

**OFFICE OF ENERGY ASSURANCE
U.S. DEPARTMENT OF ENERGY
Hurricane Ivan Situation Report #4
September 17, 2004 (4:00 PM EDT)**

HIGHLIGHTS

- DOE is currently staffing the ESF-12 desks at the FEMA Headquarters National Emergency Operations Center; the FEMA Region 4 Regional Operations Center in Atlanta, GA; the Florida State EOC in Tallahassee; and the Orlando Disaster Field Office, which has been given post-Ivan Federal recovery responsibilities. The FEMA Region 6 Regional Operations Center in Denton, TX, has been deactivated and the DOE assets there have been redeployed to Orlando.
- Ivan is forecast to move to southwestern Virginia by this evening. Approximately 1.7 million customers in its wake (see chart below) remain without power; the number increased from the last report chiefly because Alabama had not included some outages in its preliminary reporting. The fear is that flooding may cause both additional outages and hamper restoration activities in many States (such as Tennessee and North Carolina) now experiencing heavy rains or the impact of heavy rains in neighboring States.
- EA continues to monitor Tropical Storm Jeanne, which may impact the U.S. Eastern Seaboard. As of 2:00 PM EDT 9/17, Tropical Storm Jeanne's maximum sustained winds are estimated near 50 mph. The National Weather Service indicates that it may gather strength and become a Category 1 hurricane -- the projected path of the storm currently would take it into Florida around the Jacksonville area. The center of Jeanne is located just north of the coast of Hispaniola near the Dominican Republic/Haiti border and is moving west-northwest near 8 mph. An image of the current storm path is available at:
<http://www.nhc.noaa.gov/ftp/graphics/AT11/refresh/AL1104W5+GIF/171508W5.gif>

ELECTRIC INFORMATION

STATE OUTAGE DATA

Utility	Customers w/o Power	Total Customers	% Customers w/o Power from Ivan
Florida	399,094	8,877,905	4.5%
Alabama	912,063	2,317,229	39%
Mississippi	65,105	1,406,803	4.6%
Louisiana	1,373	2,110,768	<1%
Georgia	223,400	4,150,000	5.4%
Tennessee	15,000	2,896,050	0.5%
North Carolina	84,900	4,315,789	1.9%

Total	1,700,935	26,074,544	6.5%
--------------	------------------	-------------------	-------------

Source: Total Customers – EIA Electric Sales and Revenue 2002 and Florida EOC. Sources for Alabama, Florida, Georgia, Louisiana, and Mississippi are from the State Emergency Operations Centers. Source for North Carolina is Progress Energy.

State Outage Information

- Florida** – 13 Florida counties have reported outages from Hurricane Ivan in the westernmost Florida Panhandle region, totaling 399,094 customers. Gulf Power Company reports that "damage to Northwest Florida's electric system has been catastrophic" and that their crews are well into the process of assessing damage. Plant Crist, the generating plant in Escambia County, has been damaged as well as 790 miles of the large transmission lines that carry electricity from the plants to substations. They hope to get Plant Crist up and running and repair some transmission lines. Tree trimming crews are working throughout the area clearing the trees and clearing down power lines." Gulf Power also is working today to get power restored to hospitals, sewer plants, water pumping stations and police and fire departments. More than 1,800 outside workers are headed into Northwest Florida to aid in the restoration effort. From Hurricane Frances fewer than 4,000 customers remain without electricity. See table below for hard hit county information:

**FLORIDA COUNTY OUTAGE DATA –
Data shown in the Table are as of 9/17/04 (3:00 PM EDT)**

County	Customers w/o Power	Total Customers	% Customers w/o Power
Bay	62,364	98,755	63%
Escambia	147,933	154,995	95%
Holmes	6,500	10,150	64%
Jackson	2,011	14,175	14%
Okaloosa	90,616	99,980	91%
Santa Rosa	60,407	61,692	98%
Walton	20,215	40,798	50%
Washington	6,696	12,542	53%

- Georgia** – Georgia Power and state cooperatives report that some 223,400 customers are without electricity (municipals have not yet reported) this is down from 265,357 in the 9/17 10:00 EDS Situation #3 report.
- Alabama** - Currently 912,063 customers remain without power including 250,000 customers of cooperatives and 33,000 customers of TVA. The Situation #3 outage number did not include additional information for cooperatives and TVA which are now included. Alabama Power has warned that "some customers should expect and plan for extended outages." Their crews will be out in full force today, completing their assessment of storm damage from Hurricane Ivan and continuing restoration efforts and they add, "Today marks the first time weather conditions will permit a full inspection and evaluation of the damage across our service territory." Their crews

will begin to be augmented by workers from 14 other states: Arkansas, New York, Minnesota, Pennsylvania, Michigan, New Mexico, Texas, Tennessee, Wisconsin, Ohio, South Carolina, Florida, Mississippi and Georgia. The company continues to work to secure additional help. Alabama Power reported that this is a record outage for the company, which peaked at 835,000, Thursday, 9/16. The previous record was in 1995 when Hurricane Opal hit, resulting in 476,000 outages. Hurricane Ivan caused far more power outages than any natural disaster in Alabama history, affecting more than 60% of Alabama Power customers. The total outages from this one hurricane are about the same as the total outages from the two worst previous storms, which struck the State (the Blizzard of 1993 and Hurricane Opal in 1995).

- **Mississippi** - 65,105 customers remain without power in the state. Mississippi Power reports that its crews have restored more than half of their customers who lost power from damage caused by Hurricane Ivan. They report that less than 24,000 customers remained without service, primarily along the Gulf Coast and around Meridian. The rest of the outages are customers of municipalities and cooperatives.
- **Louisiana** - Currently, 1,373 Louisiana customers are without power, down from 51,070 in Situation Report #2.
- **North Carolina** – Progress Energy of the Carolinas is reporting that some 84,900 customers are without power in the western part of the state.
- **Tennessee** – Approximately 15,000 Tennessee customers are without power.
- **Puerto Rico** - No update is currently available. Power was turned off on the island in preparation for Hurricane Jeanne, and unconfirmed local press reports suggest that flooding has so hampered efforts to turn the lines back on that it may take several days to restore service.

OIL AND GAS INFORMATION

Status of Refineries Following Hurricane Ivan (9/17/04)

Refiner	Location	Capacity (bbl/day)	Status
Shell Oil	Saraland, AL	85,000	Shut down – no update
Chevron	Pascagoula, MS	325,000	Remains shut down
ExxonMobil	Chalmette, LA	182,500	Resuming operations
Marathon	Garyville, LA	254,000	Normal operations
ExxonMobil	Baton Rouge, LA	493,500	Near normal operations
Motiva	Convent, LA	235,000	Restarting- some problems
Motiva	Norco, LA	226,500	Resuming operations
Murphy	Meraux, LA	120,000	Resuming operations
Valero (Orion)	St. Charles, LA	155,000	Resuming full operations by

			September 20
Valero	Krotz Springs, LA	78,000	Shut down – no update
Valero	Texas City, TX	204,250	Reduced runs
BP	Texas City, TX	437,000	Reduced runs – No update
Citgo	Lake Charles, LA	324,300	Reduced runs – No update
Shell	St. Rose, LA	55,000	Shut down – no update
ConocoPhillips	Belle Chasse, LA	235,500	Resuming operations
ConocoPhillips	Wood River, IL (PADD II)	288,300	Reduced runs
ConocoPhillips	Borger, TX	145,800	Resuming operations
Premcor	Memphis, TN (PADD II)	180,000	Reduced runs

LA Offshore Oil Platform:

The LOOP is currently open. The LOOP expects to receive an incoming vessel later today. This will help refineries in Baton Rouge and Memphis with much needed crude supplies.

Crude Oil and Gas Production:

According to the Department of Interior's Mining and Mineral Service, the latest information shows 1.23 million barrels a day of shut-in oil production, a drop from yesterday's 1.41 million barrels per day. Shut-in is equivalent to 73% of daily production of crude. Shut-in gas production remains at approximately 5.12 BCFPD, a drop from yesterday's 6.52 BCFPD. This equivalent to roughly 42% of daily natural gas production.

Port Status (per Coast Guard, 9/17/04 AM)

- Panama City - Closed
- Pensacola - Closed
- Mobile - Closed
- Gulfport - Closed
- New Orleans - Lower Mississippi now open
- Morgan City - Open

Georgia Low Sulfur Gasoline Waiver

The State of Georgia Environmental Protection Division has issued a letter exercising enforcement discretion to allow gasoline distributors to supply gasoline that does not meet the low sulfur gasoline standards in the metro-Atlanta area, to the extent necessary to meet supply needs in the area. The enforcement discretion is effective until midnight on September 24, 2004. The US EPA has agreed to the waiver and will issue a letter later today.

Natural Gas Pipelines Status Following Hurricane Ivan (9/17/04)

Pipeline Company	Supply Interruption	Status
Florida Gas Transmission	NA	FGT repaired Compressor Station 12 Thursday night. Repairs were made and Station 12 is currently running. For the gas day of Friday, September 17, FGT will be scheduling up to normal capacity into the Market Area. Demand on the FGT system continues to be high. Overage Alert Day for gas day 9/17/04-9/18/04 (2% tolerance).
Gulfstream Natural Gas	NA	Significant gas supply interruptions in Mississippi and Alabama (expected to grow to 800 MMcf/d). Action Alert for gas day 15 issued; will remain in effect until further notice.
Natural Gas Pipeline (Kinder Morgan)	NA	Effective for gas day Friday, September 17, 2004, and until further notice, Segment 25 has capacity available for eastbound transport volumes. Segment 25 is located in the Texok-Gulf Coast Zone going eastbound from Station 302 in Montgomery County, Texas. Segments 23 and 24 have very limited capacity available for eastbound transport volumes. Segment 23 is located in the Louisiana Zone going eastbound through Station 342 in Cameron Parish, Louisiana. Florida – Vermilion is at capacity for deliveries. Florida -Vermilion is located in Vermilion Parish,

		Louisiana (Segment 24) in Natural's Louisiana Zone going eastbound through Station 346 in Cameron Parish, Louisiana.
Southern Natural Gas Company	NA	Due to damage to their facilities upstream of Southern's Toca Compressor station from Hurricane Ivan, Southern can not accept nominations for receipts upstream of its Toca Compressor Station until the operational integrity of that part of Southern's system can be assured.
Tennessee Gas Pipeline	NA	Working on repairing a leak upstream of Station 523. Operators and producers located on the 523M-2300 line (TTT) from Eugene Island 365 to Ship Shoal 198, and operators and producers located between Ship Shoal 198 and Cocodrie need to remain shut-in.
Texas Eastern Transmission	NA	Scheduled outage of the Vidor Compressor station starts 9/15/04 through month end. Cannot schedule any interruptible or preferential firm out of the STX/ETX area.
Trunkline Gas	NA	Trunkline personnel have completed their inspections of the pipeline facilities, and started accepting Intra-day Nominations
Williams Gas Pipeline/TRANSCO	NA	Transco continues to expect the production area supply to return to normal levels over the next few days. Effective with the gas day of September 17, 2004 Transco has returned to its normal scheduling procedures and will not continue the Emergency Supply Allocation procedures.

Information obtained from Company web sites.