



U.S. Department of Energy
Emergency Support Function 12

Hurricane Ike Situation Report # 7

September 17, 2008 (10:00 AM EDT)

http://www.oe.netl.doe.gov/emergency_sit_rpt.aspx

Summary

Electricity		
Impacted State	Electric Customer Outages	% of State Out
Louisiana	32,075	2%
Arkansas	8,668	1%
Kentucky	240,900	11%
Indiana	56,000	2%
Pennsylvania	37,300	1%
Ohio	795,100	14%
Texas	1,915,556	18%
TOTAL:	3,085,599	
Petroleum & Natural Gas		
	Amount	% Capacity Out*
Crude Oil Production Shut-In (b/d)	1,263,730	97.2%
Natural Gas Production Shut-in (mmcf/d)	6,231	84.2%
Refinery Capacity Shut down (b/d)	2,996,320	NA

Notes:

Total state customers are based on 2006 EIA Customer Data.

Note: due to a large number of service providers, including investor owned utilities and cooperatives, the number of customer outages reported may not be comprehensive.

Source:

Crude Oil and Natural Gas Production Data from Minerals Management Service.

Refinery Status confirmed by company or on company web site and through various trade press sources.

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

Highlights:

- As of 6:00 AM EDT September 17, there are an estimated 3,085,599 customers without power in the States most heavily impacted by Ike (see summary table above) plus an additional 3,864 customers without power in New York, Illinois, West Virginia, and Missouri. Largest outages remain in Texas where 1,915,556 customers are without power. Over 636,000 customers have had power restored since Situation Report No. 6.
- On September 15 the U.S. Department of Energy announced it would deliver 250,000 barrels of emergency oil from the Strategic Petroleum Reserve to Marathon Petroleum Company’s Midwest refineries along the Capline pipeline system. On September 16, DOE announced it would deliver an additional 239,000 barrels of emergency exchange oil from the Strategic Petroleum Reserve to Conoco Phillips Company’s Wood River refinery along the Capline pipeline system.



U.S. Department of Energy Emergency Support Function 12

- On September 15, the U.S. Environmental Protection Agency issued a waiver for Texas permitting the use Federally-compliant ultra low sulfur diesel (ULSD) in lieu Texas Low-Emission Diesel (TxLED) through September 30, 2008.
- As of 9:00 AM September 17, oil tankers must still wait in the Gulf of Mexico as draft restrictions prevent them from entering waterways in the hurricane affected areas. The Port of Freeport, TX is still closed. The Coast Guard Captain of the Port of Houston-Galveston, TX reports that Galveston is still closed and the Houston Ship Channel is still restricted to vessels with drafts of 12 feet or less. The Gulf Intracoastal Waterway (GIWW) is closed from the Houston Ship Channel to the Port Arthur, TX bridge. The waterways in the Port Arthur, Texas area are restricted to vessels with a draft of 16 feet or less. The GIWW is also closed or restricted in several areas in LA. The Inner Harbor Navigational Canal and the Industrial Canal in the New Orleans area also has closures. The Lower Mississippi River has daylight only restrictions for vessels with drafts greater than 30 feet from mile marker 191 to 303.

ESF 12 Actions:

- ESF-12 is staffing the FEMA Region VI Regional Response Coordination Center (RRCC) in Denton, TX, the FEMA Region VI Joint Field Office (JFO) in Austin, TX, the FEMA Region VI (JFO) in Baton Rouge, LA, the Region V RRCC in Chicago, IL, and the National Response Coordination Center (NRCC) in Washington, DC. In addition, a petroleum expert has been deployed to San Antonio, TX to serve as part of FEMA's National Incident Management Assistance Team (IMAT) and an electricity expert has been deployed to join the Region IV IMAT in Houston, TX.

Situation Report Detail

Petroleum & Gas Information

Oil & Gas Offshore Production Shut In Status for Affected Area			
Location	Amount Shut In	Pre-event Production	% Shut In
Crude Oil (B/D)	1,263,730	1,300,000	97.2%
Natural Gas (MMCF/D)	6,231	7,400	84.2%

Source: Minerals Management Service

- As of September 16, the Minerals Management Service (MMS) reports 6,231 million cubic feet per day (MMcf/d) of the Gulf's natural gas production remains shut-in, equivalent to 84.2 percent of the Gulf production. MMS reports 1,263,730 barrels/day of the Gulf's crude production remains shut-in, equivalent to 97.2 percent of the Gulf's crude production. A total of 498 production platforms, or 69.5 percent of the Gulf's 717 manned platforms, remain evacuated. Personnel from 71 rigs, representing 58.7 percent of those operating in the region, remain evacuated.



U.S. Department of Energy Emergency Support Function 12

- MMS reports that Hurricane Ike destroyed 28 of the 3,800 offshore production platforms in the Gulf. MMS estimates that the platforms which were destroyed produced a total of 11,000 barrels/day of crude and 82 MMcf/d of natural gas. As of 6:30 PM September 16, Shell reported that repair work was needed at some of their Eastern Gulf of Mexico platforms (Mars, Ursa, West Delta 143 and Cognac) damaged by Hurricane Gustav. Shell is using this downtime to complete regular maintenance at several of these facilities. Assessments continue at Shell's Central Gulf Gathering System and Western Gulf systems. As of September 16, BP and ExxonMobil report minimal damage to their offshore facilities. ConocoPhillips reports no damage to its offshore facilities.
- Reconnaissance flights on September 16 indicated that some Chevron platforms were affected by Hurricane Ike, with several reported as toppled in the eastern and western shelf areas of the Gulf of Mexico.
- The U.S. Coast Guard notes that the platform in Eugene Island 397 is missing. This platform would represent approximately 25% of the 82 MMcf/d production MMS identified from destroyed platforms.
- On September 16, the Louisiana's Department of Natural Resources reports that 27,555 barrels/day or 18 percent of the normal Louisiana oil production has been restored. Operators in 17 parishes and in State offshore areas normally produce 155,767 barrels/day (the numbers are in addition to MMS reports of Federal offshore production). Shut-in oil production is 94,541 barrel/day or 61 percent of the normal production and the status of remaining 33,671 barrels/day is unknown. The estimated amount of restored gas production is 392 MMcf/d or 24 percent of the daily gas production capacity, which is 1,642 MMcf/d. The estimated amount of shut-in gas production is 917 MMcf/d and the status of the remaining 331 MMcf/d has not been confirmed.
- Major crude pipelines originating in Texas and Louisiana shut down operations in advance of Hurricane Ike, and many have terminals at the origin that remain shut. Colonial pipeline reported at 7:30 PM EDT September 16 that the main lines and several stub lines are operating. Colonial is receiving supplies from LA refineries and terminals in Texas and anticipates supply from restarted Corpus Christi refineries and marine deliveries. Despite some difficulties at the origin, NuStar pipeline is operating its product line at normal levels. (See table below.)



**U.S. Department of Energy
Emergency Support Function 12**

Pipelines in the Path of Gustav / Ike as of 9/17/08 9:00 AM EDT								
Type	Name	Start	Terminus	Capacity (barrels/day)	Shut Down	Partial Shut Down	Reduced Rates	Operating
Crude	Capline	LA	IL	1,200,000			1,200,000	
Crude	LOOP/Locap	LA	LA	1,200,000			1,200,000	
Crude	Genesis gathering/refinery	TX, MS, AL	TX, MS, AL	NA	NA			
Crude	Marathon gathering	GOM	LA/TX	NA	NA			
Crude	Sunoco Logistics/Western	TX	TX	NA	NA			
Product	Centennial	TX	IL	210,000	210,000			
Product	Central Florida	FL	FL	115,000				115,000
Product	Colonial	TX	NJ	2,400,000			2,400,000	
Product	CP Seaway Products	TX	OK	85,000	85,000			
Product	CP Sweeny to Pasadena	TX	TX	115,000	115,000			
Product	Explorer	LA/TX	IN	700,000		700,000		
Product	Longhorn	TX	TX	72,000	72,000			
Product	Magellan	TX	CO, MN, WI, IL	120,000			120,000	
Product	NuStar/Texas Gulf Coast	TX	TX	100,000				100,000
Product	Plantation	LA	VA	600,000			600,000	
Product	TEPPCO	TX	PA, NY	330,000		330,000		
NGL	Dixie	TX	NC	100,000		100,000		
NGL	Enterprise	TX	IL, MN	641,000		641,000		

Source: Status of pipelines from Association of Oil Pipe Lines; Capacity data from company web sites.

- As of 9:00 AM EDT September 17, twelve refineries in Texas and Louisiana remain shut down due to Hurricane Ike. These refineries located in Lake Charles/Port Arthur and Houston/Texas City, and have a total operable capacity of 3.0 million b/d. (See table below.)



U.S. Department of Energy Emergency Support Function 12

Refineries in the Path of Gustav / Ike as of 9/17/08 9:00 AM EDT							
Refinery Impacted	Location	Storm	Capacity (B/D)				
			Operating	Shut Down	Restarting	Reduced Runs	Back to Normal
Pascagoula/Mobile Region							
Chevron	Pascagoula, MS	G	330,000				330,000
Shell	Saraland, AL	-	86,000				
Pascagoula/Mobile Total			416,000	0	0	0	330,000
Lower Mississippi River Region							
Alon (Formerly Valero)	Krotz Springs, LA	G	80,000			80,000	
Chalmette Refining	Chalmette, LA	G	192,760				192,760
ConocoPhillips	Belle Chasse, LA	G	247,000		247,000		
ExxonMobil	Baton Rouge, LA	G	503,000			503,000	
Marathon	Garyville, LA	G	256,000				256,000
Motiva	Norco, LA	G	236,400			236,400	
Motiva	Convent, LA	G	235,000		235,000		
Murphy Oil	Meraux, LA	G	120,000			120,000	
Placid Refining	Port Allen, LA	G	56,000				56,000
Shell	Saint Rose, LA	G	55,000			55,000	
Valero	Norco, LA	G	185,003				185,003
Lower Mississippi River Total			2,166,163	0	482,000	994,400	689,763
Lake Charles Region							
Calcasieu	Lake Charles, LA	G+I	78,000	78,000			
Citgo	Lake Charles, LA	G+I	429,500			429,500	
ConocoPhillips	Westlake, LA	G+I	239,400			239,400	
Lake Charles Total			746,900	78,000	0	668,900	0
Port Arthur Region							
ExxonMobil	Beaumont, TX	G+I	348,500	348,500			
Motiva	Port Arthur, TX	G+I	285,000	285,000			
Total Petrochemicals	Port Arthur, TX	G+I	232,000	232,000			
Valero (formerly Premcor)	Port Arthur, TX	G+I	289,000	289,000			
Port Arthur Total			1,154,500	1,154,500	0	0	
Houston/Galveston Region							
BP	Texas City, TX	I	467,720	467,720			
ConocoPhillips	Sweeny, TX	I	247,000		247,000		
Deer Park	Deer Park, TX	I	329,800		329,800		
ExxonMobil	Baytown, TX	I	567,000	567,000			
Houston Refining	Houston, TX	I	270,600	270,600			
Marathon	Texas City, TX	I	76,000	76,000			
Pasadena Refining	Pasadena, TX	G+I	100,000	100,000			
Valero	Houston, TX	I	83,000	83,000			
Valero	Texas City, TX	I	199,500	199,500			
Houston/Galveston Total			2,340,620	1,763,820	576,800	0	
Corpus Christi Region							
Citgo	Corpus Christi, TX	I	156,000				156,000
Flint Hills Resources	Corpus Christi, TX	I	288,126			288,126	
Valero	Corpus Christi, TX	I	142,000				142,000
Valero	Three Rivers, TX	I	93,000			93,000	
Corpus Christi Total			679,126	0	0	381,126	298,000
TOTAL			7,503,309	2,996,320	1,058,800	2,044,426	1,317,763

Note: The table does not include all refineries in the PADD III, Gulf Coast Region.

Storm column indicates hurricanes impacting refineries: G = Gustav; I = Ike, G+I = Both storms, and - = no impact.

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

- The Independence Hub platform, located about 150 miles offshore LA in Mississippi Canyon reported gas flow of almost 900 million cubic feet on September 16, which is an increase of approximately 200 million cubic feet from September 15, 2008. This platform is the largest



U.S. Department of Energy Emergency Support Function 12

producing platform representing approximately 12% of the offshore Gulf of Mexico natural gas production and in July 2008, production from the Hub averaged over 800 MMcf/d.

- As of 4:00 PM EDT September 16, the Sabine Pipeline reports that the Force Majeure has been lifted for some additional points along its system. Compression at the Henry Hub complex remains unavailable at this time and Sabine advises its customers that gas flow through the system must be received at sufficient pressure.
- As of 12:00 PM EDT September 16, many natural gas pipelines impacted by Ike and Gustav continue to inspect and assess damage to their facilities. Certain portions of pipeline segments have commenced gas flow or are ready to resume flow once third-party facilities complete inspections. Reports of flood damage and lack of power continue to delay the return of facilities and in some cases it is likely to take several weeks for repairs and clean up in order to restart.
- As of 3:00 PM EDT September 16, Dauphin Island Gathering Partners reports that maintenance at the Mobile Bay processing plant has been completed and the pipeline system has resumed normal operations.
- Due to flooding in the area, The Williams Company reports that ground transportation into the area is prohibited to assess the damage of its Larose processing plant in Lafourche Parish, LA. The 600 MMcf/d operating capacity plant is part of the Discovery Gas Transmission pipeline system (also owned by Williams). Discovery reported to its customers on September 16 that all offshore receipts on its system are currently unavailable; however, some onshore receipt and delivery points are accepting gas flow at reduced levels.
- There are 39 major natural gas processing plants in the path of Hurricane Ike with a total operating capacity of 17.6 billion cubic feet per day (Bcf/d). As of 8:00 AM EDT, September 17, the Energy Information Administration (EIA) has confirmed that 19 plants remain shut down which includes those plants still impacted from Gustav, totaling an operating capacity of 9.42 Bcf/d (approximately 54 percent of the capacity in Hurricane Ike's path). In addition, EIA reports that 13 plants have resumed operations at reduced or normal levels totaling 5.28 Bcf/d operating capacity and 6 plants are capable to restart totaling 2.65 Bcf/d operating capacity once power is restored or upstream gas flow commences.
- As of September 17, Enterprise Products Partners L.P reports that the North Terrebonne plant in LA (1,350 MMcf/d operating capacity) is inoperable due to water damage after Hurricane Ike. While North Terrebonne is being repaired, natural gas can be diverted to another Enterprise plant for processing. In addition, the 1,100 MMcf/d operating capacity Toca processing plant in St. Bernard Parish, LA has been reported by Enterprise as ready for operations but is waiting for upstream gas flow. Both of these plants are not depicted on the table below.



**U.S. Department of Energy
Emergency Support Function 12**

Force Majeure / Critical Notice Posting by Natural Gas Pipelines as of 9/17/08 9:00 AM EDT

Pipeline Name	Time Stamp	Notice (Status)
ANR Pipeline Co.	9/16/08	Preliminary inspections of ANR Southeast Area facilities have begun. Houston office remains closed.
Chandeleur Pipeline Co.	9/16/08	Operationally Scheduled Volumes indicates pipeline is flowing at 75% of pre hurricane levels.
Columbia Gulf Transmission	9/14/08	Flow from offshore points has been reduced to approximately 20% of normal operating capacity.
Destin Pipeline Co.	9/15/08	Pascagoula processing plant declares Force Majeure Monday, Sept. 15.
Discovery Gas Transmission	9/16/08	Offshore receipts are currently unavailable pending assessments; some onshore receipt & delivery pts accepting gas flow at reduced levels.
Enbridge (UTOS)	9/15/08	The onshore facilities have 4 to 5 feet of standing water. Operations personnel will be attempting to gain access Tuesday, September 16.
Garden Banks Gas Pipeline	9/15/08	Force Majeure declared Tuesday, Sept 9. Initial flyover for damage assessment is being conducted.
High Island Offshore System	9/16/08	Force Majeure from Sept 10 remains in effect until evaluation of facilities is completed.
KinderMorgan (Texas & Tejas)	9/13/08	Force Majeures declared Friday, Sept 12. No storage capability.
Manta Ray Offshore Gathering	9/15/08	Force Majeure declared Tuesday, Sept 9. Some damage reported to platforms & offshore facilities. Repair crews are en route.
Mississippi Canyon Pipeline	9/15/08	Force Majeure carried over from Gustav – Personnel onsite; no major damage reported. Venice plant reported under water.
Natural Gas Pipeline Co of America	9/16/08	Force Majeure declared Thursday, Sept 11. Compressor Stations 342, 346, 302, 343 remain shut down in TX and LA. A leak was discovered during evaluation of Station 342 and pipeline section has been isolated.
Nautilus Pipeline Co.	9/15/08	Force Majeure declared Tuesday, Sept 9. – No confirmed damage; assessments underway.
Sabine Pipe Line (Henry Hub)	9/16/08	Force Majeure has been lifted for certain points along the system. Henry Hub is accepting gas flow but compression remains unavailable.
Sea Robin Pipeline Co.	9/16/08	Inspection of facilities underway. Sea Robin processing plant remains shut down, pending assessment. Some offshore systems have experienced some damage that will limit a full return to service.
Southern Natural Gas Co.	9/16/08	Offshore facility inspection is underway - Sonat has an estimated loss in supply of 430 MMcf/d as a result of the hurricanes.
Stingray Pipeline Co.	9/15/08	Forced Majeure declared Wednesday, Sept 10. - Damage assessments underway. Potential leaks in interconnecting gathering lines.
Tennessee Gas Pipeline	9/16/08	Estimates current supply loss to be at approximately 1.0 Bcf.
Texas Eastern Transmission	9/16/08	Flow at zero at points on the Cameron, South Pass & Main Pass lines.
Texas Gas Transmission	9/16/08	Henry Hub point available for gas flow.
Transcontinental Gas Pipe Line	9/15/08	Emergency Gas Supply Procedures remain in effect. Currently assessing onshore & offshore facilities.
Trunkline Gas Pipeline	9/16/08	Force Majeure declared Monday, Sept 15. Some offshore systems have experienced some damage that will limit a full return to service. Flooding at Centerville Compressor Station limiting gas flow to Henry Hub.
Venice Gathering System	9/10/08	Remains shut in from the effects of Gustav.
Dauphin Island Gathering	9/16/08	Force Majeure lifted as Mobile Bay (Duke) processing plant completed maintenance. System will resume normal operations.
Black Marlin Pipeline	9/15/08	Force Majeure declared Friday, Sept 12. - no gas flow being accepted.
Gulf South Pipeline	9/12/08	Critical Period still in effect-Flow on certain segments reduced. Houston office remains closed (Sept 15)
Northern Natural	9/11/08	Force Majeure declared Friday, Sept. 12 - Matagorda Offshore Pipeline System.



**U.S. Department of Energy
Emergency Support Function 12**

Natural Gas Processing Plants in the Path of Ike & Gustav as of 9/17/08 8:00 AM EDT							
Plant Name	Location	Impact	Capacity (million cubic feet per day) ¹				
			Design System Operation	Shut Down	Capable to Restart ²	Operating at Reduced Level	Normal
EAST LA / AL							
Ysloskey	St. Bernard, LA	G	1,850	1,850			
Venice	Plaquemines, LA	G	1,300	1,300			
Pelican	St. Mary, LA	G	600	600			
Larose	Lafourche, LA	G + I	600	600			
Plaquemine	Iberville, LA	G	225	225			
Burns Point	St. Mary, LA	G	160	160			
Mobile Bay (Duke)	Mobile, AL	M	300				300
WEST LA / EAST TX							
Eunice	Acadia, LA	G + I	1,200			1,200	
Sea Robin	Vermilion, LA	G + I	950	950			
Bluewater	Acadia, LA	G + I	950		950		
Cameron Meadows	Cameron, LA	G + I	500	500			
Iowa	Jefferson Davis, LA	G + I	500				500
Grand Chenier II	Cameron, LA	G + I	400	400			
Sabine Pass	Cameron, LA	G + I	300	300			
Stingray	Cameron, LA	G	300	300			
Lowry	Cameron, LA	G + I	265		265		
Barracuda	Cameron, LA	G + I	225	225			
Gillis	Calcasieu, LA	G + I	180		180		
Dubach	Lincoln, LA	G	175				175
East Texas (MarkWest)	Panola, TX	I	780	780			
East Texas (DCP)	Panola, TX	-	750		750		
Godley (Forth Worth II)	Johnson, TX	I	300	300			
Port Arthur	Jefferson, TX	G + I	200		200		
Carthage	Panola, TX	I	175	175			
Indian Springs	Polk, TX	I	150	150			
CENTRAL EAST TX							
Houston Central	Colorado, TX	-	700			700	
Markham	Matagorda, TX	G + I	300		300		
Matagorda*	Matagorda, TX	G + I	250				
Armstrong	De Witt, TX	I	250				250
Point Comfort	Calhoun, TX	I	200	200			
Old Ocean	Brazoria, TX	I	200	200			
Wilcox	Lavaca, TX	I	220				220
La Grange	Fayette, TX	I	200	200			
Waskom	Harrison, TX	-	150				150
SOUTH EAST TX							
King Ranch	Kleberg, TX	-	925				925
Shoup	Nueces, TX	-	290				290
La Gloria	Jim Wells, TX	-	265				265
Gregory	San Patricio, TX	I	150			150	
Gulf Plains	Nueces, TX	-	150				150

Note: Storm column indicates hurricanes impacting processing plant: G = Gustav; I = Ike, G+I = Both storms, M = Maintenance, and - = no impact
 "N/A" (Not Available or Confirmed) identifies those plants that are in the path of Ike that have not yet been confirmed of their status.

¹ The capacity represents the design capacity of the plants and does not represent the actual gas flow through these plants.

² Confirmed plants capable to restart after electricity is restored or when upstream gas flow commences service.

* The Matagorda processing plants has been idle (mothballed) prior to Hurricane Gustav/Ike.

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



Electricity Updates:

Louisiana:

As of: 9/17/2008 6:00 AM EDT



- As of 6:00 AM EDT September 17, there are 32,075 customers without power in Louisiana:
 - Entergy 16,057 customer outages
 - SWEPCO 1,439 customer outages
 - CLECO 489 customer outages
 - Cooperative utilities have a combined 14,090 customer outages
- The remaining 7,271 outages are due to Gustav. Entergy has restored power to over 950,000 customers who lost power due to Gustav and Ike. Entergy reports that remaining Gustav damage to the transmission system includes 14 lines and 7 substations out of service.

Texas:

As of: 9/16/2008 9:00 PM EDT



Electricity Outages: Utility Detail			
Texas			
Utility	Outages	Total Utility	% w/o Power
SWEPCO	9,882	168,589	5.9%
Entergy Texas	332,003	398,635	83.3%
CenterPoint	1,361,729	2,076,978	65.6%
ONCOR	30,209	2,253,929	1.3%
TX New Mexico Power Co	54,228	113,370	47.8%
All Cooperatives	127,505	389,073	32.8%
TOTAL	1,915,556	5,400,574	

Total utility customers are based on field reports.

Note: due to a large number of service providers, including investor owned utilities and cooperatives, the number of customer outages reported may not be comprehensive.

- As of 9:00 PM EDT September 16, 1,915,556 customers are reported without power in Texas. This is reduction of about 160,000 customers from Situation Report No. 6.
- As of 7:00 PM EDT September 16, CenterPoint equipment outages include:
 - Distribution circuits - 936 or 63 percent
 - Transmission circuits – 21, or 6 percent
 - Power Transformers – 44, or 8 percent
 - Auto Transformers – 2, or 3 percent



U.S. Department of Energy Emergency Support Function 12

Additional State Reports:

- Ike caused major power outages in Arkansas and parts of the Midwest, Ohio Valley and Northeast. **Outages as of 8:00 AM EDT September 17:**
 - Ohio - 795,100 outages, 14 percent of total customers
 - Kentucky – 240,900 outages, 11 percent of total customers
 - Indiana – 56,000 outages, 2 percent of total customers
 - Pennsylvania – 37,300, less than 1 percent of total customers
 - Arkansas – 8,668 outages, less than 1 percent of customers
 - New York – 2,500 outages, less than 1 percent of total customers
 - Missouri - 150 outages, less than 1 percent of total customers
 - Illinois - 14 outages, less than 1 percent of total customers
 - West Virginia – 1,200 outages, less than 1 percent of total customers

Restoration Updates:

- **As of 9:00 PM EDT September 16, CenterPoint has restored power to over 750,000 customers.** Centerpoint estimates that 50 to 75 percent of its customers will have power restored within seven to ten days; the remainder within three weeks, based on current assessments.
- **CenterPoint reports that 8,000 mutual assistance crews from 34 states and Canada are involved in the restoration.** Highlights of CenterPoint's recent restoration include:
 - The Department of Energy Bryan Mound facility, an important component of the United States Strategic Petroleum Reserve
 - Colonial Pipeline
 - 43 area hospitals
- Entergy and CenterPoint worked together to restore an emergency tie between the two companies to the main water supply for the city of Houston.
- **Entergy reports Current transmission outages caused by Ike include 156 transmission lines and 216 substations out of service across the service territory. In addition, the storm destroyed 132 transmission structures and damaged 205 more. Estimated distribution system damage caused by Hurricane Ike to Entergy's system include 4,031 poles 1,564 transformers, 4,153 cross arms and 5,355 service connections damaged or destroyed, and 9,368 spans of wire knocked down.**
- **Entergy reports that the expected return to service of Entergy's Lewis Creek plant near Willis, Texas, on September 16, combined with transmission repairs, will allow Entergy in its area north of Houston to serve 10 times more customer load than is currently possible and avoid potential rolling blackouts.**
- **The loss of generation from Entergy's Sabine plant due to flooding from Hurricane Ike's storm surge resulted in a generation shortfall in the Western region of Entergy Texas, Inc.'s territory. Until damage to the plant can be assessed and restoration time can be estimated Entergy is**



U.S. Department of Energy Emergency Support Function 12

balancing system load and generation. Flood waters at Sabine have receded and safety assessment and environmental clean-up has begun.

- Entergy restoration reports 12,800 crews across Arkansas, Louisiana and Texas, down from 14,000 as some contract crews were recalled to restore power in other states affected by Ike.
- In Texas, Entergy restoration estimates by area are:
 - September 21 - Orange, Vidor
 - September 22 - Navasota
 - September 23 - Port Arthur, Port Neches, Nederland, Groves
 - September 25 - Winnie, Anahuac, Dayton, Ames, Daisetta, Batson, Saratoga, The Woodlands
 - September 29 – Woodville, Silsbee, Lumberton, Kountze, Conroe, Huntsville, Madisonville
 - October 5 - New Caney, Cleveland
 - October 6 - Beaumont, Bevil Oaks, Sour Lake
 - Flooded – no date determined-Country Club Estates near Port Arthur, Bolivar Peninsula, and Sabine Pass
- In Louisiana, Entergy reports that restoration should be essentially complete in Lafayette and Jennings on September 17 and in Lake Charles and Sulphur September 18. Restoration estimates by Parish are:
 - September 16 - Acadia, Allen, East Feliciana
 - September 17 - Assumption, East Baton Rouge
 - September 18 – Calcasieu, Jefferson (lower portion only, except Grand Isle), Plaquemines, St. Bernard
 - September 20 - Lafourche (except Fourchon)
 - September 24 - Ascension (Donaldsonville), Iberville, St. Martin
 - September 25 - Lafourche (Fourchon)
 - September 27 - Terrebonne
 - October 1 - Jefferson (Grand Isle)