



U.S. Department of Energy
Emergency Support Function 12

Hurricane Gustav Situation Report # 1
September 1, 2008 (11:00 AM EDT)

Summary

Table with 3 columns: Impacted State, Electric Customer Outages, % of State Out. Includes sub-sections for Electricity and Petroleum & Natural Gas.

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:

- According to the National Hurricane Center, as of 9:00 AM EDT September 1, 2008, Hurricane Gustav weakened to a Category Two hurricane with maximum sustained winds of 110 miles per hour.
In the States of Louisiana and Mississippi, 11:20 AM EDT September 1, 2008, there are 357,958 customers reported without power, with the majority of outages occurring in Louisiana.
At of 11:00 AM EDT August 30, 2008 the Louisiana Offshore Oil Port (LOOP) suspended onshore and offshore operations.
According to the Association for Oil Pipelines, the Capline and LoCap crude lines have been shutdown. Each of these lines has an operating capacity of 1.2 million barrels per day.

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- As of 6:00 AM EDT, August 31, Sabine Pipeline declared a force majeure due to the mandatory evacuation in place for Vermilion Parish which includes all receipt and delivery points on the Sabine system and the Henry Hub operations. The Henry Hub is the largest centralized point for natural gas spot and futures trading in the United States. The New York Mercantile Exchange (NYMEX) uses the Henry Hub as the point of delivery for its natural gas futures contract.
- The Nuclear Regulatory Commission (NRC) has reported that the Waterford nuclear power plant, located about 20 miles west of New Orleans, is shut down to ensure that all safety precautions are taken for the storm. The River Bend, Grand Gulf and South Texas Project nuclear plants did not anticipate experiencing hurricane-force winds or making emergency declarations as a result of Hurricane Gustav.
- As of 11:00 AM EDT August 31, 2008, the Strategic Petroleum Reserve (SPR) facilities at Bayou Choctaw, LA, West Hackberry, LA, and Big Hill, TX have all been shut down. The SPR facility in Bryan Mound, TX is operational.
- On August 29, 2008, the Environmental Protection Agency (EPA) issued a fuel waiver for the sixteen parishes in Louisiana who have a requirement to use 7.8 Reid Vapor Pressure (RVP) gasoline. The waiver extends until 11:59 pm on September 8, 2008.
- On September 1, 2008, EPA issued a fuel waiver for areas in Texas to use conventional gasoline in lieu of reformulated gasoline (RFG) or 7.8 RVP gasoline. The waiver extends until 11:59 pm on September 10, 2008.
- At 5:00 PM EDT August 31, 2008, the Coast Guard closed all waterways in Southeast Louisiana including the Port of New Orleans, the Port of Baton Rouge, and Port Fourchon. As of 7:30 PM EDT August 31, 2008, all inbound boardings at the Houston Ship Channel and the Freeport Ship Channel were suspended by the Houston, Galveston/Texas City, and Freeport Ships Pilots Association.

**ESF 12 Actions:**

- ESF-12 personnel are staffing the FEMA Region VI Regional Response Coordination Center (RRCC) in Denton, TX, FEMA Region VI Joint Field Office (JFO) in Baton Rouge, LA, the FEMA Region VI Austin Interim Operation Facility in Austin, TX, the FEMA Region IV RRCC in Atlanta, GA, the FEMA Region II RRCC in Philadelphia, PA and the National Response Coordination Center (NRCC) in Washington, DC.

**Situation Report Detail****Petroleum & Gas Information**



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### Oil & Gas Offshore Production Shut In Status for Affected Area

| Location             | Amount Shut In | Pre-event Production | % Shut In |
|----------------------|----------------|----------------------|-----------|
| Crude Oil (B/D)      | 1,251,049      | 1,300,000            | 96.2%     |
| Natural Gas (MMCF/D) | 6,086          | 7,400                | 82.2%     |

Source: Minerals Management Service

- As of 12:30 PM EDT, August 31, 2008, the Minerals Management Service (MMS) reports 6,086 million cubic feet per day of the Gulf's natural gas production have been shut-in, equivalent to 82.2 percent of the Gulf production. MMS reports 1,251,049 barrels/day of the Gulf's crude production has been shut-in, equivalent to 96.2 percent of the Gulf's crude production. A total of 518 production platforms, or 72.3 percent of the Gulf's 717 manned platforms, have been evacuated. Personnel from 86 rigs, representing 71.1 percent of those operating in the region, had been removed
- As of 10:00 AM EDT September 1, 2008, twelve refiners reported shutdown of 2.1 million barrels per day of capacity and ten refineries reported having reduced runs. See table below.
- Nineteen of the 22 major natural gas pipelines in the Gulf of Mexico have declared force majeure resulting in the shut-in of all operations along their offshore systems.
- There are 28 major natural gas processing plants situated in the path of the storm totaling 18.9 billion cubic feet per day. Many of the plants have taken action to shut down operations and removing personal from the facilities due to the mandatory evacuation in place for Louisiana as well as the shut-in of gathering lines supplying gas to the facilities.



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| Refineries in the Path of Gustav |                    |                  |                  |            |                  |                |
|----------------------------------|--------------------|------------------|------------------|------------|------------------|----------------|
| Refinery Impacted                | Location           | Capacity (B/D)   |                  |            |                  |                |
|                                  |                    | Operating        | Shut Down        | Restarting | Reduced Runs     | Back to Normal |
| <b>Refineries Impacted</b>       |                    |                  |                  |            |                  |                |
| Shell                            | Saraland, AL       | 86,000           |                  |            |                  |                |
| Calcasieu                        | Lake Charles, LA   | 78,000           | 78,000           |            |                  |                |
| Chalmette Refining               | Chalmette, LA      | 192,760          | 192,760          |            |                  |                |
| Citgo                            | Lake Charles, LA   | 429,500          |                  |            | 429,500          |                |
| ConocoPhillips                   | Belle Chasse, LA   | 247,000          | 247,000          |            |                  |                |
| ConocoPhillips                   | Westlake, LA       | 239,400          | 239,400          |            |                  |                |
| ExxonMobil                       | Baton Rouge, LA    | 503,000          |                  |            | 503,000          |                |
| Marathon                         | Garyville, LA      | 256,000          | 256,000          |            |                  |                |
| Motiva                           | Convent, LA        | 235,000          | 235,000          |            |                  |                |
| Motiva                           | Norco, LA          | 236,400          | 236,400          |            |                  |                |
| Murphy Oil                       | Meraux, LA         | 120,000          | 120,000          |            |                  |                |
| Placid Refining                  | Port Allen, LA     | 56,000           |                  |            |                  |                |
| Shell                            | Saint Rose, LA     | 55,000           | 55,000           |            |                  |                |
| Valero                           | Krotz Springs, LA  | 80,000           | 80,000           |            |                  |                |
| Valero                           | Norco, LA          | 185,003          | 185,003          |            |                  |                |
| Chevron                          | Pascagoula, MS     | 330,000          |                  |            | 330,000          |                |
| BP                               | Texas City, TX     | 467,720          |                  |            | 467,720          |                |
| Citgo                            | Corpus Christi, TX | 156,000          |                  |            |                  |                |
| ConocoPhillips                   | Sweeny, TX         | 247,000          |                  |            |                  |                |
| Deer Park                        | Deer Park, TX      | 329,800          |                  |            |                  |                |
| ExxonMobil                       | Baytown, TX        | 567,000          |                  |            | 567,000          |                |
| ExxonMobil                       | Beaumont, TX       | 348,500          |                  |            | 348,500          |                |
| Flint Hills Resources            | Corpus Christi, TX | 288,126          |                  |            |                  |                |
| Houston Refining                 | Houston, TX        | 270,600          |                  |            |                  |                |
| Marathon                         | Texas City, TX     | 76,000           |                  |            |                  |                |
| Motiva                           | Port Arthur, TX    | 285,000          |                  |            | 285,000          |                |
| Pasadena Refining                | Pasadena, TX       | 100,000          |                  |            | 100,000          |                |
| Total Petrochemicals             | Port Arthur, TX    | 232,000          | 232,000          |            |                  |                |
| Valero (formerly Premcor)        | Port Arthur, TX    | 289,000          |                  |            |                  |                |
| Valero                           | Corpus Christi, TX | 142,000          |                  |            |                  |                |
| Valero                           | Houston, TX        | 83,000           |                  |            | 83,000           |                |
| Valero                           | Texas City, TX     | 199,500          |                  |            | 199,500          |                |
| Valero                           | Three Rivers, TX   | 93,000           |                  |            |                  |                |
| <b>TOTAL</b>                     |                    | <b>7,503,309</b> | <b>2,156,563</b> | <b>0</b>   | <b>3,313,220</b> | <b>0</b>       |

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



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| Pipelines in the Path of Gustav |                                 |       |                |                        |           |           |
|---------------------------------|---------------------------------|-------|----------------|------------------------|-----------|-----------|
| Type                            | Name                            | Start | Terminus       | Capacity (barrels/day) | Shut Down | Operating |
| Crude                           | Capline                         | LA    | IL             | 1,200,000              | 1,200,000 |           |
| Crude                           | LOOP/Locap                      | LA    | LA             | 1,200,000              | 1,200,000 |           |
| Crude                           | Marathon gathering              | GOM   | LA/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                         | Explorer                        | LA/TX | IN             | 700,000                |           | 700,000*  |
| Product                         | Magellan                        | TX    | CO, MN, WI, IL | 45,000                 |           | 45,000    |
| Product                         | NuStar/Texas Gulf Coast Refined | TX    | TX             | ~100,000               |           | ~100,000  |
| Product                         | Plantation                      | LA    | VA             | 600,000                |           | 600,000   |

## Restoration Activities:

- The Nuclear Regulatory Commission has dispatched additional personnel to nuclear power plants in Louisiana, Mississippi and Texas in anticipation of the expected landfall Monday of Hurricane Gustav. The NRC requires plants to shut down if winds reach hurricane strength.
- As of August 29, 2008, Entergy Gulf States Louisiana, Entergy New Orleans and Entergy Louisiana opened their storm command centers in preparation for Hurricane Gustav. Entergy has crews on standby outside of the predicted landfall area, prepared to restore power after the storm makes landfall. Southwestern Electric Power Company is also preparing for outages in the wake of the Hurricane.
- As of August 31, 2008, Entergy Mississippi is preparing a restoration team that will respond to Hurricane Gustav. Entergy has crews staged near the landfall area whom are prepared to begin restoration efforts after the storm passes. Entergy Mississippi has contacted suppliers to ensure the availability of poles, wire and other equipment. As of 8/28/08 Mississippi Power has not activated its storm center, but continues to monitor Gustav.

## Other Related Information

- As of 5:00 PM EDT August 31, 2008, the Coast Guard closed the Gulf Intracoastal Waterway from mile marker 20 west of the Harvey Locks to mile marker 44, east of the Harvey Locks, and the Lower Mississippi River from the Southwest Pass sea buoy to mile marker 303.
- As of 7:00 AM EDT September 1, 2008 the Coast Guard closed the Sabine Ship Channel. As of 8:30 PM EDT August 30, 2008, the Coast Guard reported that the Corpus Christi Ship Channel ship traffic was operating as normal.