

**OFFICE OF ENERGY ASSURANCE
U.S. DEPARTMENT OF ENERGY
Hurricane Charley Situation Report:
August 14, 2004 19:00 EDT**

HIGHLIGHTS

- Office of Energy Assurance is supporting ESF-12 function at Regional Operations Center in Atlanta, GA.
- Office of Energy Assurance will support ESF-12 desk at FEMA-HQ in Washington, D.C
- Regions where ROC's are active - 4, 6, 3, 2, 8, 10. Many in support of Region 4.

Utility Outage and Recovery Data Available	
SOUTH CAROLINA	
South Carolina Electric & Gas	9,000 customers without power - primarily in the East Cooper area of Charleston (4:00 PM EDT, 8/14/04)
Santee Cooper	25,000 customers reported without power, down from the peak of 65,000 (of a total of 141,000 metered customers) (5:00 PM EDT, 8/14/04)
NORTH CAROLINA	
Progress Energy (North Carolina)	Reports 94,000 Customer Outages (1:00 PM EDT, 8/14/04)
FLORIDA	
Progress Energy	Total Customer Outages: 466,382 (as of 5:00 PM EDT 8/14) Florida outages by county: - Orange 181,391 - Seminole 97,595 - Polk 50,324 - Highlands 45,073 - Volusia 56,136 - Osceola 19,945 - Lake 11,498 - Hardee 2,173 Progress Energy will release updated outage figures four times daily: 5 a.m., 11 a.m., 4 p.m. and 10 p.m.
Florida Power and Light	648,000 customers were without power in the following areas: Fort Myers/Naples Lee - 169,000 Collier - 111,000 Charlotte - 84,000 Hendry - 3,000 Sarasota/Bradenton Sarasota - 26,000 DeSoto - 14,000 Northeast Coast Volusia - 130,000 Seminole - 30,000 Flagler - 29,000 St. Johns - 10,000 Putnam - 2,000 East Coast Brevard - 37,000 Other - 3,000 FPL expects these numbers to change as we continue assessments.

Jacksonville Electric Authority	Currently, there are no customer outages reported in the JEA service area as of (6:10 EDT 8/14/04). (Out of 384,892 metered customers)
Seminole Electric Cooperative	Reports 200,000 customers without power.

ELECTRIC UTILITY INFORMATION

Florida Update:

- Florida Power & Light Company's** preliminary overnight assessment of customer homes and businesses indicates that more than 650,000 are without power. FPL customers in southwest, south central and northeast Florida have been heavily impacted by Charley. FPL serves 4.2 million homes and businesses in all or parts of 35 counties in Florida, including the entire eastern seaboard and the southwest Gulf Coast from Bradenton/Sarasota to Fort Myers/Naples. FPL has a trained workforce of 10,000 working to begin damage assessment and power restoration. Approximately 6,000 FPL workers will be deployed in the field and 4,000 in support roles. Another 3,500 field personnel are arriving over the weekend from other utilities through mutual aid assistance programs. If needed, FPL expects to be able to secure additional resources as other utilities in the southeast U.S. are able to release workers that aren't needed at home.
- Progress Energy Florida** crews are in the field restoring power and assessing the damage left by Hurricane Charley. As of 11 a.m., 434,199 of the company's customers were without power, down from a peak of 502,000 at midnight Friday. Current outage totals by county are: Orange (172,023), Polk (48,307), Osceola (19,618), Highlands (44,883), Seminole (98,163), Volusia (39,035), Lake (10,006) and Hardee (2,164).
- Right now only assessments are mainly being done with very few to no restoration efforts being done in the hardest hit areas until assessments are complete. Distribution crews are working, but will not be able to restore (energize lines) due to the transmission damage.
- At least 1200 MW of generation is offline due to damage at power plants: Tiger Bay (233 MW) has 3 out of 4 cooling towers damaged. Hines has lines down at the plant and several enclosures were blown off and there appear to be electronics damage to the physical part of the plant's control system. This will require engineers to evaluate the severity. The small Rio Pinar plant (20 MW) lost its battery bank and a vehicle was blown into a storage tank. Normally Florida's system could handle the loss of these three plants; however, with the severe damage to the transmission lines, only limited power can be imported so the loss of the plants is critical to some areas receiving power.
- One security manager called the current status "a very serious situation". The number of outaged customers will probably rise as more accurate damage assessments are done and contact is made with the hardest hit utilities. Transmission line repair is the current priority once the damage assessments are complete. The utilities are not estimating restoration times, but once the transmission lines start coming back up, large groups of customers will start to come back on line. The transmission line repair will take between days to a week for the most part in our estimation.
- Nuclear Regulatory Commission** Update, 8/13/04 - The single-unit, 838-MW Crystal River Nuclear Plant is located near Crystal River, Fla., 90 miles north of Tampa and on the Gulf Coast. The site also includes four coal-fired generating units that generate 2,302 MW. Charles A. Casto, acting Regional Administrator of the agency's Region II office in Atlanta, said the NRC has activated its Atlanta Incident Response Center to monitor and assist Florida's nuclear power

plants at Crystal River, St. Lucie, and Turkey Point. He said additional NRC personnel have already been dispatched where needed to the plants and to Florida’s Emergency Response Center in Tallahassee.

Carolinas/Georgia Update:

Restoration work has begun in many parts of the Carolinas:

- **South Carolina Electric & Gas** - Approximately 9,000 customers are without power in the Charleston area as post-hurricane restoration work continues. (4:00 PM EDT)
- **Santee Cooper** crews have begun working to restore power in all affected areas of Horry and Georgetown counties, now that Hurricane Charley has moved through the Grand Strand area. Minimal damage was done in Berkeley County and those outages have been restored. Santee Cooper's line crews are fully mobilized and working to restore power as safely and quickly as possible. Approximately 65,000 customers are reported to be without power with the bulk of them located in Myrtle Beach, Conway, Murrells Inlet and Pawleys Island. Most of the outages were caused by downed trees and fallen tree limbs. The total number of outages is expected to increase as customers who were evacuated return home and discover their power is out. Priority is being given to restoring power to health-care facilities, emergency shelters and public-safety offices. Santee Cooper is South Carolina's state-owned electric and water utility serving more than 141,000 retail customers in Berkeley, Horry and Georgetown Counties.
- As of midday Saturday, Hurricane Charley damages to **South Carolina Electric and Gas (SCE&G)** service territory were centralized in the Charleston-Mt. Pleasant-McClellanville area. Approximately 32,000 customers in that area were without power as of 10 a.m. Now that the storm has passed, SCE&G crews will begin assessing damages and making repairs. Crews are on their way to the area from other parts of the service territory to provide assistance.
- **Georgia Power** has committed 225 line crew personnel, engineers and other technical support staff and 175 contractors to help in power restoration efforts. In addition, two storm semi-trucks will transport supplies and equipment to personnel in the field. All crews are scheduled to arrive at staging areas in Brunswick, Kingsland and Savannah by midday Saturday.

Delaware/Maryland/Virginia Update

- **Dominion Power** Outages in Virginia are listed below. Note, not all may be storm related. Data as of 6:10 PM EDT 8/14/04.

Area	Customers Assigned	Customers Out
Northern Virginia Area	739,433	58
Shenandoah Valley/Wstrn Piedmont	166,941	5
Richmond Metro/Tri Cities	449,634	870
Southside Virginia Area	66,432	30
Gloucester / Northern Neck	56,854	18
Southeastern Virginia Area	650,659	1,558
North Carolina Area	116,818	7,746
System Total	2,246,771	10,258

- **Baltimore Gas and Electric Company (BGE)** Power Outages in Maryland are listed below. Note, not all may be storm related. Data as of 6:10 PM EDT 8/14/04

Area	Customers Assigned	Customers Out
Anne Arundel	220,182	9
Baltimore	355,575	221
Baltimore City	269,899	5
Calvert	7,178	0
Carroll	54,511	8
Harford	93,111	5
Howard	107,665	9
Montgomery	13,183	2
Prince George's	73,506	0
Total	1,194,810	259

- **Conectiv Power** – Delivery Service reports that there are 133 customers without power at 6:00 PM EDT 8/14/04.
- **Conectiv Power** – Delivery Service has strengthened its normal weekend staff, including field crews and Call Center representatives. Conectiv Power Delivery's remaining employees are prepared to report for work on short notice during the weekend if warranted by worsening weather conditions. Conectiv Power Delivery also is coordinating with utilities outside the storm's path, including some as far away as New England and Michigan, in case additional personnel are needed under the utility industry's mutual aid pacts. While Hurricane Charley is expected to be downgraded to a tropical storm by the time it hits the Mid-Atlantic region, there is concern that heavy rains, if accompanied by high winds combined with saturated ground conditions, could topple trees and result in power outages.
- **Baltimore Gas and Electric Company (BGE)** today announced that it has pre-mobilized in anticipation of possible heavy rain and strong wind associated with Hurricane Charley. More than 750 BGE employees and contractors are on stand-by to perform storm- restoration activities should Charley cause substantial damage to its Central Maryland service territory. Once the storm has cleared the area and it is safe to do so, BGE will begin assessing damage and commence restoration.

PETROLEUM INDUSTRY INFORMATION

The U.S. Minerals Management Service (MMS) said on Friday Tropical Storm Bonnie led to a cut in production of nearly 1.26 million barrels of crude oil and more than 4.1 billion cubic feet of natural gas output in the Gulf of Mexico. The lost crude production amounted to more than 23 percent of the 5.39 million barrels of oil the entire U.S. produced in the week ended Aug. 6, according to MMS. The MMS figures include lost production from Tuesday through Friday morning. The MMS survey includes reports to it by 41 companies through Thursday and 10 companies on Friday. According to MMS, the amount of shut production fell on Friday. MMS reported that 18.45 percent of the Gulf's 1.7 million barrels per day (bpd) of crude production was shut, down from 28 percent on Thursday. About 7.4 percent of the Gulf's 12.3 billion cubic feet per day of natural gas production was shut in on Friday, down from 9 percent on Thursday. Reuters 13:05, August 13, 2004. (<http://www.gomr.mms.gov/homepg/whatsnew/newsreal/2004/040813.html>)

Companies including Anadarko, Apache, Marathon, Devon, Shell, Hess, ChevronTexaco and ExxonMobil have all evacuated personnel from some rigs in the Gulf of Mexico, but reports indicate that ExxonMobil was already returning personnel to evacuated rigs Friday afternoon.

No terminal operators plan to close their terminals to truck loadings today, but terminal operators have been told that the Port of Tampa will close this afternoon to waterborne traffic, as per an order from the Coast Guard, so no terminals will be able to receive incoming product deliveries via barge or ship until the port reopens. Hurricane Bonnie has already caused delays in barge deliveries, with reports that at least one terminal in Tampa is currently out of product, the Marathon Ashland terminal, while others are running short on supply. But the disruption to barge operations in the Gulf of Mexico is reaching further, with some East Coast terminal operators also reporting that they are running low on various products due to delays in deliveries via barge. Petroleum marketers and dealers in some areas are bracing for station closures. Some will seek alternate supply from the Taft terminal in Orlando. Stations in Tampa, Clearwater, St. Petersburg, and Ft. Myers, and up north in Holiday and Pasco County are among those that could be affected by the hurricane.

NATIONAL HURRICANE CENTER UPDATE

TROPICAL STORM CHARLEY FORECAST/ADVISORY NUMBER 23
NWS TPC/NATIONAL HURRICANE CENTER MIAMI FL AL032004
2100Z SAT AUG 14 2004

A TROPICAL STORM WARNING REMAINS IN EFFECT FROM CAPE LOOKOUT NORTH CAROLINA NORTHWARD TO THE MERRIMACK RIVER MASSACHUSETTS INCLUDING THE PAMLICO AND ALBEMARLE SOUNDS...THE TIDAL POTOMAC...CHESAPEAKE BAY...DELAWARE BAY....NEW YORK HARBOR AND LONG ISLAND SOUND. AT 5 PM...WARNINGS ARE DISCONTINUED SOUTH OF CAPE LOOKOUT.

TROPICAL STORM CENTER LOCATED INLAND NEAR 36.0N 77.0W AT 14/2100Z
POSITION ACCURATE WITHIN 30 NM

PRESENT MOVEMENT TOWARD THE NORTH-NORTHEAST OR 30 DEGREES AT 26 KT

ESTIMATED MINIMUM CENTRAL PRESSURE 1000 MB
MAX SUSTAINED WINDS 60 KT WITH GUSTS TO 75 KT.
50 KT..... 50NE 50SE 15SW 15NW.
34 KT..... 75NE 75SE 30SW 30NW.
12 FT SEAS..150NE 150SE 0SW 0NW.
WINDS AND SEAS VARY GREATLY IN EACH QUADRANT. RADII IN NAUTICAL MILES ARE THE LARGEST RADII EXPECTED ANYWHERE IN THAT QUADRANT.

REPEAT...CENTER LOCATED NEAR 36.0N 77.0W AT 14/2100Z
AT 14/1800Z CENTER WAS LOCATED NEAR 34.5N 78.1W

FORECAST VALID 15/0600Z 39.5N 74.5W
MAX WIND 50 KT...GUSTS 60 KT.
50 KT... 50NE 50SE 0SW 0NW.
34 KT...100NE 125SE 0SW 0NW.

FORECAST VALID 15/1800Z 42.7N 70.6W
MAX WIND 30 KT...GUSTS 40 KT.

FORECAST VALID 16/0600Z 44.9N 66.7W...EXTRATROPICAL
MAX WIND 30 KT...GUSTS 40 KT.

FORECAST VALID 16/1800Z 46.5N 62.0W...EXTRATROPICAL
MAX WIND 30 KT...GUSTS 40 KT.

FORECAST VALID 17/1800Z 48.5N 52.0W...EXTRATROPICAL
MAX WIND 30 KT...GUSTS 40 KT.

STORM TRACK (5:00 PM EDT, 8/14/04)

