

OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY (OE)
U.S. DEPARTMENT OF ENERGY
Gulf Coast Hurricanes¹ Situation Report #17
October 17, 2005 (3 PM EDT)

HIGHLIGHTS

- A total of 141,808 electricity customers in Louisiana and Texas remain without power from Hurricanes Katrina and Rita. Less than 20,000 are due to Hurricane Rita, including 7,037 in Louisiana and 12,459 in Texas. In Louisiana over 122,000 customers remain without electricity due to Hurricane Katrina. These customers are principally in the areas near New Orleans and are unable to receive power at this time.
- Entergy has completed reporting in Texas with less than 1,000 customers without electricity and began reporting progress in Louisiana on a weekly basis starting on 10/14.
- Sixteen processing plants in Louisiana and Texas, with capacities equal to or greater than 100 million cubic feet per day, are not active. The number increased from last week due to unplanned maintenance at one of the facilities. 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.
- Tropical Storm Wilma is located about 220 miles south-southeast of Grand Cayman, Bahamas. Wilma has maximum sustained winds near 45 mph and is expected to strengthen and become a hurricane by tomorrow, 10/18. Its projected path will bring it over the Yucatan Peninsula and into the Gulf of Mexico by Saturday 10/22/05.
<http://www.nhc.noaa.gov/>
- DOE staff have been at the National Response Coordination Center (NRCC) at FEMA HQ, the Interagency Incident Management Team at HQ, and both the State Emergency Operation Center (EOC) and the FEMA Joint Federal Office (JFO) in Baton Rouge, LA. The New Orleans Area Field Office was opened by FEMA on 10/13 and currently three DOE staff are at the Area Field Office in New Orleans. Another staffer will deploy to Baton Rouge to assist FEMA in the coordination of electric power to temporary housing. DOE remains on stand by for TS Wilma.

OIL AND GAS INFORMATION

- According to MMS, 996,291 barrels of oil per day are shut-in which equates to 66.42 percent of the normal daily oil production in the Gulf. Shut-in gas production is 5.498 billion cubic feet per day. This shut-in gas production is equivalent to 54.98 percent of the normal daily gas production in the Gulf. Evacuations are equivalent to 27.47 percent of 819 manned platforms and 1.49 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	0 (3 missing rigs are counted in destroyed)		0
Number of Pipelines Damaged	30	34	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 with Rita</i>	8/26/05 - 10/17/05	9/13/04 - 02/14/05
Gas (BCF)	<i>Combined with Rita</i>	305.521	172.259
Oil (bbls)	<i>Combined with Rita</i>	60,650,654	43,841,245
Evacuation Highs			
Platforms	754	660	575
Rigs	107	89	
Platforms in the Path	1600	1300	150

Source: US MMS October 17, 2005

- Shown below is a list of natural gas pipelines impacted by Hurricane Rita, as of 10/17.

On-Shore and Off-Shore Pipelines with Reported Supply Issues	Status
ANR	ANR has returned a large portion of its offshore and onshore facilities. As of Oct 17, ANR has identified a pipeline leak at Eugene Island Block 133 and has declared a Force Majeure event on this line. ANR has declared a Force Majeure and continues not to accept any nominations upstream of its Lake Arthur and Grand Chenier Compressor Stations. Effective Oct 17, ANR will increase its capacity through its Grand Chenier facilities to 250-MMcf/d for the SE 3 A-CFTP
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,	CIPCO has minor damage and Black Lake remains

On-Shore and Off-Shore Pipelines with Reported Supply Issues	Status
Seabreeze and Black Lake	shut-in due to lack of supplies.
Duke Energy Gas Transmission	The Texas Eastern pipeline has restricted some receipt points due to maintenance.
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. As of Oct 13, Stingray can accept nominations to HIOS from 10 specific receipt points if telemetry exists and water content of gas is seven pounds or less.
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 15.
Gulf South – High Island Offshore System	The Force Majeure event related to Hurricane Rita that was posted September 21, 2005 is now lifted. Effective Oct 16, HIOS is ready to receive deliveries from Stingray at ten different receipt points if telemetry exists and water content of gas is seven pounds or less.
Kinder Morgan	Limited transportation capacity on segments 16, 24, and 33 and Force Majeure on Segment 26 on Natural Gas Pipeline Company of America lines on Oct 14; 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 17th, due to nominations in excess of the available capacity, Tennessee has partially restricted flow at one pipeline point and at two meters. 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)

- According to Dynegy, the operator of the Venice Gas Processing Plant has informed the Venice Gathering System (VGS) that the plant has experienced flooding and extensive damage to the facility. The plant has no ability to process or dehydrate gas; therefore, the inlet valve to the plant remains shut-in. VGS will require that producers upstream of the plant remain shut-in until further notice. In light of the information from the Venice Gas

Processing Plant, VGS is exploring modifications to pipeline configurations to allow for deliveries by VGS to Trunkline near the intersection of the 26” Mainline and the 24” Loop line at South Timbalier Block 151.

- According to the Association of Oil Pipelines, all on-shore interstate oil pipelines have resumed 100 percent normal operation capacity. However, some systems continue to experience reduced availability of products to transport.
- The following tables highlight the current shut downs by major energy facilities in the path of Hurricane Rita as of 10/17:

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	Restarting
ConocoPhillips	West Lake, LA	239,400	Restarting
Calcasieu	Lake Charles, LA	30,000	Operating at full rate
ExxonMobil	Beaumont, TX	348,500	Shut down – attempting to restart
Motiva	Port Arthur, TX	285,000	Shut down – attempting to restart
Total	Port Arthur, TX	233,500	Restarting
Valero (Premcor)	Port Arthur, TX	255,000	Restarting
Total		1,715,700	Shutdown – 633,500
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 – 1,070,500
Three refineries (all in LA) from Hurricane Katrina remain shut down – 554,000 barrels per day		554,000	Total including Katrina –1,624,500 Chevron Pascagoula, MS – restarted October 6; estimate normal production by late October.

Company	Location	Capacity (B/D)	Status
			Exxon Mobil Chalmette – partial power ConocoPhillips Belle Chasse – full power Murphy Oil Meraux – partial power

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

ELECTRICITY INFORMATION

STATE REPORTS

Texas

- The Texas Public Utility Commission reported on 10/15 at 9:00 AM CDT, a total of 12,459 electricity customers remained without power in Texas, including 933 Entergy customers and 11,526 Jasper-Newton Cooperative customers.
- Entergy filed its final report to the Texas Public Utility Commission on 10/14 4 PM CDT with the following remaining outages: Beaumont - 228; Port Arthur - 344 and Orange - 361. The company reported that the remaining outages related to Hurricane Rita are now primarily those that result from customer facilities being repaired to the point where they can take service. Entergy is continuing repairs to both the transmission and distribution systems, as reliability and cleanup work is yet to be completed.

Louisiana

- The Louisiana Public Service Commission reported on 10/15 4 PM CDT that 129,349 electricity customers in the state remain without power including 7,037 from Hurricane Rita and 122,312 from Hurricane Katrina. The total outages represent 6.3% of the total customers in the state.
- Entergy New Orleans has begun reporting restoration progress on a weekly basis starting 10/14. The company does not anticipate that it will restore large numbers of customers at the same pace as it has since Katrina made landfall August 29. A detailed table showing neighborhood restoration progress, expected date of restoration to customers who can receive power, gas restoration progress, and expected date of gas service restoration is available on the Entergy website at:
http://www.entergy.com/content/Corp/EmergencyCtr/NOLA_detail_content.asp.

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