



U.S. DEPARTMENT OF ENERGY  
Office of Electricity Delivery and Energy Reliability  
Infrastructure Security and Energy Restoration

# ENERGY ASSURANCE DAILY

Wednesday Evening, November 07, 2012

## ***Major Developments***

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### **OE/ISER Situation Report: Hurricane Sandy–Nor’easter**

On November 7, a Nor’easter began to impact the U.S. Mid-Atlantic and Northeast with strong winds, rain, snow, and coastal flooding, as the region worked to recover from impacts caused by Hurricane Sandy, which made landfall on October 29. For details on the impact of this storm on customer outages, energy infrastructure issues, and restoration efforts, see: Hurricane Sandy–Nor’easter Situation Reports issued by the U.S. Department of Energy, Office of Electricity Delivery & Energy Reliability (OE/ISER) at the following URL:

[http://www.oe.netl.doe.gov/named\\_event.aspx?ID=68](http://www.oe.netl.doe.gov/named_event.aspx?ID=68)

## ***Electricity***

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### **Entergy’s 653 MW Pilgrim Nuclear Unit 1 in Massachusetts Reduced to 75 Percent by November 7**

On the morning of November 6 the unit was operating at full power.

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2012/>

### **Update: Entergy’s 510 MW Vermont Yankee Nuclear Unit in Vermont Ramped Up to 83 Percent by November 7**

On the morning of November 6 the unit was operating at 37 percent.

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2012/>

### **Update: CDWR’s 933 MW Hyatt-Thermalito Hydro Unit in California Returns to Service by November 6**

The unit returned from a curtailment of 594 MW that began by November 5 and was due to planned and unplanned causes.

<http://content.caiso.com/unitstatus/data/unitstatus201211061515.html>

## ***Petroleum***

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### **Valero Shuts FCCU after Pump Fire at Its 310,000 b/d Port Arthur, Texas Refinery November 3**

Valero Energy Corp. shut a fluid catalytic cracking unit (FCCU) at its Port Arthur refinery Saturday following a pump fire at the facility. No estimate was given on the length of time for the outage.

<http://www.nasdaq.com/article/refinery-status-coker-restarted-at-shell-refinery-in-martinez-california-20121106-01007>

## **Update: Marathon Restarts Newly Expanded 120,000 b/d Detroit, Michigan Refinery November 6**

Marathon Petroleum Corp. on Tuesday restarted its newly expanded 120,000 b/d Detroit refinery after finishing turnaround activities related to a heavy oil upgrade project, according to a spokesman. Most all of the units have been brought back online and are producing finished products, the spokesman said. Launched in June 2008, the Detroit Heavy Oil Upgrade Project has increased the refinery's capacity from 106,000 b/d to 120,000 b/d; this includes capacity to process 100,000 b/d of heavy crude oil from Canada and the Gulf Coast—five times the amount of heavy crude the refinery previously could process.

<http://www.foxbusiness.com/news/2012/11/06/marathon-petroleum-restarts-detroit-refinery-after-expansion-project/>  
<http://www.hydrocarbonprocessing.com/Article/3113909/Latest-News/Marathon-Petroleum-restarts-Detroit-refinery-after-major-expansion-project.html>

## **Analyzer Malfunction Causes Emissions at PBF Energy's 180,000 b/d Paulsboro, New Jersey Refinery November 5**

PBF Energy reported an emissions event at its Paulsboro refinery on Monday was caused by an analyzer malfunction, according to state regulators.

<http://www.nasdaq.com/article/refinery-status-coker-restarted-at-shell-refinery-in-martinez-california-20121106-01007>

## **Phillips 66 Restarts SRU at Its 239,400 b/d Westlake, Louisiana Refinery after Equipment Failure Causes Emissions October 27**

Phillips 66 reported it was restarting a sulfur recovery unit (SRU) at its Westlake refinery October 27 after an equipment failure on the unit caused sulfur dioxide emissions very early that morning, according to a filing with the U.S. National Response Center. Operators said the instrument was repaired before restarting the unit.

[http://www.nrc.uscg.mil/reports/rwservlet?standard\\_web+inc\\_seq=1028500](http://www.nrc.uscg.mil/reports/rwservlet?standard_web+inc_seq=1028500)

## **Unspecified Process Upset Causes SRU Emissions at Phillips 66's 146,000 b/d Borger, Texas Refinery November 5**

Phillips 66 reported an unspecified process upset at its Borger refinery caused emissions Monday evening, according to a filing with the Texas Commission on Environmental Quality. A sulfur recovery unit (SRU) is listed as a source of emissions.

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=175746>

## **Enbridge to Build Crude Oil Lateral Pipeline to Connect to Proposed Heidelberg Development in U.S. Gulf of Mexico**

Enbridge Inc. on Tuesday announced that it will build, own, and operate a crude oil pipeline in the U.S. Gulf of Mexico that will connect the proposed Heidelberg development, operated by Anadarko Petroleum Corporation, to an existing third-party pipeline system. The Heidelberg lateral will originate in Green Canyon Block 860, approximately 200 miles offshore southwest of New Orleans. The 20-inch, 34-mile pipeline is expected to be operational by 2016. Construction of the pipeline is subject to finalization of definitive agreements and sanction of the development by Anadarko and its project co-owners.

<http://www.enbridge.com/MediaCentre/News.aspx?yearTab=en2012&id=1687833>

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## **Natural Gas**

### **Field Unit Shutdowns Cause Flaring at Southern Union Gas Services 140 MMcf/d Keystone Gas Plant in Texas November 6**

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=175751>

### **DCP Midstream Reports Flaring at Its 70 MMcf/d Fullerton Gas Plant in Texas November 6**

DCP Midstream reported it was flaring low-pressure gas at its Fullerton plant Tuesday morning due to a combination of high inlet gas volumes, which required a South Fullerton booster engine to be shut down, a surge in carbon dioxide, and the West Turbine dropping off line, according to a filing with the Texas Commission on Environmental Quality.

<http://www11.tceq.state.tx.us/oc/eer/index.cfm?fuseaction=main.getDetails&target=175740>

### **Pembina to Expand NGL and Crude and Condensate Capacity on Its Peace and Northern Pipeline Systems in Western Canada**

Pembina Pipeline Corporation on Tuesday announced plans to expand its natural gas liquids (NGL) and crude oil and condensate throughput capacity on its Peace and Northern Pipeline Systems to accommodate higher customer demand due to strong drilling results and increased field liquids extraction by area producers in western Canada. Expansion plans include increasing capacity on its Peace Pipeline System by 55,000 b/d by mid- to late-2014, and on its Northern NGL System by 53,000 b/d by early to mid-2015. These expansions are in addition to previously announced projects to expand both systems. Pembina is currently completing Phase 1 of a 40,000 b/d crude oil and condensate expansion on its Peace Pipeline System, which will increase capacity on the system to 195,000 b/d by the end of 2013. Once complete, the proposed Phase 2 crude oil and condensate expansion will increase capacity on the Peace Pipeline to 250,000 b/d. Pembina is also currently completing Phase 1 of a 52,000 b/d NGL expansion on its Northern NGL System, which will increase capacity on the system to 167,000 b/d by the end of 2013. Once complete, the proposed Phase 2 NGL expansion will increase capacity on the Northern NGL System to 220,000 b/d. <http://pembina.mediaroom.com/index.php?s=10336&item=135174>

### **Thieves Steal 800 Feet of Copper Wiring from Inactive Power Lines in Southern California in October**

<http://www.the-signal.com/section/36/article/80019/>

## International News

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### **TransCanada to Build 202 MMcf/d El Oro-to-Mazatlan Natural Gas Pipeline in Mexico**

TransCanada Corporation on Monday announced that its Mexican subsidiary, Transportadora de Gas Natural del Noroeste, was awarded the contract to build, own, and operate the El Oro-to-Mazatlan Pipeline (Mazatlan Pipeline) in Mexico, following a successful bid to the Comisión Federal de Electricidad (CFE), Mexico's federal power company. The 24-inch, 413-km pipeline will have a capacity of 202 MMcf/d and is expected to be in service in the fourth quarter of 2016. It will interconnect with the El Encino-to-Topolobampo Pipeline that TransCanada announced plans to build last week.

<http://www.transcanada.com/6134.html>

### **South Korea Shuts Two 1,000 MW Nuclear Reactors for Nearly Two Months to Replace Parts Provided with Forged Certificates**

South Korea has closed two nuclear power reactors for nearly two months of unscheduled maintenance to replace parts that had been provided with forged certificates, Korean ministry officials reported on Monday. The shutdown may cause an unprecedented power shortage this winter, the ministry said in a statement. The two 1,000-MW reactors, located at the Yonggwang nuclear plant about 300 kilometers southwest of Seoul, are expected to remain offline until the end of this year. Korea Hydro & Nuclear Power Co Ltd (KHNP), which operates the plant, has alleged that eight firms forged 60 false certificates to cover 7,682 items between 2003 and 2012. The problematic items were mostly supplied to the two Yonggwang reactors, but three other reactors were also equipped with the items but will not require a full shutdown to replace. Government officials said South Korea would take measures to cut power consumption rather than increase imports of alternative fuels to feed additional electricity generation.

<http://www.reuters.com/article/2012/11/06/nuclear-korea-idUSL3E8M64KB20121106>

<http://www.bloomberg.com/korea-hydro-pledges-to-tighten-audits-on-nuclear-reactor-parts.html?cmpid=yahoo>

### **Explosion Hits Main Oil Pipeline Linking Eastern Oil Fields with Homs Refinery in Syria November 6**

<http://www.reuters.com/article/2012/11/06/syria-crisis-pipeline-idUSL5E8M63CN20121106>

## Energy Prices

U.S. Oil and Gas Prices November 7, 2012			
	Today	Week Ago	Year Ago
<b>CRUDE OIL</b> <b>West Texas Intermediate U.S.</b> \$/Barrel	84.66	86.11	95.19
<b>NATURAL GAS</b> <b>Henry Hub</b> \$/Million Btu	3.57	3.34	3.44

Source: Reuters

## Links

***This Week in Petroleum*** from the U.S. Energy Information Administration (EIA)

<http://www.eia.gov/oog/info/twip/twip.asp>

Updated every Wednesday.

***Weekly Petroleum Status Report*** from EIA

[http://www.eia.gov/oil\\_gas/petroleum/data\\_publications/weekly\\_petroleum\\_status\\_report/wpsr.html](http://www.eia.gov/oil_gas/petroleum/data_publications/weekly_petroleum_status_report/wpsr.html)

Updated after 10:30 AM and 1:00 PM Eastern Time every Wednesday.

***Natural Gas Weekly Update*** from EIA

<http://www.eia.gov/oog/info/ngw/ngupdate.asp>

Updated after 2:00 PM Eastern Time every Thursday.

### ENERGY ASSURANCE DAILY

*Energy Assurance Daily* provides a summary of public information concerning current energy issues. Published Monday through Friday to inform stakeholders of developments affecting energy systems, flows, and markets, it provides highlights of energy issues rather than a comprehensive coverage. *Energy Assurance Daily* is updated online Monday through Friday after 5:00 PM Eastern Time. For more information, visit the Infrastructure Security and Energy Restoration (ISER) website at:

<http://www.oe.netl.doe.gov/ead.aspx>

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