

**OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY (OE)
U.S. DEPARTMENT OF ENERGY
Gulf Coast Hurricanes¹ Situation Report #16
October 14, 2005 (3:00 PM EDT)**

HIGHLIGHTS

- Restoration of electricity after Hurricane Rita is nearing completion with some 8,405 restorable customers in Louisiana and 19,301 Texas customers awaiting power restoration. The total without power is currently 151,710 which includes Louisiana outages from Hurricane Katrina
- Entergy expects to have all Texas customers who can take power back in service by 10/16. The company estimates that restoring the damage caused by Hurricane Rita in Texas will cost the company between \$230 - \$315 million.
- 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 one DOE staffer is a part of it. A second DOE staffer will arrive over the weekend.

OIL AND GAS INFORMATION

- According to MMS, 1,008,909 barrels of oil per day are shut-in which equates to 67.26 percent of the normal daily oil production in the Gulf. Shut-in gas production is 5.647 billion cubic feet per day. This shut-in gas production is equivalent to 56.47 percent of the normal daily gas production in the Gulf. Evacuations are equivalent to 28.33 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	0

Number of Pipelines Damaged	28	30	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 - 10/14/05	9/13/04 - 02/14/05
Gas (BCF)	<i>Combined with Rita</i>	288.874	172.259
Oil (bbls)	<i>Combined with Rita</i>	57,642,292	43,841,245
Evacuation Highs			
Platforms	754	660	575
Rigs	107	89	
Platforms in the Path	1600	1300	150

Source: US MMS October 14, 2005

- MMS reports that two offshore platforms owned by ChevronTexaco are now open all the way. These are the Genesis deepwater oil and gas platform on a floating spar 150 miles south of New Orleans and the Petronius CT platform in the New Orleans district (which had been closed since Hurricane Ivan).
- Shown below is a list of natural gas pipelines impacted by Hurricane Rita, as of October 14.

On-Shore and Off-Shore Pipelines with Reported Supply Issues	Status
ANR	ANR has returned a large portion of its offshore and onshore facilities. By December ANR expects to be back to 100 per cent capacity. ANR has declared a Force Majeure and continues not to accept any nominations upstream of its Lake Arthur and Grand Chenier Compressor Stations.
Chevron	Western LA facilities shut-in
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.
Comstock Offshore	Shut-in since Sept 20
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	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

On-Shore and Off-Shore Pipelines with Reported Supply Issues	Status
	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	HIOS declared Force Majeure and will not accept nominations until further notice.
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.
Tennessee Gas Williams	Effective Time Cycle, 9:00 AM CCT, for the gas day of October 14th, due to nominations in excess of the available capacity, Tennessee has partially restricted seven different pipeline points. 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)

- The following tables highlight the current shut downs by major energy facilities in the path of Hurricane Rita as of October 14:

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

Company	Location	Capacity (B/D)	Status
HOUSTON/TEXAS CITY			
Shell Deer Park	Deer Park, TX	333,700	Operating at reduced rates
Lydonell Citgo	Houston, TX	270,200	Operating at reduced rates
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. 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.

- Explorer Pipeline now expects its Lake Charles, LA, origination point to be operational within the next several days.
- Chevron reports that it has restored its oil and gas production in the U.S. Gulf of Mexico to 40% of the levels produced before hurricanes Katrina and Rita.
- Colonial Pipeline announced on October 13th that commercial power has been restored to all Colonial facilities, allowing its gasoline and distillate mainlines to operate at full rates, subject to product availability. The return of commercial power enabled Colonial to remove the portable, distributed power which had supplemented commercial power at some pump stations in Louisiana.
- Port of New Orleans notes that last week the port handled 9 ships; this week the port has handled 14 ships. Before the hurricanes, the port normally handled 40 ships per week. Trucking capacity is up to 40 percent.

ELECTRICITY INFORMATION

STATE OUTAGE DATA

Utility	Customers w/o Power	% Customers w/o Power
Louisiana	132,409	6.4%
Texas	19,301	>0.2%

- Louisiana data is reported by the Louisiana Public Service Commission as of 10/14 8:00 AM CDT and their percentage outage numbers are used in calculating the percentage of total outage. Texas data is an estimate based on last available TX PUC 10/13.

STATE REPORTS

Texas

- The Texas PUC reported that as of 5 PM CDT 10/13, 19,301 customers remained without power, including some 7,200 Entergy customers and almost 12,000 Jasper Newton Electric Cooperative customers. The Sam Houston Electric Cooperative has essentially completed restoration of its customers.
- Entergy Texas President and CEO, Joe Domino, reported to the Texas Public Utility Commission on the Hurricane Rita situation in Texas. As of 10/13 at 11 AM CDT, the company has fewer than 7,000 customers down from a peak of 286,609 on 9/25.

Louisiana

- The Louisiana Public Service Commission reported on 10/14 at 8 AM CDT that 8,405 customers in Louisiana remained without power from Hurricane Rita and that 124,409 remained without power from Hurricane Katrina. The total of 132,409 represents about 6.4 % of Louisiana customers.
- **Entergy reports that most neighborhoods in New Orleans should have electric service restored to customers who can take service within the next two weeks. The neighborhood of Lakeview is expected to have power restored within four to six weeks, in the neighborhoods of the Ninth Ward and Gentilly the restoration time is uncertain, and the restoration time in West End is indefinite.**

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

