

Hurricane Isaac Situation Report # 8 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 11:00 am EDT August 31, the
 Hydrometeorological Prediction Center (HPC) reports the center of Tropical Depression Isaac is 25
 miles southeast of Fort Smith, AR. Isaac is moving north-northwest near 11 mph with maximum
 sustained winds of 25 mph.
- 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				
Arkansas	11,671	< 1%	19,935	8,264				
Louisiana	568,490	25%	889,517	321,027				
Mississippi	58,456	4%	155,604	97,148				
TOTAL:	638,617							

Petroleum & Natural Gas

	Amount	% Capacity Out*
Crude Oil Production Shut-In (b/d)	1,308,362	94.81%
Natural Gas Production Shut-in (mmcf/d)	3,075.19	68.34%
Refinery Capacity Shut down (b/d)	878,000	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.

- As of 2:00 pm EDT August 31, the impacted States report a total of 638,617 customers without power; this is a decrease from the 717,848 customer outages reported in Situation Report #7 at 10:00 am August 31. Restoration estimates and efforts by electric utilities are reported below.
- Today (August 31) the Department of Energy entered into an agreement to loan oil from the Strategic Petroleum Reserve (SPR). The loan agreement is with Marathon Petroleum Company and is for 1 million barrels of sweet crude. The crude oil will be loaned from the SPR under short-term contractual agreements and returned to the Reserve once supply conditions return to normal.

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



- As of 8:00 am EDT August 31, four refineries in the path of Isaac are shut down representing 878,000 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.
- Entergy reported yesterday (August 30) it is preparing to restart its 1,075 MW Waterford Nuclear Generating Station. The restart of the nuclear plant is anticipated to take several days. The plant was shut down as a protective measure in advance of Hurricane Isaac's landfall and received no damage during the storm.

ESF 12 Actions:

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

Petroleum & Natural Gas Information:

Oil & Gas Offshore Production Shut-In Status for Gulf of Mexico as of 12:30 pm EDT 8/31/12						
Location	Amount Shut In	Pre-Event Production	Percent (%) Shut In			
Crude Oil (B/D)	1,308,362	1,380,000	94.81			
Natural Gas (MMCF/D)	3,075.19	4,500	68.34			

Source: Bureau of Safety and Environmental Enforcement (BSEE)

• As of 12:30 pm EDT August 31, the Bureau of Safety and Environmental Enforcement (BSEE) reports 1,308,362 barrels per day (B/D) of the Gulf of Mexico (GOM) crude oil production is shutin, equivalent to 94.81 percent of the GOM crude oil production. BSEE reports 3,075.19 million cubic feet per day (MMCF/D) of the GOM natural gas production is shut-in, equivalent to 68.34 percent of the GOM natural gas production. Personnel have been evacuated from a total of 499 production platforms, or 83.7 percent of the 596 manned platforms in the GOM. Personnel have been evacuated from 48 rigs, representing 63.2 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 8/31/12							
	Kermenes	Capacity (B/D)					
Refinery Impacted	Location	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	878,000	292,000	1,482,500	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.

Ports and Terminals

- As of 10:30 am EDT, August 31, the Louisiana Offshore Oil Port (LOOP) is working to resume operations at the marine terminal by tonight. LOOP's Clovelly storage facility remains without commercial power, however, the company resumed deliveries from the facility yesterday evening (August 30).
- As of 6:00 pm EDT, August 30, the Motiva terminals in Convent, LA and Collins, MS have been reopened. The Stolthaven petroleum products terminal, located in Braithwaite, LA, reported yesterday (August 30) shut down due to flooding. The Motiva terminal in Kenner, LA (shut down on August 28) remains closed.
- As of 1:00 pm EDT, August 31, the U.S. Coast Guard reported in Sector Mobile the port of Pascagoula is closed and the ports of Mobile and Panama City are open with restrictions. In Sector New Orleans, ports along the Lower Mississippi River have reopened with restrictions, including the ports of New Orleans and Baton Rouge. The Gulf Intercoastal Waterway is closed. Some ports in Sector Morgan City have reopened, including Port Fourchon, but others remain closed, including the LOOP and Houma.

Petroleum Pipelines

• As of 1:00 pm EDT August 31, the Capline pipeline is restarted, deliveries from the LOOP's LOCAP pipeline have resumed but the Ho-Ho Pipeline, Shell's Offshore Gulf pipeline network, and Williams' Mountaineer pipeline continue to report being shut down.



Status of Petroleum Pipelines as of 1:00 pm EDT 8/31/12							
Туре	Name	Start	Terminus	Capacity (barrels/ day)	Status		
Crude	Capline Pipeline	LA	IL	1,200,000	Restarted		
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 and Clovelly Storage Facility 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 31, Dauphin Island Gathering System, Destin Pipeline Company,
 Florida Gas Transmission Company, Garden Banks Gas Pipeline, Manta Ray Offshore Gathering
 Company, Mississippi Canyon Gas Pipeline, Nautilus Pipeline Company, 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, Sabine Pipe Line, Sea Robin Pipeline Company, Stingray 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 8/31/12						
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	8/30/2012	Assessment and recovery operations have begun; Force Majeure on offshore receipt points remains.				
Discovery Gas Transmission	8/31/2012	With Discovery's Larose Plant returning to service, DGT is accepting nominations for delivery to the plant.				
Florida Gas Transmission Company	8/28/2012	Force Majeure at Napoleonville Storage Rec.				
Garden Banks Gas Pipeline	8/29/2012	Force Majeure				
Manta Ray Offshore Gathering Company	8/29/2012	Force Majeure				
Mississippi Canyon Gas Pipeline	8/27/2012	Force Majeure				
Natural Gas Pipeline Company (Kinder Morgan NGPL)	8/30/2012	Force Majeure on the Amarillo #3 Segment 11 in the Midcontinent zone (through Compressor Station 105) has been lifted. The segment was shut-in on 8/27/2012.				
Nautilus Pipeline Company	8/30/2012	The pipeline has begun accepting nominations for delivery to Acadian Gas Pipeline, ANR, Cypress, Gulf South and Tenn 800 LEG. Force Majeure remains at other portions.				
Sabine Pipe Line	8/28/2012	Sea Robin/Henry Hub Interconnect shut-in.				
Sea Robin Pipeline Company	8/30/2012	Sea Robin Pipeline system shut-in. Will not be accepting nominations until post-storm inspections of onshore and offshore facilities are complete.				
Southern Natural Gas	8/31/2012	Force Majeure at numerous delivery points including Toca, Lake Washington, Main Pass, West Delta, Venice-Mississippi Canyon, and many others. The Sea Robin interconnect has been approved to 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	8/31/2012	Force Majeure at Station 249 has been lifted.				
Transcontinental Gas Pipe Line Company	8/30/2012	Southeast Louisiana Lateral (SELA) shut-in at Station 62 (near Gibson, LA). Delivery points upstream of Station 82 also shut-in.				
Trunkline Gas Company	8/30/2012	Offshore system shut-in. Will not accept nominations on Terrebonne offshore system until post-storm inspections of onshore and offshore facilities are complete.				
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 p.m. EDT August 31, 19 processing plants with capacities greater than 100 million cubic feet per day (MMcf/d) are shut down due to Isaac. However, 11 of these plants are capable of restarting pending resumption of pipeline flows. The shut-down plants have a combined capacity of 10.4 billion cubic feet per day (Bcf/d), and the plants capable of restarting account for 5.1 Bcf/d of this capacity. Additionally, there are 4 plants, with a combined capacity of 1.6 Bcf/d, operating at reduced levels. 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 accounts for 77 percent of total capacity which were in Isaac's path. Many operators anticipate gas flows resuming over the next few days.

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Natural Gas Processing Plant ¹ Status for Affected Area as of 8/31/12 01:30 PM EDT							
		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	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: List only includes plants with processing capacity greater than or equal to 100 million cubic feet per day.

Restoration Information

- As of 9:30 am EDT today (August 31) Entergy stated there are 15 substations out of service due to Isaac and 47 transmission lines damaged. Entergy has 12,000 workers including outside personnel from 24 States, involved in the restoration effort or en route. Entergy released the following restoration estimates and crew support:
 - o In Louisiana, Entergy continues to assess damage; preliminary estimates are to restore 90 percent of all customers who can take power by Thursday (September 6). Entergy expects to provide restoration estimates by parish by Sunday (September 2).

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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.



- o In Mississippi, Entergy is restoring power in those areas where conditions are safe to work.
 - The vast majority of customers in Rankin and Madison counties will be restored by tonight (August 31) with all remaining customers who can take service restored by tomorrow (September 1).
 - In the counties of Jackson, Clinton, Vicksburg, Cleveland, Mid-State and Greenville: the vast majority of customers will be restored by tomorrow (September 1) with all remaining customers who can take service restored by Sunday (September 2).
 - In Natchez, Brookhaven, Gloster, McComb counties the vast majority of customers will be restored by Sunday (September 2) with all remaining customers who can take service restored by Monday (September 3).
- o In Arkansas, Entergy's crews and an additional 280 lineman from outside the state have been working to restore power. No estimates for full restoration are determined at this time.
- Entergy Texas has 24 additional workers headed to Louisiana today, August 31.
- Mississippi Power reported today (August 31) they have restored power to all of their customers who can receive power.
- Coast Electric, a cooperative serving Mississippi, reported August 29 crews from nine cooperatives in Georgia and Mississippi are assisting the cooperative with restoration efforts and additional treetrimming.
- Cleco Power, a Louisiana-based utility reported today (August 31), the work of 2,400 employees and contractors continues today throughout central and southeastern Louisiana.
- Magnolia Electric Power Association, in Mississippi, reported today (August 31) outages are still
 scattered across the system, but transmission problems have been solved. The Gillsburg, Liberty,
 and Smithdale substations and all four of the circuits at the Gillsburg substation were all
 reenergized.
- Southern Pine Electric Power Association in Taylorsville, MS has more than 35 crews, including crews from north Mississippi, Alabama and Georgia, working on the restorations.