

OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY (OE)
U.S. DEPARTMENT OF ENERGY
Gulf Coast Hurricanes¹ Situation Report #19
October 21, 2005 (3 PM EDT)

HIGHLIGHTS

- Currently, just over 5,000 Jasper-Newton Electric Cooperative customers remain without electricity in Texas. In Louisiana, there are approximately 120,000 remaining customers in New Orleans who cannot receive service.
- DOE ESF-12 staff in Louisiana have completed electrical infrastructure assessments for St. Bernard and New Orleans Parishes. They have visually inspected the infrastructure situation to better understand the scope of the damage.
- Hurricane Wilma is currently a Category 4 storm with maximum sustained winds near 140 mph. Hurricane force winds extend outward up to 85 miles and tropical storm force winds extend outward up to 200 miles. The storm is located about 15 miles southeast of Cozumel, Mexico and is moving toward the north-northwest at 5 mph. The storm's projected path will bring it into the Gulf of Mexico and over Southern Florida on 10/24. <http://www.nhc.noaa.gov/>
- Florida Power and Light and Tampa Electric have begun preparations in anticipation of Hurricane Wilma.
- According to Anadarko Petroleum Corp., the company has begun evacuating nonessential workers from its sole platform in the U.S. Gulf of Mexico as Hurricane Wilma moves closer to land.
- Transocean, Inc., announced that it had evacuated workers from 10 rigs in the Gulf of Mexico as Hurricane Wilma approaches the region. Two of its evacuated rigs are undergoing repairs sustained from hurricanes Katrina and Rita.
- DOE staff have been activated to the Regional Response Coordination Center (RRCC) in Atlanta for Hurricane Wilma. DOE staff are also at the New Orleans Area Field Office and State EOC in Baton Rouge.

OIL AND GAS INFORMATION

- According to MMS, 986,805 barrels of oil per day are shut-in which equates to 65.79 percent of the normal daily oil production in the Gulf. Shut-in gas production is 5.34 billion cubic feet per day. This shut-in gas production is equivalent to 53.37 percent of the normal daily gas production in the Gulf. Evacuations are equivalent to 25.76 percent of 819 manned platforms and 11.94 percent of 134 rigs currently operating in the Gulf. For further information see MMS web site at www.mms.gov. MMS reports 66 destroyed platforms and 32 damaged platforms in the Gulf of Mexico (GOM).

Damage to GOM Oil & Gas Infrastructure

Ivan vs. Katrina vs. Rita

	Rita	Katrina	Ivan
Platforms Destroyed	66	47	7
Platforms Extensive Damage	32	20	20
Rigs Adrift	13	6	5
Rigs Extensive Damage	10	9	4
Rigs Destroyed	4	4	1
Rigs Unaccounted For	2 (Missing / Allegedly Sunk – Added in With Destroyed)		0
Number of Pipelines Damaged	28	70	102
Shut-in Production High	26-Sep	30-Aug	16-Sep
Gas (BCF)	8.623	9.418	6.515
Oil (bbls)	1,564,679	1,557,981	1,410,002
Cumulative (To Date)	<i>Combined Rita / Katrina</i> 8/26/05 – 10/21/05		9/13/04 - 02/14/05
Gas (BCF)	<i>Combined Rita / Katrina</i> 326.521		172.259
Oil (bbls)	<i>Combined Rita / Katrina</i> 64,547,816		43,841,245
Evacuation Highs			
Platforms	754	660	575
Rigs	107	89	
Platforms in the Path	1600	1300	150

Source: US MMS October 21 2005.

- As of 10/20, Louisiana’s Department of Natural Resources, on-shore oil production in the state was at 30.9 percent of the level prior to the advent of hurricanes Katrina and Rita and that gas production was at 39.1 percent of the pre-storm level.
- On October 20, Kerr-McGee noted that oil production at its facilities in the Gulf of Mexico was up to 75 percent of the level prior to the damage done by hurricanes Katrina and Rita.
- Sixteen processing plants in Louisiana and Texas, with capacities equal to or greater than 100 million cubic feet per day, are not active. The inactive plants have an aggregate capacity of 9.71 billion cubic feet per day (Bcf/d), and they had a total pre-hurricane flow volume of 5.45 Bcf/d.
- The following tables highlight the current shut downs by major energy facilities in the path of Hurricane Rita as of 10/21:

OIL OPERATIONS IN THE PATH OF HURRICANE RITA

Refineries

Company	Location	Capacity (B/D)	Status
PORT ARTHUR/ LAKE CHARLES			
Citgo	Lake Charles, LA	324,300	Reduced rate
ConocoPhillips	West Lake, LA	239,400	Restarting
Calcasieu	Lake Charles, LA	30,000	Operating at full rate
ExxonMobil	Beaumont, TX	348,500	Restarting
Motiva	Port Arthur, TX	285,000	Shut down – initiating start-up sequence
Total	Port Arthur, TX	233,500	Restarting
Valero (Premcor)	Port Arthur, TX	255,000	Reduced rates
Total		1,715,700	Shutdown – 285,500
HOUSTON/TEXAS CITY			
Shell Deer Park	Deer Park, TX	333,700	Operating at full rate
Lydonell Citgo	Houston, TX	270,200	Reduced rates - FCC remains down
Astra Oil (Crown Central)	Pasadena, TX	100,000	Operating at full rate
Valero	Houston, TX	83,000	Reduced rates
ExxonMobil	Baytown, TX	557,000	Operating at full rate
BP	Texas City, TX	437,000	Shut down – expected restart late October/early November
Valero	Texas City, TX	209,950	Operating at full rate
Marathon	Texas City, TX	72,000	Operating at full rate
ConocoPhillips	Sweeny, TX	229,000	Operating at full rate
Total		2,291,850	Shut down – 437,000
TOTAL OF ALL AREAS including Corpus Christi		4,713,676	Total Shutdown – 722,500
Three refineries (all in LA) from Hurricane Katrina remain shut down – 554,000 barrels per day		554,000	Total including Katrina –1,276,500 Chevron Pascagoula, MS – restarted October 6; estimate normal production by late October. Exxon Mobil Chalmette – full power ConocoPhillips Belle Chasse – full power Murphy Oil Meraux – partial power

Sources: Confirmed by company or on company web site. Various trade press sources.

- Shell reports its repair work continues to progress at the Motiva Port Arthur Refinery, with most utility systems up and running. Shell is completing the final site assessments and repair work required to initiate the start-up sequence this week. The restart period will extend into next week as equipment, systems and processes become fully operable and production increases toward normal operating rates

- Valero reports its Port Arthur refinery is expected to ramp up to full production rates by the end of the week. It is currently at about 75 percent.
- ExxonMobil reports restarting several units at its shutdown Beaumont refinery in Texas. The company said the rest of the units at the 350,000 bpd refinery would be brought back online within about two weeks.
- Total says its Port Arthur Refinery is returning on schedule and should be completed by the end of this week.
- Shown below is a list of natural gas pipelines impacted by Hurricane Rita, as of 10/21.

On-Shore and Off-Shore Pipelines with Reported Supply Issues	Status
ANR	ANR has declared a Force Majeure and continues not to accept any nominations upstream of its Lake Arthur and Grand Chenier Compressor Stations. There is extensive damage to its liquid handling facilities located at Grand Chenier. Alternative arrangements have been worked out to get around this bottleneck. Effective Oct 20, ANR will increase its capacity through its Grand Chenier facilities to 450-MMcf/d.
Columbia Gulf Transmission	Force Majeure, effective immediately for meters upstream of and including the Egan Measurement Stations. Repair to Pecan Island facility is a prerequisite to flow of any gas in the offshore system.
Duke Energy Field Services including CIPCO, Seabreeze and Black Lake	CIPCO has minor damage and Black Lake remains shut-in due to lack of supplies.
Duke Energy Gas Transmission	As of October 20, maintenance complete on line between Texas / Mexico border and Santa Fe.
Enbridge Inc.'s Offshore System, which includes Garden Banks, Manta Ray, Nautilus, Stingray, and MS Canyon	MS Canyon, Manta Ray, and UTOS pipelines are still out of service. MS Canyon has Nov 7 as target date to allow gas deliveries to the Sonat and Tennessee Gas Pipeline delivery points.
Enterprise Product Partners	As of Oct 6, all GOM area pipelines are normal except Phoenix, Viosca Knoll, Typhoon, and High Island. All platforms are in service except Garden Banks 72 and East Cameron 373. Six of its ten LA natural gas processing plants are operational.
Gulf South – Lake Charles	May be required to schedule only primary firm capacity and implement scheduling reductions for Oct 19.
Gulf South – High Island Offshore System	The Force Majeure event related to Hurricane Rita that was posted September 21, 2005 is now lifted. Due to the ongoing storm recovery issues on the connecting pipelines downstream of HIOS, the ANR delivery point is the only one available for HIOS shippers until further notice
Kinder Morgan	Limited transportation capacity on segments 16, 23, and 24 (into Florida) and Force Majeure on Segment 26 on

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	Natural Gas Pipeline Company of America lines on Oct 21; also some limited storage in Gulf Coast zones.
Sabine	Effective October 14, compression through Sabine's South Booster Station is now available. Force Majeure now lifted on 25 interconnects.
Southern Union's (Panhandle Energy) Trunkline and Sea Robin	Trunkline's Terrebonne System started accepting nominations for gas on Sept 27. Fourteen receipt and delivery points are still not available. Starting Oct 15, 15 locations are cleared for nominations and flow on the Sea Robin system. Florida Gas transmission is performing some unscheduled maintenance in October.
Tennessee Gas Williams	Effective Time Cycle, 9:00 AM CCT, for the gas day of October 20th, due to nominations in excess of the available capacity, Tennessee has partially restricted flow at two pipeline points and one meter. Most Williams' facilities have returned to service. The only report of significant damage is Cameron Meadows natural gas processing plant in LA.

(Sources: Company web sites, DOT, and Trade associations)

ELECTRICITY INFORMATION

STATE REPORTS

Texas

- On 10/19 Jasper-Newton Electric Cooperative (JNEC) reported that just over 5,000 customers remained without electricity. Power has been restored to approximately 71% of JNEC's meters including 77% in Jasper Count, 59% in Newton County, and 37% in Orange County.

Louisiana

- Entergy is reporting on a weekly basis and an update is due 10/21 on their website. <http://www.entergy-neworleans.com/nola/storms/katrina.asp>

¹ Situation Report series for Hurricanes Katrina and Rita have been combined into the Gulf Coast Hurricanes Situation Report series.