at the marine terminal to be completely resumed by Saturday (September 1). LOOP’s Clovelly storage facility remains without commercial power, however, the company expects operations to resume this evening (August 30).
- As of 3:30 pm EDT, August 29, the Motiva terminals in Keener, LA and Convent, LA (both shut down on August 28) and the Shell terminal in St. James (shut down on August 27) are shut down.
- As of 1:00 pm EDT, August 30, the U.S. Coast Guard reported in Sector Mobile the ports of Mobile and Pascagoula are closed and 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. All ports in Sector Morgan City are closed, including the LOOP, Port Fourchon, and Houma.

Petroleum Pipelines

- As of 1:00 pm EDT August 30, the Capline Pipeline, the Ho-Ho Pipeline, Shell’s Offshore Gulf pipeline network, and Williams’ Mountaineer pipeline have been shut down due to weather conditions. Deliveries out of the St. James terminal along the LOOP’s LOCAP pipeline resumed on the evening of August 29, after commercial power was restored to the area.

Status of Petroleum Pipelines as of 1:00 pm EDT 8/30/12					
Type	Name	Start	Terminus	Capacity (barrels/day)	Status
Crude	Capline Pipeline	LA	IL	1,200,000	Shut Down
Crude	Ho-Ho (Houma-to-Houston)	LA	TX	325,000	Houma to DOE Junction section shut down
Crude	LOOP LOCAP	LA	LA	1,200,000	Deliveries out of LOCAP St. James terminal have resumed.
Crude	Shell Offshore Gulf Pipeline Network	GOM	LA	NA	Shut Down
Crude	Williams Mountaineer	GOM	LA	NA	Shut Down

Sources: Confirmed by company or on company web site

Natural Gas Pipelines

- As of 1:00 pm EDT August 30, Dauphin Island Gathering System, Destin Pipeline Company, Florida Gas Transmission Company, Garden Banks Gas Pipeline, Manta Ray Offshore Gathering 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, Transcontinental Gas Pipe Line Company, Tennessee Gas Pipeline Company, and Trunkline Gas Company.



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Force Majeure / Critical Notice Posting by Natural Gas Pipelines as of 1:00 pm EDT 8/30/12

Table with 3 columns: Name, Time Stamp, Notice (Status). Rows include ANR Pipeline Company, Columbia Gulf Transmission Company, Dauphin Island Gathering System, Destin Pipeline Company, Discovery Gas Transmission, Florida Gas Transmission Company, Garden Banks Gas Pipeline, Manta Ray Offshore Gathering Company, Mississippi Canyon Gas Pipeline, Natural Gas Pipeline Company (Kinder Morgan NGPL), Nautilus Pipeline Company, Sabine Pipe Line, Sea Robin Pipeline Company, Southern Natural Gas, Stingray Pipeline Company, Tennessee Gas Pipeline Company, Transcontinental Gas Pipe Line Company, Trunkline Gas Company, Venice Gathering System.

Sources: Confirmed by company or on company web site.

Natural Gas Processing Plants

- As of 1:30 p.m. EDT August 30, 22 processing plants with capacities greater than 100 million cubic feet per day (MMcf/d) are shutdown due to Isaac, however, 7 of these plants are capable of restarting pending resumption of pipeline flows. The shutdown plants have a combined capacity of 11.8 billion cubic feet per day (Bcf/d). Additionally, there is one plant, with a capacity of 240 MMcf/d, operating at reduced levels. There are 28 gas processing plants (with 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 accounts for 87 percent of total capacity. Several plants have reported minimal damage and anticipate resuming operations today or tomorrow, pending restoration of upstream supply and/or electricity.



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Natural Gas Processing Plant¹ Status for Affected Area as of 8/30/12 01:30 PM EDT

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		
Blue Water Gas Plant	Acadia Parish, LA	350	X ³			
Mobile Bay Processing	Mobile, AL	300		X		
Sabine Pass Plant	Cameron, LA	300	X			
Stingray Gas Plant	Cameron, LA	300		X		
Cameron Meadows Plant	Cameron, LA	275	X ⁴			
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: 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.

³Blue Water Gas Plant has been inactive for 2 months and its inactivity is unrelated to Isaac.

⁴Cameron Meadows Plant is undergoing maintenance that began a few days prior to Isaac making landfall.

Restoration Information

Louisiana and Mississippi

- Entergy stated at 1:00 pm today (August 30) that there has been damage to 17 substations in Louisiana and 44 transmission lines in Louisiana and one in Mississippi. Entergy has 10,000 workers, including outside personnel from 24 States, involved in the restoration effort. Crew assistance reported today (August 30) include:



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- Entergy Texas is sending more 260 workers to assist its Entergy partners in Louisiana. The Entergy Texas contingent includes more than 100 company and contract tool workers, 24 scouts, 17 support personnel and 101 contract tree-trimmers.
- Entergy subsidiaries serving southeastern Louisiana will be receiving 90 people from Tampa Electric by Sunday (September 2). The team will consist of 40 linemen and 50 support personnel.
- Entergy Mississippi will be receiving a contingent of 390 people from Alabama Power to the area in and around Jackson, Mississippi. The team includes 197 line crew personnel, 100 contract line crew personnel, and 93 support and logistics staff.
- Cleco Power, a Louisiana-based utility, received 71 crew members from OG&E Electric Services of Oklahoma City, OK yesterday (August 30) to assist with power restoration.
- SWEPCO, serving northwest Louisiana, reported late yesterday (August 29) stated they have called in 1,100 crews from eight states and 16 different companies to help restore power. As soon as Isaac's winds subside, crews will be on the ground and in the air working to assess damages and make repairs.
- Coast Electric Power, a cooperative in Mississippi, reported late yesterday (August 29) the majority of outages are in Hancock and Pearl River counties. Hancock County repairs will be delayed due to flooding and impassable roadways.
- Mississippi Power reported at 10:00 am this morning (August 30) that it expects to have 90 percent of customers who can receive power restored by midnight tonight. The company has 1,000 line and tree-trimming personnel working to restore power. Mississippi Power will receive 68 employees and 24 bucket trucks from Gulf Power in Florida and crews from Georgia Power arrived last night (August 29).
- Washington-St. Tammany Electric Cooperative, based in Franklinton, Louisiana, reported yesterday (August 29) it received linemen from three members of The Electric Cooperatives of South Carolina.
- The Southwest Louisiana Electric Membership Corporation (SLEMCO) reported this morning (August 30) 250 contract line and right-of-way personnel are involved in the restoration.
- Southern Pine Electric Power Association in Taylorsville, Mississippi received two five-person crews yesterday (August 29) from the Louisiana-based Dixie Electric Cooperative.
- Southwest Mississippi Electric Power Association in Natchez, MS received a four-man crew and a serviceman today (August 30) from Wiregrass Electric Cooperative, a member of the Alabama Rural Electric Association (AREA).